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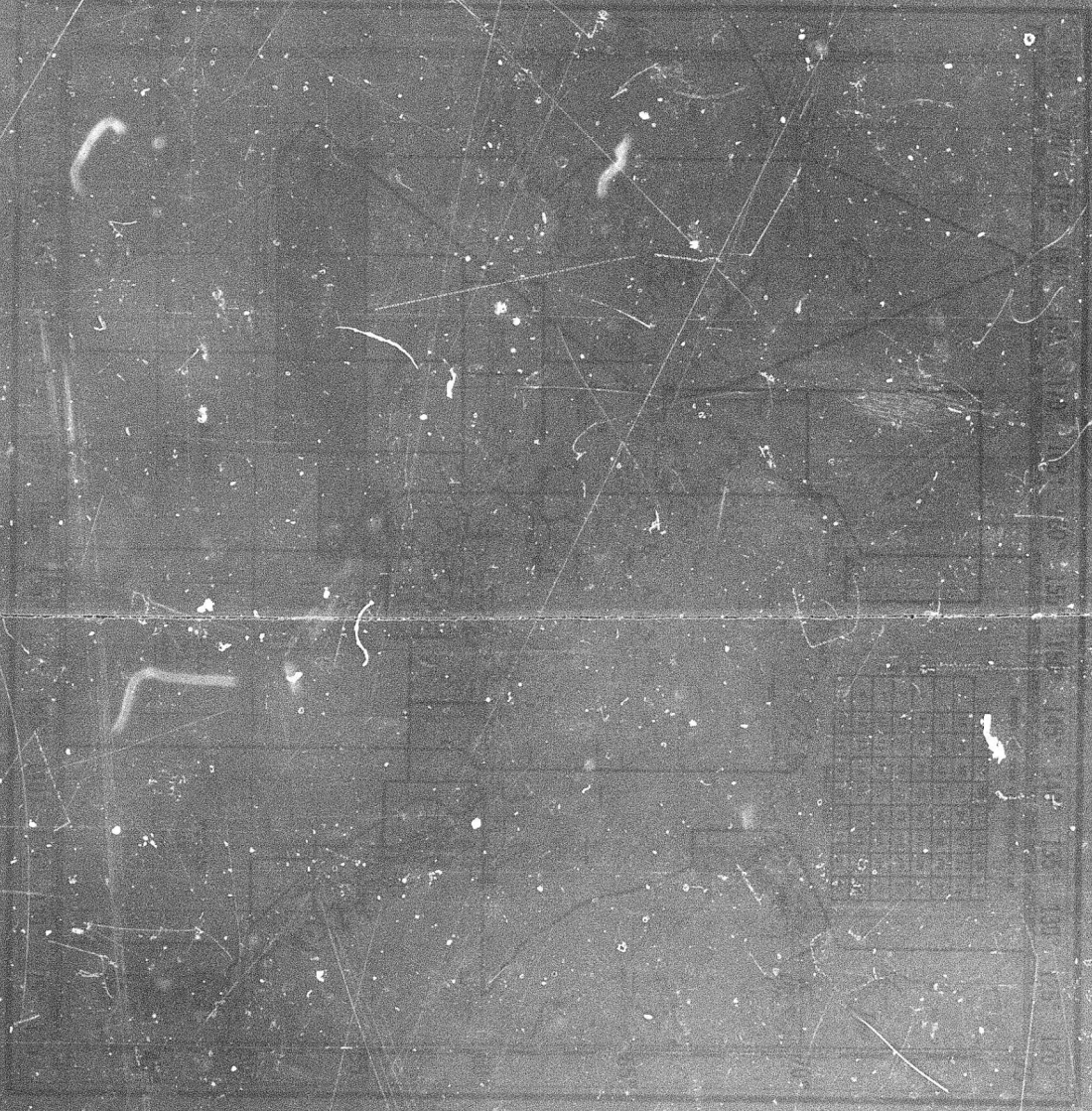
U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF  
SYNOPTIC METEOROLOGICAL OBSERVATIONS

NORTH ATLANTIC COASTAL MARINE AREAS

VOLUME II

AREA: UIMAX  
AREA: BUCHHAE  
AREA: BUCHHAE  
AREA: BUCHHAE



**U. S. NAVAL WEATHER SERVICE COMMAND**  
**SUMMARY OF**  
**SYNOPTIC METEOROLOGICAL OBSERVATIONS**

**NORTH AMERICAN COASTAL MARINE AREAS**

**VOLUME 13**

**AREA 7 - UNIMAK**  
**AREA 8 - DUTCH HARBOR**  
**AREA 9 - ADAK**  
**AREA 10 - ATTU**



## 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 NWSERD Asheville as the most comprehensive collection of marine surface observations from which to develop a series of coastal marine summaries. The source was punched cards of weather observations taken aboard vessels of varying registry. They were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

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

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

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

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from source deck 128 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.

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 (16 pts.).

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

Table 3 - Percentage Frequency of Wind Direction (16 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (16 pts.).

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

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

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (16 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 (16 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 (16 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 (16 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.

Areas covered by the North American Coastal SSMO Volumes 1-10 are listed on the outside back cover.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ( $^{\circ}$  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.

AREA	CONTENTS NAME	PAGE
7	UNIMAK	1-158
8	DUTCH HARBOR	159-316
9	ADAK	317-474
10	ATTU	475-632

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WIND AND WEATHER CODES

CONVERSION OF WIND DIRECTION TO 8 AND 16 POINTS				PRESENT WEATHER (1960 WMO CODE 4677)	
8 POINTS	16 POINTS	36 POINTS	32 POINTS	CODE	INTERPRETATION
N	{ N NNE	35, 36, 01 02, 03	32, 01 02, 03	90-93	VV<1/2
NE	{ NE ENE	04, 05 06, 07	04, 05 06, 07	94	1/2 ≤ VV < 1
E	{ E ESE	08, 09, 10 11, 12	08, 09 10, 11	95	1 ≤ VV < 2
SE	{ SE SSE	13, 14 15, 16	12, 13 14, 15	96	2 ≤ VV < 5
S	{ S SSW	17, 18, 19 20, 21	16, 17 18, 19	97	5 ≤ VV < 10
SW	{ SW WSW	22, 23 24, 25	20, 21 22, 23	98	10 ≤ VV < 25
W	{ W WNW	26, 27, 28 29, 30	24, 25 26, 27	99	≥ 25
NW	{ NW NNW	31, 32 33, 34	28, 29 30, 31		
VAR	VAR	99	---		
CALM	CALM	00	00		
VAR-VARIABLE					

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

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

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

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25}	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75}	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25}	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75}	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}	26-32	34	>16.75 to 17.25}	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}		35	>17.25 to 17.75}	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}		37	>18.25 to 18.75}	61-70
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}	33-40	38	>18.75 to 19.25}	
09	>4.25 to 4.75}		21	>10.25 to 10.75}		39	>19.25 to 19.75}	
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}	41-48	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}		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		

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JANUARY

PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT UB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL URS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG MD	SMOKE HAZE	DUST BLWG	DUST SNOW	
N	.2	.1	.0	.0	.0	.8	.1	1.1	10	.0	.1	.0	.0	7.3	77
MNE	.1	.0	.1	.0	.2	.0	.0	.4	4	.0	.1	.0	.0	3.6	38
NE	.1	.0	.1	.0	.1	.0	.0	.3	3	.0	.6	.0	.0	4.0	44
ENE	.8	.0	.1	.0	.3	.0	.0	1.0	9	.0	.6	.0	.0	3.0	41
E	2.1	.1	1.0	.0	.9	.1	.1	4.0	36	.0	1.1	.0	.0	6.1	101
ESE	.7	.1	.9	.0	.1	.0	.0	1.7	15	.0	.9	.0	.0	2.9	49
SE	.8	.0	1.1	.0	.2	.0	.0	2.1	19	.0	.9	.1	.0	3.6	61
SSE	.4	.0	.8	.0	.2	.0	.0	1.3	12	.0	.2	.0	.0	2.2	34
S	.7	.2	.6	.0	.2	.0	.0	1.5	14	.0	.3	.0	.0	5.7	69
SSW	.2	.0	.1	.0	.1	.0	.0	.4	4	.0	.1	.0	.0	2.6	30
SW	.2	.0	.2	.0	.0	.0	.0	.3	3	.0	.1	.0	.0	4.2	44
WSW	.1	.0	.2	.0	.3	.1	.0	.8	7	.0	.1	.0	.0	4.0	44
W	.2	.1	.0	.0	.6	.0	.0	.8	7	.0	.1	.0	.0	7.2	73
WNW	.1	.1	.1	.0	.7	.0	.0	.8	7	.0	.1	.0	.0	6.3	65
NW	.2	.0	.0	.0	.7	.0	.0	1.0	9	.0	.1	.0	.0	4.4	49
NNW	.0	.0	.1	.0	.3	.1	.0	.6	5	.0	.0	.0	.1	5.8	59
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.1	.0	.0	.0	.0	.1	1	.0	.0	.0	.0	3.0	28
TOT OBS	63	7	50	0	52	4	4	165	165	0	48	4	1	688	906
TOT PCT	7.0	.8	5.5	.0	5.7	.4	.4	18.2	18.2	.0	5.3	.4	.1	75.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL URS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG MD	SMOKE HAZE	DUST BLWG	DUST SNOW	
00003	6.0	.0	7.2	.0	5.6	.8	.0	16.8	42	.0	5.2	.8	.0	77.2	250
06009	8.3	.4	5.2	.0	6.1	.0	.4	20.1	46	.0	4.4	.9	.0	74.7	229
12015	6.2	.4	4.9	.0	4.9	.0	.0	16.0	36	.0	4.9	.0	.0	79.1	225
18021	6.7	2.2	4.0	.0	5.8	.9	.4	18.4	41	.0	7.2	.0	.4	74.0	223
TOT	63	7	50	0	52	4	4	165	165	0	50	4	1	707	927
PCT	6.8	.8	5.4	.0	5.6	.4	.2	17.8	17.8	.0	5.4	.4	.1	76.3	100.0

JANUARY

PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD		
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15
N	.1	2.5	2.8	3.1	1.1	.3	109	9.8	7.1	11.5	3.8	8.3	11.5	9.7	12.2
NNE	.2	1.2	1.8	1.1	.2	.0	49	4.4	7.1	4.6	7.7	5.7	3.8	2.5	4.9
NE	.0	1.7	2.5	.9	.2	.0	59	5.3	3.6	6.5	7.7	6.1	3.8	5.9	4.9
ENE	.1	1.6	1.4	1.2	.8	.0	57	5.1	14.3	5.0	7.7	3.0	3.8	5.5	2.4
E	.1	2.1	4.0	2.4	1.5	.0	113	10.2	3.6	11.2	7.7	10.0	7.7	10.1	12.2
ESE	.1	1.0	2.0	1.3	.4	.1	54	4.9	7.1	2.7	3.8	5.7	3.8	5.1	7.3
SE	.1	1.7	2.5	2.6	.4	.0	81	7.3	14.3	8.5	7.7	3.9	.0	8.0	9.8
SSE	.0	.4	2.2	.6	.3	.1	40	3.6	.0	3.5	7.7	3.9	3.8	3.4	2.4
S	.0	1.7	3.7	1.3	.2	.2	78	7.0	7.1	5.8	7.7	7.0	11.5	7.2	9.8
SSW	.0	.6	1.7	.8	.2	.0	37	3.3	.0	2.7	3.8	4.8	11.5	3.4	2.4
SW	.0	1.3	2.2	.9	.3	.0	52	4.7	3.6	3.8	11.5	7.0	7.7	4.6	4.9
WSW	.1	1.0	1.6	1.4	.4	.0	51	4.6	3.6	5.4	7.7	3.9	3.8	4.6	4.9
W	.0	2.8	1.7	2.9	.4	.0	87	7.8	7.1	7.7	.0	10.0	3.8	9.7	2.4
WNW	.1	1.2	3.1	1.8	1.2	.0	81	7.3	7.1	6.2	3.8	4.8	15.4	5.1	9.8
NW	.1	1.0	1.6	1.4	1.3	.2	63	5.8	7.1	5.8	11.5	6.1	3.8	5.9	4.9
NNW	.0	1.2	1.8	2.1	1.3	.3	73	6.6	7.1	6.2	.0	7.0	3.8	7.6	4.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	255	408	287	112	12	28	2.5	.0	3.1	.0	3.0	.0	1.7	.0
TOT OBS	38	22.9	36.7	25.8	10.1	1.1	1112	19.2	28	260	26	230	26	237	41
TOT PCT	3.4	22.9	36.7	25.8	10.1	1.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15
N	1.4	4.9	4.7	2.5	.7	158	14.2	15.6	16.2	11.5	13.9	15.4	12.2	17.1
NE	1.2	4.5	2.7	1.9	.2	116	10.4	17.7	11.5	15.4	9.1	7.7	11.4	7.3
E	1.1	5.1	5.6	2.8	.4	167	15.0	20.1	13.8	11.5	15.7	11.5	15.2	19.5
SE	.9	4.2	3.5	2.2	.1	121	10.9	19.1	11.9	15.4	7.8	3.8	11.4	12.2
S	.4	5.1	3.4	1.1	.4	115	10.3	17.9	8.5	11.5	11.7	23.1	10.5	12.2
SW	1.4	3.1	3.0	1.5	.2	103	9.3	18.2	7.1	19.2	10.9	11.5	9.3	9.8
W	.9	6.4	4.7	2.5	.6	168	15.1	19.7	13.8	3.8	14.8	19.2	14.8	12.2
NW	1.3	3.1	3.0	3.8	1.1	136	12.2	24.2	11.9	11.5	13.0	7.7	13.5	9.8
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	106	339	203	41	28	2.5	.0	3.1	.0	3.0	.0	1.7	.0
TOT OBS	123	36.5	30.5	20.3	3.7	1112	19.2	26	260	26	230	26	237	41
TOT PCT	11.1	36.5	30.5	18.3	3.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE								PCT TOTAL OBS	
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN		
0003	.3	24.0	32.5	29.8	8.9	1.4	3.1	19.5	100.0	292
0609	.3	23.4	34.3	26.9	11.5	.7	2.8	19.3	100.0	286
1215	2.0	17.6	40.6	25.8	10.2	1.2	2.7	19.5	100.0	256
1821	1.1	26.3	39.9	20.5	9.7	1.1	1.4	18.5	100.0	278
TOT	10	255	408	287	112	12	28	19.2		1112
PCT	.9	22.9	36.7	25.8	10.1	1.1	2.5	19.2	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	9	10	11	12	13	14		
N	2.5	1.1	3.7	2.2	7.9						79	5.0
NNE	1.3	.6	1.3	1.3	3.8						38	4.7
NE	.7	.8	1.2	2.0	4.0						40	5.6
ENE	.2	.2	1.2	2.9	38						90	6.8
E	.8	.4	1.4	8.2	90						41	7.1
ESE	.1	.1	.6	4.1	41						46	7.5
SE	.2	.4	1.4	3.5	46						29	6.9
SSE	.0	.7	.1	2.6	29						58	7.1
S	.5	.4	2.8	5.4	58						26	6.6
SSW	.2	1.0	1.3	.6	26						36	5.3
SW	1.1	.5	1.8	1.0	36						65	5.0
WSW	.5	1.0	1.7	1.7	40						69	5.6
W	1.3	1.6	3.1	1.8	65						52	5.2
WNW	1.2	1.4	3.5	2.2	69						60	5.4
NW	1.2	.5	2.5	2.0	52						26	5.6
NNW	1.8	1.2	2.4	1.8	60						0	4.8
VAR	.0	.0	.0	.0	0						26	.0
CALM	.8	.8	.6	.8	26						833	4.2
TOT OBS	122	105	256	350	833						100.0	5.8
TOT PCT	14.6	12.6	30.7	42.0	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	NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	8000+				
N	.1	.1	.2	.7	1.7	2.3	.1	.0	.0	.0	4.2	79	
NNE	.0	.1	.1	.1	1.0	.8	.1	.0	.0	.0	2.2	38	
NE	.5	.1	.4	.6	.5	.7	.1	.0	.0	.0	1.8	40	
ENE	.5	.4	.0	.2	1.7	.7	.1	.0	.0	.0	.8	38	
E	1.7	.7	.5	1.7	1.8	2.5	.0	.0	.0	.4	1.6	90	
ESE	.7	.0	.5	1.0	1.1	1.2	.0	.0	.0	.0	.5	41	
SE	.6	.1	.5	.7	1.7	.7	.4	.0	.0	.0	.7	46	
SSE	.4	.0	.2	.4	1.2	.4	.0	.0	.0	.0	1.0	29	
S	.4	.0	.1	.8	2.3	1.6	.1	.0	.0	.4	1.3	58	
SSW	.4	.0	.1	.6	.7	.4	.1	.0	.0	.0	1.2	26	
SW	.4	.0	.2	.4	.8	.5	.1	.0	.0	.0	1.9	36	
WSW	.4	.0	.0	.1	1.2	.7	.1	.0	.0	.0	2.3	40	
W	.4	.0	.0	.6	1.7	.8	.0	.0	.0	.1	3.8	65	
WNW	.1	.0	.0	1.0	2.3	1.0	.5	.0	.0	.0	3.5	69	
NW	.4	.2	.1	1.0	1.8	.4	.1	.0	.0	.2	2.0	52	
NNW	.4	.0	.0	.7	1.7	.7	.0	.0	.0	.0	3.7	60	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOT OBS	53	16	25	88	194	136	17	4	4	10	286	833	
TOT PCT	6.4	1.9	3.0	10.6	23.3	16.3	2.0	.5	.5	1.2	34.3	100.0	

PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1965-1970

JANUARY

AREA 0007 UNIMAK  
53N-00AS1 157-165W

TABLE 7

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

CEILING (FEET)	= OR >10		= OR >5		= OR >2		VSBY (NM)		= OR >1/2		= OR >1/4		= OR >50YD		= OR >0	
							>1	>1/2	>1/4	>50YD	>0	>0	>0	>0	>0	>0
= OR >6500	1.5	1.5	1.5	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
= OR >5000	1.9	2.0	2.0	2.0	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 >3500	3.9	4.0	4.1	4.1	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	12.7	18.0	20.5	20.5	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
= OR >1000	24.8	37.4	42.3	42.3	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
= OR >600	28.4	46.1	51.5	51.5	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
= OR >300	29.4	48.2	54.1	54.1	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3
= OR >150	29.4	48.8	55.1	55.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
= OR > 0	29.6	50.2	57.5	57.5	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3
TOTAL	250	424	485	485	517	517	517	517	517	517	517	517	517	517	517	517

TOTAL NUMBER OF OBS: 844 PCT FREQ NH <5/8: 34.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	7.9	3.5	8.0	7.1	7.9	7.4	10.4	8.9	32.7	6.4
										891

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AREA 0007 UNIMAK  
53N-COAST 157-165M

PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						MSM
<1/2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .1 1	.0 .2 2	.1 .1 1	.1 .2 2	.0 .6 5	.1 .0 0	.0 .2 2	.0 .0 0	.0 .1 1	.1 .0 0	.1 .0 0	.0 .0 0	.0 .0 0	.1 .2 3	.0 .0 0	.0 .0 0	.0 .0 0	.0 6 22 28	.7 2.4 3.1
1/2<1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .1 1	.0 .1 1	.0 .1 1	.0 .1 1	.0 .0 0	.0 .0 0	.1 .2 3	.1 .1 2	.0 .0 0	.1 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 5 8 13	.6 .9 1.4
1<2	.2 .0 2	.1 .2 3	.1 .0 1	.1 .3 4	.1 .3 4	.1 .3 4	.2 .2 4	.2 .1 3	.0 .1 1	.1 .0 1	.1 .1 2	.0 .0 0	.0 .0 0	.0 .2 2	.1 .0 1	.1 .0 1	.0 .1 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 24 18 42	2.7 2.0 4.7
2<5	.4 .0 4	.1 .0 1	.1 .4 5	.3 .2 5	.9 1.1 18	.9 1.1 18	.4 .2 6	.6 .3 8	.4 .2 6	.4 .2 6	.1 .1 2	.0 .3 3	.2 .2 4	.0 .2 2	.2 .0 2	.1 .0 1	.1 .4 5	.0 .0 0	.0 .0 0	.0 .0 0	.1 55 42 97	6.1 4.7 10.8
5<10	.4 1.9 21	.2 .4 6	.1 1.0 10	.3 .9 11	.6 2.5 28	.6 1.1 14	.4 .4 8	1.3 1.6 26	.4 .4 8	.9 1.7 23	.1 .8 8	.3 1.0 12	.1 1.6 15	.6 2.1 24	.3 1.8 19	.7 1.0 15	.1 1.2 12	.0 .0 0	.0 .0 0	.0 .7 6	63 195 258	7.0 21.6 28.6
10+	.1 5.5 51	.0 3.1 28	.0 2.8 25	.1 1.8 17	.2 2.8 27	.0 .8 7	.1 1.3 13	.0 2.1 19	.1 1.3 13	.0 3.7 33	.0 1.8 16	.0 3.1 28	.2 2.3 23	.1 4.8 44	.1 4.7 43	.0 3.4 31	.2 4.0 38	.0 .0 0	.0 2.3 21	.0 453 464	1.2 50.2 51.4	
TOTAL PCT	78 8.6	38 4.2	43 4.8	41 4.5	100 11.1	48 5.3	34 3.8	61 6.8	30 3.3	68 7.5	30 3.3	44 4.9	44 4.9	73 8.1	65 7.2	48 5.3	59 6.5	0 .0	28 3.1	902 100.0	100.0	

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PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

AREA 0007 UNIMAK  
53N-COAST 157-165h

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	MSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.1	.4	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.7
	11-21	.0	.0	.1	.1	.0	.2	.3	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	10	.9
	22+	.0	.0	.0	.0	.3	.1	.0	.1	.0	.1	.0	.0	.1	.0	.0	.1	.3	.0	11	1.0
	TOTAL	0	0	1	2	7	3	5	2	2	2	0	1	1	1	0	1	3	0	29	2.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.1	.0	.0	.0	.0	.0	.0	4	.4
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2
	22+	.0	.0	.0	.1	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	7	.6
	TOTAL	0	0	1	2	1	2	0	1	3	2	0	1	0	0	0	0	0	0	13	1.2
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.3
	11-21	.0	.1	.0	.0	.1	.2	.3	.2	.0	.1	.0	.0	.1	.2	.0	.0	.1	.0	14	1.3
	22+	.2	.1	.1	.5	1.0	.1	.0	.1	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	26	2.4
	TOTAL	2	3	1	5	13	4	3	4	4	1	2	0	2	2	1	1	1	0	44	4.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.1	.1	.2	.4	.3	.2	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	17	1.5
	11-21	.1	.1	.3	.2	1.0	.7	.5	.4	.5	.2	.1	.3	.2	.1	.0	.0	.1	.0	50	4.5
	22+	.4	.0	.1	.1	1.0	.7	.4	.1	.0	.0	.1	.2	.2	.1	.1	.4	.0	.0	41	3.7
	TOTAL	5	2	5	5	19	11	6	6	6	2	3	5	5	3	3	6	0	1	109	9.9
5<10	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	9	.8
	4-10	.5	.1	.5	.4	.4	.2	.8	.0	.5	.1	.3	.1	.4	.1	.0	.2	.0	.0	50	4.5
	11-21	.9	.2	.3	.3	1.1	.5	.8	.6	1.2	.4	.3	.4	.5	.8	.8	.1	.0	.0	101	9.2
	22+	1.0	.3	.5	.5	1.2	.6	1.0	.5	.9	.4	.6	.9	1.6	1.0	1.2	.9	.0	.0	140	12.7
	TOTAL	27	8	14	13	29	15	29	12	25	9	13	16	28	28	21	22	13	0	300	27.2
10+	0-3	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	1.9	2.4
	4-10	2.0	.9	1.0	1.0	.8	.4	.5	.2	1.2	.5	.8	.8	2.4	1.1	1.0	.9	.0	.0	171	15.5
	11-21	1.8	1.5	1.8	.8	1.9	.3	.7	1.0	1.9	1.0	1.7	.9	1.1	1.9	.6	1.5	.0	.0	226	20.5
	22+	2.9	.9	.5	.8	.5	.3	1.6	.2	.5	.4	.5	.8	1.4	1.9	1.5	2.1	.0	.0	184	16.7
	TOTAL	75	36	36	30	36	10	33	15	40	21	33	28	53	55	36	50	0	21	608	55.1
TOTAL	109	49	58	57	112	53	81	40	77	36	50	51	87	87	31	61	73	0	28	1103	100.0
PCT	9.9	4.4	5.3	5.2	10.2	4.8	7.3	3.6	7.0	3.3	4.5	4.6	7.9	7.9	7.3	5.5	6.6	.0	2.5	100.0	

JANUARY

PERIOD: (PRIMARY) 1955-1970  
(COVER-ALL) 1905-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	5.9	.8	4.2	7.2	21.1	19.4	3.8	.8	.0	1.3	64.6	35.4	237
06009	8.4	3.3	2.8	10.3	20.6	16.8	1.9	.9	.9	.9	66.8	33.2	214
12015	6.3	1.0	1.5	10.7	25.7	15.5	1.0	.0	.5	1.0	63.1	36.9	206
18021	6.7	2.4	2.9	13.0	23.1	13.0	1.4	.0	.5	1.4	64.4	35.6	208
TOT	59	16	25	86	195	141	18	4	4	10	560	305	865
PCT	6.8	1.8	2.9	10.2	22.5	16.3	2.1	.5	.5	1.2	64.7	35.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.9	1.7	5.2	5.6	21.0	62.7	233
06009	3.3	.5	5.3	7.7	26.3	56.9	209
12015	2.5	.5	2.0	8.5	28.5	58.0	200
18021	3.0	2.0	3.0	8.9	27.2	55.9	202
TOT	27	10	33	64	216	494	844
PCT	3.2	1.2	3.9	7.6	25.6	58.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	5.6	12.0	25.3	40.3	34.3	233
06009	7.7	14.8	29.7	37.8	32.5	209
12015	6.0	9.0	26.5	37.5	36.0	200
18021	6.9	12.9	33.7	33.7	32.7	202
TOT	55	103	242	316	286	844
PCT	6.5	12.2	28.7	37.4	33.9	100.0

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PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

AREA 0007 UNIMAK  
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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
45/49	.0	.0	.0	.0	.2	.3	.9	.8	14	2.2
40/44	.0	.2	.5	.2	2.4	5.7	5.8	7.9	143	22.6
35/39	.0	.0	.2	1.1	3.6	6.8	14.7	20.5	297	46.8
30/34	.0	.0	.0	.5	1.6	2.8	7.3	6.8	120	18.9
25/29	.0	.0	.0	.0	.3	1.4	1.3	2.2	33	5.2
20/24	.0	.0	.0	.0	.0	1.1	.5	2.2	24	3.8
15/19	.0	.0	.0	.0	.0	.0	.3	.2	3	.5
TOTAL	.0	1	4	11	51	115	195	257	634	100.0
PCT	.0	.2	.6	1.7	8.0	18.1	30.8	40.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.3	1.1	.3	.2	.0	.3	.0	.0	.0
40/44	2.2	1.6	3.9	4.7	3.2	2.2	4.3	.5	.0	.0
35/39	6.0	5.5	5.2	4.6	6.5	6.2	7.9	4.3	.0	.8
30/34	5.8	2.8	.9	.3	.0	1.1	3.8	3.9	.0	.2
25/29	2.1	.3	.2	.0	.0	.0	.6	2.1	.0	.0
20/24	1.1	.3	.2	.0	.0	.0	.9	1.3	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.2	.3	.0	.0
TOTAL	109	69	73	63	62	60	114	78	0	6
PCT	17.2	10.9	11.5	9.9	9.8	9.5	18.0	12.3	.0	.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	47	46	43	38	25	18	17	36.5	291
06009	46	44	43	37	24	18	16	35.7	285
12015	45	43	41	37	22	15	14	35.0	259
18021	47	45	43	37	22	16	14	35.2	282
TOT	47	45	42	37	23	17	14	35.6	1117

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
00003	.0	1.8	11.4	18.6	31.1	37.1	84	167
06009	.0	1.8	5.5	20.7	26.2	45.7	86	164
12015	.0	4.2	9.8	11.2	41.3	33.6	84	143
18021	.0	2.5	5.6	21.1	25.5	45.3	85	161
TOT	0	16	51	115	195	258	85	635

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PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

AREA 0007 UNIMAK  
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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	13	17	21	25	29	33	37	41	45	TOT	W FOG	WU FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.4	3	.0	.4
6	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
5	.0	.0	.0	.0	.0	.0	.2	.4	.4	8	.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	1.3	.5	15	.4	1.4
3	.0	.0	.0	.0	.0	.0	.7	1.6	.0	19	.2	2.0
2	.0	.0	.0	.0	.0	.1	2.8	2.4	.1	45	.8	4.6
1	.0	.0	.0	.0	.0	.2	6.0	1.3	.0	63	.5	7.1
0	.0	.0	.0	.0	.0	1.2	7.2	1.2	.0	80	1.1	8.5
-1	.0	.0	.0	.0	.0	1.4	6.6	.4	.0	70	.8	7.6
-2	.0	.0	.0	.1	.0	2.4	10.0	.2	.0	106	.8	11.9
-3	.0	.0	.0	.0	.4	2.8	4.1	.1	.0	61	.2	7.1
-4	.0	.0	.0	.0	.1	6.4	2.2	.1	.0	73	.2	8.5
-5	.0	.0	.0	.2	.7	5.0	1.1	.1	.0	60	.1	7.1
-6	.0	.0	.0	.2	.6	3.4	.5	.0	.0	39	.2	4.4
-7/-8	.0	.0	.0	.2	2.3	2.9	.6	.0	.0	50	.1	5.9
-9/-10	.0	.0	.0	.6	3.6	1.8	.1	.0	.0	51	.1	6.0
-11/-13	.0	.1	.7	1.0	.6	.5	.0	.0	.0	18	.0	2.2
-14/-16	.0	.1	1.2	.8	.0	.0	.0	.0	.0	22	.0	2.6
-17/-19	.4	1.0	.8	.0	.0	.0	.0	.0	.0	22	.0	2.6
-20/-22	.4	.2	.6	.6	.0	.0	.0	.0	.0	15	.0	1.8
-23/-25	.0	.8	.2	.0	.0	.0	.0	.0	.0	9	.0	1.1
-26/-30	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	.6	1.6	2.2	4.2	7.4	23.4	35.1	7.6	13	834	4.8	78.6
PCT	.7	1.9	2.6	5.0	8.9	28.1	42.1	9.1	1.6	100.0	5.8	94.2

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 JANUARY  
 TABLE 18  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	N					NE					TOTAL	48+	TOTAL	
	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	.7	.0	.0	.0	.0	.0	.0	3
1-2	.0	2.2	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	2
3-4	.0	.5	1.2	.2	.0	.0	.2	1.7	.5	.0	.0	.0	.0	10
5-6	.0	.2	.7	.7	.2	.0	.0	1.0	.2	.2	.0	.0	.0	6
7	.0	.2	.5	.2	.2	.0	.0	.5	.5	.0	.0	.0	.0	4
8-9	.0	.0	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	1
12	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	1
13-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	1
17-19	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	13	14	10	5	42	6	13	7	2	28	0	0	28
PCT	.0	3.2	3.5	2.5	1.2	10.4	1.5	3.2	1.7	.5	7.0	.0	.0	7.0

HGT	E					SE					TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47				
<1	.0	2.5	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	3
1-2	.0	1.0	.5	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	4
3-4	.0	1.5	2.5	.7	.0	.0	.7	1.2	.2	.0	.0	.0	.0	9
5-6	.0	.2	1.2	1.0	.0	.0	.2	2.5	.0	.0	.0	.0	.0	11
7	.0	.0	1.0	.7	.0	.0	.0	1.2	.5	.0	.0	.0	.0	7
8-9	.0	.5	.7	.7	.0	.0	.0	.2	.2	.0	.0	.0	.0	2
10-11	.0	.0	.2	2.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	1
12	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	23	28	22	2	76	7	25	5	0	37	0	0	37
PCT	.0	5.7	7.0	5.5	.5	18.9	1.7	6.2	1.2	.0	9.2	.0	.0	9.2

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 JANUARY  
 TABLE 18  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	S										SW										48+ TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.7	.0	.0	.0	.0	3	.0	1.2	.0	.0	.0	.0	.0							
1-2	.0	.5	.5	.0	.0	.0	4	.0	.7	1.5	.0	.0	.0	.0							
3-4	.0	1.0	2.7	.2	.0	.0	16	.0	.5	2.0	.5	.0	.0	.0							
5-6	.0	.2	1.7	.7	.0	.0	9	.0	.5	1.2	.5	.0	.0	.0							
7	.0	.0	.7	.0	.0	.0	6	.0	.0	.5	.5	.0	.0	.0							
8-9	.0	.0	.5	1.2	.0	.0	7	.0	.0	.2	.7	.0	.0	.0							
10-11	.0	.0	.2	.0	.0	.0	1	.0	.0	.2	.5	.0	.0	.0							
12	.0	.0	.0	.5	.2	.0	3	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.2	.0	.0							
17-19	.0	.0	.2	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
TOTAL	.0	2.5	6.7	3.0	1.0	.0	50	.0	12	23	13	.0	.0	50							
PCT	.0	2.5	6.7	3.0	.2	.0	12.4	.0	3.0	5.7	3.2	.0	.0	12.4							

HGT	W										NW										48+ TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL								
<1	.0	1.0	.0	.0	.0	.0	4	.2	1.7	.0	.0	.0	.0	.0								
1-2	.0	1.5	.7	.0	.0	.0	9	.0	1.0	.2	.0	.0	.0	.0								
3-4	.0	2.0	3.2	1.0	.0	.0	25	.0	.2	.7	.2	.0	.0	.0								
5-6	.0	.5	.5	.5	.0	.0	6	.0	.2	.5	.5	.0	.0	.0								
7	.0	.0	1.0	1.0	.0	.0	8	.0	.0	1.0	.5	.0	.0	.0								
8-9	.0	.0	.2	1.5	.2	.0	8	.0	.0	.0	.7	.2	.0	.0								
10-11	.0	.2	.0	.2	.0	.0	2	.0	.0	.0	1.7	.0	.0	.0								
12	.0	.0	.0	.0	.2	.0	1	.0	.0	.2	.2	.2	.0	.0								
13-16	.0	.0	.0	.7	.5	.0	5	.0	.0	.0	.0	.7	.0	.0								
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	.0								
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	.0								
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0								
TOTAL	.0	5.2	5.7	5.0	1.0	.0	68	.2	13	11	16	.0	.0	51								
PCT	.0	5.2	5.7	5.0	1.0	.0	16.5	.2	3.2	2.7	4.0	.0	.0	12.7								

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

JANUARY

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	5.0	8.3	.0	.0	.0	.0	56
1-2	.0	7.1	4.3	.0	.0	.0	48
3-4	.2	6.4	14.7	3.5	.0	.0	105
5-6	.0	2.1	9.0	3.5	.9	.0	66
7	.0	.2	6.1	4.0	.5	.0	46
8-9	.0	.5	2.6	5.4	.5	.0	38
10-11	.0	.2	.7	5.0	.7	.0	28
12	.0	.0	.5	1.9	.7	.0	13
13-14	.0	.0	.2	1.9	1.9	.2	14
17-19	.0	.0	.2	.2	.5	.0	4
20-22	.0	.0	.5	.2	.2	.0	4
23-25	.0	.0	.0	.0	.2	.0	1
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	22	105	164	105	26	1	423
PCT	5.2	24.8	38.8	24.8	6.1	.2	100.0

TABLE 19

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	2.3	7.1	14.4	6.1	3.5	5.0	.8	.2	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	211	4
6-7	.0	.4	3.5	3.6	5.0	2.5	3.5	.8	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	7
8-9	.0	.0	1.3	3.1	2.7	2.9	2.7	.8	2.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	85	8
10-11	.0	.0	.0	3.1	.8	2.5	.6	.8	.8	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	45	8
12-13	.0	.0	.0	.0	.2	.2	.8	.6	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	11
>13	.0	.0	.0	.2	.0	.0	.2	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	14
INDET	10.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	0
TOTAL	68	39	100	85	63	68	44	17	24	7	4	1	1	1	0	0	0	0	0	0	521	0
PCT	13.1	7.5	19.2	16.3	12.1	13.1	8.4	3.3	4.6	1.3	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	100.0	5

FEBRUARY

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1904-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FRZG PCPN	DRZL	SMOKE	DUST	
N	.1	.0	.3	.0	.0	.0	.0	.4	3	.0	.0	.0	.1	6.3	54
NNE	.1	.0	.1	.0	.4	.1	.0	.6	5	.0	.4	.0	.0	3.8	38
NE	.3	.0	.6	.0	.5	.1	.0	1.5	12	.0	.5	.1	.0	3.6	46
ENE	.8	.0	.6	.0	.9	.0	.0	2.1	17	.0	.3	.0	.0	3.1	44
E	.4	.0	1.4	.0	.9	.0	.0	2.6	21	.0	.5	.1	.0	3.9	57
ESE	.6	.0	.4	.0	.3	.0	.0	1.1	9	.0	.1	.0	.0	2.3	28
SE	.5	.0	.4	.0	.1	.0	.0	1.0	8	.0	.4	.1	.0	4.4	47
SSE	1.1	.0	1.1	.0	.4	.0	.0	2.4	19	.0	.6	.0	.0	3.1	49
S	1.3	.0	.6	.0	.3	.0	.0	2.1	17	.0	1.4	.0	.0	4.3	62
SSW	.5	.0	.4	.0	.0	.1	.0	1.0	8	.0	.4	.0	.0	3.0	35
SW	.6	.0	.1	.0	.5	.0	.0	1.3	10	.0	1.5	.0	.0	7.5	82
WSW	.1	.0	.0	.0	.1	.0	.0	.3	2	.0	.5	.0	.0	5.0	46
W	.4	.1	.5	.0	.9	.0	.0	1.6	13	.0	.3	.0	.0	9.2	88
WNW	.0	.1	.0	.0	.6	.0	.0	.9	7	.0	.1	.1	.0	4.0	41
NW	.3	.0	.1	.0	.9	.0	.0	1.4	11	.0	.0	.0	.0	3.6	40
NNW	.3	.0	.3	.0	.5	.0	.1	1.0	8	.0	.1	.0	.0	3.4	36
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.1	.0	.0	.0	.0	.1	1	.0	.0	.0	.0	.4	4
TOT OBS	58	2	56	0	57	3	4	.1	171	0	56	4	1	565	797
TOT PCT	7.3	.3	7.0	.0	7.2	.4	.5	21.5	171	.0	7.0	.5	.1	70.9	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FRZG PCPN	DRZL	SMOKE	DUST	
0000	7.0	.5	6.5	.0	7.5	.5	.9	21.5	46	.0	7.0	.5	.5	70.6	214
0600	6.2	.0	7.7	.0	8.2	.5	.5	23.1	45	.0	7.2	.5	.0	69.2	195
1200	6.2	.5	6.2	.0	8.7	.0	.0	20.0	39	.0	6.7	.0	.0	73.3	195
1800	9.6	.0	7.6	.0	4.0	.5	.5	20.7	41	.0	7.6	1.0	.0	70.7	198
TOT	58	2	56	0	57	3	4	.1	171	0	57	4	1	569	802
PCT	7.2	.2	7.0	.0	7.1	.4	.5	21.3	171	.0	7.1	.5	.1	70.9	100.0

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PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1904-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND SPEED (KNOTS)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.1	1.6	1.9	1.6	.8	.1	61	6.2	20.7	8.4	5.6	4.7	3.8	5.5	6.5	6.9	2.0								
NNE	.2	.4	1.9	1.4	.4	.0	43	4.4	21.0	4.2	5.6	4.3	.0	6.5	3.2	3.7	2.8								
NE	.1	1.0	2.5	1.3	.2	.0	50	5.1	17.5	5.0	5.6	6.2	3.8	4.0	3.2	5.0	8.3								
ENE	.0	1.2	2.6	1.0	.7	.2	56	5.7	20.3	3.4	22.2	5.2	7.7	5.5	12.9	5.5	11.1								
E	.4	1.7	1.9	1.4	.9	.3	66	6.8	20.0	5.5	.0	8.1	15.4	8.0	6.5	5.5	5.6								
ESE	.1	.6	2.1	1.0	.5	.0	43	4.4	19.3	3.8	5.6	5.2	3.8	5.5	9.7	2.3	5.6								
SE	.1	.9	4.3	1.1	.4	.0	67	6.9	18.2	5.0	.0	6.2	7.7	6.5	3.2	9.2	16.7								
SSE	.0	1.5	2.8	1.0	.4	.0	56	5.7	17.3	4.6	22.2	6.6	7.7	5.5	.0	6.0	2.8								
S	.3	1.1	3.7	1.7	.9	.1	77	7.9	19.8	6.4	.0	5.7	11.5	6.0	16.1	9.6	11.1								
SSH	.0	1.5	1.5	1.4	.5	.0	49	5.0	18.8	6.7	.0	5.2	.0	3.5	3.2	6.0	2.8								
SW	.1	2.9	3.8	1.6	.8	.1	91	9.3	17.5	11.3	5.6	7.6	3.8	12.1	3.2	9.6	.0								
WSW	.2	1.7	1.4	1.3	.6	.1	58	5.9	18.6	6.7	5.6	6.6	3.8	5.5	3.2	6.4	.0								
W	.1	2.5	4.2	2.9	1.0	.0	104	10.6	19.2	8.4	.0	13.7	7.7	13.6	9.7	8.7	11.1								
WNW	.0	.9	1.8	1.6	.6	.0	49	5.0	21.1	5.0	16.7	6.2	3.8	3.0	6.5	5.0	2.8								
NW	.0	.2	3.1	1.4	.6	.0	52	5.3	21.6	5.9	.0	4.7	7.7	2.5	6.5	6.4	13.9								
NNW	.1	2.5	1.0	1.1	.3	.2	51	5.2	17.5	6.7	5.6	3.8	11.5	6.0	6.5	3.7	2.8								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	.4	.4	.4	.4	.4	.4	4	.4	.0	.8	.0	.0	.0	.5	.0	.5	.0								
TOT OBS	22	219	397	232	96	11	977	100.0	19.1	238	18	211	26	199	31	218	36								
TOT PCT	2.3	22.4	40.6	23.7	9.8	1.1	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)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND SPEED (KNOTS)											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	.7	3.5	3.4	2.7	.4	104	10.6	20.8	12.6	11.1	9.0	3.8	12.1	9.7	10.6	5.6									
NE	.7	4.5	3.7	1.4	.5	106	10.8	19.0	8.4	27.8	11.4	11.5	9.5	16.1	10.6	19.4									
E	1.6	3.2	3.9	1.9	.5	109	11.2	19.7	9.2	5.6	13.3	19.2	13.6	16.1	7.8	11.1									
SE	.8	5.8	3.9	1.8	.2	123	12.6	17.8	9.7	22.2	12.8	15.4	12.1	3.2	15.1	19.4									
S	1.1	5.0	3.8	2.5	.5	126	12.9	19.4	15.1	.0	10.9	11.5	9.5	19.4	15.6	13.9									
SW	2.6	5.7	4.3	2.0	.6	149	15.3	17.9	18.1	11.1	14.2	7.7	17.6	6.5	16.1	.0									
W	.8	6.0	4.9	3.8	.1	153	15.7	19.8	13.4	16.7	19.9	11.5	16.6	16.1	13.8	13.9									
NW	.8	4.0	3.2	2.3	.3	103	10.5	19.6	12.6	5.6	8.5	19.2	8.5	12.9	10.1	16.7									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	.4	.4	.4	.4	.4	4	.4	.0	.8	.0	.0	.0	.0	.5	.0	.5									
TOT OBS	94	369	303	180	31	977	100.0	19.1	238	18	211	26	199	31	218	36									
TOT PCT	9.6	37.8	31.0	18.4	3.2	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) 1953-1970  
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AREA 0007 UNIMAK  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)				PCT TOTAL OBS
	48+	40+	34-47	22-33	
00603	1.6	21.1	40.6	22.3	11.7
06609	2.1	21.9	41.4	25.3	8.9
12615	1.3	26.1	38.7	22.6	10.0
18621	2.4	20.9	41.7	24.8	8.7
TOT	18	219	397	232	96
PCT	1.8	22.4	40.6	23.7	9.8
					1.1
					100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	8 &	8 &		
N	1.4	1.0	1.7	2.5	47	5.4				
NNE	.1	.4	1.4	2.8	34	7.1				
NE	.4	.7	1.0	3.1	37	6.5				
ENE	.6	.1	1.1	2.7	32	6.6				
E	.8	.7	1.1	5.1	48	6.6				
ESE	.7	.3	1.1	1.7	27	5.9				
SE	.4	.1	3.0	2.8	45	6.8				
SSE	.1	.3	1.1	3.2	35	7.0				
S	.4	1.0	1.6	3.5	46	6.5				
SSW	.7	.1	2.3	2.4	39	6.2				
SW	1.4	1.6	3.0	3.5	67	5.6				
WSW	.8	1.4	2.5	1.7	46	5.5				
W	2.3	2.7	5.4	1.7	85	5.0				
WNW	.6	.4	3.6	1.0	41	5.9				
NW	.4	.3	2.0	2.3	35	6.3				
NNW	.8	1.0	2.0	1.8	40	5.5				
VAR	.0	.0	.0	.0	0	.0				
CALM	.1	.0	.3	.1	4	4.8				
TOT OBS	87	86	237	298	708	6.0				
TOT PCT	12.3	12.1	33.5	42.1	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												TOTAL OBS		
	000	149	150	299	300	599	600	999	1000	1999	3499	3500			
N	.3	.1	.1	.4	.4	.6	1.3	.6	.7	.6	.0	.0	.1	2.5	47
NNE	.6	.3	.3	.6	.6	.7	.4	1.1	.4	.1	.0	.0	.0	1.3	34
NE	.4	.0	.0	.7	.4	.7	.4	1.6	.7	.4	.0	.0	.0	1.4	37
ENE	.4	.1	.1	.3	.3	.6	.7	1.6	.6	.0	.0	.0	.0	.8	32
E	1.0	.6	.6	1.0	1.0	.0	1.0	1.1	.0	.1	.0	.0	.0	2.0	48
ESE	.1	.0	.0	.4	.3	.6	.3	.6	.8	.4	.0	.0	.0	1.1	27
SE	.7	.0	.0	.8	.7	.8	1.0	2.1	.8	.1	.3	.0	.0	.8	45
SSE	.8	.0	.0	.4	.4	.4	.7	.8	.4	.4	.0	.0	.0	.8	35
S	.7	.1	.1	.7	.7	.7	.7	1.7	.4	.0	.1	.0	.3	1.7	46
SSW	.3	.0	.0	.3	.3	.3	.3	2.3	.4	.3	.0	.4	.1	1.1	39
SW	.7	.1	.1	.4	.4	.6	.8	2.4	.6	.3	.0	.0	.0	4.0	67
WSW	.1	.0	.0	.0	.0	.3	.3	2.7	.6	.3	.0	.1	.0	2.4	46
W	.1	.3	.3	.1	.1	.7	.8	3.2	.7	.8	.1	.0	.0	5.6	85
WNW	.3	.0	.0	.1	.1	1.8	.1	1.8	1.6	.3	.0	.0	.0	1.6	41
NW	.1	.0	.0	.1	.1	1.3	.8	1.3	1.1	.0	.0	.0	.3	1.1	35
NNW	.4	.3	.3	.0	.0	.6	.6	.3	1.3	.6	.0	.0	.0	2.3	40
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.3	.1	.1	.3	.0	.0	.3	.0	.0	.0	.0	.1	4
TOT OBS	52	14	14	43	73	178	81	33	81	33	6	4	6	218	708
TOT PCT	7.3	2.0	2.0	6.1	10.3	25.1	11.4	4.7	11.4	4.7	.8	.6	.8	30.8	100.0

PERIOD: (PRIMARY) 1953-1970  
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TABLE 7

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

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	.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4
OR >5000	.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.3
OR >3500	4.2	6.4	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.9	6.9	6.9	6.9
OR >2000	9.7	16.7	17.9	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.5	18.5	18.5	18.5
OR >1000	23.4	38.6	41.8	42.9	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.5	43.5	43.5	43.5
OR >600	27.5	46.0	50.8	52.7	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.8	53.8	53.8	53.8
OR >300	28.5	50.1	56.6	58.6	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.9	59.9	59.9	59.9
OR >150	28.8	51.8	58.5	60.6	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.9	61.9	61.9	61.9
OR > 0	29.1	53.0	61.4	64.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	67.4	67.4	67.4	67.4
TOTAL	206	375	435	459	473	473	473	473	473	473	473	473	490	490	490	490

TOTAL NUMBER OF OBS: 708 PCT FREQ NH <5/8: 30.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	4.5	3.4	6.9	8.5	7.5	6.1	15.6	12.3	29.3	6.0
										738

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PERIOD: (PRIMARY) 1953-1970  
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TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	.0 .0 0	.1 .0 0	.0 .0 1	.0 .0 0	.0 .0 0	.3 .4 5	.0 .0 0	.0 .1 1	.0 .3 2	.4 .3 5	.0 .0 0	.3 .3 4	.1 .4 4	.1 .0 1	.0 .0 0	.0 .0 0	.3 .0 2	.0 .0 0	.0 .0 0	12 13 25	1.5 1.6 3.1	
1/2<1	.1 .0 1	.1 .0 1	.0 .0 0	.0 .1 1	.0 .1 3	.3 .1 3	.0 .1 0	.3 .1 3	.1 .1 2	.1 .1 2	.1 .1 2	.0 .5 4	.0 .1 1	.1 .0 1	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.1 .0 1	12 11 23	1.5 1.4 2.9	
1<2	.0 .1 1	.0 .3 2	.4 .0 3	.1 .1 2	.1 .0 2	.5 .0 4	.3 .0 2	.0 .3 2	.3 .0 2	.4 .4 6	.0 .1 1	.3 .4 5	.0 .0 0	.1 .1 2	.0 .1 1	.4 .4 6	.1 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	22 19 41	2.8 2.4 5.2
2<5	.1 .1 2	.1 .5 5	.4 .9 10	1.0 .1 9	1.1 .5 13	1.1 .5 13	.5 .1 5	.3 .0 2	.6 .4 8	.6 .9 12	.4 .4 6	.3 .9 9	.1 .1 2	.6 .1 6	.3 .3 4	.1 .1 2	.1 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	53 44 97	6.7 5.5 12.2
5<10	.0 1.1 9	.3 1.0 10	.4 1.6 16	.9 .8 13	1.6 1.3 16	1.6 1.6 16	.4 1.6 16	.4 2.5 23	1.4 1.4 22	.5 1.4 15	.3 1.8 16	.5 2.1 21	.0 1.1 9	.5 2.0 20	.4 1.8 17	.6 1.4 16	.4 1.1 12	.0 .0 0	.0 .0 0	.0 .0 0	57 194 251	7.2 24.4 31.5
10+	.1 5.0 41	.0 2.4 19	.4 1.6 16	.1 2.3 19	1.1 1.9 16	1.1 1.9 16	.1 .6 6	.1 1.9 16	.0 1.6 13	.1 2.6 22	.3 1.0 10	.0 4.8 38	.0 3.8 30	.1 7.2 58	.1 2.1 18	.1 1.8 15	.3 2.1 19	.0 .0 0	.0 .4 3	.0 16 16	16 343 359	2.0 43.1 45.1
TOTAL PCT	54 6.8	38 4.8	45 5.7	44 5.5	57 7.2	57 7.2	29 3.6	47 5.9	49 6.2	62 7.8	35 4.4	81 10.2	46 5.8	88 11.1	41 5.2	39 4.9	37 4.6	0 .0	4 .5	796 100.0	100.0	

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PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1904-1970

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.4	.1	.0	.0	.0	.0	.1	.0	.0	1.2
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.6
	TOTAL	.0	.1	.0	.0	.0	.5	.0	.1	.2	.5	.0	.4	.4	.1	.0	.0	.2	.0	.0	2.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.9
	11-21	.0	.1	.0	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.6
	22+	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.7
	TOTAL	.1	.1	.0	.1	.3	.3	.2	.2	.2	.2	.4	.1	.1	.1	.1	.0	.0	.1	.1	2.4
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.1	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.7
	11-21	.1	.1	.1	.1	.1	.1	.1	.4	.1	.1	.4	.0	.0	.0	.3	.0	.0	.0	.0	2.1
	22+	.0	.0	.2	.0	.3	.1	.1	.2	.0	.0	.0	.0	.2	.1	.4	.1	.1	.0	.0	1.7
	TOTAL	.1	.2	.3	.2	.4	.4	.2	.7	.1	.1	.6	.0	.2	.2	.7	.2	.2	.0	.0	4.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.2	.2	.4	.2	.0	.3	.1	.1	.3	.1	.2	.0	.1	.0	.0	.0	.0	2.3
	11-21	.1	.4	.5	.4	1.0	.4	.1	.2	.1	.4	.0	.3	.3	.0	.0	.1	.0	.0	.0	3.9
	22+	.0	.1	.3	.4	1.0	.4	.6	.8	.2	.6	.2	.2	.1	.3	.1	.1	.0	.0	.0	4.8
	TOTAL	.2	.5	1.0	1.0	2.4	1.6	.7	1.3	.8	1.3	.9	.3	.6	.6	.2	.2	.0	.0	.0	11.0
5<10	0-3	.0	.1	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	4-10	.2	.0	.3	.2	.2	.2	.6	.2	.6	.3	.6	.3	.8	.2	.2	.1	.4	.0	.0	4.7
	11-21	.2	.4	.9	.8	.6	.6	1.7	1.1	1.2	.7	.8	.3	.6	.9	.8	.3	.3	.0	.0	12.1
	22+	.7	.8	.6	1.3	.9	.8	.8	.9	.8	.5	1.0	.6	1.1	.6	1.0	.6	.6	.0	.0	13.0
	TOTAL	1.1	1.3	1.9	2.3	1.7	1.8	2.2	2.3	2.3	1.8	2.4	1.2	2.5	1.7	1.9	1.3	.6	.0	.0	30.2
10+	0-3	.1	.0	.0	.0	.3	.1	.0	.2	.0	.0	.1	.1	.1	.0	.0	.1	.0	.3	.3	1.4
	4-10	1.3	.4	.4	.7	.7	.2	.5	.8	.4	.7	1.5	1.1	1.4	.7	.0	.0	.0	.0	.0	12.7
	11-21	1.5	.9	.9	1.2	.7	.7	2.0	.9	1.4	.6	1.5	1.0	3.3	.6	1.7	.5	.0	.0	.0	19.6
	22+	1.7	.8	.4	.1	.4	.4	.4	.3	.7	.8	1.2	1.6	2.3	1.1	.5	.7	.0	.0	.0	13.1
	TOTAL	4.6	2.1	1.7	2.0	2.1	2.1	16	2.8	2.0	2.7	4.3	3.8	6.9	2.4	2.2	.3	.0	.0	.0	46.8
TOTAL	61	43	49	56	66	66	43	67	56	77	49	90	58	104	49	50	51	0	4	973	
PCT	6.3	4.4	5.0	5.8	6.8	6.8	4.4	6.9	5.8	7.9	5.0	9.2	6.0	10.7	5.0	5.1	5.2	.0	.4	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1904-1970

AREA 0007 UNIMAK  
53N-COAST 157-165M

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	600	1000	2000	3500	5000	6500	8000+		TOTAL	
00003	6.1	2.5	5.1	13.1	28.8	11.6	5.1	1.5	.0	.0	73.7	26.3	198
06009	9.0	1.8	5.4	8.4	22.3	9.6	3.6	.6	1.2	.6	62.7	37.3	166
12015	8.3	1.7	5.6	9.4	15.6	8.3	5.0	1.1	.6	.6	56.1	43.9	180
18021	6.3	1.7	8.0	9.1	32.0	16.0	4.6	.0	.6	2.3	80.6	19.4	175
TOT	53	14	43	73	178	82	33	6	4	6	492	227	719
PCT	7.4	1.9	6.0	10.2	24.8	11.4	4.6	.8	.6	.8	68.4	31.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	10+	TOTAL			
00003	3.1	.5	3.6	6.2	29.9	56.7	194	194	194	194	
06009	3.7	3.1	4.3	9.9	33.3	45.7	162	162	162	162	
12015	1.1	3.9	3.9	11.8	27.5	51.7	178	178	178	178	
18021	2.9	1.7	2.9	9.2	32.2	51.1	174	174	174	174	
TOT	19	16	26	65	217	365	708	708	708	708	
PCT	2.7	2.3	3.7	9.2	30.6	51.6	100.0	100.0	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)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR				TOTAL OBS
	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	
00003	5.7	13.9	32.0	42.8	194
06009	9.3	18.5	32.7	34.0	162
12015	8.4	18.5	33.1	25.8	172
18021	6.3	17.8	31.0	51.1	174
TOT	52	121	228	273	708
PCT	7.3	17.1	32.2	38.6	29.2

FEBRUARY

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1904-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

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				
45/49	.0	.0	.0	.1	.0	.6	.0	.0	.0	.0	5	.7
40/44	.0	.0	.0	.0	1.8	2.8	6.4	9.9			140	20.9
35/39	.0	.0	.0	.6	1.9	6.3	16.9	30.5			376	56.2
30/34	.0	.0	.0	.0	1.9	3.7	4.5	7.0			115	17.2
25/29	.0	.0	.0	.0	.0	1.0	.9	1.3			22	3.3
20/24	.0	.0	.0	.0	.0	.0	.7	.6			9	1.3
15/19	.0	.0	.0	.0	.0	.0	.0	.3			2	.3
TOTAL	0	0	0	5	38	97	197	332			669	100.0
PCT	.0	.0	.0	.7	5.7	14.5	29.4	49.6				

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
	N	NE	E	SE	S	SW	W	NW					
	.0	.1	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
	.3	.1	2.7	4.6	6.6	4.5	1.3	.7				.0	.0
	3.4	6.1	9.1	8.5	5.5	10.2	9.6	3.6				.0	.1
	3.3	3.7	1.2	.7	.3	1.0	3.6	3.0				.0	.3
	.6	.9	.0	.0	.0	.0	.7	1.0				.0	.0
	.6	.1	.0	.0	.0	.0	.1	.4				.0	.0
	.3	.0	.0	.0	.0	.0	.0	.0				.0	.0
	57	75	88	93	86	105	103	59				0	3
	8.5	11.2	13.2	13.9	12.9	15.7	15.4	8.8				0	.4

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	47	44	42	38	27	22	18	36.7			252
06009	49	45	41	37	28	20	20	35.9			235
12015	42	41	41	37	28	21	21	35.9			227
18021	48	42	41	37	27	20	17	35.8			253
TOT	49	43	41	37	27	21	17	36.1			967

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
00003	.0	1.1	3.4	16.0	32.6	46.9	87			175	
06009	.0	1.2	11.9	16.1	25.6	45.2	85			168	
12015	.0	.7	3.9	14.5	30.3	50.7	87			152	
18021	.0	.0	3.4	11.4	29.5	55.7	88			176	
TOT	0	5	38	97	198	333	87			671	

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1904-1970

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AREA 0007 UNIMAK  
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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-SFA TMP DIF	17	21	25	29	33	37	41	45	TOT	M	MO
	20	24	28	32	36	40	44	48	FOG	FOG	FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
6	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
5	.0	.0	.0	.0	.0	.0	.4	.1	4	.1	.4
4	.0	.0	.0	.0	.1	.4	1.8	.0	17	.5	1.8
3	.0	.0	.0	.0	.1	1.1	1.5	.0	20	.3	2.4
2	.0	.0	.0	.0	.0	3.9	1.0	.0	36	1.4	3.5
1	.0	.0	.0	.0	.4	6.0	1.0	.0	54	.8	6.5
0	.0	.0	.0	.3	1.6	10.3	.7	.0	95	.8	12.1
-1	.0	.0	.0	.0	1.6	7.5	1.0	.0	74	.5	9.5
-2	.0	.0	.0	.0	4.5	6.7	.5	.0	86	1.0	10.7
-3	.0	.0	.0	.3	2.2	4.2	.3	.0	51	.7	6.3
-4	.0	.0	.1	.7	6.5	2.3	.7	.0	76	.5	9.8
-5	.0	.0	.1	3.0	3.7	2.3	.1	.0	68	.1	9.1
-6	.0	.0	.0	.4	3.1	.3	.0	.0	28	.3	3.5
-7/-8	.0	.0	.7	2.4	1.9	.8	.0	.0	43	.1	5.7
-9/-10	.0	.0	.7	2.4	1.4	.3	.0	.0	35	.1	4.6
-11/-13	.0	.4	1.4	.8	.0	.0	.0	.0	19	.1	2.4
-14/-16	.1	1.2	.7	.4	.0	.0	.0	.0	18	.0	2.4
-17/-19	.4	.4	.3	.0	.0	.0	.0	.0	8	.0	1.1
TOTAL	4	15	29	79	200	341	65	3	736	55	681
PCT	.5	2.0	3.9	10.7	27.2	46.3	8.8	.4	100.0	7.5	92.5

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 FEBRUARY  
 TABLE 18  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	N					NE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
1-2	.0	.0	.6	.0	.0	.0	1.2	.3	.0	.0	.0	5
3-4	.0	1.5	1.2	.6	.0	.0	1.2	1.5	1.2	.0	.0	13
5-6	.0	.3	2.2	.6	.0	.0	.3	1.2	.6	.6	.0	9
7	.0	.0	2.5	.9	.3	.0	.3	.6	.0	.0	.0	5
8-9	.0	.6	.6	.3	.0	.0	.0	2.2	.6	.0	.0	9
10-11	.0	.3	.3	.3	.6	.0	.0	.0	.0	.3	.0	1
12	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1
20-22	.0	.0	.0	.0	.3	.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
TOTAL	0	10	24	13	5	0	10	19	10	3	1	43
PCT	.0	3.1	7.4	4.0	1.5	.0	3.1	5.9	3.1	.9	.3	13.3

HGT	E					SE					TOTAL	
	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
1-2	.0	.3	.6	.0	.0	.0	.9	1.9	.0	.0	.0	9
3-4	.0	.0	1.5	.3	.0	.0	.0	1.2	.6	.0	.0	6
5-6	.0	.0	.3	.0	.3	.0	.6	1.2	.3	.0	.0	7
7	.0	.3	.0	.9	.3	.0	.0	.0	.6	.3	.0	3
8-9	.0	.0	.0	.3	.6	.0	.3	.6	.3	.0	.0	4
10-11	.0	.0	.0	.3	.3	.0	.0	.0	.9	.0	.0	3
12	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	.0	.3	.3	.6	.0	4
17-19	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	2	8	6	6	0	6	18	11	4	0	39
PCT	.0	.6	2.5	1.9	1.9	.0	1.9	5.6	3.4	1.2	.0	12.0

FEBRUARY  
 TABLE 18  
 PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	S										TOTAL	48+	SW					TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21			22-33	34-47	48+			
<1	.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.6	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	1	10	14	10	4	0	0	0	0	0	0	0	0	0	0	0	0	
PCT	.3	3.1	4.3	3.1	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

HGT	W										TOTAL	48+	NW					TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21			22-33	34-47	48+			
<1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.9	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.3	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.6	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.3	.0	1.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.9	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.3	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	0	11	17	19	11	0	0	0	0	0	0	0	0	0	0	0	0	
PCT	.0	3.4	5.2	5.9	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

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

FEBRUARY

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	.3	1.8	.0	.0	.0	.0	.0	.0	7
1-2	.3	7.7	6.8	.0	.0	.0	.0	.0	48
3-4	.0	4.9	9.5	4.6	.0	.0	.0	.0	62
5-6	.0	2.8	7.7	3.7	1.5	.0	.0	.0	51
7	.0	1.5	5.5	7.1	1.8	.0	.0	.0	52
8-9	.0	.9	6.5	3.4	1.8	.0	.0	.0	41
10-11	.0	.3	.9	3.4	2.5	.0	.0	.0	23
12	.0	.0	.9	2.8	.9	.0	.0	.0	15
13-16	.0	.3	.6	2.2	2.5	.6	.0	.0	20
17-19	.0	.0	.6	.0	.9	.0	.0	.0	5
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	.3	.0	.0	1
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
TOTAL	2	66	127	88	39	3	3	325	
PCT	.6	20.3	39.1	27.1	12.0	.9	.9	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	3-4	5-6	7	8-9	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	6.0	9.3	4.9	4.4	4.1	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	4
6-7	.0	.8	1.9	4.7	5.2	2.7	2.5	1.4	3.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	7
8-9	.0	.0	1.4	3.8	3.3	1.4	3.8	2.2	3.0	1.1	.3	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	77	9
10-11	.0	.0	.3	1.1	1.1	2.5	1.9	.8	1.4	.8	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	38	10
12-13	.0	.0	.0	.8	.3	.3	.5	.8	1.1	.0	.0	.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	19	14
>13	.0	.0	.0	.0	.3	.0	.5	1.1	.3	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	11	14
INDET	5.5	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	0
TOTAL	23	25	47	56	53	41	38	24	34	10	2	4	7	1	0	0	0	0	0	0	0	365	7
PCT	6.3	6.8	12.9	15.3	14.5	11.2	10.4	6.6	9.3	2.7	.5	1.1	1.9	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

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	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	RAIN	SHWR			FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	SIG	
N	.1	.0	.0	.1	.0	.0	.0	.0	1.2	12	.0	.3	.1	.0	6.6	85
NNE	.0	.0	.0	.1	.0	.2	.0	.0	.3	3	.0	.2	.0	.0	2.1	27
NE	.4	.0	.0	.0	.0	.4	.0	.0	.8	8	.0	.3	.1	.0	2.8	41
ENE	.2	.0	.0	.6	.0	.4	.0	.0	1.1	11	.0	.1	.0	.0	2.2	35
E	1.1	.1	.1	.3	.0	.7	.0	.0	2.0	21	.0	.4	.0	.1	3.4	61
ESE	.5	.0	.0	.3	.0	.4	.0	.0	1.2	12	.0	.5	.0	.0	1.6	34
SE	.5	.0	.0	.3	.0	.1	.0	.0	.9	9	.0	.5	.0	.0	2.4	39
SSE	.5	.1	.1	.4	.0	.3	.0	.0	1.2	12	.0	1.0	.0	.0	2.1	44
S	.7	.0	.0	1.3	.0	.3	.0	.0	2.2	23	.0	1.3	.0	.0	3.8	75
SSW	.3	.1	.1	.5	.0	.3	.0	.0	1.2	12	.0	.3	.0	.0	3.5	51
SW	.7	.1	.1	.6	.0	.1	.0	.0	1.4	14	.0	.5	.3	.0	3.9	62
WSW	.4	.0	.0	.1	.0	.2	.0	.0	.6	6	.0	.6	.0	.1	5.1	66
W	.0	.2	.2	.2	.0	.2	.0	.0	.6	6	.0	.7	.0	.1	7.7	93
WNW	.1	.1	.1	.1	.0	1.1	.0	.0	1.4	14	.0	.1	.0	.1	7.0	88
NW	.0	.0	.0	.0	.1	.4	.1	.0	.6	6	.0	.1	.0	.1	8.2	93
NNW	.0	.1	.1	.0	.9	.1	.1	.0	1.1	11	.0	.0	.0	.1	7.4	88
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.8	.1	.0	3.9	50
TOT OBS	56	8	8	49	1	70	2	2	17.5	181	0	77	6	7	761	1032
TOT PCT	5.4	.8	.8	4.7	.1	6.8	.2	.2			.0	7.5	.6	.7	73.7	100.0

TABLE 2  
PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	RAIN	SHWR			FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	SIG	
0000	4.8	.0	.0	4.1	.0	7.6	.3	.3	16.6	48	.0	8.3	.7	.3	74.1	290
0600	6.9	1.2	.8	2.7	.0	5.0	.4	.0	15.1	39	.0	8.1	1.2	.4	75.3	259
1200	4.5	.8	.8	6.6	.4	7.0	.0	.4	19.7	48	.0	8.5	.4	.8	70.5	247
1800	4.9	1.1	.8	5.6	.0	6.8	.0	.0	17.7	47	.0	8.3	.0	1.1	72.9	266
TOT	56	8	8	50	1	70	2	2	17.5	182	0	88	6	7	776	1059
PCT	5.3	.8	.8	4.7	.1	6.6	.2	.2			.0	8.3	.6	.7	73.3	100.0

MARCH

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

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	00	03	06	09	12	15	18	21
N	.0	1.9	3.6	1.9	.6	.1	101	8.2	19.4	9.7	.0	8.4	5.3	7.8	6.5	7.6	9.6
NNE	.0	1.1	1.1	.6	.1	.0	36	2.9	15.5	3.0	.0	2.2	10.5	2.9	9.7	2.2	1.9
NE	.0	1.2	1.5	.9	.3	.0	49	4.0	18.1	3.3	.0	4.0	2.6	5.3	.0	4.7	1.9
ENE	.1	1.5	1.4	.4	.1	.0	42	3.4	14.6	3.3	4.0	2.9	5.3	3.3	3.2	3.3	5.8
E	.0	1.3	2.5	1.1	.2	.0	64	5.2	17.6	6.7	.0	5.1	2.6	4.1	6.5	5.4	3.8
ESE	.0	1.0	1.7	.2	.3	.1	40	3.2	16.5	3.3	4.0	2.9	2.9	2.9	.0	3.6	1.9
SE	.0	.6	1.9	.7	.2	.0	42	3.4	17.2	3.0	.0	2.9	2.6	4.1	9.7	3.6	1.9
SSE	.0	1.5	1.9	.5	.1	.0	50	4.0	14.2	3.0	.0	2.9	10.5	3.3	9.7	5.1	7.7
S	.2	1.6	2.9	1.4	1.0	.0	88	7.1	19.1	5.7	4.0	6.5	7.9	7.0	16.1	8.7	5.8
SSW	.2	1.4	1.9	1.0	.2	.0	58	4.7	16.2	5.7	.0	4.4	2.6	5.8	.0	3.3	9.6
SW	.2	1.8	3.5	1.0	.2	.0	82	6.6	16.0	5.7	8.0	7.3	13.2	5.8	12.9	6.2	5.8
WSW	.1	1.5	3.6	1.0	.3	.2	84	6.8	18.3	8.0	4.0	4.0	7.9	5.8	12.9	8.0	9.6
W	.2	3.6	3.7	1.9	.6	.0	123	9.9	15.9	9.0	20.0	12.0	5.3	10.3	.0	9.4	9.6
WNW	.2	1.1	4.4	2.1	.6	.0	104	8.4	18.8	8.0	24.0	8.7	7.9	9.9	3.2	6.5	7.7
NW	.1	1.2	4.0	3.0	1.1	.0	117	9.4	21.1	10.4	4.0	9.8	2.6	11.5	3.2	8.3	9.6
NNW	.1	1.0	3.6	3.0	.8	.2	107	8.6	22.2	8.0	28.0	11.3	5.3	5.3	6.5	8.7	7.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2	287	538	255	86	7	52	4.2	17.3	4.0	.0	4.7	.0	4.9	.0	5.4	.0
TOT OBS	66	23.2	43.4	20.6	6.9	6	1239	100.0		299	25	275	38	243	31	276	52
TOT PCT	5.3	23.2	43.4	20.6	6.9	6	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 SPD	00	03	06	09	12	15	18	21
N	.6	4.8	3.6	1.9	.1	137	11.1	18.4	12.7	.0	10.5	15.8	10.7	16.1	9.8	11.5
NE	.6	3.6	2.3	.9	.0	91	7.3	16.5	6.7	4.0	6.9	7.9	8.6	3.2	8.0	7.7
E	.7	3.8	2.7	1.0	.2	104	8.4	17.2	10.0	4.0	8.0	10.5	7.0	6.5	9.1	5.8
SE	.3	4.8	1.9	.4	.1	92	7.4	15.5	6.0	.0	5.8	13.2	7.4	19.4	8.7	9.6
S	1.2	5.1	3.2	2.2	.1	146	11.8	17.9	11.4	4.0	10.9	10.5	12.8	16.1	12.0	15.4
SW	1.2	5.5	5.3	.9	.5	166	13.4	17.2	13.7	12.0	11.3	21.1	11.5	25.8	14.1	15.4
W	2.0	8.2	5.5	2.4	.2	227	18.3	17.2	17.1	44.0	20.7	13.2	20.2	3.2	15.9	17.3
NW	1.0	5.2	6.9	4.4	.6	224	18.1	21.6	18.4	32.0	21.1	17.9	16.9	9.7	17.0	17.3
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.2	507	388	174	22	52	4.2	17.3	4.0	.0	4.7	.0	4.9	.0	5.4	.0
TOT OBS	148	40.9	31.3	14.0	1.8	1239	100.0		299	25	275	38	243	31	276	52
TOT PCT	11.9	40.9	31.3	14.0	1.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

MARCH

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				CALM	MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33				
0003	.3	21.6	45.4	21.9	3.7	18.0	100.0	324
0609	1.6	26.5	40.3	20.8	4.2	16.7	100.0	313
1215	1.5	21.9	45.3	19.0	4.4	17.2	100.0	274
1821	1.2	22.6	43.0	20.4	4.6	17.3	100.0	328
TOT	14	287	538	255	52	17.3		1239
PCT	1.1	23.2	43.4	20.6	4.2	17.3	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	8 &	8 &	8 &		
N	2.0	1.7	2.9	2.2	2.9	2.2	79	4.8	
NNE	.7	.3	.9	1.2	.9	1.2	28	5.4	
NE	.9	.3	.7	1.8	.7	1.8	33	5.7	
E	.2	.1	.1	3.2	.1	3.2	33	7.5	
E	1.0	.3	.2	3.8	.4	3.8	48	6.3	
ESE	.1	.2	.7	2.0	.2	2.0	27	7.0	
SE	.2	.0	.6	1.8	.1	1.8	23	7.0	
SSE	.3	.0	.6	2.8	.6	2.8	33	7.1	
S	.8	.0	.9	4.7	.9	4.7	57	6.9	
SSW	.2	.2	.7	3.2	.7	3.2	39	7.2	
SW	.3	.4	1.2	2.8	.4	2.8	43	6.7	
WSW	.6	1.4	1.6	2.9	.6	2.9	58	6.0	
W	1.9	1.6	4.8	2.3	.7	2.3	95	5.1	
WNW	2.0	1.3	3.3	1.9	.0	1.9	77	5.0	
NW	2.8	1.8	3.3	2.0	.0	2.0	89	4.6	
NNW	2.0	1.6	4.9	1.8	.1	1.8	92	5.0	
VAR	.0	.0	.0	.0	.0	.0	0	.0	
CALM	2.8	.4	.9	1.0	.9	1.0	46	3.0	
TOT OBS	169	106	253	372	900	900		5.6	
TOT PCT	18.8	11.8	28.1	41.3	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	NH < 5/8 ANY HGT	TOTAL OBS	
	149	150	299	300	600	1000	2000	3500	5000	6500				
N	.1	.0	.1	.6	.6	1.6	1.4	.3	.0	.0	.0	.0	4.7	79
NNE	.0	.0	.0	.6	.6	.8	.2	.0	.0	.0	.0	.0	1.6	28
NE	.2	.2	.0	.6	.6	.6	.6	.0	.0	.0	.0	.0	1.6	33
E	.4	.0	.2	.7	.7	1.1	.6	.2	.0	.0	.0	.0	.4	33
E	.4	.1	.4	1.1	1.1	1.2	.4	.0	.0	.0	.0	.0	1.6	48
ESE	.3	.1	.0	.6	.6	.7	.7	.0	.0	.0	.0	.0	.7	27
SE	.4	.1	.2	.2	.2	.4	.6	.0	.0	.0	.0	.0	.6	23
SSE	.4	.0	.6	.6	.6	1.2	.3	.1	.0	.0	.0	.0	.6	33
S	1.3	.1	.6	1.2	1.2	1.3	.7	.0	.0	.0	.0	.0	1.0	57
SSW	.1	.0	.3	.9	.9	1.3	.6	.2	.0	.0	.0	.0	.9	39
SW	.4	.1	.0	.7	.7	1.7	.4	.1	.1	.0	.0	.0	1.1	43
WSW	.3	.0	.0	.4	.4	2.2	.3	.1	.1	.0	.0	.0	2.7	58
W	.7	.0	.1	1.3	1.3	2.2	.7	.6	.0	.0	.0	.0	4.9	95
WNW	.0	.0	.1	.8	.8	2.0	1.2	.3	.0	.0	.0	.0	4.0	77
NW	.0	.0	.2	.4	.4	1.9	1.2	.2	.0	.0	.0	.0	5.9	89
NNW	.1	.1	.2	.9	.9	2.3	1.4	.0	.1	.0	.0	.0	4.9	92
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.1	.2	.2	.2	.4	.4	.0	.0	.0	.0	.0	.0	0
TOT OBS	51	9	27	105	105	207	106	20	3	3	3	5	364	900
TOT PCT	5.7	1.0	3.0	11.7	11.7	23.0	11.8	2.2	.3	.3	.3	.6	40.4	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

MARCH

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 7

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

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= OR >2000	9.4	14.5	15.5	15.6	15.6	15.6	15.6	15.6
= OR >1000	20.3	33.0	36.6	37.7	38.0	38.4	38.4	38.4
= OR >600	24.6	40.7	46.9	48.6	49.3	49.6	49.8	49.8
= OR >300	24.9	42.1	48.9	50.8	51.9	52.3	52.7	52.7
= OR >150	25.1	42.6	49.5	51.6	52.9	53.3	53.8	53.8
= OR > 0	25.1	43.5	51.3	54.5	56.4	58.5	59.9	59.9
TOTAL	230	398	469	499	516	535	548	548

TOTAL NUMBER OF OBS: 915 PCT FREQ NH <5/8: 40.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	12.6	5.1	8.0	7.1	6.6	6.4	9.4	9.0	29.4	963
									6.3	963

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

MARCH

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 8

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

VSBY (IN)	PCP ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	.1 .1 2	.0 .2 2	.0 .1 1	.0 .1 1	.0 .3 3	.0 .3 3	.0 .2 2	.0 .2 2	.1 .3 4	.1 .9 10	.2 .1 3	.0 .2 2	.0 .1 1	.1 .4 5	.2 .0 2	.1 .0 1	.2 .0 2	.0 .0 0	.0 .6 6	12 35 47	1.2 3.4 4.6	
1/2<1	.0 .0 0	.0 .0 0	.0 .1 1	.0 .1 1	.0 .4 4	.0 .3 3	.2 .1 3	.2 .3 3	.2 .0 2	.1 .2 3	.0 .0 0	.0 .1 1	.0 .0 0	.0 .1 1	.0 .0 0	.0 .0 0	.3 .2 5	.0 .0 0	.0 .0 0	.0 .0 0	13 11 24	1.3 1.1 2.3
1<2	.1 .0 1	.2 .0 2	.2 .0 2	.2 .1 3	.2 .1 3	.2 .4 6	.1 .3 4	.1 .3 4	.1 .3 4	.4 .4 8	.1 .3 4	.1 .3 4	.1 .1 2	.1 .1 2	.2 .0 2	.2 .1 1	.4 .2 6	.0 .0 0	.1 .0 1	.1 .0 1	28 24 52	2.7 2.3 5.1
2<5	.5 .6 11	.0 .0 0	.3 .3 6	.5 .1 6	.2 .4 6	1.2 .3 15	.2 .4 6	.2 .4 6	.3 .3 6	.7 .6 9	.3 .3 6	.5 .7 12	.1 .4 5	.1 .2 3	.1 .1 2	.1 .3 4	.3 .4 7	.0 .0 0	.0 .2 2	.0 .0 0	52 53 105	5.1 5.2 10.2
5<10	.4 1.2 16	.0 .5 5	.2 1.3 15	.2 .5 7	.6 .8 14	.5 1.0 15	.6 .8 14	.3 .9 12	.4 1.3 16	1.0 1.3 23	.3 1.3 16	.8 1.7 25	.4 1.7 22	.1 2.0 22	.5 1.6 21	.3 1.7 21	.1 1.4 15	.0 .0 0	.0 .9 9	.0 .0 0	61 210 271	5.9 20.4 26.3
10+	.0 5.2 54	.1 1.7 18	.1 1.4 15	.0 1.5 15	.2 .8 9	.2 2.0 23	.1 1.1 12	.1 1.1 12	.1 1.8 20	.0 2.1 22	.1 1.8 20	.0 1.7 17	.1 3.5 37	.2 5.6 60	.4 5.5 61	.2 6.3 67	.1 5.3 56	.0 .0 0	.0 3.1 32	.0 .0 0	18 512 530	1.7 49.8 51.5
TOTAL PCT	84 8.2	27 2.6	40 3.9	33 3.2	34 3.3	60 5.8	39 3.8	42 4.1	51 5.0	75 7.3	51 5.0	61 5.9	67 6.5	93 9.0	88 8.6	94 9.1	91 8.8	0 .0	50 4.9	1029 100.0	100.0	

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

MARCH

TABLE 9

AREA 0007 UNIMAK  
53N-COAST 157-165W

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

VSBY (NM)	SPD KTS	WIND DIRECTION																VAR	CALM	TOTAL	PCT				
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW								
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	7	.6
	4-10	.1	.0	.0	.0	.2	.0	.0	.0	.5	.2	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	9	.7
	11-21	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2	.0	.1	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	17	1.4
TOTAL	22+	.2	.2	.2	.1	.3	.0	.0	.2	.7	.2	.1	.2	.2	.2	.1	.2	.2	.0	.0	.0	.0	6	49	1.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.4
11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	11	.9
TOTAL	22+	.0	.0	.1	.0	.0	.0	.0	.1	.3	.3	.3	.3	.3	.3	.2	.2	.3	.3	.5	.0	.0	.0	26	2.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	10	.8
11-21	.1	.1	.1	.0	.2	.2	.2	.1	.1	.3	.3	.3	.3	.3	.3	.2	.2	.2	.2	.2	.2	.2	.0	25	2.0
TOTAL	22+	.1	.3	.2	.2	.2	.1	.2	.2	.5	.4	.4	.4	.4	.4	.2	.2	.4	.4	.4	.4	.4	.0	56	4.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	4	.3
4-10	.3	.0	.0	.2	.1	.2	.2	.1	.1	.4	.4	.4	.4	.4	.4	.3	.3	.3	.3	.3	.3	.3	.0	29	2.4
11-21	.3	.0	.0	.1	.2	.8	.2	.2	.2	.4	.6	.6	.6	.6	.6	.5	.5	.5	.5	.5	.5	.5	.0	47	3.8
TOTAL	22+	.3	.0	.2	.2	.2	.1	.2	.2	.6	.6	.6	.6	.6	.6	.5	.5	.5	.5	.5	.5	.5	.0	40	3.3
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	14	1.1
4-10	.2	.2	.2	.1	.2	.1	.6	.3	.3	.5	.4	.4	.4	.4	.4	.3	.3	.3	.3	.3	.3	.3	.0	55	4.5
11-21	.7	.3	.7	.7	.4	.7	.5	.7	.7	1.5	1.5	1.4	1.4	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.1	.0	144	11.7	
TOTAL	22+	.7	.0	.7	.7	.4	.6	.7	.7	1.5	1.5	1.4	1.4	1.4	1.4	1.1	1.1	1.1	1.1	1.1	1.1	.0	118	9.6	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	40	3.3
4-10	1.4	.8	1.0	.1	.7	.7	.7	.7	.7	.8	.7	.7	.7	.7	.7	.6	.6	.6	.6	.6	.6	.6	.0	175	14.2
11-21	2.5	.4	.7	.5	1.1	.2	.2	.2	.2	.8	1.1	1.0	1.0	1.0	1.0	.8	.8	.8	.8	.8	.8	.0	291	23.7	
TOTAL	22+	6.6	2.4	2.0	1.1	2.2	1.3	1.5	1.5	2.9	2.9	2.9	2.9	2.9	2.9	2.3	2.3	2.3	2.3	2.3	2.3	.0	647	52.6	
TOTAL PCT		8.1	2.9	4.7	3.3	5.1	4.0	3.3	4.2	3.9	7.2	4.7	5.8	6.6	6.8	10.0	8.5	9.4	8.7	0	0	4.2	52	1229	100.0

MARCH

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

AREA 000/ UNIMAK  
53N-COAST 157-165W

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 ANY HGT OBS		
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		TOTAL	
00003	5.1	1.8	1.8	12.8	18.2	14.6	3.3	1.1	.4	.0	59.1	40.9	274
06009	7.2	.8	3.0	10.2	22.9	11.0	1.3	.0	.4	.8	57.6	42.4	236
12015	8.5	.5	3.5	9.0	23.6	8.0	2.5	.5	.5	.5	57.3	42.7	199
18021	6.6	.9	3.5	12.3	25.1	12.8	1.8	.0	.0	.9	63.9	36.1	227
TOT	63	10	27	105	208	111	21	4	3	5	557	379	936
PCT	6.7	1.1	2.9	11.2	22.2	11.9	2.2	.4	.3	.5	59.5	40.5	100.0

TABLE 11

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	10+	10+	10+	10+	
00003	3.7	1.9	3.3	7.8	21.9	61.5	270				270
06009	5.6	2.6	3.9	8.2	21.2	58.4	231				231
12015	3.6	2.6	2.6	8.8	32.1	50.3	193				193
18021	5.0	1.8	4.1	10.0	24.4	54.8	221				221
TOT	41	20	32	79	224	519	915				915
PCT	4.5	2.2	3.5	8.6	24.5	56.7	100.0				100.0

TABLE 12

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH > 4/8), BY HOUR					NH < 5/8 AND 5+ TOTAL OBS
	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	AND/OR	
00003	4.8	10.7	28.9	32.2	38.9	270
06009	7.4	13.9	29.9	31.2	39.0	231
12015	6.7	13.5	28.0	31.6	40.4	193
18021	7.2	12.7	30.3	37.1	32.6	221
TOT	59	115	268	302	345	915
PCT	6.4	12.6	29.3	33.0	37.7	100.0

PERIOD: (PRIMARY) 1953-1970  
(OVER-ALL) 1922-1970

MARCH

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 13

TABLE 14

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR CALM		
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	N	NE			E	SE	S	SW	W	NW								
45/49	.0	.0	.0	.0	.3	.4	.1	.3	.4	.6	.1	12	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
40/44	.0	.0	.0	.0	1.7	4.7	6.5	10.7	18.7	23.9	135	23.9	.9	1.9	3.0	2.2	5.0	6.0	2.8	1.7	.0	.0	.0	.0	.0	.4
35/39	.0	.3	.3	.3	2.2	8.7	14.1	19.9	35.8	46.3	358	46.3	3.1	3.1	5.6	4.7	6.0	7.5	9.1	6.0	.0	.0	.0	.0	.0	1.4
30/34	.0	.0	.0	.0	.3	2.5	6.0	6.9	137	17.7	43	5.6	3.0	1.6	.6	.6	.3	.8	3.5	7.0	.0	.0	.0	.0	.0	.4
25/29	.0	.0	.0	.1	.1	.6	1.0	3.6	43	5.6	27	3.5	1.2	.5	.0	.1	.4	.4	.6	2.5	.0	.0	.0	.0	.0	.0
20/24	.0	.0	.0	.0	.3	.6	.6	1.9	27	3.5	11	1.4	1.0	.1	.0	.0	.0	.8	.8	1.6	.0	.0	.0	.0	.0	.0
15/19	.0	.0	.0	.0	.0	.1	.3	1.0	27	3.5	11	1.4	.4	.1	.0	.0	.0	.1	.1	1.6	.0	.0	.0	.0	.0	.0
TOTAL	0	2	2	2	14	52	136	225	773	100.0	773	100.0	9.6	7.4	57	74	91	118	132	149	.0	.0	.0	.0	.0	.0
PCT	.0	.3	.3	.3	6.7	17.6	29.1	44.2	77.3	100.0	77.3	100.0	9.6	7.4	9.6	7.9	11.8	15.3	17.1	19.3	.0	.0	.0	.0	.0	2.2

TABLE 15

TABLE 16

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	0-29	30-59		60-69	70-79	80-89	90-100	MEAN							
00603	50	48	44	38	25	18	16	36.7	331	.0	3.5	10.0	25.0	23.0	38.5	84	200						
06609	48	45	42	37	25	18	16	35.7	314	.0	3.6	4.6	15.7	33.5	42.6	86	197						
12615	45	43	41	36	26	19	17	35.5	273	.0	1.2	5.9	16.6	33.1	43.2	86	169						
18621	50	44	41	37	24	19	16	35.5	326	.0	1.0	6.3	13.0	27.5	52.2	88	207						
TOT	50	45	42	37	25	19	16	35.9	1244	0	18	52	136	225	342	86	773						

PERIOD: (PRIMARY) 1953-1970  
 (OVER-ALL) 1922-1970

MARCH

AREA 000/ UNIMAK  
 53N-COAST 157-165W

TABLE 17

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

AIR-SEA TMP DIF	13	17	21	25	29	33	37	41	45	49	TOT	M FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.4	.5	.2	3	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.1	.8	.4	.0	9	.3	.6
6	.0	.0	.0	.0	.0	.0	.5	1.7	.2	.0	13	.0	1.3
5	.0	.0	.0	.0	.0	.1	1.3	1.9	.1	.0	24	1.0	2.3
4	.0	.0	.0	.0	.0	.0	1.7	1.9	.1	.0	34	.6	2.4
3	.0	.0	.0	.0	.0	.1	4.3	2.3	.0	.0	37	1.3	3.1
2	.0	.0	.0	.0	.0	.1	6.1	.6	.0	.0	66	.8	5.4
1	.0	.0	.0	.0	.1	2.6	9.5	.5	.1	.0	67	.9	6.0
0	.0	.0	.0	.0	.1	3.7	6.7	.2	.0	.0	127	.5	12.0
-1	.0	.0	.0	.0	.3	4.1	3.6	.1	.0	.0	105	.5	10.1
-2	.0	.0	.0	.0	.4	2.8	2.5	.2	.0	.0	80	.8	7.3
-3	.0	.0	.0	.0	.1	4.2	1.7	.3	.0	.0	59	.0	6.0
-4	.0	.0	.0	.0	1.1	2.9	1.6	.0	.0	.0	73	.6	6.8
-5	.0	.0	.0	.0	1.9	1.7	.6	.1	.0	.0	64	.3	6.2
-6	.0	.0	.0	.1	1.6	1.7	.4	.0	.0	.0	41	.4	3.7
-7/-8	.0	.0	.1	.8	2.8	1.5	.4	.0	.0	.0	56	.2	5.5
-9/-10	.0	.1	.0	.9	2.4	.4	.6	.0	.0	.0	44	.0	4.5
-11/-13	.0	.2	.3	1.7	.8	.6	.1	.0	.0	.0	37	.1	3.6
-14/-16	.1	.8	.7	.7	.4	.2	.0	.0	.0	.0	29	.1	2.8
-17/-19	.2	.3	.3	.3	.0	.0	.0	.0	.0	.0	11	.0	1.1
-20/-22	.1	.1	.4	.1	.0	.0	.0	.0	.0	.0	7	.0	.7
TOTAL	.4	1.5	1.8	4.8	12.0	25.1	41.4	11.1	1.5	.3	987	.80	907
PCT	.4	1.5	1.8	4.8	12.0	25.1	41.4	11.1	1.5	.3	100.0	8.1	91.9

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

MARCH  
TABLE 18

AREA 0007 UNIMAK  
53N-COAST 157-165M

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

HGT	N										NE									
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL						
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
1-2	.0	1.3	1.9	.0	.0	.0	15	.2	1.1	.2	.0	.0	.0	7						
3-4	.0	1.1	.8	.2	.0	.0	10	.0	1.1	1.1	.2	.0	.0	11						
5-6	.0	.4	.6	.0	.2	.0	6	.0	.4	.6	.2	.0	.0	6						
7	.0	.0	.8	.2	.6	.0	8	.0	.2	.6	.0	.2	.0	5						
8-9	.0	.0	.0	.2	.0	.0	1	.0	.4	.6	1.1	.0	.0	10						
10-11	.0	.0	.2	.2	.0	.0	2	.0	.0	.0	.0	.2	.0	1						
12	.0	.0	.0	.2	.0	.0	1	.0	.0	.4	.0	.0	.0	3						
13-16	.0	.0	.0	.6	.0	.0	3	.0	.0	.0	.0	.0	.0	0						
17-19	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0						
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
TOTAL	0	13	21	9	4	0	47	1	15	17	8	2	0	43						
PCT	.0	2.8	4.5	1.9	.8	.0	10.0	.2	3.2	3.6	1.7	.4	.0	9.1						

HGT	E										SE									
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL						
<1	.0	.6	.0	.0	.0	.0	3	.0	.2	.0	.0	.0	.0	1						
1-2	.0	1.1	1.1	.0	.0	.0	10	.0	.8	.4	.0	.0	.0	6						
3-4	.0	1.3	1.3	.0	.0	.0	12	.0	.4	1.1	.4	.0	.0	9						
5-6	.0	.2	1.5	.0	.0	.0	8	.0	.0	.8	.6	.0	.0	7						
7	.0	.0	.8	.6	.2	.0	8	.0	.4	.6	.2	.0	.0	6						
8-9	.0	.2	.4	.4	.0	.0	5	.0	.4	.2	.2	.0	.0	4						
10-11	.0	.0	.0	.4	.0	.0	2	.0	.0	.0	.0	.0	.0	0						
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
13-16	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.2	.0	1						
17-19	.0	.0	.0	.0	.2	.0	0	.0	.4	.0	.0	.0	.0	2						
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
TOTAL	0	16	24	7	2	0	49	0	13	15	7	1	0	36						
PCT	.0	3.4	5.1	1.5	.4	.0	10.4	.0	2.8	3.2	1.5	.2	.0	7.6						

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

MARCH

TABLE 18

AREA 0007 UNIMAK  
53N-COAST 157-165W

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

HGT	S					SW					48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.0	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	3
1-2	.0	.8	.4	.0	.0	.0	1.1	.6	.0	.0	.0	.0	8
3-4	.4	.8	2.5	.2	.0	.0	1.1	3.2	.4	.0	.0	.0	23
5-6	.0	.0	.8	.0	.0	.0	.6	1.7	.2	.0	.0	.0	12
7	.0	.0	1.3	.2	.2	.0	.4	.6	.0	.2	.0	.0	6
8-9	.0	.0	.2	1.1	.0	.0	.0	.4	.0	.0	.0	.0	2
10-11	.0	.0	.2	.4	.0	.0	.0	.0	.4	.2	.0	.0	3
12	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	1
13-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.2	.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
TOTAL	2	9	27	10	2	1	18	31	6	2	0	0	58
PCT	.4	1.9	5.7	2.1	.4	.2	3.8	6.6	1.3	.4	.0	.0	12.3

HGT	W					NW					48+	TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47				
<1	.2	.6	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	13
1-2	.2	2.5	.8	.0	.0	.0	1.5	1.9	.4	.0	.0	.0	18	87
3-4	.0	2.3	1.5	1.1	.0	.0	.4	2.8	1.1	.0	.0	.0	20	127
5-6	.0	.6	3.2	.8	.2	.0	.0	2.5	1.1	.0	.0	.0	17	82
7	.0	.2	1.3	.4	.0	.0	.4	2.5	2.5	.4	.0	.0	19	70
8-9	.0	.0	.6	.4	.0	.0	.2	1.5	.6	.4	.2	.0	14	47
10-11	.0	.0	.2	.4	.2	.0	.0	.0	.4	.2	.0	.0	3	18
12	.0	.0	.0	.2	.2	.0	.0	.0	.4	.2	.0	.0	3	12
13-16	.0	.0	.0	.2	.6	.0	.0	.0	.0	.4	.0	.0	2	13
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	2	30	36	17	6	0	13	43	31	8	2	0	97	471
PCT	.4	6.4	7.6	3.6	1.3	.0	2.8	9.1	6.6	1.7	.4	.0	20.6	100.0

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

MARCH

TABLE 18 (CONT)

AREA 0007 UNIMAK  
53N-COAST 157-165W

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)											TOTAL DBS
	0-3	4-10	11-21	22-33	34-47	48+	0	1	2	3	4	
<1	5.6	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	40
1-2	.8	9.5	6.9	.4	.0	.0	.0	.0	.0	.0	.0	89
3-4	1.0	7.9	13.3	3.4	.0	.0	.0	.0	.0	.0	.0	129
5-6	.4	2.2	11.1	2.8	.2	.0	.0	.0	.0	.0	.0	70
7	.0	1.6	6.2	4.0	.4	.2	.0	.0	.0	.0	.0	47
8-9	.0	1.2	3.8	3.8	.8	.2	.0	.0	.0	.0	.0	18
10-11	.0	.0	.6	2.2	.6	.0	.0	.0	.0	.0	.0	12
12	.0	.0	.6	1.2	1.4	.0	.0	.0	.0	.0	.0	13
13-16	.0	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	2
17-19	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	39	127	214	95	27	2	0	0	0	0	0	504
PCT	7.7	25.2	42.5	18.8	5.4	.4	0	0	0	0	0	100.0

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+ TOTAL	MEAN HGT	
<6	.5	7.9	14.6	7.8	7.0	3.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	258	4
6-7	.0	.3	3.7	6.1	6.3	3.4	1.9	1.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	6
8-9	.0	.0	1.4	1.6	1.9	1.9	1.5	1.0	2.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	77	8
10-11	.0	.0	.3	.8	1.5	1.6	1.3	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0	.0	.0	.2	.2	.8	.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
>13	.0	.0	.0	.0	.0	.0	.5	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	5	13
INDET	12.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	0
TOTAL	78	51	128	102	104	69	36	22	22	4	2	0	0	0	0	0	0	0	0	618	0
PCT	12.6	8.3	20.7	16.5	16.8	11.2	5.8	3.6	3.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5

APRIL

PERIOD: (PRIMARY) 1954-1970  
(OVER-ALL) 1902-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

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	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS							
				FRZG PCPN	SNOW	OTHER PCPN					FG	SMOKE	HAZE	BLWG	DUST	DUST		SIG	WEA					
N	.0	.1	.0	.0	.0	.0	.0	.5	6	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67
NNE	.2	.0	.0	.0	.0	.0	.0	.1	3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33
NE	.3	.0	.4	.1	.3	.0	.0	.3	11	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36
ENE	.5	.2	.2	.0	.2	.0	.0	.2	11	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41
E	.2	.0	.4	.0	.0	.0	.0	.0	6	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44
ESE	.3	.0	.2	.0	.3	.0	.0	.3	7	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
SE	1.0	.0	.4	.0	.2	.0	.0	.2	16	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
SSE	.7	.0	.5	.0	.1	.0	.0	.1	14	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50
S	.8	.0	.9	.0	.2	.0	.0	.2	19	.0	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87
SSW	.8	.0	.5	.0	.3	.0	.0	.3	18	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
SW	.5	.2	.3	.0	.4	.0	.0	.4	15	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92
WSW	.1	.0	.3	.0	.0	.0	.0	.0	5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74
W	.2	.0	.3	.0	.5	.0	.0	.5	10	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142
WNW	.1	.1	.1	.0	.5	.0	.0	.5	6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104
NW	.1	.0	.0	.0	.4	.0	.0	.4	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99
NNW	.0	.1	.1	.0	.5	.0	.0	.5	6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49
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
CALM	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28
TOT OBS	64	7	48	1	45	1	6	14.9	163	0	59	6	5	863	1096	1096	1096	1096	1096	1096	1096	1096	1096	1096
TOT PCT	5.8	.6	4.4	.1	4.1	.1	.5	14.9	163	.0	5.4	.5	.5	78.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS						
				FRZG PCPN	SNOW	OTHER PCPN					FG	SMOKE	HAZE	BLWG	DUST	DUST		SIG	WEA				
00603	4.9	.3	3.3	.0	4.6	.0	.7	13.4	41	.0	8.2	.7	1.0	76.7	305	305	305	305	305	305	305	305	305
06609	4.3	1.1	4.3	.0	3.2	.0	.4	12.6	35	.0	5.4	.7	.4	80.9	278	278	278	278	278	278	278	278	278
12615	6.0	.4	4.9	.4	5.3	.0	1.1	16.9	45	.0	4.5	.8	.0	77.8	266	266	266	266	266	266	266	266	266
18621	8.0	.8	5.0	.0	3.8	.4	.0	16.8	44	.0	3.4	.0	.4	79.4	262	262	262	262	262	262	262	262	262
TOT	64	7	48	1	47	1	6	14.9	165	0	61	6	5	874	1111	1111	1111	1111	1111	1111	1111	1111	1111
PCT	5.8	.6	4.3	.1	4.2	.1	.5	14.9	165	.0	5.5	.5	.5	78.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1954-1970  
(OVER-ALL) 1902-1970

APRIL  
TABLE 3

AREA 0007 UNIMAK  
53N-CDAST 157-165W

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21					
N	.2	1.6	2.6	1.6	.2	.1	79	6.2	17.6	8.0	.0	4.6	5.6	4.3	.0	6.5	8.3					
NNE	.1	.9	1.1	.5	.0	.0	33	2.6	15.1	2.4	3.7	2.3	5.6	4.5	.0	1.4	.0					
NE	.1	1.1	1.5	.3	.3	.0	42	3.3	16.4	4.0	3.7	2.9	5.6	3.3	.0	3.1	.0					
ENE	.2	.9	1.3	.9	.2	.0	45	3.5	16.6	2.4	.0	3.9	5.6	2.6	5.3	5.5	.0					
E	.2	1.3	1.8	.4	.0	.0	48	3.7	13.3	3.1	3.7	4.6	.0	3.7	.0	4.5	.0					
ESE	.0	1.0	1.4	.3	.2	.0	37	2.9	14.9	3.7	3.7	3.9	.0	3.3	.0	1.0	.0					
SE	.1	1.9	1.6	1.2	.2	.1	56	5.1	16.3	4.6	3.7	4.6	.0	3.7	.0	7.9	4.2					
SSE	.0	.9	1.9	.9	.3	.1	52	4.1	19.2	4.9	7.4	2.9	11.1	3.3	5.3	5.1	.0					
S	.2	1.7	3.1	1.9	.6	.0	98	7.6	18.4	7.3	.0	9.4	11.1	9.7	10.5	4.8	4.2					
SSW	.1	1.2	3.7	.9	.5	.1	81	6.3	17.9	5.8	.0	5.5	11.1	6.3	5.3	5.1	8.3					
SW	.2	2.3	4.1	1.7	.3	.0	109	8.5	16.8	10.4	11.1	7.8	.0	9.7	9.7	6.5	8.3					
WSW	.1	1.6	3.7	1.6	.4	.0	95	7.4	17.9	6.7	11.1	7.8	5.6	5.6	5.3	8.6	8.3					
W	.5	3.2	5.6	3.2	.5	.0	167	13.0	16.8	11.6	18.5	16.0	11.1	10.8	5.3	12.0	33.3					
WNW	.2	1.2	4.9	2.7	.2	.2	122	9.5	19.1	9.5	14.8	8.1	27.8	10.0	10.5	9.9	4.2					
NW	.3	2.0	3.5	2.4	1.0	.0	119	9.3	19.6	9.5	7.4	8.1	.0	10.0	10.5	9.9	4.2					
NNW	.1	.9	1.9	1.2	.2	.1	57	4.4	18.4	4.3	.0	4.6	.0	3.3	.0	6.2	8.3					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	2.6	.0	.0	.0	.0	.0	33	2.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0					
TOT OBS	66	305	560	279	66	7	1283	100.0	17.1	327	27	307	18	269	19	292	24					
TOT PCT	5.1	23.8	43.6	21.7	5.1	.5				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	1.2	3.5	3.0	.8	.2	112	8.7	16.9	10.4	3.7	6.8	11.1	10.8	.0	7.9	8.3						
NE	1.2	2.6	1.9	1.0	.1	87	6.8	16.5	6.4	3.7	6.8	11.1	5.9	5.3	8.6	.0						
E	1.5	2.9	1.9	.4	.0	85	6.6	14.0	6.7	7.4	8.5	.0	7.1	.0	5.5	.0						
SE	1.1	3.8	2.9	1.2	.2	118	9.2	17.6	9.5	11.1	7.5	11.1	7.1	5.3	13.0	4.2						
S	1.4	5.2	5.1	2.0	.2	179	14.0	18.2	13.1	.0	15.0	22.2	16.0	57.9	13.0	12.5						
SW	1.1	7.5	5.2	1.9	.2	204	15.9	17.3	17.1	33.3	15.6	5.6	10.5	10.5	15.1	12.5						
W	2.0	8.8	9.1	2.3	.3	289	22.5	17.8	21.1	33.3	24.1	38.9	20.8	5.3	21.9	37.5						
NW	1.1	5.5	4.1	2.8	.2	176	13.7	19.2	13.8	7.4	12.7	.0	13.4	10.5	15.8	25.0						
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	2.6	.0	.0	.0	.0	33	2.6	.0	.0	1.8	.0	.0	.0	.0	.0	.0						
TOT OBS	170	510	425	159	19	1283			327	27	307	18	269	19	292	24						
TOT PCT	13.3	39.8	33.1	12.4	1.5				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						

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AREA 0007 UNIMAK  
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PERIOD: (PRIMARY) 1954-1970  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)			CALM		PCT		TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	MEAN FREQ	
00003	2.0	21.5	46.0	22.3	1.7	17.6	100.0	354
06009	2.5	25.5	42.2	20.0	2.8	17.2	100.0	325
12015	1.7	28.5	43.8	19.4	3.8	15.7	100.0	288
18021	4.1	20.3	42.4	25.0	2.2	17.6	100.0	316
TOT	33	305	560	279	33	17.1		1283
PCT	2.6	23.8	43.6	21.7	2.6	17.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER	
	0-2	3-4	5-7	8 &	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION			NH <5/8 ANY HGT			
N	1.2	.7	2.5	1.8	60	.3	.0	.0	.0	.0	60
NNE	.9	.1	.4	1.3	27	.1	.0	.1	.0	.0	27
NE	.6	.3	.4	1.8	30	.3	.0	.1	.0	.0	30
ENE	.0	.3	.8	2.5	35	.1	.0	.1	.0	.0	35
E	.1	.1	.9	2.5	35	.6	.0	.3	.0	.0	35
ESE	.3	.0	.2	2.4	29	.2	.0	.2	.0	.0	29
SE	.0	.0	.5	3.2	36	.6	.1	.4	.0	.0	36
SSE	.1	.0	.5	3.6	41	.8	.2	1.1	.0	.0	41
S	.2	.3	1.5	5.5	73	1.0	.1	2.7	.0	.0	73
SSW	.2	.4	2.0	3.3	57	.7	.0	1.1	.0	.0	57
SW	.4	1.3	2.6	3.6	77	.8	.1	2.1	.0	.0	77
WSW	1.0	.8	2.1	3.2	69	.1	.0	1.9	.0	.0	69
W	2.2	2.7	4.5	4.9	139	.5	.1	1.8	.0	.0	139
WNW	2.1	1.3	4.5	2.3	99	.2	.1	3.0	.0	.0	99
NW	2.5	1.6	2.7	3.0	95	.2	.0	2.9	.0	.0	95
NNW	.8	.8	1.3	1.4	43	.2	.3	1.3	.0	.0	43
VAR	.0	.0	.0	.0	0	.0	.0	.6	.0	.0	0
CALM	.5	.6	.3	1.2	26	.0	.0	.0	.0	.0	26
TOT OBS	128	113	270	460	971	.68	.11	242	.4	.0	971
TOT PCT	13.2	11.6	27.8	47.4	100.0	7.0	1.1	24.9	4.6	.3	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION								TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000		
N	.3	.0	.1	.8	1.3	.6	.5	.1	.0	60
NNE	.1	.0	.1	.1	.8	.2	.2	.0	.0	27
NE	.3	.0	.2	.4	.9	.1	.0	.0	.0	30
ENE	.1	.1	.4	.5	1.4	.2	.3	.0	.0	35
E	.6	.0	.6	.3	.7	.4	.4	.0	.0	35
ESE	.2	.0	.2	.4	.9	.5	.0	.0	.0	29
SE	.6	.1	.2	.3	1.3	.5	.2	.0	.0	36
SSE	.8	.2	.1	1.0	1.1	.4	.1	.0	.0	41
S	1.0	.1	.2	1.1	2.7	.7	.3	.0	.0	73
SSW	.7	.0	.3	.6	1.5	.1	.0	.0	.0	57
SW	.8	.1	.2	.6	2.1	1.0	.0	.0	.0	77
WSW	.1	.0	.2	.7	1.9	1.0	.6	.0	.0	69
W	.5	.1	.3	1.8	3.0	1.8	.4	.0	.0	139
WNW	.2	.1	.0	.5	2.9	1.8	.3	.0	.0	99
NW	.2	.0	.4	1.3	1.3	.9	.8	.0	.0	95
NNW	.2	.3	.1	.4	.6	.7	.2	.0	.0	43
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.2	.3	.4	.0	.0	.0	26
TOT OBS	68	11	35	109	242	121	45	5	7	971
TOT PCT	13.2	1.1	3.6	11.2	24.9	12.5	4.6	.5	.7	100.0

PERIOD: (PRIMARY) 1954-1970  
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APRIL

AREA 0007 UNIMAK  
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TABLE 7  
CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE  
OF CEILING HEIGHT (NH  $\geq 4/8$ ) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
= DR >6500	.5	.7	.9	1.0	1.1	1.1	1.1	1.1
= DR >5000	1.0	1.2	1.4	1.5	1.6	1.6	1.6	1.6
= DR >3500	5.2	5.9	6.1	6.2	6.3	6.3	6.3	6.3
= DR >2000	12.0	17.4	18.5	18.6	18.7	18.7	18.7	18.8
= DR >1000	26.7	38.7	42.3	42.9	43.1	43.3	43.3	43.4
= DR >600	31.4	48.2	53.0	53.7	54.1	54.3	54.3	54.4
= DR >300	32.1	50.3	55.8	57.1	57.6	57.8	57.9	58.0
= DR >150	32.1	51.0	56.5	58.2	58.7	58.9	59.0	59.1
= DR > 0	32.2	52.1	58.7	61.9	63.1	65.1	66.1	66.2
TOTAL	315	510	575	606	618	637	647	648

TOTAL NUMBER OF OBS: 979

PCT FREQ NH  $\leq 5/8$ : 33.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	7.9	3.9	7.1	7.4	7.4	6.6	11.9	9.8	32.0	6.0	1051

APRIL

PERIOD: (PRIMARY) 1954-1970  
(OVER-ALL) 1902-1970

AREA 0007 UNIMAK  
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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 ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	.0 .1 1	.0 .1 1	.0 .1 1	.2 .1 3	.1 .0 1	.1 .2 3	.1 .0 1	.0 .2 2	.0 .2 2	.0 .3 5	.1 .3 4	.1 .2 3	.0 .4 4	.0 .1 1	.0 .0 0	.0 .0 0	.1 .0 1	.0 .0 0	.0 .1 1	8 25 33	.7 2.3 3.0	
1/2<1	.0 .0 0	.0 .0 0	.1 .0 1	.1 .0 1	.0 .0 0	.0 .2 2	.1 .1 2	.0 .4 4	.0 .4 4	.0 .3 3	.1 .0 1	.0 .0 0	.0 .0 0	.2 .0 2	.0 .0 0	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	7 10 17	.6 .9 1.6
1<2	.3 .0 3	.1 .0 3	.0 .0 1	.0 .0 0	.3 .1 4	.1 .1 2	.2 .2 4	.3 .1 5	.3 .1 4	.2 .3 5	.2 .0 2	.1 .1 2	.0 .2 2	.1 .2 3	.0 .0 0	.1 .1 2	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	25 15 40	2.3 1.4 3.7
2<5	.0 .0 0	.0 .0 0	.3 .2 5	.4 .1 5	.4 .2 3	.1 .4 5	.3 .1 5	.3 .1 5	.3 .3 6	.7 .8 17	.4 .2 6	.5 .7 13	.1 .3 4	.2 .5 7	.1 .5 7	.1 .0 1	.2 .1 3	.0 .0 0	.0 .0 0	.0 .1 1	40 48 88	3.7 4.4 8.1
5<10	.3 1.6 20	.1 .9 11	.3 .5 9	.1 1.1 13	.2 1.1 14	.2 1.1 14	.2 .7 10	.5 .9 15	.5 .9 16	.6 1.9 28	.6 1.5 23	.4 2.5 31	.4 1.7 23	.3 3.2 38	.1 1.8 21	.0 1.9 21	.1 .9 11	.0 .0 0	.0 .4 5	.1 .1 1	51 258 309	4.7 23.6 28.3
10+	.1 3.9 44	.0 1.7 19	.2 1.5 18	.2 1.5 18	.2 1.5 18	.1 1.7 20	.1 1.0 12	.1 1.6 19	.2 1.4 17	.2 2.5 29	.3 2.7 33	.3 3.6 42	.0 3.8 41	.1 8.2 90	.4 6.6 76	.5 6.2 73	.1 2.9 33	.0 .0 0	.1 1.8 21	.1 1.8 21	30 575 605	2.7 52.7 55.4
TOTAL PCT	68 6.2	33 3.0	36 3.3	41 3.8	44 4.0	49 4.5	48 4.4	49 4.4	49 4.5	87 8.0	69 6.3	91 8.3	74 6.8	141 12.9	104 9.5	98 9.0	49 4.5	0 .0	28 2.6	1092 100.0	100.0	

PERIOD: (PRIMARY) 1954-1970  
(OVER-ALL) 1902-1970

TABLE 9  
PERCENT FREQ OF WIND DIRECTION VS WIND SPEED  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	DIRECTION																VAR	CALM	TOTAL	PCT																		
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW																						
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
	4-10	.1	.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												
	11-21	.0	.0	.2	.0	.1	.1	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2												
	TOTAL	.1	.1	.2	.1	.2	.2	.2	.2	.3	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4												
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
	TOTAL	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
	4-10	.2	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1												
	11-21	.1	.1	.0	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2												
	TOTAL	.3	.1	.0	.1	.2	.2	.2	.2	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3												
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0												
	11-21	.1	.0	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2												
	TOTAL	.1	.0	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2												
5<10	0-3	.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												
	4-10	.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												
	11-21	.7	.5	.5	.3	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6												
	TOTAL	.6	.2	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2												
10+	0-3	.1	.1	.1	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2												
	4-10	1.1	.8	.7	.5	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8												
	11-21	1.7	.5	.6	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5												
	TOTAL	1.3	.2	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4												
TOTAL PCT	79	33	42	45	48	37	65	51	98	81	107	95	164	121	118	57	0	33	1274	100.0	6.2	2.6	3.3	3.5	3.8	2.9	5.1	4.0	7.7	6.4	8.4	7.5	12.9	9.5	9.3	4.5	0	2.6	100.0

APRIL

PERIOD: (PRIMARY) 1954-1970  
(OVER-ALL) 1902-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	7.1	.7	2.1	9.6	21.7	16.4	6.0	.7	.4	.4	65.1	34.9	281
06009	6.0	.8	4.4	12.7	27.9	10.0	5.2	.4	1.2	.8	69.3	30.7	251
12015	8.9	.9	4.9	8.9	23.1	8.0	3.1	.0	1.3	.0	59.1	40.9	225
18021	5.6	2.4	2.8	12.0	24.0	13.2	3.6	.8	.4	.0	64.8	35.2	250
TOT	69	12	35	109	243	122	46	5	8	3	652	355	1007
PCT	6.9	1.2	3.5	10.8	24.1	12.1	4.6	.5	.8	.3	64.7	35.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	3.7	1.5	3.3	5.9	19.6	66.1	271
06009	3.7	1.2	3.3	6.6	26.3	58.8	243
12015	3.6	.0	2.7	6.8	34.2	52.7	222
18021	1.6	2.1	3.3	9.1	26.7	57.2	243
TOT	31	12	31	69	258	578	979
PCT	3.2	1.2	3.2	7.0	26.4	59.0	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	7.4	10.3	24.7	42.4	32.8	271
06009	6.6	13.6	29.6	41.2	29.2	243
12015	9.0	14.9	29.3	31.1	39.6	222
18021	5.8	11.9	28.8	39.1	32.1	243
TOT	70	123	274	379	326	979
PCT	7.2	12.6	28.0	38.7	33.3	100.0

PERIOD: (PRIMARY) 1954-1970  
(OVER-ALL) 1902-1970

APRIL

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT FREQ	N	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP								VAR CALM
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	0-29	30-39				40-49	50-59	60-69	70-79	80-89	90-100	HEAN		
50/54	.0	.0	.0	.0	.5	.1	.2	.0	.0	.0	7	.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	1.1
45/49	.0	.0	.0	.0	1.0	.7	.9	.9	.6	.6	28	3.2	.3	.2	.0	.5	.3	.5	.8	.5	.0	1.1
40/44	.0	.0	.0	.2	2.2	5.4	9.9	11.3	6	259	29.5	1.9	1.1	2.5	6.7	5.1	7.5	1.6	.0	.0	.5	
35/39	.0	.0	.0	.7	2.3	6.6	16.1	25.6	450	51.3	3.6	3.8	3.6	6.2	6.9	9.1	10.4	6.7	.0	.0	.9	
30/34	.0	.0	.0	.0	1.3	2.2	3.0	5.8	107	12.2	1.9	.8	.8	.2	.2	.8	3.0	4.3	.0	.0	.1	
25/29	.0	.0	.0	.0	.0	.5	.5	1.7	23	2.6	1.0	.1	.0	.0	.0	.0	.7	.8	.0	.0	.0	
20/24	.0	.0	.0	.0	.0	.0	.0	.5	4	.5	.1	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	
TOTAL	.0	.0	.2	1.1	6.3	13.5	26.8	39.9	878	100.0	9.2	6.3	6.9	9.6	14.2	15.5	22.4	14.1	.0	.0	1.7	
PCT	.0	.0	.2	1.3	7.2	15.4	30.5	45.4														

TABLE 15

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

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS	HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS	
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	0-29	30-39			40-49	50-59	60-69	70-79	80-89	90-100	HEAN					
00&03	51	50	47	40	31	25	24	39.3	348	.0	2.9	10.3	20.2	28.5	38.0	83	00&03	.0	1.3	9.7	13.2	32.2	43.6	85
06&09	50	49	43	38	30	24	22	37.9	325	.0	1.3	9.7	13.2	32.2	43.6	85	06&09	.0	.5	7.3	14.7	31.0	50.5	87
12&15	46	43	41	37	30	25	22	36.9	288	.0	.9	4.8	13.1	30.6	50.7	87	12&15	.0	.9	4.8	13.1	30.6	50.7	87
18&21	51	46	43	38	30	25	22	37.3	316	.0	1.3	6.4	13.6	26.9	40.0	86	18&21	.0	.9	4.8	13.1	30.6	50.7	87
TOT	51	48	43	39	30	25	22	37.9	1277	0	13	64	136	269	400	86	TOT	0	13	64	136	269	400	882

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

PERIOD: (PRIMARY) 1954-1970  
(OVER-ALL) 1902-1970

APRIL

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 17

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

AIR-SEA TMP DIF	21	25	29	33	37	41	45	49	TOT	W FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.2	4	.0	.4
9/10	.0	.0	.0	.0	.2	.2	.4	.4	12	.0	1.2
7/8	.0	.0	.0	.0	.0	.7	.4	.0	11	.1	1.0
6	.0	.0	.0	.0	.2	.6	.3	.2	13	.0	1.3
5	.0	.0	.0	.0	.7	2.2	.5	.1	35	.3	3.3
4	.0	.0	.0	.0	1.7	1.9	.2	.0	38	.5	3.4
3	.0	.0	.0	.0	2.2	1.7	.2	.0	41	.5	3.7
2	.0	.0	.0	.8	5.4	3.3	.1	.0	94	.8	8.8
1	.0	.0	.0	.2	4.5	1.7	.1	.0	64	.7	5.8
0	.0	.0	.1	1.5	9.0	1.8	.0	.1	123	.4	12.2
-1	.0	.0	.1	1.3	6.4	.7	.1	.0	85	.5	6.2
-2	.0	.0	.1	2.8	7.8	.9	.0	.0	113	.5	11.0
-3	.0	.0	.2	3.2	3.2	.1	.0	.0	65	.5	6.1
-4	.0	.0	.1	3.2	3.7	.1	.1	.0	70	.2	6.9
-5	.0	.0	.8	3.2	1.7	.5	.0	.0	61	.2	6.0
-6	.0	.0	.7	1.5	.9	.1	.0	.0	32	.0	3.3
-7/-8	.0	.2	1.1	1.9	1.2	.2	.0	.0	46	.2	4.5
-9/-10	.1	.3	1.3	1.0	.9	.1	.0	.0	37	.0	3.8
-11/-13	.1	.9	1.2	.3	.3	.0	.0	.0	28	.0	2.9
-14/-16	.1	.3	.3	.0	.0	.0	.0	.0	7	.1	.6
TOTAL	3	17	60	205	491	167	26	10	979	55	924
PCT	.3	1.7	6.1	20.9	50.2	17.1	2.7	1.0	100.0	5.6	94.4

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

APRIL

TABLE 18

AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	N					TOTAL	NE					TOTAL
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.2	.9	.0	.0	.0	.5	.2	.2	.0	.0	.0	.2
1-2	.0	1.9	.0	.0	.0	.8	.2	.7	.9	.0	.0	.8
3-4	.0	.7	2.1	.0	.0	12	.0	.7	.7	.9	.0	10
5-6	.0	.0	.5	.7	.0	5	.0	.2	.2	.0	.0	3
7	.0	.0	.7	.2	.0	4	.0	.0	.2	.0	.0	2
8-9	.0	.1	.2	.9	.0	5	.0	.0	.2	.5	.0	3
10-11	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	1
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
TOTAL	1	15	15	9	1	41	2	8	9	7	3	29
PCT	.2	3.5	3.5	2.1	.2	9.6	.5	1.9	2.1	1.6	.7	6.8

HGT	E					TOTAL	SE					TOTAL
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47	
<1	.0	.9	.0	.0	.0	.4	.0	.2	.0	.0	.0	.5
1-2	.0	.9	.2	.0	.0	5	.0	.7	.5	.0	.0	11
3-4	.0	.5	2.1	.0	.0	11	.0	1.2	.9	.5	.0	15
5-6	.0	.0	1.4	.0	.0	6	.0	.2	1.9	1.4	.0	15
7	.0	.0	.2	.2	.0	2	.0	.0	.5	.2	.0	5
8-9	.0	.0	.0	.0	.2	1	.2	.2	.5	.2	.0	6
10-11	.0	.0	.0	.0	.0	1	.0	.5	.0	.9	.0	6
12	.0	.0	.0	.0	.0	0	.0	.0	.2	.2	.0	2
13-16	.0	.0	.0	.7	.0	3	.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
TOTAL	0	10	17	5	1	33	1	13	18	16	3	51
PCT	.0	2.3	4.0	1.2	.2	7.7	.2	3.0	4.2	3.7	.7	11.9

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

APRIL  
TABLE 18

AREA 0007 UNIMAK  
53N-COAST 157-165W

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

HGT	S					SW					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.5	.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	5
1-2	.0	.7	.7	.0	.0	.0	1.9	1.2	.0	.0	.0	13
3-4	.0	1.9	2.3	.7	.0	.0	1.7	2.6	.7	.0	.0	17
5-6	.0	.5	1.4	1.2	.0	.0	.2	1.6	.5	.0	.0	10
7	.0	.0	1.6	.5	.7	.0	.2	1.2	.5	.5	.0	10
8-9	.0	.0	.7	.0	.0	.0	.0	.0	.5	.2	.0	3
10-11	.0	.0	.0	.2	.5	.0	.0	.9	.5	.0	.0	6
12	.0	.0	.2	.5	.0	.0	.0	.0	.2	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	2
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
TOTAL	2	14	30	13	5	0	18	32	14	3	0	67
PCT	.5	3.3	7.0	3.0	1.2	.0	4.2	7.5	3.3	.7	.0	15.7

HGT	W					NW					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.0	.9	.0	.0	.0	.2	.2	.0	.0	.0	.0	2
1-2	.2	1.4	.9	.0	.0	.2	1.2	.5	.0	.0	.0	8
3-4	.0	.7	2.6	.9	.0	.0	.7	2.1	.5	.0	.0	14
5-6	.0	.5	3.3	2.1	.0	.0	.0	.7	.2	.5	.0	6
7	.0	.5	.5	.9	.0	.0	.2	1.2	.2	.7	.0	8
8-9	.0	.2	1.2	1.6	.0	.0	.2	.5	.5	.7	.0	8
10-11	.0	.0	.2	.5	.0	.0	.0	.2	.7	.2	.0	5
12	.0	.0	.0	.2	.0	.0	.0	.0	.5	.0	.0	2
13-16	.0	.0	.0	.0	.2	.0	.0	.5	.2	.2	.0	4
17-19	.0	.0	.0	.5	.0	.0	.0	.0	.2	.0	.0	3
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
TOTAL	1	18	37	29	1	2	11	24	12	8	0	57
PCT	.2	4.2	8.6	6.8	.2	.5	2.6	5.6	2.8	1.9	.0	13.3

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

APRIL

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL DBS
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+	
<1	5.6	4.7	.0	.0	.0	.0	.0	.0	.0	.0	46
1-2	.7	8.9	4.7	4.0	.0	.0	.0	.0	.0	.0	64
3-4	.2	6.7	14.7	4.0	.0	.0	.0	.0	.0	.0	115
5-6	.0	1.6	10.5	6.0	.4	.0	.0	.0	.0	.0	83
7	.0	.9	5.8	3.1	1.6	.0	.0	.0	.0	.0	51
8-9	.2	.7	2.9	4.0	1.6	.0	.0	.0	.0	.0	42
10-11	.0	.4	1.3	2.9	.9	.0	.0	.0	.0	.0	25
12	.0	.0	.2	1.6	.4	.0	.0	.0	.0	.0	10
13-16	.0	.0	.7	1.3	.7	.0	.0	.0	.0	.0	11
17-19	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2
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
TOTAL	30	107	182	105	25	.0	.0	.0	.0	.0	449
PCT	6.7	23.8	40.5	23.4	5.6	.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)																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	2.3	7.4	12.0	8.3	3.8	2.7	1.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	4
6-7	.0	.9	4.5	4.1	3.9	5.2	2.7	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	6
8-9	.0	1.1	.4	3.2	2.9	2.3	2.5	.9	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	7
10-11	.0	.0	.5	1.8	2.0	.5	.9	.5	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	8
12-13	.0	.0	.0	.0	.5	.7	1.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	9
>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	12.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	0
TOTAL	85	52	97	97	73	64	47	16	21	5	0	0	0	0	0	0	0	0	0	0	0	557	0
PCT	15.3	9.3	17.4	17.4	13.1	11.5	8.4	2.9	3.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5

MAY

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1909-1969

AREA 0007 UNIMAK  
53N-CDAST 157-165W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				FRZG PCPN	SNOW	OTHR PCPN					FOG	SMOKE	HAZE	DUST	BLWG		DUST	SIG
N	.1	.1	.3	.0	.1	.0	.0	.5	8	.0	.4	.1	.0	.0	.0	.0	4.8	89
NNE	.5	.0	.1	.0	.0	.0	.0	.6	9	.0	.3	.0	.0	.0	.0	.0	2.4	49
NE	.3	.0	.4	.0	.1	.0	.0	.8	12	.0	.8	.0	.0	.0	.0	.0	4.0	85
ENE	.5	.0	.6	.0	.1	.0	.0	1.0	16	.0	.5	.0	.1	.0	.0	.0	2.9	68
E	1.0	.1	1.0	.0	.2	.0	.0	2.1	32	.0	1.2	.0	.0	.0	.0	.0	4.6	121
ESE	.3	.0	.6	.0	.0	.0	.0	.9	14	.0	.2	.1	.0	.0	.0	.0	2.1	50
SE	1.8	.0	.5	.0	.0	.0	.0	2.2	34	.0	1.2	.1	.0	.0	.0	.0	3.8	112
SSE	.7	.0	.7	.0	.1	.0	.0	1.4	21	.0	.7	.0	.0	.0	.0	.0	2.5	69
S	1.0	.1	.5	.0	.0	.0	.0	1.6	24	.0	.9	.0	.0	.0	.0	.0	4.9	113
SSW	.2	.0	.1	.0	.0	.0	.0	.3	5	.0	.5	.1	.0	.0	.0	.0	3.0	60
SW	.5	.1	.3	.0	.0	.0	.0	.7	10	.0	.3	.1	.0	.0	.0	.0	5.4	100
WSW	.1	.0	.2	.0	.0	.0	.0	.4	6	.0	.2	.0	.0	.0	.0	.0	4.7	81
W	.2	.1	.6	.0	.1	.0	.0	.9	13	.0	.3	.0	.0	.0	.0	.0	9.5	163
WNW	.1	.0	.1	.0	.0	.0	.0	.3	4	.0	.1	.0	.0	.0	.0	.0	5.1	84
NW	.1	.0	.4	.0	.0	.0	.0	.5	7	.0	.1	.1	.0	.0	.0	.0	8.1	135
NNW	.4	.0	.1	.0	.1	.0	.0	.5	8	.0	.1	.0	.0	.0	.0	.0	5.1	87
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	.3	.1	.0	.0	.0	.0	3.7	63
TOT OBS	117	6	96	0	12	0	0	14.6	223	0	122	10	1	1173	1	1173	1529	63
TOT PCT	7.7	.4	6.3	.0	.8	.0	.0	14.6	223	.0	8.0	.7	.1	76.7	.1	76.7	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				FRZG PCPN	SNOW	OTHR PCPN					FOG	SMOKE	HAZE	DUST	BLWG		DUST	SIG
00003	7.9	.5	5.3	.0	1.0	.0	.0	13.9	58	.0	7.5	1.2	.0	.0	.0	.0	77.4	416
06009	6.8	.5	6.8	.0	.5	.0	.0	14.0	54	.0	8.6	.3	.0	.0	.0	.0	77.1	385
12015	6.5	.3	6.7	.0	.5	.0	.0	13.7	51	.0	6.2	.3	.0	.0	.0	.0	79.8	371
18021	9.4	.3	6.0	.0	1.3	.0	.0	16.4	63	.0	9.4	.8	.3	.0	.0	.0	73.1	383
TOT	119	6	96	0	13	0	0	14.5	226	0	123	10	1	1195	1	1195	1555	1555
PCT	7.7	.4	6.2	.0	.8	.0	.0	14.5	226	.0	7.9	.6	.1	.0	.0	.0	76.8	100.0

MAY

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1909-1969

AREA 0007 UNIMAK  
52N-COAST 157-165W

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	.5	1.8	2.6	.7	.2	.0	100	5.8	14.0	5.5	7.1	4.8	8.7	5.8	8.7	6.5	9.1
NNE	.2	1.5	.9	.6	.1	.0	57	3.3	13.3	3.4	10.7	4.3	4.3	2.2	8.7	2.2	4.5
NE	.5	2.0	1.9	1.3	.0	.1	99	5.8	14.2	4.5	7.1	7.3	4.3	4.1	.0	7.2	6.8
ENE	.4	1.3	2.0	.6	.1	.0	74	4.3	14.1	5.0	3.6	4.0	.0	5.2	.0	3.2	6.8
E	.5	2.6	2.6	1.6	.2	.1	129	7.5	15.3	8.6	.0	7.6	.0	7.2	4.3	8.2	2.3
ESE	.4	1.3	1.0	.3	.0	.0	53	3.1	12.1	3.0	.0	3.8	.0	2.5	4.3	3.5	2.3
SE	.3	1.6	3.5	1.2	.4	.0	121	7.0	16.4	7.5	.0	6.8	4.3	7.2	4.3	7.2	9.1
SSE	.2	1.3	2.1	.8	.2	.0	79	4.6	15.8	6.1	.0	5.1	.0	3.9	.0	3.7	6.8
S	.3	2.3	2.8	1.8	.2	.1	128	7.5	16.1	8.4	10.7	7.3	4.3	6.4	.0	8.5	2.3
SSW	.1	1.4	1.9	.6	.0	.0	70	4.1	13.8	5.0	3.6	3.3	8.7	4.1	.0	3.5	6.8
SW	.2	2.1	3.4	1.0	.3	.0	120	7.0	15.8	5.2	.0	7.6	8.7	6.9	8.7	8.7	6.8
WSW	.1	2.0	2.4	1.1	.1	.1	99	5.8	15.4	4.3	7.1	4.0	13.0	8.0	13.0	5.7	9.1
W	.5	3.4	4.3	1.6	.5	.1	177	10.3	15.7	11.1	10.7	11.1	4.3	9.9	13.0	9.7	4.5
WNW	.3	1.2	2.4	1.4	.3	.0	96	5.6	17.6	5.5	14.3	4.8	13.0	5.5	8.7	4.7	6.8
NW	.4	2.1	4.2	1.8	.3	.0	152	8.8	16.4	8.0	21.4	9.3	17.4	8.0	17.4	8.5	6.8
NNW	.2	1.8	3.0	.6	.1	.0	97	5.6	14.2	5.2	.0	6.1	8.7	5.5	8.7	5.7	6.8
VAR	.9	.0	.0	.0	.0	.0	67	.0	.0	3.2	3.6	.0	.0	.0	.0	.0	.0
CALM	3.9	507	704	295	51	6	1718	3.9	14.7	440	28	396	23	362	23	402	44
TOT OBS	155	9.0	29.5	41.0	17.2	3.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
TOT PCT	9.0	29.5	41.0	17.2	3.0	.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)										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	2.0	4.4	2.0	.7	.1	157	9.1	13.7	8.9	17.9	9.1	13.0	8.0	17.4	8.7	13.6
NE	2.4	3.7	3.3	.6	.1	173	10.1	14.2	9.5	10.7	11.4	4.3	9.4	.0	10.4	13.6
E	2.4	4.2	3.0	.7	.2	182	10.6	14.3	11.6	.0	11.4	.0	9.7	8.7	11.7	4.5
SE	1.9	4.9	3.6	1.2	.1	200	11.6	16.1	13.6	.0	11.9	4.3	11.0	4.3	10.9	15.9
S	1.8	5.4	3.6	.6	.1	198	11.5	15.3	13.4	14.3	10.6	13.0	10.5	.0	11.9	9.1
SW	1.6	6.3	3.4	1.4	.1	219	12.7	15.6	9.5	7.1	11.6	21.7	14.9	21.7	14.4	15.9
W	2.4	6.7	4.9	1.6	.3	273	15.9	16.4	17.0	25.0	15.9	17.4	15.5	21.7	14.4	11.4
NW	1.7	7.0	4.6	1.1	.0	249	14.5	15.6	13.2	21.4	15.4	26.1	13.5	26.1	14.2	13.6
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9	733	488	136	14	1718	3.9	14.7	3.2	3.6	2.8	.0	7.5	.0	3.2	2.3
TOT OBS	347	20.2	42.7	28.4	7.9	100.0	100.0	100.0	440	28	396	23	362	23	402	44
TOT PCT	20.2	42.7	28.4	7.9	.8	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) 1953-1969  
(OVER-ALL) 1909-1969

AREA 0007 UNIMAK  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							PCT TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN	FREQ	OBS
00003	5.1	28.6	39.7	18.8	3.8	.6	3.2	15.2	100.0	468
06009	4.8	34.6	42.7	13.6	1.4	.2	2.6	14.0	100.0	419
12015	6.0	26.8	39.2	17.7	2.9	.5	7.7	14.3	100.0	385
18021	4.7	28.0	42.2	18.4	3.6	.0	7.1	15.1	100.0	446
TOT	88	507	704	295	51	6	7	14.7		1718
PCT	5.1	29.5	41.0	17.2	3.0	.3	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	73	44	72		
N	1.5	.7	1.1	2.0		73			5.1	
NNE	.7	.1	.7	1.7		44			6.1	
NE	.3	.7	1.4	2.9		72			6.6	
ENE	.2	.1	1.1	3.1		62			7.1	
E	.4	.1	1.0	6.0		103			7.3	
ESE	.0	.0	.7	2.4		43			7.7	
SE	.3	.1	.6	5.4		87			7.5	
SSE	.0	.0	.6	3.8		60			7.8	
S	.1	.1	1.5	4.9		89			7.5	
SSW	.2	.4	1.0	2.7		57			6.9	
SW	.2	.9	1.7	4.0		92			6.7	
WSW	.7	.8	1.5	2.6		77			6.1	
W	1.2	1.4	4.5	3.6		145			5.9	
WNW	1.2	1.2	2.0	1.6		81			5.1	
NW	1.5	1.5	4.2	2.4		131			5.5	
NNW	2.2	.9	1.9	1.2		84			4.2	
VAR	.0	.0	.0	.0		0			.0	
CALM	1.2	.7	1.3	1.0		56			4.6	
TOT OBS	163	133	364	696		1356			6.3	
TOT PCT	12.0	9.8	26.8	51.3		100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)											TOTAL OBS				
	000	149	150	209	300	599	600	999	1000	2000	3500		5000	6500	8000+	NH <5/8 ANY HGT
N	.2	.0	.0	.0	.1	.1	.7	.7	.4	.3	.1	.0	.0	.1	2.8	73
NNE	.1	.0	.0	.0	.1	.1	.9	.5	.2	.1	.0	.0	.0	.0	1.3	44
NE	.4	.3	.3	.3	.2	.7	1.5	.4	.4	.1	.1	.1	.0	.0	1.5	72
ENE	.6	.3	.3	.1	.1	.8	.9	.4	.9	.3	.1	.0	.0	.0	1.1	62
E	1.3	.1	.1	.0	.3	1.0	2.3	.9	.4	.0	.0	.0	.0	.0	1.4	103
ESE	.4	.0	.0	.0	.1	1.0	.6	.4	.4	.4	.0	.0	.0	.0	.4	43
SE	1.8	.1	.1	.0	.5	1.0	1.5	.4	.4	.1	.0	.0	.0	.0	.9	87
SSE	1.0	.1	.1	.0	.2	1.0	1.2	.7	.7	.0	.0	.0	.0	.0	.4	60
S	.8	.4	.4	.0	.4	.4	1.9	.4	1.3	.5	.1	.0	.0	.0	.7	89
SSW	.4	.0	.0	.0	.1	.6	1.5	.2	.2	.2	.0	.0	.0	.0	.0	57
SW	.4	.0	.0	.0	.7	1.5	1.3	.4	.4	.3	.1	.0	.0	.0	1.0	92
WSW	.4	.0	.0	.0	.2	.6	1.3	.7	.7	.5	.1	.0	.0	.0	1.9	77
W	.4	.2	.2	.0	.4	1.2	2.6	1.3	1.3	.3	.2	.0	.0	.0	4.1	145
WNW	.1	.0	.0	.0	.1	.4	1.6	.4	.4	.4	.1	.0	.0	.0	2.7	81
NW	.1	.1	.1	.0	.1	1.0	2.9	1.2	1.2	.1	.0	.0	.0	.0	4.1	131
NNW	.1	.0	.0	.0	.1	.6	1.0	.1	.1	.3	.0	.0	.0	.0	3.9	84
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.0	.0	.2	.2	.7	.7	.2	.3	.0	.0	.0	.0	2.2	56
TOT OBS	117	23	23	54	184	325	129	64	10	5	4	441	1356			
TOT PCT	8.6	1.7	1.7	4.0	13.6	24.0	9.5	4.7	.7	.4	.3	32.5	100.0			

PERIOD: (PRIMARY) 1953-1969  
(COVER-ALL) 1909-1969

MAY

AREA 0007 UNIMAK  
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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	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.4	.6	.7	.7	.7	.7	.7	.7
OR >5000	1.0	1.2	1.4	1.4	1.4	1.4	1.4	1.4
OR >3500	4.6	5.8	6.0	6.0	6.0	6.0	6.0	6.0
OR >2000	10.5	14.1	15.4	15.5	15.5	15.6	15.7	15.7
OR >1000	24.5	35.3	38.5	39.0	39.4	39.5	39.7	39.7
OR >600	31.1	47.3	51.6	52.4	52.9	52.9	53.2	53.2
OR >300	31.9	50.2	55.3	56.2	56.9	57.0	57.2	57.3
OR >150	32.4	51.3	56.7	57.8	58.5	58.6	58.8	58.9
OR > 0	32.8	52.9	60.7	63.5	65.0	66.1	67.2	67.5
TOTAL	450	727	893	872	893	908	923	927

TOTAL NUMBER OF OBS: 1373

PCT FREQ NH <5/8: 32.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	8.6	4.6	6.2	6.8	5.7	4.8	11.5	12.0	32.1	7.7
										1450

MAY

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1909-1969

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TABLE 8

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

VSBY (NM)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
ND PCP	.1	.1	.1	.2	.1	.4	.3	.4	.1	.2	.1	.1	.0	.1	.1	.0	.0	.1	39	2.6
TOTAL	1	1	3	2	4	7	4	6	2	3	1	2	0	1	2	0	2	43	2.8	
1/2<1	.0	.0	.2	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.8
ND PCP	.1	.0	.1	.1	.1	.2	.2	.2	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	19	1.2
TOTAL	1	0	4	3	4	5	3	4	2	1	1	1	0	0	1	0	0	31	2.0	
1<2	.1	.0	.0	.0	.2	.4	.1	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	22	1.4
ND PCP	.1	.0	.3	.1	.3	.5	.3	.2	.1	.1	.1	.0	.0	.1	.0	.0	.1	.1	36	2.4
TOTAL	4	0	4	2	8	13	7	6	2	3	3	0	0	1	0	0	1	58	3.8	
2<5	.1	.1	.1	.3	.5	.9	.5	.5	.1	.2	.1	.2	.0	.0	.1	.0	.0	.0	58	3.8
ND PCP	.3	.1	.3	.7	1.0	.3	.3	.4	.4	.6	.5	.3	.2	.3	.1	.0	.3	.3	96	6.3
TOTAL	6	4	5	14	23	8	18	13	8	12	9	7	3	4	2	0	5	154	10.1	
5<10	.3	.4	.2	.5	.7	.6	.6	.7	.1	.3	.1	.5	.2	.4	.4	.0	.0	.0	99	6.5
ND PCP	1.1	.5	.9	1.7	.7	1.9	.7	1.4	1.1	1.6	1.2	2.4	.9	1.6	.7	.0	.7	.304	19.9	
TOTAL	21	13	17	20	37	40	20	32	19	29	20	43	17	31	16	0	11	403	26.4	
10+	.0	.0	.3	.2	.5	.0	.1	.2	.0	.0	.1	.2	.1	.1	.1	.0	.0	.0	28	1.8
ND PCP	3.7	2.0	3.1	1.5	2.5	1.1	1.8	3.1	1.8	3.4	3.0	7.0	4.1	6.4	4.3	.0	2.9	808	53.0	
TOTAL	36	30	52	26	45	17	29	50	27	52	47	110	64	98	67	0	44	836	54.8	
TOTAL	89	48	85	67	121	49	112	69	111	100	81	163	84	135	88	0	63	1525	100.0	
PCT	5.8	3.1	5.6	4.4	7.9	3.2	7.3	4.5	7.3	6.6	5.3	10.7	5.5	8.9	5.8	.0	4.1	100.0		

MAY

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1909-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAK	CALM	TOTAL	PCT	
																						TOTAL
<1/2	0-3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4	.2	
	4-10	.0	.1	.1	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.6
	11-21	.0	.0	.1	.1	.1	.1	.2	.2	.1	.1	.1	.1	.1	.0	.1	.1	.1	.0	.0	24	1.4
	22+	.0	.0	.1	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	6	.4
	TOTAL	1	1	3	2	4	2	7	5	6	2	3	1	2	0	1	2	0	0	44	2.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.1	.0	.0	.1	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	9	.5
	11-21	.0	.0	.1	.1	.1	.0	.2	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	11	.6
	22+	.0	.0	.1	.1	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	11	.6
	TOTAL	1	0	4	3	4	1	5	3	4	2	1	1	1	0	0	1	0	0	31	1.8	
1<2	0-3	.0	.0	.1	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	9	.5
	4-10	.0	.0	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	16	.9
	11-21	.0	.0	.1	.1	.2	.1	.4	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	18	1.1
	22+	.2	.0	.1	.0	.3	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	1.2
	TOTAL	4	0	5	2	9	5	14	7	7	2	3	3	0	0	1	0	0	2	64	3.7	
2<5	0-3	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	9	.5
	4-10	.1	.1	.2	.1	.4	.1	.2	.2	.1	.2	.1	.0	.1	.0	.1	.0	.0	.0	.0	32	1.9
	11-21	.2	.1	.1	.5	.6	.3	.5	.2	.0	.1	.4	.1	.0	.0	.2	.1	.0	.0	.0	62	3.6
	22+	.0	.2	.1	.2	.3	.1	.4	.4	.7	.2	.4	.5	.3	.0	.0	.0	.0	.0	.0	60	3.5
	TOTAL	6	5	6	15	24	8	20	13	13	8	14	10	7	3	4	2	0	5	163	9.5	
5<10	0-3	.0	.1	.0	.0	.1	.1	.0	.1	.2	.1	.0	.0	.1	.1	.2	.0	.0	.0	.7	28	1.6
	4-10	.4	.2	.4	.4	.5	.6	.6	.1	.6	.2	.6	.5	.6	.2	.5	.4	.4	.0	.0	118	6.9
	11-21	.6	.3	.4	.6	.9	.2	1.3	.8	.9	.7	.7	.4	1.3	.4	.6	.6	.4	.0	.0	182	10.6
	22+	.4	.2	.1	.2	.8	.1	.6	.3	.5	.2	.5	.8	.8	.5	.6	.2	.2	.0	.0	111	6.5
	TOTAL	25	13	18	20	40	17	43	23	37	25	31	22	48	19	32	16	0	12	439	25.6	
10+	0-3	.5	.2	.4	.4	.3	.3	.2	.1	.0	.1	.1	.1	.4	.2	.2	.2	.0	.0	2.7	105	6.1
	4-10	1.2	1.2	1.3	.6	1.5	.3	.5	.6	1.3	.8	1.3	1.5	2.6	1.0	1.5	1.4	.4	.0	.0	321	18.8
	11-21	1.7	.8	1.2	.7	.6	.4	.8	.8	1.6	.9	2.2	1.8	2.9	1.9	3.4	2.3	.0	.0	.0	406	23.7
	22+	.3	.2	.8	.1	.4	.1	.2	.2	.5	.2	.4	.3	1.1	1.2	1.6	.5	.0	.0	.0	139	8.1
	TOTAL	63	37	63	31	48	19	31	28	59	33	68	62	119	74	114	76	0	46	971	56.7	
	TOTAL	100	56	99	73	129	52	120	79	126	70	120	99	177	96	152	97	0	67	1712	100.0	
	PCT	5.8	3.3	5.8	4.3	7.5	3.0	7.0	4.6	7.4	4.1	7.0	5.8	10.3	5.6	8.9	5.7	.0	3.9	100.0		

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1909-1969

MAY

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				DBS
00003	7.2	1.5	2.6	11.5	23.3	10.8	5.9	1.0	.8	.3	64.9	35.1	390
06009	6.9	2.0	4.9	15.6	23.4	8.1	4.6	.3	.3	.0	66.2	33.8	346
12015	11.6	1.9	5.1	12.9	23.2	10.3	5.5	1.0	.3	.0	71.7	28.3	311
18021	9.0	1.2	3.8	13.6	25.2	8.7	2.6	.6	.0	.9	65.5	34.5	345
TOT	119	23	56	186	331	132	65	10	5	4	931	461	1392
PCT	8.5	1.7	4.0	13.4	23.8	9.5	4.7	.7	.4	.3	66.9	33.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							DBS
00003	1.8	1.1	2.9	7.7	22.4	64.1	379
06009	2.6	2.0	1.7	6.6	25.7	61.3	346
12015	3.6	2.6	2.9	9.8	31.0	50.0	306
18021	2.6	1.2	3.8	9.4	20.5	62.6	342
TOT	36	23	39	114	339	822	1373
PCT	2.6	1.7	2.8	8.3	24.7	59.9	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	DBS
00003	7.4	11.9	28.8	38.5	32.7	379
06009	7.2	15.0	32.4	34.1	33.5	346
12015	12.1	20.6	37.9	35.3	26.8	306
18021	8.8	15.2	34.2	33.0	32.7	342
TOT	120	212	454	485	434	1373
PCT	8.7	15.4	33.1	35.3	31.6	100.0

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1909-1969

MAY

AREA 0007 UNIMAK  
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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				
55/59	.0	.0	.1	.1	.1	.2	.1	.0	.0	.0	7	.6
50/54	.0	.1	.0	.0	1.0	1.0	.7	.7	.7	.0	41	3.3
45/49	.0	.1	.2	.4	2.0	6.5	7.3	5.0	5.0	.0	264	21.5
40/44	.0	.0	.2	.6	3.0	8.3	15.9	27.7	27.7	.0	684	55.7
35/39	.0	.0	.0	.2	1.6	2.4	4.9	9.2	9.2	.0	225	18.3
30/34	.0	.0	.0	.0	.2	.2	.2	.1	.1	.0	8	.7
TOTAL	.0	.1	.6	1.6	9.7	22.8	35.8	52.3	52.3	.0	1229	100.0
PCT	.0	.1	.5	1.3	7.9	18.6	29.1	42.6	42.6	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.1	.2	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
.5	.6	.6	.1	.2	.3	.2	.3	.0	.0	.0	.0	.6
2.0	2.3	2.5	2.4	3.4	2.4	2.3	2.7	.0	.0	.0	.0	1.5
4.3	6.4	6.3	8.0	7.6	8.1	7.3	5.7	.0	.0	.0	.0	2.0
1.6	1.5	1.1	1.1	1.4	2.4	3.7	5.3	.0	.0	.0	.0	.2
.1	.1	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0
105	137	130	142	155	163	168	178	0	0	0	0	51
8.5	11.1	10.6	11.6	12.6	13.3	13.7	14.5	.0	.0	.0	.0	4.1

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL		
00003	57	55	51	43	37	31	28	43.5	462	462	
06009	52	51	49	42	37	30	27	42.0	423	423	
12015	53	46	45	41	35	30	28	40.5	389	389	
18021	54	52	47	42	36	32	30	41.9	447	447	
TOT	57	52	49	42	36	31	27	42.0	1721	1721	

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
00003	.0	3.0	11.0	24.4	27.4	34.2	83	83	336	336	
06009	.0	2.6	9.9	17.4	23.7	46.4	85	85	304	304	
12015	.0	1.1	4.8	15.4	32.4	46.3	86	86	272	272	
18021	.0	.6	5.6	16.1	33.1	44.6	86	86	323	323	
TOT	0	23	98	229	359	526	85	85	1235	1235	

PERIOD: (PRIMARY) 1953-1969  
 (OVER-ALL) 1909-1969

MAY

AREA 0007 UNIMAK  
 53N-COAST 157-165W

TABLE 17

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

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.2	.4	11	.2	.6
9/10	.0	.0	.0	.0	.0	.3	.8	.1	16	.1	1.0
7/8	.0	.0	.0	.1	.1	1.3	1.2	.0	37	.1	2.7
6	.0	.0	.0	.0	.3	1.6	.3	.1	31	.2	2.1
5	.0	.0	.0	.1	1.2	3.1	.2	.0	63	.1	4.6
4	.0	.0	.0	.2	2.5	2.7	.3	.0	77	.5	5.2
3	.0	.0	.0	.3	3.7	2.6	.1	.0	89	1.0	5.7
2	.0	.0	.0	1.7	6.4	2.5	.0	.0	141	1.1	9.4
1	.0	.0	.1	1.5	6.2	1.5	.1	.0	125	.5	8.8
0	.0	.1	.1	4.5	9.2	1.2	.0	.0	201	1.1	13.9
-1	.0	.0	.0	4.2	4.6	.4	.1	.1	125	.4	8.9
-2	.0	.1	.2	5.0	4.0	.2	.0	.0	129	.6	9.0
-3	.0	.0	.8	3.1	2.3	.3	.1	.0	89	.1	6.5
-4	.0	.0	.9	2.7	1.2	.1	.0	.0	65	.3	4.6
-5	.1	.0	.7	2.0	.7	.0	.0	.0	48	.3	3.3
-6	.0	.1	.4	1.0	.7	.0	.0	.0	32	.2	2.2
-7/-8	.1	.4	.4	1.0	.4	.1	.0	.0	31	.3	2.0
-9/-10	.1	.1	.2	.1	.4	.1	.0	.0	15	.1	1.0
-11/-13	.0	.3	.1	.3	.1	.0	.0	.0	10	.0	.7
-14/-16	.1	.0	.0	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	5	16	53	375	591	243	45	10	1338	100	1238
PCT	.4	1.2	4.0	28.0	44.2	18.2	3.4	.7	100.0	7.5	92.5

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969

MAY

TABLE 18

AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	N										NE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+								
<1	.2	.4	.0	.0	.0	.0	3	.4	.9	.0	.0	.0	.0	6							
1-2	.0	1.1	.2	.0	.0	.0	6	.2	.9	1.5	.0	.0	.0	12							
3-4	.2	.6	.9	.4	.0	.0	10	.0	.6	1.3	.6	.0	.0	12							
5-6	.0	.4	2.6	.2	.2	.0	16	.0	.4	1.3	.6	.0	.0	11							
7	.0	.2	.6	.2	.0	.0	5	.0	.0	.0	.2	.0	.0	1							
8-9	.0	.0	.0	.2	.2	.0	2	.0	.0	.0	.2	.0	.0	1							
10-11	.0	.0	.2	.0	.2	.0	2	.0	.0	.0	.0	.0	.0	0							
12	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.2	.0	.0	1							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.2	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	2	13	21	5	4	0	45	3	13	19	9	0	1	45							
PCT	.4	2.8	4.5	1.1	.9	.0	9.7	.6	2.8	4.1	1.9	.0	.2	9.7							

HGT	E										SE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+								
<1	.0	.2	.0	.0	.0	.0	1	.2	.6	.0	.0	.0	.0	4							
1-2	.0	2.6	.6	.0	.0	.0	15	.4	.9	.4	.0	.0	.0	8							
3-4	.0	.6	1.5	.2	.0	.0	11	.0	.6	1.5	.2	.0	.0	11							
5-6	.0	.2	.9	.2	.0	.0	6	.0	.0	.6	.4	.0	.0	5							
7	.0	.2	.9	.4	.0	.0	7	.0	.0	.2	.2	.0	.0	2							
8-9	.0	.0	.0	.4	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.4	.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	.4	.0	.0	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.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							
TOTAL	0	18	18	7	0	0	43	3	10	13	8	1	0	35							
PCT	.0	3.9	3.9	1.5	.0	.0	9.3	.6	2.2	2.8	1.7	.2	.0	7.6							

PERIOD: (PRIMARY) MAY  
(OVER-ALL) 1963-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 18

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	1.1	.0	.0	.0	.0	5	.0	.6	.0	.0	.0	.0	3							
1-2	.0	.2	.2	.0	.0	.0	2	.2	1.5	.6	.0	.0	.0	11							
3-4	.0	.2	.9	.6	.0	.0	8	.0	1.1	1.1	.0	.0	.0	10							
5-6	.0	.4	.6	.4	.0	.0	7	.0	.4	2.6	.4	.0	.0	16							
7	.0	.0	.2	1.3	.0	.0	3	.0	.0	.9	.6	.0	.0	7							
8-9	.0	.0	.0	.4	.0	.2	4	.0	.0	.9	.0	.0	.0	6							
10-11	.0	.0	.0	.9	.0	.0	1	.0	.0	.2	.9	.0	.0	0							
12	.0	.0	.2	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.4	.0	.2	4							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	9	10	17	0	1	37	1	17	30	17	1	1	67							
PCT	.0	1.9	2.2	3.7	.0	.2	8.0	.2	3.7	6.5	3.7	.2	.2	14.5							

HGT	W										NW										TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL								
<1	.2	.4	.0	.0	.0	.0	3	.4	1.3	.0	.0	.0	.0	8	33							
1-2	.4	1.1	1.9	.0	.0	.0	16	.4	2.7	2.2	.0	.0	.0	20	90							
3-4	.2	1.5	2.4	.4	.0	.0	21	.0	1.1	2.8	.4	.0	.0	20	103							
5-6	.0	.9	3.2	1.3	.4	.0	27	.0	.4	3.5	.4	.0	.0	20	108							
7	.0	.0	1.5	.9	.2	.0	12	.0	.0	1.3	.4	.0	.0	8	49							
8-9	.0	.0	.6	.2	.0	.0	4	.0	.0	.0	.0	.0	.0	0	19							
10-11	.0	.0	.2	1.5	.4	.0	10	.0	.0	.2	.9	.0	.0	5	30							
12	.0	.0	.0	.4	.2	.0	3	.0	.0	.0	.2	.4	.0	3	9							
13-16	.0	.0	.0	.0	.2	.0	3	.0	.0	.0	.2	.2	.0	2	12							
17-19	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0	5							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.2	.0	2	2							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	1							
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							
TOTAL	4	18	46	23	10	1	102	4	21	46	13	4	0	88	462							
PCT	.9	3.9	10.0	5.0	2.2	.2	22.1	.9	4.5	10.0	2.8	.9	.0	19.0	100.0							

PERIOD: (PRIMARY)  
(OVER-ALL: 1963-1969)

MAY

AREA 00G7 UYIMAK  
53N-COAST 157-165W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS	
	0-3	4-10	11-21	22-33	34-47	48+						
<1	4.5	5.5	.0	.0	.0	.0						48
1-2	1.7	9.6	7.5	.0	.0	.0						90
3-4	.4	6.3	11.9	2.9	.0	.0						103
5-6	.0	3.1	14.3	4.0	.6	.0						108
7	.0	.4	5.5	4.2	.2	.0						49
8-9	.0	.0	1.5	2.1	.2	.2						19
10-11	.0	.0	.8	4.6	.8	.0						30
12	.0	.0	.2	.8	.4	.0						9
13-16	.0	.0	.2	1.3	.4	.6						12
17-19	.0	.0	.0	.6	.4	.0						5
20-22	.0	.0	.0	.2	.2	.0						2
23-25	.0	.0	.0	.0	.2	.0						1
26-32	.0	.0	.0	.0	.2	.0						1
33-40	.0	.0	.0	.0	.0	.0						0
41-48	.0	.0	.0	.0	.0	.0						0
49-60	.0	.0	.0	.0	.0	.0						0
61-70	.0	.0	.0	.0	.0	.0						0
71-86	.0	.0	.0	.0	.0	.0						0
87+	.0	.0	.0	.0	.0	.0						0
TOTAL	32	119	203	99	20	4						477
PCT	6.7	24.9	42.6	20.8	4.2	.8						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	.8	10.5	12.9	7.6	3.5	1.4	.3	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	235	3			
6-7	.0	.8	5.8	9.3	3.1	1.8	3.4	.3	.5	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	6		
8-9	.0	.6	1.4	1.6	2.9	1.8	1.6	1.1	.6	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	8	
10-11	.0	.0	.2	1.0	1.0	.5	.3	.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8	
12-13	.0	.0	.5	.0	.3	.3	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8	
>13	.0	.0	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11	
INDET	15.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	0	
TOTAL	102	75	131	121	67	37	39	17	20	8	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	621	0	
PCT	16.4	12.1	21.1	19.5	10.8	6.0	6.3	2.7	3.2	1.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

JUNE

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1902-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS	
				FRZG PCPN	SNOW	UTHR FRZN PCPN					FOG	SMOKE	HAZE	DUST	BLWG	DUST		SIG
N	.7	.2	.2	.0	.0	.0	.0	1.1	14	.0	.1	.0	.0	.0	.0	.0	.0	64
NNE	.2	.0	.0	.0	.0	.0	.0	.2	2	.0	.2	.0	.0	.0	.0	.0	.0	25
NE	1.0	.0	.4	.0	.0	.0	.0	1.3	16	.0	.9	.0	.0	.0	.0	.0	.0	76
ENE	.7	.0	1.0	.0	.0	.0	.0	1.7	21	.0	.6	.0	.0	.0	.0	.0	.0	65
E	.8	.0	1.0	.0	.0	.0	.0	1.7	21	.0	3.0	.0	.0	.0	.0	.0	.0	141
ESE	.6	.0	.2	.0	.0	.0	.0	.7	9	.0	.9	.0	.0	.0	.0	.0	.0	55
SE	.3	.0	.9	.0	.0	.0	.0	1.2	15	.0	1.5	.2	.0	.0	.0	.0	.0	75
SSE	.5	.1	.6	.0	.0	.0	.0	1.0	13	.0	1.0	.0	.0	.0	.0	.0	.0	44
S	.2	.0	.8	.0	.0	.0	.0	1.0	12	.0	1.9	.3	.0	.0	.0	.0	.0	108
SSW	.4	.1	.2	.0	.0	.0	.0	.6	8	.0	.7	.0	.0	.0	.0	.0	.0	51
SW	.2	.0	.6	.0	.0	.0	.0	.8	10	.0	.6	.0	.0	.0	.0	.0	.0	80
WSW	.2	.0	.3	.0	.0	.0	.0	.5	6	.0	.2	.0	.0	.0	.0	.0	.0	57
W	.1	.0	.2	.0	.0	.0	.0	.2	2	.0	1.1	.1	.0	.0	.0	.0	.0	137
WNW	.1	.0	.2	.0	.0	.0	.0	.2	3	.0	.2	.0	.0	.0	.0	.0	.0	59
NW	.2	.0	.2	.0	.0	.0	.0	.4	5	.0	.2	.0	.0	.0	.0	.0	.0	82
NNW	.2	.0	.1	.0	.0	.0	.0	.3	4	.0	.2	.1	.0	.0	.0	.0	.0	60
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.2	.0	.0	.0	.0	.4	5	.0	.6	.0	.0	.0	.0	.0	.0	62
TOT OBS	80	4	88	0	0	0	0	.4	166	0	176	15	2	882	2	882	1241	1241
TOT PCT	6.4	.3	7.1	.0	.0	.0	.0	13.4	166	.0	14.2	1.2	.2	71.1	.2	71.1	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS	
				FRZG PCPN	SNOW	UTHR FRZN PCPN					FOG	SMOKE	HAZE	DUST	BLWG	DUST		SIG
00003	2.8	.3	4.7	.0	.0	.0	.0	7.2	23	.0	15.6	1.6	.0	.0	.0	.0	.0	321
06009	9.6	.0	5.1	.0	.0	.0	.0	14.4	48	.0	13.2	1.8	.3	.0	.0	.0	.0	334
12015	7.9	.7	8.2	.0	.0	.0	.0	16.8	47	.0	11.4	.4	.0	.0	.0	.0	.0	280
18021	5.8	.3	10.5	.0	.0	.0	.0	15.7	49	.0	16.9	1.0	.3	.0	.0	.0	.0	313
TOT	81	4	88	0	0	0	0	15.7	167	0	179	15	2	885	2	885	1248	1248
PCT	6.5	.3	7.1	.0	.0	.0	.0	13.4	167	.0	14.3	1.2	.2	70.9	.2	70.9	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1952-1969  
(COVER-ALL) 1902-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

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	00	03	06	09	12	15	18	21
N	.5	1.9	2.0	1.1	.1	.0	82	5.7	14.1	5.6	5.0	4.7	8.7	7.2	14.3	4.4	7.7
NNE	.3	.6	.8	.6	.0	.0	33	2.3	14.2	2.5	5.0	2.2	4.3	1.8	.0	2.1	5.1
NE	.7	1.6	2.8	1.4	.1	.0	95	6.6	15.6	5.6	15.0	6.6	8.7	6.1	14.3	6.2	10.3
ENE	.5	1.3	2.2	1.0	.1	.0	74	5.1	14.9	4.8	5.0	4.7	.0	6.5	.0	5.3	7.7
E	1.0	3.9	4.0	1.3	.3	.0	150	10.4	13.5	11.9	10.0	12.7	8.7	9.0	10.7	8.0	7.7
ESE	.1	1.2	2.3	.6	.1	.0	61	4.2	14.9	4.2	.0	4.2	.0	5.0	3.6	4.4	2.6
SE	.5	2.4	2.2	.8	.0	.0	85	5.9	12.6	5.9	.0	5.3	.0	6.1	7.1	7.1	.0
SSE	.3	1.4	1.7	.2	.0	.0	52	3.6	12.0	2.0	.0	3.0	4.3	5.4	7.1	4.1	5.1
S	.2	3.0	3.7	1.0	.1	.0	116	8.0	13.6	8.5	.0	9.4	.0	6.5	7.1	8.8	5.1
SSW	.2	1.4	1.3	.7	.1	.0	53	3.7	14.2	4.2	5.0	4.4	.0	3.6	.0	3.2	.0
SW	.5	1.9	2.8	.8	.5	.0	92	6.4	14.5	7.1	.0	9.4	.0	3.6	7.1	5.9	2.6
WSW	.3	1.5	1.9	.8	.1	.0	67	4.6	14.3	4.5	5.0	3.9	.0	4.3	3.6	5.3	12.8
W	.8	5.5	4.0	1.2	.5	.0	173	12.0	13.1	14.7	25.0	8.6	39.1	11.5	14.3	10.9	17.7
WNW	.3	1.8	2.1	.7	.1	.0	72	5.0	13.6	5.1	15.0	3.9	.0	5.0	3.6	5.9	5.1
NW	.3	2.5	2.6	1.0	.1	.0	94	6.5	14.0	6.5	5.0	5.3	4.3	7.9	.0	7.1	10.3
NNW	.6	2.1	1.9	.3	.3	.0	74	5.1	12.4	5.1	5.0	6.6	8.7	3.9	.0	5.3	.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9	492	555	193	34	0	70	4.9	.0	1.7	.0	4.4	13.0	6.8	7.1	5.9	10.3
TOT OBS	169	34.1	38.5	13.4	2.4	.0	1443	100.0	13.1	354	20	361	23	279	28	339	39
TOT PCT	11.7	24.8	23.1	9.3	1.8	.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 SPD	00	03	06	09	12	15	18	21
N	1.9	3.3	1.9	.9	.0	115	8.0	14.1	8.2	10.0	6.9	13.0	9.0	14.3	6.5	12.8
NE	2.3	4.0	4.8	.6	.1	169	11.7	15.3	10.5	20.0	11.4	8.7	12.5	14.3	11.5	17.9
E	3.0	7.3	2.9	1.3	.1	211	14.6	13.9	16.1	10.0	16.9	8.7	14.0	14.3	12.4	10.3
SE	2.2	4.8	2.4	.1	.0	137	9.5	12.4	7.9	.0	8.9	4.3	11.5	14.3	11.2	5.1
S	2.1	6.1	2.9	.6	.1	169	11.7	13.8	12.7	5.0	13.9	.0	10.0	7.1	12.1	5.1
SW	2.1	5.6	2.4	.9	.0	159	11.0	14.4	11.6	5.0	13.3	.0	7.9	10.7	11.2	15.4
W	3.5	9.3	2.8	1.4	.1	245	17.0	13.2	19.8	40.0	12.5	39.1	16.5	17.9	16.8	12.8
NW	2.9	5.1	3.0	.6	.0	168	11.6	13.3	11.6	10.0	11.9	13.0	11.8	.0	12.4	10.3
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9	655	333	93	4	70	4.9	.0	1.7	.0	4.4	13.0	6.8	7.1	5.9	10.3
TOT OBS	358	45.4	23.1	6.4	.3	1443	100.0	13.1	354	20	361	23	279	28	339	39
TOT PCT	24.8	45.4	23.1	6.4	.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1902-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)								TOTAL OBS	
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN		
00603	5.3	32.4	43.6	15.0	2.1	.0	1.6	14.0	100.0	374
06609	6.0	36.5	36.7	12.0	3.9	.0	4.9	13.2	100.0	384
12615	6.5	34.5	38.1	12.4	1.6	.0	6.8	12.6	100.0	307
18621	9.5	33.1	35.4	14.0	1.6	.0	6.3	12.6	100.0	378
TOT	99	492	555	193	34	0	70	13.1		1443
PCT	6.9	34.1	38.5	13.4	2.4	.0	4.9		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 & OBSCD	8 & OBS	9-10	11-21	22-33		
N	.6	1.0	1.4	1.7	1.7	5.7	50			
NNE	.2	.0	.8	1.0	1.0	6.5	22			
NE	.5	.2	.7	4.8	6.7	7.2	67			
ENE	.0	.3	.5	4.3	5.5	7.7	55			
E	.6	.4	1.6	8.3	11.7	7.3	117			
ESE	.1	.2	.1	3.6	4.3	7.6	43			
SE	.1	.3	.6	5.2	6.6	7.6	66			
SSE	.0	.0	.8	2.6	3.7	7.7	37			
S	.2	.3	1.7	6.4	9.2	7.5	92			
SSW	.3	.1	.5	3.2	4.4	7.2	44			
SW	.6	.2	1.9	3.7	7.0	6.7	70			
WSW	.4	.4	1.3	3.0	5.5	6.7	55			
W	1.8	.9	3.5	6.2	13.4	6.3	134			
WNW	.9	.7	1.7	2.2	6.0	5.7	60			
NW	1.1	1.1	2.2	2.4	7.4	5.6	74			
NNW	.5	.6	1.5	1.7	4.6	6.1	46			
VAR	.0	.0	.0	.0	0	.0	0			
CALM	.6	.7	1.5	2.0	5.3	5.9	53			
TOT OBS	90	80	280	675	1085	6.7				
TOT PCT	8.3	7.4	22.1	62.2	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)																TOTAL OBS	
	000	149	150	299	300	599	600	999	1000	2000	3499	4999	5000	6499	7999	8000+		ANY HGT
N	.1	.2	.2	.0	.0	.7	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	2.0	50
NNE	.1	.0	.0	.0	.1	.6	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.5	22
NE	1.0	.1	.1	.2	1.0	2.1	2.1	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.0	67
ENE	1.1	.1	.1	.7	1.0	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	55
E	2.9	.2	.8	.8	1.1	2.8	.8	.5	.8	.0	.0	.0	.0	.0	.0	.0	1.7	117
ESE	.7	.1	.1	.1	1.2	.7	.3	.1	.7	.0	.0	.0	.0	.0	.0	.0	.7	43
SE	1.4	.0	.4	.4	1.3	1.7	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	66
SSE	.5	.0	.1	.8	1.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	37
S	1.4	.1	.1	.7	1.4	1.8	1.9	.1	.9	.0	.0	.0	.0	.0	.0	.0	.9	92
SSW	.6	.0	.0	.1	1.0	.4	.4	.1	.4	.0	.0	.0	.0	.0	.0	.0	.8	44
SW	.4	.0	.0	.1	.8	2.1	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.8	70
WSW	.1	.1	.1	.4	.6	1.8	.5	.2	.5	.0	.0	.0	.0	.0	.0	.0	1.1	55
W	.7	.2	.4	.4	.7	3.1	1.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	4.5	134
WNW	.3	.0	.1	.1	.6	1.0	.7	.3	.3	.0	.0	.0	.0	.0	.0	.0	2.5	60
NW	.1	.0	.0	.5	.6	1.5	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	2.7	74
NNW	.3	.1	.1	.1	.8	.6	.6	.1	.6	.0	.0	.0	.0	.0	.0	.0	1.6	46
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.6	.1	.1	.1	.7	.6	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	1.6	53
TOT OBS	133	13	51	160	268	136	34	7	7	7	7	7	7	7	7	7	268	1085
TOT PCT	12.3	1.2	4.7	14.7	24.7	12.5	3.1	.6	.6	.6	.6	.6	.6	.6	.6	.6	24.7	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)	>10		>5		>2		>1		>1/2		>1/4		>50YD		>0	
	#	OR	#	OR	#	OR	#	OR	#	OR	#	OR	#	OR	#	OR
>6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>3500	4.2	5.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
>2000	12.2	16.5	17.5	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.9	17.9	17.9	17.9	17.9	17.9
>1000	27.2	37.3	41.4	42.2	42.2	42.4	42.4	42.4	42.4	42.6	42.6	42.6	42.6	42.6	42.6	42.6
>600	34.9	49.3	55.6	56.6	56.6	57.0	57.0	57.0	57.0	57.4	57.4	57.4	57.4	57.4	57.4	57.4
>300	37.0	53.1	60.0	61.4	61.4	61.7	61.7	61.7	61.7	62.1	62.1	62.1	62.1	62.1	62.1	62.1
>150	37.2	53.7	60.9	62.4	62.4	62.8	62.8	62.8	62.8	63.2	63.2	63.2	63.2	63.2	63.2	63.2
> 0	37.3	54.7	64.5	67.3	67.3	69.4	69.4	69.4	69.4	72.6	72.6	72.6	72.6	72.6	72.6	72.6
TOTAL	403	590	696	726	726	749	749	749	749	783	783	783	783	783	783	783

TOTAL NUMBER OF OBS: 1079

PCT FREQ NH <5/8: 25.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
4.8	3.9	5.8	6.0	4.0	4.0	4.5	9.2	10.0	40.8	10.9	11.5

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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 ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	PCP	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5	.4
	ND PCP	.1	.1	.2	.2	1.4	.4	.8	.5	.3	.2	.1	.1	.6	.1	.1	.1	.1	.0	.3	66	5.4
	TOTAL	1	1	3	3	17	6	11	6	4	2	1	1	7	1	1	1	1	0	5	71	5.8
1/2<1	PCP	.0	.0	.0	.1	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.4
	ND PCP	.0	.0	.1	.1	.4	.2	.2	.0	.5	.2	.1	.0	.2	.0	.1	.1	.1	.0	.0	25	2.0
	TOTAL	0	0	1	2	7	2	4	0	6	3	1	0	2	0	1	1	1	0	0	30	2.4
1<2	PCP	.2	.0	.0	.4	.2	.0	.2	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	15	1.2
	ND PCP	.0	.2	.4	.1	.2	.0	.0	.2	.2	.2	.1	.1	.2	.1	.1	.0	.0	.0	.2	29	2.4
	TOTAL	2	2	5	6	5	2	3	3	3	3	2	1	3	1	2	0	0	0	4	44	3.6
2<5	PCP	.0	.0	.4	.2	.7	.2	.2	.5	.7	.3	.2	.1	.2	.0	.2	.1	.0	.0	.1	51	4.1
	ND PCP	.2	.2	.2	.7	1.2	.5	.3	.2	1.3	.2	.7	.2	.5	.1	.1	.2	.2	.0	.2	85	6.9
	TOTAL	2	2	8	11	24	9	7	9	24	7	10	3	8	1	4	4	4	0	3	136	11.1
5<10	PCP	.8	.1	.6	.7	.3	.3	.5	.4	.2	.1	.5	.4	.0	.2	.0	.2	.0	.0	.2	66	5.4
	ND PCP	.7	.2	1.2	.6	2.7	.7	1.0	.6	2.0	.4	1.1	1.1	2.1	.5	.8	.6	.0	.0	.5	206	16.7
	TOTAL	18	4	22	16	37	13	18	12	26	6	20	19	26	8	10	9	9	0	6	272	22.1
10+	PCP	.2	.1	.2	.2	.3	.1	.1	.1	.1	.2	.2	.0	.0	.1	.1	.1	.0	.0	.0	24	2.0
	ND PCP	3.2	1.2	2.7	2.0	3.6	1.9	2.5	1.0	3.5	2.1	3.6	2.7	7.3	3.8	5.1	3.6	.0	.0	3.4	653	53.1
	TOTAL	41	16	36	26	48	24	32	13	44	29	46	33	90	48	64	45	45	0	42	677	55.0
TOTAL	PCT	64	25	75	64	138	54	74	43	107	50	80	57	136	59	82	60	0	62	1230	100.0	
		5.2	2.0	6.1	5.2	11.2	4.4	6.0	3.5	8.7	4.1	6.5	4.6	11.1	4.8	6.7	4.9	.0	5.0	100.0		

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.4	10	.7	
	4-10	.0	.1	.1	.1	.3	.2	.3	.0	.1	.0	.1	.0	.3	.0	.1	.0	.0	.0	23	1.6	
	11-21	.0	.0	.1	.1	.4	.1	.4	.1	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	31	2.2	
	22+	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	9	.6	
	TOTAL	1	1	4	3	17	6	11	6	5	2	1	1	7	1	1	1	0	5	73	5.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.1	
	4-10	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.1	.0	.1	.0	.0	.0	7	.5	
	11-21	.0	.0	.0	.1	.1	.1	.1	.0	.2	.1	.0	.0	.1	.0	.0	.1	.0	.0	19	1.3	
	22+	.0	.0	.0	.1	.0	.2	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	6	.4	
	TOTAL	0	0	1	3	7	3	4	0	6	3	1	0	2	0	1	2	0	0	33	2.3	
1<2	0-3	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.3	12	.8
	4-10	.0	.0	.1	.0	.3	.0	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	15	1.1	
	11-21	.0	.1	.1	.4	.1	.0	.0	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	17	1.2	
	22+	.0	.0	.1	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	6	.4	
	TOTAL	3	2	6	6	2	0	2	3	3	3	1	4	4	1	2	1	0	4	50	3.5	
2<5	0-3	.1	.0	.0	.1	.1	.0	.0	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	11	.8
	4-10	.1	.0	.1	.1	.1	.1	.2	.0	.4	.0	.1	.0	.1	.0	.1	.1	.0	.0	21	1.5	
	11-21	.1	.1	.4	.4	.6	.4	.3	.5	1.0	.3	.4	.1	.3	.1	.1	.1	.0	.0	71	5.0	
	22+	.0	.1	.4	.4	1.0	.3	.0	.1	.4	.2	.2	.1	.1	.0	.0	.1	.0	.0	46	3.3	
	TOTAL	4	2	11	13	25	10	7	10	26	7	10	4	8	1	4	4	0	3	149	10.5	
5<10	0-3	.1	.1	.2	.1	.4	.1	.2	.0	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	1.1	42	3.0
	4-10	.5	.1	.1	.4	1.2	.1	.6	.4	.6	.2	.2	.6	1.1	.4	.1	.2	.0	.0	96	6.8	
	11-21	.4	.1	.8	.5	.9	.6	.6	.4	.9	.1	.8	.5	.7	.1	.4	.4	.0	.0	117	8.3	
	22+	.6	.2	.6	.4	.3	.3	.2	.1	.4	.1	.4	.4	.3	.1	.1	.1	.0	.0	65	4.6	
	TOTAL	22	7	25	19	40	15	22	12	28	8	22	22	30	11	11	11	0	15	320	22.6	
10+	0-3	.1	.2	.4	.3	.3	.0	.3	.1	.1	.1	.3	.1	.6	.1	.1	.1	.0	.0	3.0	89	6.3
	4-10	1.4	.5	1.1	.8	1.9	.7	1.3	.8	1.6	1.0	1.4	.8	3.9	1.3	1.8	1.8	.0	.0	316	22.4	
	11-21	1.6	.5	1.4	.8	1.3	1.1	.9	.5	1.3	.6	1.6	1.2	2.5	1.8	2.1	1.4	.0	.0	289	20.5	
	22+	.6	.3	.4	.1	.2	.1	.1	.0	.2	.3	.6	.4	1.3	.6	.9	.4	.0	.0	94	6.7	
	TOTAL	52	21	47	29	52	26	38	20	46	29	55	37	116	54	70	53	0	43	788	55.8	
	TOTAL	82	33	94	73	147	60	84	51	114	52	92	65	167	68	89	72	0	70	1413	100.0	
	PCT	5.8	2.3	6.7	5.2	10.4	4.2	5.9	3.6	8.1	3.7	6.5	4.6	11.8	4.8	6.3	5.1	.0	5.0	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)	PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR										TOTAL NH <5/8 ANY HGT	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
00003	9.0	1.4	5.5	12.1	23.1	12.8	4.5	1.0	.7	1.0	71.0	29.0	290
06009	11.6	.0	4.1	15.0	23.9	14.0	2.4	.0	.3	.3	71.7	28.3	293
12015	14.1	2.1	5.6	14.1	26.9	10.3	1.7	.4	1.3	.9	77.4	22.6	234
18021	14.7	1.4	3.5	16.8	23.9	12.6	3.5	1.1	.4	.7	78.6	21.4	285
TOT	135	13	51	160	268	138	34	7	7	8	821	281	1102
PCT	12.3	1.2	4.6	14.5	24.3	12.5	3.1	.6	.6	.7	74.5	25.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+					
00003	3.9	1.8	3.2	9.9	15.6	65.6	282				
06009	6.6	1.7	4.2	5.9	18.3	63.3	289				
12015	5.2	2.2	2.2	12.2	26.1	52.2	230				
18021	6.5	2.9	2.2	12.6	20.1	53.8	278				
TOT	60	23	32	108	213	643	1079				
PCT	5.6	2.1	3.0	10.0	19.7	59.6	100.0				

TABLE 12

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

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR				TOTAL OBS
	<150 <50YD	<600 <1000 <5	1000+ AND 5+	NH <5/8	
00003	7.8	15.6	33.3	38.3	282
06009	11.4	15.9	34.6	37.7	289
12015	13.9	21.7	42.2	36.1	230
18021	14.0	20.9	42.8	37.1	278
TOT	126	198	410	403	1079
PCT	11.7	18.4	38.0	37.3	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
60/64	.0	.0	.0	.1	.1	.2	.0	.0	4	.4
55/59	.0	.0	.1	.0	.7	1.3	.5	.0	26	2.5
50/54	.0	.0	.0	.0	.9	3.7	8.6	2.2	159	15.5
45/49	.0	.0	.0	.0	.5	8.6	18.6	29.3	586	56.9
40/44	.0	.0	.0	.0	.2	1.7	6.4	16.2	252	24.5
35/39	.0	.0	.0	.0	.0	.1	.0	.1	2	.2
TOTAL	0	0	1	1	24	159	351	493	1029	100.0
PCT	.0	.0	.1	.1	2.3	15.5	34.1	47.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.0	.1	.1	.0	.0	.1	.1	.0	.0	.0
55/59	.2	.3	.4	.2	.2	.3	.5	.3	.0	.2
50/54	1.7	1.7	3.0	1.3	1.1	1.7	2.8	1.6	.0	.6
45/49	4.2	8.2	7.5	5.3	6.8	6.9	9.7	6.2	.0	2.1
40/44	2.1	2.5	4.2	2.3	3.1	3.1	3.3	2.9	.0	.9
35/39	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0
TOTAL	8.3	12.8	15.2	9.1	11.2	12.1	16.4	11.1	.0	3.8
PCT	8.3	12.8	15.2	9.1	11.2	12.1	16.4	11.1	.0	3.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	61	58	55	48	42	40	39	47.9	369
06009	61	55	52	46	41	40	38	46.6	381
12015	56	52	49	45	41	38	38	45.0	303
18021	60	58	52	46	41	39	37	46.1	374
TOT	61	57	53	46	41	39	37	46.5	1427

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
00003	.0	.4	4.0	20.7	38.5	36.4	86	275
06009	.0	.4	3.2	13.7	35.6	47.2	88	284
12015	.0	.0	.5	10.0	28.0	61.6	90	211
18021	.0	.0	1.2	16.2	32.8	49.8	88	259
TOT	0	2	24	159	351	493	88	1029

PERIOD: (PRIMARY) 1952-1969  
(OVER-ALL) 1902-1969

JUNE

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 17

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

AIR-SEA TMP DIF	37	41	45	49	53	57	61	TOT	M	WD
	40	44	48	52	56	60	64		FOG	FOG
14/16	.0	.0	.0	.0	.1	.1	.0	2	.0	.2
11/13	.0	.1	.1	.0	.4	.0	.2	8	.1	.6
9/10	.0	.2	.1	.6	.9	.2	.0	21	.0	1.9
7/8	.0	.0	.9	1.2	.7	.1	.0	32	.6	2.4
6	.0	.0	.2	1.0	.5	.1	.0	19	.3	1.5
5	.0	.6	2.2	2.2	.4	.1	.0	60	.6	4.9
4	.0	.6	4.0	2.6	.2	.0	.0	80	1.4	6.0
3	.0	1.2	4.3	2.0	.3	.0	.0	84	.7	7.0
2	.0	2.2	7.5	2.1	.1	.0	.0	129	1.9	10.0
1	.4	3.1	8.4	1.5	.0	.0	.0	145	1.9	11.5
0	.4	3.7	9.3	1.7	.0	.0	.0	163	2.2	12.8
-1	.1	2.3	5.9	.6	.0	.0	.0	97	1.2	7.8
-2	.1	4.2	3.9	.3	.0	.0	.0	91	1.2	7.2
-3	.3	2.5	2.0	.0	.0	.0	.0	52	.6	4.3
-4	.3	1.7	1.9	.0	.0	.0	.0	42	.4	3.5
-5	.3	1.5	1.0	.0	.0	.0	.0	30	.4	2.4
-6	.2	.6	.4	.0	.0	.0	.0	12	.2	.9
-7/-8	.2	.3	.2	.1	.0	.0	.0	8	.2	.6
-9/-10	.0	.1	.3	.0	.0	.0	.0	4	.0	.4
-11/-13	.0	.1	.2	.0	.0	.0	.0	3	.1	.2
TOTAL	23	270	571	172	38	6	2	1082	151	931
PCT	2.1	25.0	52.8	15.9	3.5	.6	.2	100.0	14.0	86.0

JUNE  
 TABLE 18  
 PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	N				NE				48+	TOTAL		
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21			22-33	34-47
<1	.2	.4	.0	.0	.0	.4	.9	.0	.0	.0	.0	.6
1-2	.0	.7	.4	.0	.0	.0	.9	.9	.0	.0	.0	.8
3-4	.0	.0	1.1	.0	.0	.2	.9	2.2	.7	.0	.0	1.8
5-6	.0	.0	.2	.2	.0	.0	.2	1.1	.7	.0	.0	.9
7	.0	.0	.2	.4	.0	.0	.0	.0	1.1	.0	.0	.5
8-9	.0	.0	.2	.0	.0	.0	.0	.7	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.3
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
TOTAL	1	5	10	3	0	3	13	22	16	0	0	54
PCT	.2	1.1	2.2	.7	.0	.7	2.8	4.8	3.5	.0	.0	11.7

HGT	E				SE				48+	TOTAL		
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21			22-33	34-47
<1	.4	.7	.0	.0	.0	.2	.7	.0	.0	.0	.0	.4
1-2	.2	3.3	3.3	.0	.0	.0	1.7	1.7	.0	.0	.0	1.6
3-4	.0	.4	3.9	.4	.0	.2	.7	2.4	.2	.0	.0	1.6
5-6	.0	.9	1.7	.9	.0	.0	.2	1.3	.0	.0	.0	.7
7	.0	.0	1.1	1.1	.0	.0	.0	.4	.2	.0	.0	.3
8-9	.0	.0	.2	.7	.0	.0	.0	.0	.2	.0	.0	.1
10-11	.0	.0	.2	.2	.0	.0	.0	.0	.2	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.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
TOTAL	3	24	48	17	0	2	15	27	4	0	0	48
PCT	.7	5.2	10.4	3.7	.0	.4	3.3	5.9	.9	.0	.0	10.4

PERIOD: (PRIMARY) JUNE AREA 0007 UNIMAK  
(OVER-ALL) 1963-1969 53N-COAST 157-165W

TABLE 18

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

HGT	S										TOTAL	48+	TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47	48+	TOTAL
<1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.3	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.0	.0	.0	.0	.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
TOTAL	.0	24	32	7	0	0	63	31	17	8	58	.0	.0	.0	.0	.0
PCT	.0	5.2	7.0	1.5	.0	.0	13.7	6.7	3.7	1.7	12.6	.0	.0	.0	.0	.0

HGT	NW										TOTAL	48+	TOTAL	GRAND TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33					34-47	48+
<1	.9	1.3	.0	.0	.0	.0	10	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.5	2.4	.0	.0	.0	27	.7	2.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.7	2.6	.2	.0	.0	21	2.4	.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.7	2.2	.0	.0	.0	13	.9	.4	.4	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.9	.2	.0	7	.7	.0	.7	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	2	.4	.0	.4	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	1	.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
TOTAL	.9	7.2	8.0	1.3	.2	.0	17.6	5.0	3.7	1.1	45	.0	.0	.0	.0	.0
PCT	.9	7.2	8.0	1.3	.2	.0	17.6	5.0	3.7	1.1	45	.0	.0	.0	.0	.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

JUNE

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	7.4	6.2	.0	.0	.0	.0	.0	.0	66
1-2	.8	14.6	12.1	.0	.0	.0	.0	.0	134
3-4	.4	6.4	16.8	1.6	.0	.0	.0	.0	123
5-6	.0	2.7	11.1	3.1	.0	.0	.0	.0	82
7	.0	.4	4.3	4.5	.2	.0	.0	.0	46
8-9	.0	.2	2.3	1.4	.0	.0	.0	.0	19
10-11	.0	.0	.4	1.4	.0	.0	.0	.0	9
12	.0	.0	.2	.4	.0	.0	.0	.0	3
13-16	.0	.0	.0	1.0	.0	.0	.0	.0	5
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
TOTAL	42	148	230	66	1	0	0	0	487
PCT	8.6	30.4	47.2	13.6	.2	.0	.0	.0	100.0

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT		
<6	1.7	13.1	12.8	7.1	2.4	1.2	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	228	3
6-7	.0	2.9	4.8	8.4	5.0	1.7	1.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	5
8-9	.0	.7	1.7	4.8	4.7	2.9	1.0	.3	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	6
10-11	.0	.0	.3	.7	.3	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
INDET	14.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	0
TOTAL	91	99	116	124	73	39	18	6	13	1	0	0	0	0	0	0	0	0	0	0	0	580	0
PCT	15.7	17.1	20.0	21.4	12.6	6.7	3.1	1.0	2.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

JULY

PERIOD: (PRIMARY) 1955-1969  
(OVER-ALL) 1910-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

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	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FGD MO	SMOKE	HAZE	DUST	BLWG		DUST
N	.0	.0	.2	.0	.0	.0	.0	.2	4	.0	.5	.0	.0	.0	.0	3.7	84
NNE	.1	.0	.2	.0	.0	.0	.0	.3	5	.0	.3	.1	.0	.0	.0	1.4	37
NE	.1	.0	.3	.0	.0	.0	.0	.4	7	.0	.6	.0	.0	.0	.0	2.3	61
ENE	.2	.0	.4	.0	.0	.0	.0	.5	10	.0	.5	.0	.0	.0	.0	1.6	50
E	.4	.1	.6	.0	.0	.0	.0	1.1	20	.0	1.1	.0	.0	.0	.0	2.7	92
ESE	.3	.1	.3	.0	.0	.0	.0	.6	12	.0	.7	.1	.0	.0	.0	1.4	45
SE	.4	.0	.4	.0	.0	.0	.0	.7	14	.0	.7	.1	.0	.0	.0	1.4	56
SSE	.6	.0	.8	.0	.0	.0	.0	1.4	26	.0	.7	.0	.0	.0	.0	1.4	66
S	1.3	.1	.9	.0	.0	.0	.0	2.2	42	.0	2.4	.2	.0	.0	.0	3.4	155
SSW	.4	.0	1.2	.0	.0	.0	.0	1.5	28	.0	1.8	.2	.0	.0	.0	3.4	130
SW	.6	.0	1.2	.0	.0	.0	.0	1.7	32	.0	2.8	.1	.0	.0	.0	6.0	200
WSW	.5	.0	.6	.0	.0	.0	.0	1.1	20	.0	2.4	.1	.0	.0	.0	7.0	200
W	.2	.2	.7	.0	.0	.0	.0	.9	18	.0	2.2	.0	.0	.0	.1	11.9	287
WNW	.1	.1	.3	.0	.0	.0	.0	.5	3	.0	.8	.1	.0	.0	.0	7.6	170
NW	.2	.2	.2	.0	.0	.0	.0	.5	10	.0	.4	.1	.0	.0	.0	5.2	119
NNW	.1	.1	.0	.0	.0	.0	.0	.1	2	.0	.5	.0	.0	.0	.0	3.1	70
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
CALM	.1	.0	.1	.0	.0	.0	.0	.2	3	.0	.7	.0	.0	.0	.0	3.2	77
TOT OBS	106	12	154	0	0	0	0	13.8	262	0	350	19	4	4	1264	1899	
TOT PCT	5.6	.6	8.1	.0	.0	.0	.0			.0	18.4	1.0	.2	.2	66.6	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	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					FGD MO	SMOKE	HAZE	DUST	BLWG		DUST
00003	5.0	1.2	5.0	.0	.0	.0	.0	11.2	54	.0	17.3	1.0	.0	.0	.0	70.5	481
06009	6.0	.2	6.9	.0	.0	.0	.0	12.7	61	.0	22.9	.8	.2	.2	.2	63.3	480
12015	6.4	.6	10.9	.0	.0	.0	.0	16.7	78	.0	14.8	.6	.4	.4	.4	67.4	466
18021	4.8	.4	9.6	.0	.0	.0	.0	14.4	69	.0	19.2	1.5	.2	.2	.2	64.8	480
TOT	106	12	154	0	0	0	0	13.7	262	0	354	19	4	4	1268	1907	
PCT	5.6	.6	8.1	.0	.0	.0	.0			.0	18.6	1.0	.2	.2	66.5	100.0	

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.3	2.2	2.0	.4	.0	.0	124	5.0	11.2	3.0	10.9	5.8	4.0	3.9	2.6	5.5	9.4								
NNE	.4	1.6	1.4	.3	.0	.0	82	3.3	12.0	3.9	5.9	3.0	2.0	2.4	8.7	2.6	1.6								
NE	.4	1.7	1.6	.3	.0	.0	101	4.0	11.4	3.4	5.9	2.4	10.1	3.5	8.7	3.8	6.3								
ENE	.2	1.1	1.4	.1	*	.0	69	2.8	12.0	2.2	5.9	2.8	2.0	1.9	4.3	2.5	5.5								
E	.2	1.7	2.2	.5	*	.0	114	4.6	13.1	4.8	1.0	5.5	4.0	5.2	1.7	4.3	3.9								
ESE	.0	.8	1.0	.2	*	.0	50	2.0	13.1	2.4	.0	2.8	.0	1.3	.9	2.8	.0								
SE	.4	1.4	1.0	.2	.0	.0	74	3.0	10.1	3.4	1.0	3.4	.0	3.2	4.3	2.6	2.3								
SSE	.3	.8	1.6	.3	.0	.0	74	3.0	13.4	2.8	3.0	2.3	2.0	2.8	4.3	3.8	3.1								
S	.6	2.5	3.2	.7	*	.0	178	7.1	12.7	7.4	1.0	8.5	12.1	8.0	1.7	6.4	5.5								
SSW	.2	2.0	2.9	.6	.1	.0	146	5.8	14.3	6.3	3.0	7.5	1.0	5.2	3.5	5.8	7.0								
SW	.9	3.2	4.6	1.1	.1	.0	247	9.9	13.2	10.2	4.0	11.3	9.1	9.5	9.6	11.3	3.1								
WSW	.4	3.2	5.4	1.0	.1	.0	254	10.1	13.5	11.9	16.8	9.2	7.1	11.0	2.6	8.9	12.5								
W	.5	5.6	7.1	1.0	.2	.0	361	14.4	13.3	16.6	13.9	13.5	10.1	17.1	9.6	13.8	10.2								
WNW	.2	3.7	4.5	1.6	.2	.0	256	10.2	14.4	8.6	17.8	7.9	22.2	8.6	13.0	11.3	10.2								
NW	.6	2.3	4.1	.9	*	.0	197	7.9	13.7	7.3	6.9	7.3	9.1	6.9	13.9	7.4	12.5								
NNW	.2	1.8	1.6	.2	.0	.0	95	3.8	11.5	2.4	2.0	2.3	4.0	5.2	9.6	4.0	6.3								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	3.3	889	1140	234	21	0	83	3.3	.0	3.4	1.0	4.5	1.0	4.3	.9	3.2	.8								
TOT OBS	221	35.5	45.5	9.3	.8	.0	2505	100.0	12.6	537	101	532	99	463	115	530	128								
TOT PCT	8.8									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0								

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	1.8	4.9	1.5	*	.0	206	8.2	11.6	6.9	16.8	8.8	6.1	6.3	11.3	8.1	10.9									
NE	2.0	3.5	1.1	.2	.0	170	6.8	11.6	5.6	11.9	5.3	12.1	5.4	13.0	6.2	11.7									
E	1.3	3.6	1.4	.2	.0	164	6.5	13.1	7.3	1.0	8.3	4.0	6.5	2.6	7.2	3.9									
SE	1.5	3.2	1.0	.2	.0	148	5.9	11.8	6.1	4.0	5.6	2.0	6.0	8.7	6.4	5.5									
S	2.0	7.0	3.7	.3	.0	324	12.9	13.4	13.8	4.0	16.0	13.1	13.2	5.2	12.3	12.5									
SW	3.6	11.0	4.8	.7	.0	501	20.0	13.3	22.2	20.8	20.5	16.2	20.5	12.2	20.2	15.6									
W	3.2	14.5	5.9	1.0	*	617	24.6	13.7	25.1	31.7	21.4	32.3	25.7	22.6	25.1	20.3									
NW	2.2	6.1	3.2	.2	.0	292	11.7	13.0	9.7	8.9	9.6	13.1	12.1	23.5	11.3	18.8									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	3.3	1348	565	70	1	83	3.3	.0	3.4	1.0	4.5	1.0	4.3	.9	3.2	.8									
TOT OBS	521	53.8	22.6	2.8	*	2505	100.0	12.6	537	101	532	99	463	115	530	128									
TOT PCT	20.8								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									

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TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)						TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	
00003	5.0	35.3	44.8	10.7	1.3	.0	638
06009	5.9	34.2	46.4	8.6	.0	4.0	631
12015	4.2	33.9	49.5	8.5	.3	3.6	578
18021	6.8	38.3	41.8	9.6	.8	2.7	658
TOT	138	889	1140	234	21	83	2505
PCT	5.5	35.5	45.5	9.3	.8	3.3	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-8	OBSCD	8-8	9-8	10-8		
N	.8	.5	1.4	2.6	94	6.1				
NNE	.5	.1	1.0	1.4	53	6.2				
NE	.3	.2	.5	2.5	61	6.9				
ENE	.2	.1	.8	1.7	51	7.0				
E	.2	.0	.6	4.0	85	7.5				
ESE	.0	.1	.3	1.6	36	7.4				
SE	.1	.1	.3	2.1	44	7.6				
SSE	.1	.0	.4	2.3	49	7.7				
S	.2	.1	.5	5.0	101	7.6				
SSW	.1	.1	.6	5.1	104	7.6				
SW	.4	.2	1.0	7.7	166	7.4				
WSW	.3	.6	1.9	7.4	180	7.3				
W	1.8	1.4	4.1	7.9	269	6.3				
WNW	2.2	1.8	3.1	3.7	192	5.4				
NW	1.8	.6	2.5	2.9	139	5.5				
MNW	1.1	.2	1.7	1.4	78	5.2				
VAR	.0	.0	.0	.0	0	.0				
CALM	1.0	.3	.8	1.9	72	.0				
TOT OBS	196	110	380	1088	1774	5.5				
TOT PCT	11.0	6.2	21.4	61.3	100.0	6.6				

TABLE 6

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)											
	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999	ANY HGT	ANY HGT	OBS
N	.3	.1	.1	.6	1.4	.7	.1	.0	.1	.0	1.9	94
NNE	.1	.0	.1	.2	.7	.6	.1	.1	.0	.0	1.1	53
NE	.1	.0	.3	.2	1.1	.7	.2	.0	.0	.0	.7	61
ENE	.2	.1	.2	.3	.6	.5	.2	.0	.0	.1	.7	51
E	.7	.1	.2	.9	.8	1.0	.1	.1	.0	.1	.9	85
ESE	.1	.0	.3	.8	.3	.1	.1	.0	.0	.0	.3	36
SE	.4	.0	.4	.7	.5	.3	.0	.0	.0	.1	.2	4
SSE	.5	.1	.2	.6	.6	.5	.1	.0	.0	.1	.1	49
S	1.2	.1	.5	1.5	1.4	.5	.1	.0	.0	.1	.5	101
SSW	.7	.1	.6	1.2	1.4	.8	.1	.1	.0	.3	.7	104
SW	1.8	.0	.7	1.5	2.4	.9	.2	.1	.1	.0	1.6	166
WSW	1.2	.1	.4	1.1	2.9	2.0	.2	.2	.1	.2	1.8	180
W	.9	.1	.5	1.8	3.6	2.8	.5	.0	.2	.2	4.6	269
WNW	.3	.0	.2	1.2	1.5	1.7	.6	.3	.0	.0	5.0	192
NW	.1	.0	.2	.7	1.7	1.7	.2	.1	.1	.1	3.1	130
MNW	.1	.0	.1	.5	.8	.7	.2	.0	.0	.0	.9	78
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.7	.0	.1	.5	.5	.5	.1	.0	.1	.1	1.6	72
TOT OBS	169	13	89	252	393	283	54	14	9	24	474	1774
TOT PCT	9.5	.7	5.0	14.2	22.2	16.0	3.0	.8	.5	1.4	26.7	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)	>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	1.2	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
OR >5000	1.5	2.0	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
OR >3500	3.3	4.9	5.2	5.2	5.2	5.2	5.2	5.2	5.4	5.6	5.6	5.6	5.7	5.7	5.7	5.7
OR >2000	14.2	19.8	20.6	20.9	20.9	21.2	21.7	21.7	21.7	21.7	21.7	21.7	21.8	21.8	21.8	21.8
OR >1000	26.6	38.9	41.8	42.4	42.4	42.8	43.8	43.8	43.8	43.8	43.8	43.8	43.9	43.9	43.9	43.9
OR >600	32.9	49.5	54.6	56.1	56.1	56.6	58.0	58.0	58.0	58.0	58.0	58.0	58.2	58.2	58.2	58.2
OR >300	34.1	52.6	58.7	60.8	60.8	61.5	63.0	63.0	63.0	63.0	63.0	63.0	63.2	63.2	63.2	63.2
OR >150	34.3	53.1	59.3	61.5	61.5	62.2	63.7	63.7	63.7	63.7	63.7	63.7	63.9	63.9	63.9	63.9
OR > 0	34.5	53.9	61.3	64.4	64.4	65.8	69.9	69.9	69.9	69.9	69.9	69.9	72.9	72.9	72.9	72.9
TOTAL	612	955	1086	1142	1142	1167	1239	1239	1167	1239	1239	1239	1292	1292	1292	1300

TOTAL NUMBER OF OBS: 1773

PCT FREQ NH <5/8: 26.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
8.7	4.4	6.0	3.4	3.7	5.2	9.2	9.1	41.9	8.4	1856

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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	ND PCP	TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT		
																								PCP	ND PCP
<1/2	.0	.3	5	.0	.1	.2	.3	.7	.0	.3	.4	1.4	.8	1.6	1.3	2.3	.0	.5	.1	.3	.0	.0	.5	181	9.6
	.0	.1	1	.0	.1	.2	.9	7	0	7	10	30	19	33	25	23	9	2	6	0	0	10	198	10.5	
1/2<1	.0	.1	1	.0	.1	.2	.3	.4	.0	.1	.1	.3	.1	.5	.2	.1	.0	.1	.1	.0	.0	.0	.0	12	.6
	.0	.1	1	.0	.1	.2	.3	.4	.0	.1	.1	.3	.1	.5	.2	.1	.0	.1	.1	.0	.0	.0	.0	36	1.9
1<2	.1	.1	3	.1	.1	.2	.3	.4	.2	.1	.2	.6	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	38	2.0
	.1	.1	3	.1	.1	.2	.3	.4	.2	.1	.2	.6	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	51	2.7
2<5	.0	.2	3	.0	.1	.1	.2	.3	.2	.3	.4	.6	.8	.5	1.1	.8	.1	.2	.1	.1	.0	.0	.1	79	4.2
	.0	.1	1	.0	.1	.1	.2	.3	.2	.3	.4	.6	.8	.5	1.1	.8	.1	.2	.1	.1	.0	.0	.1	110	5.8
5<10	.1	.6	13	.1	.3	.6	.8	1.3	.9	.8	.6	1.4	1.9	2.3	2.3	3.3	.3	1.2	.3	.1	.0	.0	.1	87	4.6
	.1	.3	7	.1	.3	.6	.8	1.3	.9	.8	.6	1.4	1.9	2.3	2.3	3.3	.3	1.2	.3	.1	.0	.0	.1	394	20.8
10+	.0	3.0	57	.0	1.1	2.7	17	28	13	15	14	39	37	73	88	164	125	81	42	0	0	.1	29	1.5	
	.0	1.1	20	.0	1.3	2.7	17	28	13	15	14	39	37	73	88	164	125	81	42	0	0	.1	29	1.5	
TOTAL	82	36	4.3	36	1.9	3.2	2.6	4.8	2.4	3.0	3.5	8.2	6.9	10.5	15.2	28.7	16.9	11.9	7.0	0	0	.76	1891	100.0	
PCT	4.3	1.9	3.2	2.6	4.8	2.4	3.0	3.5	8.2	6.9	10.5	15.2	8.9	6.3	3.7	0	4.0	100.0	0	0	0	4.0	100.0	0	

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PERIOD: (PRIMARY) 1955-1969  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
<1/2	0-3	*	.0	.0	*	.1	.0	.0	*	.1	.0	*	*	.1	.0	*	*	.0	.4	24	1.0
	4-10	.1	.0	.1	.1	.2	.0	.2	*	.4	.7	.7	.4	.4	.2	.0	.2	.0	.0	79	3.2
	11-21	*	.1	*	.2	.1	.0	.1	.2	.7	.6	.6	.5	.5	.1	*	.0	.0	.0	88	3.5
	22+	*	.0	.0	.0	.0	.0	.0	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	12	.5
TOTAL	5	2	2	9	7	8	0	7	10	30	19	35	25	23	9	2	6	0	11	203	8.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	.2
	4-10	*	.0	.0	.0	.0	.0	.0	*	.1	.0	.2	.1	*	*	.1	.1	.0	.0	22	.9
	11-21	.0	.0	.1	.0	.1	.1	.0	.1	.1	.1	.2	*	*	*	.0	.0	.0	.0	20	.8
	22+	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	4	.2
TOTAL	1	1	3	1	3	4	0	3	3	8	2	13	4	2	2	2	2	0	0	51	2.0
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5	.2
	4-10	.0	.0	*	.0	.1	.0	.0	*	.3	.1	.1	*	.1	*	.1	.0	.0	.0	25	1.0
	11-21	.1	.1	.1	.1	.2	.1	.1	.1	.3	.1	.1	.2	.1	.0	.0	.0	*	.0	43	1.7
	22+	.0	.0	.1	.0	.1	.0	.0	*	.2	.2	*	*	.0	.0	.0	.0	.0	.0	20	.8
TOTAL	3	4	6	3	4	10	4	7	20	11	6	6	6	5	1	2	1	0	2	93	3.7
2<5	0-3	*	.0	*	.0	.0	.0	.1	*	.1	.1	.2	.1	*	.1	.0	.0	.0	.1	21	.8
	4-10	*	.0	.1	.0	.1	.2	.1	.2	.3	.4	.2	.1	.5	.0	*	.1	.0	.0	59	2.4
	11-21	*	.1	.1	.1	.1	.1	.2	.3	.3	.6	.4	.7	.2	.1	.1	.1	.0	.0	96	3.8
	22+	.0	.0	.0	.0	.1	*	*	.0	.1	*	.1	.2	.2	.2	.1	.0	.0	.0	30	1.2
TOTAL	3	3	5	2	16	10	11	14	20	27	24	29	23	23	8	6	3	0	2	206	8.3
5<10	0-3	*	.0	.1	.1	.0	.0	.1	.0	.1	.1	*	*	.1	*	.0	*	.0	.7	36	1.4
	4-10	.3	.0	.3	.3	.4	.3	.5	.3	.7	.6	.6	1.1	1.1	.3	.4	.4	.0	.0	177	7.1
	11-21	.4	.2	.6	.4	.6	.4	.4	.4	1.0	.7	1.2	1.4	2.0	.9	.9	.6	.0	.0	303	12.1
	22+	.1	.1	.0	.1	.2	.1	.1	*	.2	.2	.6	.5	.3	.2	.2	.0	.0	.0	79	3.2
TOTAL	21	9	23	23	49	40	49	20	20	40	66	63	89	38	38	39	23	0	17	595	23.6
10+	0-3	.2	*	.3	.0	.1	.0	.2	.1	.3	.1	.6	.2	.2	.1	.5	.1	.0	2.0	127	5.1
	4-10	1.7	1.5	1.2	.6	.8	.3	.6	.2	.8	.7	2.0	3.5	3.0	3.0	1.7	1.2	.0	.0	523	21.0
	11-21	1.4	.8	.8	.7	.8	.3	.2	.4	1.0	2.0	2.6	4.3	4.3	3.4	3.0	.9	.0	.0	588	23.6
	22+	.2	.2	.2	.0	*	.0	.0	*	.1	.3	.3	.7	.7	1.4	.6	.2	.0	.0	110	4.4
TOTAL	89	62	62	31	44	17	26	20	20	51	47	102	126	219	197	146	60	0	49	1348	54.0
TOTAL	122	81	101	69	113	50	74	74	74	178	146	246	253	361	255	197	95	0	81	2496	100.0
PCT	4.9	3.2	4.0	2.8	4.5	2.0	3.0	3.0	3.0	7.1	5.9	9.9	10.1	14.5	10.2	7.9	3.8	.0	3.2	100.0	

JULY

PERIOD: (PRIMARY) 1955-1969  
(OVER-ALL) 1910-1969

AREA 0007 UNIMAK  
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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	149	299	599	999	1999	3499	4999	6499	7999				
00003	6.8	.4	4.6	14.8	18.6	16.5	2.7	.6	.4	1.7	67.1	32.9	474
06009	12.3	.9	4.8	13.2	21.6	15.2	3.2	.5	.7	1.6	73.9	26.1	440
12015	11.1	.2	3.7	14.1	23.6	15.2	3.7	.9	.7	1.2	74.4	25.6	433
18021	8.3	1.3	6.7	14.1	24.3	16.7	2.5	1.1	.2	.9	76.1	23.9	448
TOT	171	13	89	252	394	286	54	14	9	24	1306	489	1795
PCT	9.5	.7	5.0	14.0	21.9	15.9	3.0	.8	.5	1.3	72.8	27.2	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	5.8	1.1	3.0	8.4	19.7	62.0	463
06009	9.8	2.3	2.5	5.9	24.1	55.4	439
12015	9.8	1.9	3.3	7.9	25.9	51.3	429
18021	7.5	1.1	5.0	8.1	20.4	57.9	442
TOT	145	28	61	135	398	1006	1773
PCT	8.2	1.6	3.4	7.6	22.4	56.7	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 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.7	14.3	33.9	35.4	30.7
06009	12.1	20.0	35.3	38.7	26.0
12015	11.0	19.1	36.1	41.5	22.4
18021	8.4	19.2	38.0	40.0	21.9
TOT	168	321	635	689	449
PCT	9.5	18.1	35.8	38.9	25.3

JULY

PERIOD: (PRIMARY) 1955-1969  
(OVER-ALL) 1910-1969

AREA 0007 UNIMAK  
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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
65/69	.0	.0	.0	.0	.0	.1	.1	.0	3	.2
60/64	.0	.0	.0	.1	.2	.7	.9	.2	40	2.0
55/59	.0	.0	.0	.1	.6	2.9	6.7	2.5	251	12.8
50/54	.0	.0	.0	.0	1.2	3.7	26.5	24.9	1104	56.3
45/49	.0	.0	.0	.0	.1	1.6	7.6	18.6	546	27.9
40/44	.0	.0	.0	.0	.0	.0	.3	.6	16	.8
TOTAL	0	0	0	4	40	175	823	918	1960	100.0
PCT	.0	.0	.0	.2	2.0	8.9	42.0	46.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1
60/64	.7	.1	.1	.2	.0	.3	.3	.3	.0	.2
55/59	1.8	1.2	.9	.6	1.1	1.9	3.0	1.8	.0	.7
50/54	4.4	4.3	3.4	3.6	7.0	10.5	14.7	7.6	.0	.8
45/49	2.2	1.4	2.1	1.8	4.3	6.5	7.2	2.0	.0	.3
40/44	.1	.1	.1	.1	.1	.1	.2	.1	.0	.1
TOTAL	181	140	128	124	243	377	497	228	0	42
PCT	9.2	7.1	6.5	6.3	12.4	19.2	25.4	11.6	.0	2.1

TABLE 15

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

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	63	59	52	47	46	43	52.6	636
06009	68	61	57	51	46	44	43	51.3	629
12015	64	57	54	50	45	43	43	50.1	577
18021	64	62	56	51	46	44	43	50.9	657
TOT	68	61	57	51	46	44	43	51.3	2499

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.4	4.0	13.9	44.0	37.6	86	495
06009	.0	.4	2.0	8.3	40.9	48.4	89	496
12015	.0	.0	.7	6.0	42.9	50.4	90	450
18021	.0	.0	1.3	7.3	40.2	51.2	90	520
TOT	0	4	40	175	823	919	89	1961

PERIOD: (PRIMARY) 1955-1969  
(OVER-ALL) 1910-1969

JULY

AREA 0007 UNIMAK  
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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	41	45	49	53	57	61	65	TOT	M	WD
	44	48	52	56	60	64	68	FOG	FOG	FOG
14/10	.0	.0	.0	.0	.1	.1	.1	4	.0	.2
11/13	.0	.0	.1	.2	.2	.3	.1	15	.1	.8
9/10	.0	.1	.1	.6	.7	.1	.0	27	.2	1.3
7/8	.0	.3	.6	1.3	.7	.1	.0	53	.4	2.6
6	.1	.2	.5	1.8	.3	.1	.0	35	.1	1.9
5	.1	.3	1.5	1.8	.6	.1	.0	77	1.0	3.4
4	.2	1.3	2.7	3.8	.4	.0	.0	147	1.7	6.7
3	.0	1.1	4.0	3.3	.3	.0	.0	151	1.5	7.2
2	.0	1.9	7.5	3.6	.5	.0	.0	235	2.8	10.7
1	.0	1.8	6.6	3.4	.2	.0	.0	210	2.8	9.3
0	.1	4.1	9.1	3.3	.1	.0	.0	289	3.1	13.5
-1	.0	2.4	5.3	1.5	.0	.0	.0	160	1.4	7.7
-2	.1	2.9	4.4	.7	.0	.0	.0	141	1.3	6.8
-3	.1	1.8	2.4	.2	.0	.0	.0	76	.9	3.5
-4	.3	1.3	1.1	.1	.0	.0	.0	48	.5	2.3
-5	.2	1.4	.7	.0	.0	.0	.0	39	.5	1.7
-6	.0	.7	.3	.1	.0	.0	.0	20	.2	.9
-7/-8	.0	.5	.1	.1	.0	.0	.0	10	.1	.5
-9/-10	.0	.1	.2	.0	.0	.0	.0	5	.0	.3
TOTAL	20	383	821	430	73	13	2	1742	325	1417
PCT	1.1	22.0	47.1	24.7	4.2	.7	.1	100.0	18.7	81.3

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 JULY  
 TABLE 18  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	N							NE							TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.1	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.3	
1-2	.0	.7	.6	.0	.0	.0	.9	.1	.6	.3	.0	.0	.0	.7	
3-4	.0	.3	1.0	.3	.0	.0	1.1	.0	.1	2.1	.0	.0	.0	1.6	
5-6	.1	.1	.6	.0	.0	.0	.6	.0	.0	.7	.3	.0	.0	.7	
7	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.3	.0	.0	.2	
8-9	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.3	.1	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	2	10	15	6	0	0	33	1	8	22	6	1	0	38	
PCT	.3	1.4	2.1	.9	.0	.0	4.7	.1	1.1	3.1	.9	.1	.0	5.4	

HGT	E							SE							TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	.3	.1	.3	.0	.0	.0	.0	.3	
1-2	.0	1.0	1.3	.0	.0	.0	1.6	.0	1.4	.4	.0	.0	.0	1.3	
3-4	.0	.1	1.7	.7	.0	.0	1.8	.0	1.0	.9	.0	.0	.0	1.3	
5-6	.0	.0	.4	.0	.0	.0	.3	.0	.3	.9	.1	.0	.0	.9	
7	.0	.0	.9	.1	.0	.0	.7	.0	.1	.3	.0	.0	.0	.3	
8-9	.0	.0	.1	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	0	11	31	11	1	0	54	1	22	17	2	0	0	42	
PCT	.0	1.6	4.4	1.6	.1	.0	7.7	.1	3.1	2.4	.3	.0	.0	6.0	

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 JULY  
 TABLE 18  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	S										NW										TOTAL	GRAND TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL										
<1	.0	1.1	.0	.0	.0	.0	8	.3	.9	.0	.0	.0	.0	17	.0	1.7	.0	.0	.0	.0	.0	8	.0	58
1-2	.1	2.3	.9	.0	.0	.0	23	.0	4.9	2.0	.0	.0	.0	49	.0	2.9	2.1	.0	.0	.0	.0	9	.0	162
3-4	.0	2.6	2.6	.1	.0	.0	37	.0	2.7	4.1	.6	.0	.0	52	.3	1.6	4.3	.7	.0	.0	.0	19	.0	214
5-6	.0	.7	1.7	.6	.0	.0	21	.0	.7	3.6	.7	.0	.0	35	.0	1.0	4.9	.4	.0	.0	.0	17	.0	142
7	.0	.1	1.3	.4	.0	.0	13	.0	.1	1.3	.3	.1	.0	13	.0	.1	2.0	.9	.0	.0	.0	3	.0	64
8-9	.0	.0	.7	.3	.0	.0	7	.0	.0	.3	.0	.0	.0	3	.0	.0	.6	.3	.0	.0	.0	6	.0	24
10-11	.0	.0	.1	.0	.0	.0	1	.0	.0	.1	.0	.0	.0	1	.0	.0	.7	.6	.0	.0	.0	9	.0	15
12	.0	.0	.1	.1	.0	.0	2	.0	.0	.1	.1	.0	.0	4	.0	.0	.4	.3	.4	.0	.0	6	.0	13
13-16	.0	.0	.0	.0	.4	.0	3	.0	.0	.0	.0	.0	.0	3	.0	.0	.1	.1	.1	.0	.0	2	.0	8
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
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
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
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
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
41-48	.0	.0	.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	.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
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
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
TOTAL	1	48	52	11	3	C	115	2	71	80	17	1	177	4	51	103	23	4	0	0	185	0	700	
PCT	.1	6.9	7.4	1.6	.4	.0	16.4	1.1	10.1	11.4	2.4	.1	25.3	.6	7.3	14.7	3.3	.6	.0	.0	26.4	.0	100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	7.6	6.2	.0	.0	.0	.0	.0	.0	.0	.0	103
1-2	.5	13.8	7.4	.0	.0	.0	.0	.0	.0	.0	162
3-4	.3	8.6	17.4	2.4	.0	.0	.0	.0	.0	.0	214
5-6	.3	3.2	13.5	2.1	.0	.0	.0	.0	.0	.0	143
7	.0	.5	5.6	2.3	.1	.0	.0	.0	.0	.0	64
8-9	.0	.3	1.5	1.2	.3	.0	.0	.0	.0	.0	24
10-11	.0	.0	1.1	.9	.0	.0	.0	.0	.0	.0	15
12	.0	.0	.3	1.1	.4	.0	.0	.0	.0	.0	13
13-16	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	8
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
TOTAL	65	243	349	79	10	.0	.0	.0	.0	.0	746
PCT	8.7	32.6	46.8	10.6	1.3	.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	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-85	87+		
<6	1.9	11.6	16.3	10.1	3.1	.9	1.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	394	3
6-7	.0	1.5	7.4	7.6	5.7	1.5	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	5
8-9	.0	.2	2.7	2.0	2.8	1.7	.9	.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	6
10-11	.0	.1	.1	.5	.9	.3	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
12-13	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
>13	.0	.0	.0	.0	.2	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	12.2	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	0
TOTAL	121	116	232	175	111	39	29	19	17	1	0	0	0	0	0	0	0	0	0	0	0	860	0
PCT	14.1	13.5	27.0	20.3	12.9	4.5	3.4	2.2	2.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

AUGUST

PERIOD: (PRIMARY) 1951-1969  
(OVER-ALL) 1921-1969

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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	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				FRZG PCPN	SNOW	OTHER PCPN					FG	SMOKE	DUST	HAZE	BLWG		DUST	SIG
N	.3	.0	.1	.0	.0	.0	.0	.4	7	.0	.5	.0	.0	.0	.0	.0	2.0	47
NNE	.1	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.0	.0	.0	.0	.8	13
NE	.3	.0	.3	.0	.0	.0	.0	.6	9	.0	.8	.0	.0	.0	.0	1.1	39	
ENE	.3	.0	.3	.0	.0	.0	.0	.6	9	.0	.1	.0	.0	.0	.0	.4	17	
E	.6	.0	1.1	.0	.0	.0	.0	1.6	26	.0	1.1	.1	.0	.0	.0	1.3	65	
ESE	.5	.0	.4	.0	.0	.0	.0	.8	13	.0	.4	.0	.0	.0	.0	1.3	39	
SE	.7	.0	.9	.0	.0	.0	.0	1.4	22	.0	1.1	.1	.0	.0	.0	1.9	71	
SSE	.5	.1	.2	.0	.0	.0	.0	.7	11	.0	1.8	.0	.0	.0	.0	2.1	72	
S	1.1	.1	1.1	.0	.0	.0	.0	2.1	33	.0	3.2	.1	.1	.0	.0	4.2	153	
SSW	.5	.1	.9	.0	.0	.0	.0	1.2	19	.0	2.5	.0	.0	.0	.0	3.7	117	
SW	1.0	.0	1.0	.0	.0	.0	.0	1.6	26	.0	3.9	.1	.0	.0	.0	6.1	185	
WSW	.6	.2	.6	.0	.0	.0	.0	1.3	21	.0	1.3	.1	.0	.0	.0	6.2	141	
W	1.2	.0	.6	.0	.0	.0	.0	1.8	29	.0	2.4	.2	.0	.0	.0	13.9	289	
WNW	.6	.0	.3	.0	.0	.0	.0	.9	14	.0	1.1	.0	.0	.0	.0	7.1	144	
NW	.2	.0	.1	.0	.0	.0	.0	.2	3	.0	.4	.0	.0	.0	.0	5.8	101	
NNW	.1	.0	.0	.0	.0	.0	.0	.1	2	.0	.4	.1	.0	.0	.0	2.6	50	
VAR	.0	.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	.6	.1	.0	.0	.0	1.5	35	
TOT OBS	139	6	124	0	0	0	0	15.6	246	0	344	12	1	1	975	1578	1578	
TOT PCT	8.8	.4	7.9	.0	.0	.0	.0	15.6	246	.0	21.8	.8	.1	.1	61.8	100.0	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW	OTHER PCPN					FG	SMOKE	DUST	HAZE	BLWG		DUST
0003	6.1	.5	4.1	.0	.0	.0	.0	9.7	40	.0	23.8	1.0	.2	.0	.0	65.2	411
0609	7.9	.2	9.4	.0	.0	.0	.0	17.5	71	.0	22.5	1.0	.0	.0	.0	59.0	405
1205	13.2	.0	10.8	.0	.0	.0	.0	20.8	79	.0	17.2	.0	.0	.0	.0	62.0	379
1802	8.4	.8	7.3	.0	.0	.0	.0	14.7	58	.0	22.8	1.0	.0	.0	.0	61.5	395
TOT	140	6	125	0	0	0	0	15.6	248	0	344	12	1	1	985	1590	1590
PCT	8.8	.4	7.9	.0	.0	.0	.0	15.6	248	.0	21.6	.8	.1	.1	61.9	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1951-1969  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.3	1.0	1.2	.4	.0	.0	55	2.9	12.4	3.6	.0	2.6	1.6	2.2	.0	4.3	2.8								
NNE	.1	.3	.3	.1	.1	.0	15	.8	12.9	.7	.0	.7	.0	1.4	3.3	.5	.0								
NE	.3	1.0	.8	.4	.1	.0	48	2.6	14.0	2.4	3.4	3.1	.0	3.3	.0	2.2	2.8								
ENE	.0	.4	.4	.2	.0	.0	19	1.0	13.8	1.9	1.7	1.0	.0	.8	.0	.7	.0								
E	.2	1.4	1.3	.7	.1	.0	69	3.7	14.6	1.9	1.7	4.5	9.5	3.9	8.3	2.9	5.6								
ESE	.2	.9	.9	.4	.0	.0	43	2.3	14.0	2.4	1.7	1.9	3.2	2.8	1.7	2.4	1.4								
SE	.3	1.3	1.8	1.0	.2	.0	85	4.6	15.5	4.8	.0	4.3	.0	4.7	5.0	6.3	1.4								
SSE	.1	1.5	2.1	.8	.0	.0	85	4.6	14.5	4.3	10.2	5.0	1.6	3.1	3.3	5.0	6.9								
S	.3	2.9	4.4	1.6	.2	.0	175	9.4	14.7	9.7	10.2	11.5	4.8	8.6	1.7	9.1	9.7								
SSW	.1	2.2	3.8	.7	.1	.0	130	7.0	14.7	7.8	6.8	6.0	11.1	5.3	8.3	7.0	11.1								
SW	.1	3.2	7.1	2.0	.1	.0	234	12.5	15.8	13.5	16.9	12.0	20.6	10.3	16.7	10.6	18.1								
WSW	.2	1.8	5.6	1.1	.1	.0	164	8.8	16.0	6.2	3.4	10.0	4.8	10.9	16.7	8.7	8.3								
W	.1	4.4	9.6	4.0	.6	.0	349	18.7	16.9	23.0	20.3	16.5	17.5	18.9	18.3	16.1	19.4								
WNW	.2	2.6	4.5	1.7	.5	.0	176	9.4	16.1	8.6	18.6	7.9	15.9	9.5	5.0	10.6	6.9								
NW	.3	2.3	3.3	.9	.2	.0	130	7.0	13.8	5.5	3.4	7.4	7.9	8.1	3.3	8.2	5.6								
NNW	.2	.9	1.4	.4	.1	.0	54	2.9	14.7	2.1	.0	3.3	1.6	3.6	8.3	2.9	.0								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	1.7	1.7	2.2	.0	.0	.0	.0	.0								
CALM	2.0	526	911	303	40	0	37	2.0	15.0	1.7	59	418	63	359	60	2.6	.0								
TOT OBS	88	28.2	48.8	16.2	2.1	.0	1868	100.0	15.0	421	100.0	100.0	100.0	100.0	100.0	100.0	100.0								
TOT PCT	4.7	28.2	48.8	16.2	2.1	.0	1868	100.0	15.0	421	100.0	100.0	100.0	100.0	100.0	100.0	100.0								

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	.8	2.1	.6	.3	.0	70	3.7	12.5	4.3	.0	3.3	1.6	3.6	3.3	4.8	2.8									
NE	.8	1.6	.8	.4	.0	67	3.6	14.0	4.3	5.1	4.1	.0	4.2	.0	2.9	2.8									
E	1.4	2.6	1.5	.4	.0	112	6.0	13.8	4.3	3.4	6.5	12.7	6.7	10.0	5.3	6.9									
SE	1.1	4.9	2.5	.6	.0	170	9.1	15.0	9.0	10.2	9.3	1.6	7.8	8.3	11.3	8.3									
S	2.0	8.5	5.0	.8	.1	305	16.3	14.7	17.6	16.9	17.5	15.9	13.9	10.0	16.1	20.8									
SW	1.0	11.2	8.1	1.0	.0	398	21.3	15.9	19.7	20.3	22.0	25.4	21.2	33.3	19.2	26.4									
W	2.6	12.7	10.3	2.4	.2	525	28.1	16.6	31.6	39.0	24.4	33.3	28.4	23.3	26.7	26.4									
NW	2.0	5.0	2.3	.5	.1	184	9.9	14.1	7.6	3.4	10.8	9.5	11.7	11.7	11.1	5.6									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	2.0	906	580	121	5	37	2.0	15.0	1.7	1.7	2.2	.0	2.5	.0	2.6	.0									
TOT OBS	256	48.5	31.0	6.5	.3	1868	100.0	15.0	421	100.0	100.0	100.0	100.0	100.0	100.0	100.0									
TOT PCT	13.7	48.5	31.0	6.5	.3	1868	100.0	15.0	421	100.0	100.0	100.0	100.0	100.0	100.0	100.0									

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PERIOD: (PRIMARY) 1951-1969  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	HOUR	WIND SPEED (KNOTS)						CALM	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+				
00003	00003	1.9	29.6	46.7	18.5	1.7	.0	1.7	15.2	100.0	480
06009	06009	2.1	26.2	50.1	16.2	3.5	.0	1.9	15.6	100.0	481
12015	12015	2.6	29.1	48.2	16.7	1.2	.0	2.1	14.6	100.0	419
18021	18021	4.3	27.9	50.0	13.5	2.0	.0	2.3	14.5	100.0	488
TOT	TOT	51	526	911	303	40	0	37	15.0		1868
PCT	PCT	2.7	28.2	48.8	16.2	2.1	.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)								MEAN CLOUD COVER	TOTAL OBS
	0-2	3-4	5-7	8 &	OBSCD	57.2	1206	100.0		
N	.7	.2	1.1	1.7	43	6.0				
NNE	.2	.1	.3	.2	11	5.1				
NE	.3	.3	.5	1.2	29	6.0				
ENE	.0	.0	.3	.6	11	7.3				
E	.0	.0	.5	3.0	42	7.8				
ESE	.0	.1	.2	1.8	26	7.7				
SE	.2	.2	.6	4.1	60	7.5				
SSE	.2	.1	1.0	4.0	63	7.5				
S	.2	.1	1.6	8.0	119	7.6				
SSW	.0	.2	.7	5.1	73	7.7				
SW	.6	.1	2.4	6.6	116	7.2				
WSW	.7	.2	2.6	5.2	105	6.9				
W	2.1	2.3	7.2	8.5	242	6.1				
WNW	1.5	1.1	3.4	3.1	109	5.7				
NW	1.3	1.4	3.1	2.1	95	5.3				
NNW	.8	.3	.9	1.1	38	5.3				
VAR	.0	.0	.0	.0	0	.0				
CALM	.2	.3	.4	1.1	24	6.3				
TOT OBS	108	84	324	690	1206	6.6				
TOT PCT	9.0	7.0	26.9	57.2	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)												TOTAL OBS			
	000	149	150	299	300	599	600	999	1000	2000	3500	5000		6500	8000+	NH <5/8 ANY HGT
N	.2	.1	.1	.2	.2	.4	.7	.5	.2	.2	.1	.1	.0	.0	1.0	43
NNE	.1	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.3	11
NE	.7	.1	.1	.0	.0	.2	.3	.3	.0	.0	.0	.0	.0	.1	.7	29
ENE	.1	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	.2	11
E	.9	.2	.2	.2	.2	1.0	.7	.2	.0	.0	.0	.0	.0	.1	.1	42
ESE	.5	.0	.0	.3	.3	.2	.1	.7	.1	.0	.0	.0	.0	.0	.2	26
SE	1.2	.1	.1	.1	.1	1.0	1.2	.8	.1	.0	.0	.0	.0	.0	.5	60
SSE	1.2	.2	.2	.3	.3	1.1	1.1	.7	.0	.0	.0	.0	.0	.1	.4	63
S	2.2	.2	.2	.8	.8	2.3	2.0	.9	.5	.0	.0	.0	.0	.1	.8	119
SSW	1.2	.2	.2	.4	.4	1.3	1.1	.7	.4	.0	.0	.0	.0	.1	.7	73
SW	1.5	.0	.0	.2	.2	1.7	2.5	1.7	.3	.0	.0	.0	.0	.1	1.6	116
WSW	.8	.2	.2	.6	.6	1.6	2.1	1.3	.4	.0	.0	.0	.0	.1	1.6	105
W	.7	.2	.2	1.0	1.0	2.6	3.3	3.9	.9	.1	.1	.1	.1	.2	7.1	242
WNW	.7	.2	.2	.7	.7	2.7	1.5	1.7	.0	.0	.0	.0	.0	.2	3.7	109
NW	.2	.0	.0	.0	.0	.7	1.4	.9	.6	.0	.0	.0	.0	.1	4.0	95
NNW	.2	.0	.0	.1	.1	.4	.5	.2	.2	.1	.1	.1	.1	.1	1.3	38
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.3	.4	1.1	1.1	2.2	2.7	.1	.1	.1	.1	.1	.1	.0	.7	24
TOT OBS	152	20	59	188	237	181	46	3.8	3.8	3.8	3.8	3.8	3.8	3.8	300	1206
TOT PCT	12.6	1.7	4.9	15.6	19.7	15.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	24.9	100.0

PERIOD: (PRIMARY) 1951-1969  
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AUGUST

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TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	1.1	1.2	1.5	1.5	1.5	1.5	1.5	1.5
OR >5000	1.4	1.7	1.9	1.9	1.9	1.9	1.9	1.9
OR >3500	4.3	5.2	5.7	5.7	5.7	5.7	5.7	5.7
OR >2000	13.7	19.2	20.6	20.7	20.7	20.8	20.8	20.8
OR >1000	25.1	37.3	39.9	40.2	40.3	40.4	40.5	40.5
OR >600	32.1	49.9	54.6	55.7	55.8	56.0	56.2	56.2
OR >300	34.2	53.3	59.2	60.3	60.6	60.7	61.0	61.0
OR >150	34.4	53.9	60.3	62.0	62.2	62.4	62.6	62.6
OR > 0	34.7	54.9	62.6	65.2	67.1	70.8	74.5	75.0
TOTAL	417	660	752	784	807	851	895	901

TOTAL NUMBER OF OBS: 1202 PCT FREQ NH < 5/8: 25.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)										
	0	1	2	3	4	5	6	7	8	TOTAL
	4.0	4.0	6.6	5.4	4.7	5.8	11.0	10.2	37.5	10.8
										1284

AUGUST

PERIOD: (PRIMARY) 1951-1969  
(OVER-ALL) 1921-1969

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TABLE 8

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

VSBY (NM)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	.0	.0	.1	.1	.2	.1	.1	.0	.3	.1	.1	.2	.0	.2	.1	.0	.0	.0	.23	1.5
	.3	.0	.4	.1	.4	.2	.6	.5	1.5	1.1	1.7	.6	.7	.2	.2	.2	.0	.3	140	8.9
	4	0	9	3	4	10	10	8	27	19	28	13	11	6	4	3	0	4	163	10.4
1/2<1	.0	.0	.0	.1	.2	.1	.1	.1	.1	.1	.4	.2	.4	.1	.0	.0	.0	.0	.30	1.9
	.0	.0	.0	.0	.1	.0	.1	.1	.6	.6	.4	.3	.3	.2	.0	.1	.0	.0	41	2.6
	0	0	0	1	5	1	3	3	11	11	12	7	11	4	0	2	0	0	71	4.5
1<2	.0	.0	.1	.0	.1	.0	.3	.2	.1	.4	.3	.2	.2	.3	.0	.0	.0	.0	.33	2.1
	.0	.0	.1	.0	.1	.3	.1	.6	.4	.4	.8	.2	.4	.2	.2	.0	.0	.1	61	3.9
	0	0	4	0	4	3	5	12	9	13	17	6	9	8	3	0	1	94	6.0	
2<5	.1	.0	.2	.2	.8	.3	.6	.1	.6	.2	.2	.0	.4	.1	.1	.1	.0	.1	.63	4.0
	.1	.0	.3	.1	.4	.1	.4	.7	.6	.6	.8	.4	1.0	.4	.1	.1	.0	.2	99	6.3
	4	0	8	4	18	5	15	13	18	13	16	7	22	9	3	3	0	4	162	10.3
5<10	.3	.1	.1	.2	.4	.4	.2	.2	.7	.4	.5	.6	.6	.2	.0	.0	.0	.0	.75	4.8
	.4	.3	.3	.1	.5	.4	.8	1.1	1.7	1.4	2.4	1.7	4.7	2.0	1.0	.6	.0	.3	308	19.7
	10	6	5	5	15	14	15	20	38	28	46	35	82	35	15	9	0	5	383	24.5
10+	.1	.0	.1	.0	.0	.0	.2	.1	.3	.0	.3	.2	.2	.0	.0	.0	.0	.0	.21	1.3
	1.8	.4	.8	.3	.9	.7	1.1	.9	2.7	2.0	4.0	4.3	9.6	5.2	4.8	2.1	.0	1.2	672	42.9
	29	7	13	4	14	11	21	15	48	32	66	70	154	82	75	33	0	19	693	44.3
TOTAL	47	13	39	17	65	39	69	71	151	116	185	138	289	144	100	50	0	33	1566	100.0
PCT	3.0	.8	2.5	1.1	4.2	2.5	4.4	4.5	9.6	7.4	11.8	8.8	18.5	9.2	6.4	3.2	.0	2.1	100.0	

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PERIOD: (PRIMARY) 1951-1969  
(OVER-ALL) 1921-1969

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ESE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	11	.6
	4-10	.1	.0	.1	.0	.2	.3	.3	.1	.5	.3	.3	.3	.3	.1	.2	.1	.0	.0	46	2.5
	11-21	.0	.0	.2	.3	.2	.3	.3	.3	.7	.7	1.0	.3	.3	.1	.2	.1	.0	.0	83	4.5
	22+	.0	.0	.1	.0	.1	.0	.1	.3	.3	.0	.3	.3	.0	.2	.0	.0	.0	.0	25	1.4
	TOTAL	4	0	9	4	10	4	12	8	27	19	28	13	11	6	4	3	0	4	165	8.9
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.1
	4-10	.0	.0	.0	.0	.1	.0	.0	.1	.2	.2	.4	.2	.1	.0	.0	.1	.0	.0	17	.9
	11-21	.0	.0	.0	.1	.2	.1	.1	.1	.2	.4	.4	.2	.2	.1	.0	.0	.0	.0	34	1.8
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.2	.0	.2	.1	.4	.1	.0	.0	.0	.0	20	1.1
	TOTAL	0	0	0	1	5	1	3	3	11	11	13	7	12	4	0	2	0	0	73	4.0
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3	.2
	4-10	.0	.0	.1	.1	.1	.1	.0	.1	.2	.2	.2	.1	.2	.1	.1	.1	.0	.0	24	1.3
	11-21	.0	.0	.1	.1	.0	.1	.1	.4	.3	.4	.5	.2	.1	.2	.1	.0	.0	.0	47	2.5
	22+	.0	.0	.1	.1	.1	.1	.2	.1	.1	.1	.2	.1	.2	.2	.0	.0	.0	.0	24	1.3
	TOTAL	0	0	4	4	3	4	5	12	10	13	18	6	9	9	3	1	0	1	98	5.3
2<5	0-3	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	6	.3
	4-10	.1	.0	.2	.2	.4	.2	.2	.2	.3	.2	.2	.1	.5	.0	.0	.0	.0	.0	48	2.6
	11-21	.1	.0	.1	.4	.2	.7	.4	.4	.3	.4	.7	.3	.7	.1	.2	.0	.0	.0	75	4.1
	22+	.1	.0	.2	.1	.3	.1	.3	.2	.4	.1	.3	.1	.2	.4	.1	.2	.0	.0	50	2.7
	TOTAL	5	0	8	6	18	6	17	13	19	13	22	8	25	9	5	3	0	4	179	9.7
5<10	0-3	.0	.1	.1	.1	.1	.1	.1	.1	.2	.1	.0	.0	.0	.0	.1	.1	.0	.3	21	1.1
	4-10	.2	.1	.2	.3	.4	.4	.3	.4	.5	.3	.7	.2	.9	1.0	.5	.1	.0	.0	111	6.0
	11-21	.2	.1	.1	.4	.2	.7	.4	.5	1.3	.9	1.7	1.7	2.9	.8	.4	.3	.0	.0	219	11.9
	22+	.1	.1	.0	.3	.2	.4	.3	.3	.2	.4	.8	.3	1.4	.7	.3	.1	.0	.0	98	5.3
	TOTAL	10	7	6	15	16	15	16	24	42	31	58	39	95	45	24	10	0	6	449	24.3
10+	0-3	.2	.0	.1	.2	.0	.1	.2	.0	.1	.0	.1	.1	.1	.2	.1	.1	.0	1.1	42	2.3
	4-10	.6	.2	.5	.3	.3	.5	.5	.7	1.1	1.0	1.6	1.3	2.5	1.5	1.7	.5	.0	.0	270	14.6
	11-21	.9	.2	.3	.3	.5	.5	.5	.4	1.6	1.0	2.9	2.9	5.6	3.2	2.5	1.1	.0	.0	444	24.1
	22+	.2	.1	.2	.0	.3	.1	.3	.2	.7	.3	.5	.4	2.4	.7	.7	.2	.0	.0	124	6.7
	TOTAL	36	8	21	12	15	12	28	23	64	41	93	88	197	103	91	34	0	20	880	47.7
	TOTAL	55	15	48	42	67	42	81	83	173	128	232	161	349	176	127	53	0	35	1844	100.0
	PCT	3.0	.8	2.6	2.3	3.6	2.3	4.4	4.5	9.4	6.9	12.6	8.7	18.9	9.5	6.9	2.9	.0	1.9	100.0	

PERIOD: (PRIMARY) 1951-1969  
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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	9.8	2.1	4.9	12.8	20.4	17.4	3.7	.3	.9	.6	72.9	27.1	328
06009	13.9	2.3	6.5	16.5	17.4	14.8	3.9	.6	.6	1.9	78.4	21.6	310
12015	14.8	1.1	3.6	15.2	18.4	11.9	4.0	.0	.0	.4	69.3	30.7	277
18021	11.6	1.0	4.2	17.0	21.9	14.5	3.5	.6	.3	1.0	75.6	24.4	311
TOT	152	20	59	188	240	181	46	5	6	12	909	317	1226
PCT	12.4	1.6	4.8	15.3	19.6	14.8	3.8	.4	.5	1.0	74.1	25.9	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	7.8	.6	3.1	5.6	23.4	59.4	320
06009	7.6	2.6	4.0	9.2	22.4	54.1	303
12015	8.5	2.2	3.0	10.0	25.5	50.9	271
18021	8.8	2.9	1.3	7.1	23.4	56.5	308
TOT	98	25	34	95	284	666	1202
PCT	8.2	2.1	2.8	7.9	23.6	55.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	10.3	17.5	32.5	42.2	25.3	320
06009	13.9	22.8	43.6	36.3	20.1	303
12015	14.8	20.7	39.9	31.7	28.4	271
18021	11.4	18.5	39.0	38.0	23.1	308
TOT	150	238	464	448	290	1202
PCT	12.5	19.8	38.6	37.3	24.1	100.0

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PERIOD: (PRIMARY) 1951-1969  
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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				
65/69	.0	.0	.0	.0	.1	.0	.1	.0	.3	.2	3	.2
60/64	.0	.0	.0	.0	.3	.8	.5	.1	.1	1.7	25	1.7
55/59	.0	.0	.1	.0	.5	4.1	10.2	8.8	.5	23.7	345	23.7
50/54	.0	.0	.0	.0	1.0	4.3	26.0	35.1	.2	66.3	966	66.3
45/49	.0	.0	.0	.0	.2	.3	2.1	5.5	.2	8.0	117	8.0
TOTAL	0	0	1	0	31	137	566	721	31	1456	100.0	
PCT	.0	.0	.1	.0	2.1	9.4	38.9	49.5	2.1			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
.0	.1	.1	.3	.0	.3	.8	.2	.0	.1	.0	.1	.1
.5	1.0	2.0	2.2	4.1	6.1	5.7	1.8	.0	.3	.0	.3	.3
3.0	2.4	3.1	5.9	11.6	15.7	17.9	5.8	.0	1.0	.0	1.0	1.0
.1	.3	.4	.5	1.1	1.0	3.2	1.4	.0	.0	.0	.0	.0
53	55	81	130	244	336	402	134	0	21	0	21	21
3.6	3.8	5.6	8.9	16.8	23.1	27.6	9.2	.0	1.4	.0	1.4	1.4

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00&03	68	63	60	54	49	46	43	54.1	483		483
06&09	64	60	57	53	48	46	45	52.8	482		482
12&15	68	58	56	52	48	45	44	51.9	419		419
18&21	66	59	57	53	48	46	43	52.7	491		491
TOT	68	61	58	53	48	46	43	52.0	1875		1875

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
00&03	.0	.3	4.0	14.5	43.7	37.5	87				373
06&09	.0	.0	.8	8.5	34.6	56.1	90				376
12&15	.0	.0	1.2	5.3	37.0	56.5	91				322
18&21	.0	.0	2.3	8.8	40.2	48.7	89				388
TOT	0	1	31	137	566	722	89				1459

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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	41	45	49	53	57	61	65	TOT	W FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.3	.1	.3	.1	.1	10	.1	.7
9/10	.0	.1	.5	.7	.0	.0	.0	17	.5	.7
7/8	.0	.4	1.0	.9	.5	.0	.0	38	.4	2.4
6	.0	.3	1.0	.5	.1	.0	.0	26	.7	1.3
5	.0	.1	.4	2.4	1.8	.1	.0	64	1.5	3.3
4	.0	.1	1.1	4.0	1.3	.0	.0	87	2.1	4.4
3	.0	.0	1.6	4.2	.9	.0	.0	90	2.4	4.3
2	.0	.2	4.3	6.2	1.0	.0	.0	158	2.7	9.1
1	.0	.6	4.4	6.7	.2	.0	.0	160	3.2	8.7
0	.0	1.2	8.5	7.2	.4	.1	.0	234	4.2	13.3
-1	.0	.4	4.5	3.5	.1	.0	.0	114	1.9	6.6
-2	.0	.7	5.9	2.2	.0	.0	.0	118	.7	8.1
-3	.1	.3	4.2	1.3	.0	.0	.0	79	.7	5.1
-4	.0	.6	3.1	.6	.0	.0	.0	58	.4	3.9
-5	.0	.4	2.1	.4	.0	.0	.0	39	.3	2.6
-6	.0	.2	.5	.1	.0	.0	.0	11	.0	.8
-7/-8	.0	.6	.8	.2	.0	.0	.0	22	.1	1.5
-9/-10	.0	.0	.4	.1	.0	.0	.0	7	.0	.5
-11/-13	.0	.1	.4	.0	.0	.0	.0	7	.0	.5
TOTAL	2	73	579	563	107	15	2	1341	295	1046
PCT	.1	5.4	43.2	42.0	8.0	1.1	.1	100.0	22.0	78.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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TABLE 18

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

HGT	N					NE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.2	.6	.0	.0	.0	.0	.6	.0	.0	.0	.0	3
1-2	.2	.6	.0	.0	.0	.2	.2	.0	.0	.0	.0	2
3-4	.0	.2	1.0	.0	.0	.2	.4	.8	.0	.0	.0	7
5-6	.0	.4	1.6	.8	.0	.2	.2	.0	.0	.0	.0	2
7	.0	.0	.0	.2	.0	.0	.0	.2	.2	.0	.0	2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.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
TOTAL	2	9	13	5	0	3	7	5	2	0	0	17
PCT	.4	1.9	2.7	1.0	.0	.6	1.4	1.0	.4	.0	.0	3.5

HGT	E					SE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.0	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	3
1-2	.0	1.2	.4	.0	.0	.0	1.4	.6	.0	.0	.0	10
3-4	.0	.6	.8	.0	.0	.0	.4	2.3	.2	.0	.0	14
5-6	.0	.0	1.0	.0	.0	.2	.4	.8	.6	.0	.0	10
7	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	2
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.2	.0	.0	2
10-11	.0	.0	.2	.2	.0	.0	.0	.2	.0	.0	.0	1
12	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	0	10	13	4	0	1	16	20	5	0	0	42
PCT	.0	2.1	2.7	.8	.0	.2	3.3	4.1	1.0	.0	.0	8.6

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

HGT	S										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.0	.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	3
1-2	.0	1.4	1.4	.0	.0	.0	.0	1.4	1.9	.0	.0	.0	.0	16
3-4	.2	.2	2.1	.6	.0	.0	.0	3.3	3.9	.6	.0	.0	.0	33
5-6	.0	1.0	2.5	.6	.2	.0	.0	.8	4.7	.8	.0	.0	.0	31
7	.0	.2	1.4	.4	.2	.0	.0	.2	1.2	.2	.0	.0	.0	8
8-9	.0	.0	.6	.6	.0	.0	.0	.2	.4	.2	.0	.0	.0	4
10-11	.0	.0	.4	.6	.0	.0	.0	.0	.4	.6	.0	.0	.0	5
12	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1
13-16	.0	.0	.0	.2	.4	.0	.0	.0	.2	.6	.0	.0	.0	4
17-19	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	16	42	16	4	0	79	32	57	15	1	0	105	
PCT	.2	3.3	8.6	3.3	.8	.0	16.3	6.6	11.7	3.1	.2	.0	21.6	

HGT	W										TOTAL	48+	TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33					34-47
<1	.0	1.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	23
1-2	.0	3.9	2.1	.0	.0	.0	.0	1.2	1.6	.0	.0	.0	.0	14	97
3-4	.0	2.7	3.9	1.0	.0	.0	.0	1.2	2.5	.4	.0	.0	.0	20	139
5-6	.0	1.0	2.7	.6	.0	.0	.0	.4	1.6	.6	.0	.0	.0	14	118
7	.0	.0	1.2	1.0	.2	.0	.0	.0	.4	.2	.2	.0	.0	4	40
8-9	.0	.0	1.6	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	0	30
10-11	.0	.0	.6	.4	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	19
12	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	0	4
13-16	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	0	12
17-19	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	0	4
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
TOTAL	0	43	61	27	2	0	133	15	31	6	1	0	54	486	
PCT	.0	8.8	12.6	5.6	.4	.0	27.4	3.1	6.4	1.2	.2	.0	11.1	100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AUGUST

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	3.2	4.4	.0	.0	.0	.0	.0	.0	38
1-2	.4	11.2	7.8	.0	.0	.0	.0	.0	97
3-4	.4	8.8	15.8	2.8	.0	.0	.0	.0	139
5-6	.6	4.2	14.6	4.0	.2	.0	.0	.0	118
7	.0	.6	4.6	2.2	.6	.0	.0	.0	40
8-9	.0	.4	2.6	3.0	.0	.0	.0	.0	30
10-11	.0	.0	2.0	1.8	.0	.0	.0	.0	14
12	.0	.0	.4	1.2	.2	.0	.0	.0	4
13-16	.0	.0	.6	1.4	.4	.0	.0	.0	12
17-19	.0	.0	.0	.6	.2	.0	.0	.0	4
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
TOTAL	23	148	242	80	8	0	0	0	501
PCT	4.6	29.5	48.3	16.0	1.6	.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	1.8	9.1	19.9	9.7	2.4	1.5	1.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	252	3
6-7	.0	2.4	4.2	7.7	5.5	3.3	1.6	.7	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	152	6
8-9	.0	.2	1.1	2.6	2.2	1.5	1.8	.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	7
10-11	.0	.0	.5	.2	.2	2.0	.4	.2	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	8
12-13	.0	.0	.0	.0	.0	.2	.4	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	12
>13	.0	.0	.0	.2	.2	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	8.0	.0	.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	0
TOTAL	54	64	143	112	58	47	29	10	23	5	2	0	0	0	0	0	0	0	0	0	0	0	49	0
PCT	9.9	11.7	26.1	20.5	10.6	8.6	5.3	1.8	4.2	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	547	4

SEPTEMBER

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1908-1969

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				FRZG PCPN	SNOW	UTHR FRZN PCPN					FOC W0	SMOKE HAZE	DUST BLWG	DUST SNOW	SIG WEA		NO	
N	.3	.0	.1	.0	.0	.0	.0	.4	6	.0	.0	.0	.0	.0	.0	.0	4.1	63
NNE	.1	.2	.1	.0	.0	.0	.0	.4	6	.0	.0	.0	.0	.0	.0	.0	2.3	38
NE	.5	.0	.3	.0	.0	.0	.0	.8	11	.0	.0	.0	.0	.0	.0	.0	1.6	37
ENE	.4	.0	.4	.0	.0	.0	.0	.8	11	.0	.0	.0	.0	.0	.0	.0	.9	24
E	1.2	.0	.7	.0	.0	.0	.0	1.8	25	.0	.0	.0	.0	.0	.0	.0	3.1	74
ESE	1.1	.0	.6	.0	.0	.0	.0	1.7	23	.0	.0	.0	.0	.0	.0	.0	1.7	53
SE	.9	.0	.5	.0	.0	.0	.0	1.3	18	.0	.0	.0	.0	.0	.0	.0	3.1	78
SSE	.7	.0	.5	.0	.0	.0	.0	1.2	16	.0	.0	.0	.0	.0	.0	.0	1.8	65
S	.9	.1	.5	.0	.0	.0	.0	1.5	21	.0	.0	.0	.0	.0	.0	.0	5.2	131
SSW	.2	.0	.2	.0	.0	.0	.0	.4	6	.0	.0	.0	.0	.0	.0	.0	3.0	55
SW	.8	.1	.3	.0	.0	.0	.0	1.2	16	.0	.0	.0	.0	.0	.0	.0	6.0	107
WSW	.6	.1	.5	.0	.0	.0	.0	1.2	16	.1	.0	.0	.0	.0	.0	.0	6.1	105
W	1.1	.0	.5	.0	.0	.0	.0	1.6	22	.1	.0	.0	.0	.0	.0	.0	10.6	174
WNW	.3	.1	.2	.0	.0	.0	.0	.5	7	.0	.0	.0	.0	.0	.0	.0	9.4	137
NW	1.1	.0	.5	.0	.0	.0	.0	1.5	21	.0	.0	.0	.0	.0	.0	.0	7.3	122
NNW	.4	.0	.1	.0	.0	.0	.0	.5	7	.0	.0	.0	.0	.0	.0	.0	5.1	77
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.2	.0	.0	.0	.0	.4	5	.0	.0	.0	.0	.0	.0	.0	2.1	34
TOT OBS	147	8	86	0	0	0	0	119	237	2	119	8	0	0	0	1008	1374	
TOT PCT	10.7	.6	6.3	.0	.0	.0	.0	17.2	237	.1	8.7	.6	.0	.0	.0	73.4	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				FRZG PCPN	SNOW	UTHR FRZN PCPN					FOC W0	SMOKE HAZE	DUST BLWG	DUST SNOW	SIG WEA		NO	
00003	9.2	1.1	5.8	.0	.0	.0	.0	15.8	60	.3	9.2	.5	.0	.0	.0	.0	74.1	379
06009	9.8	1.1	6.7	.0	.0	.0	.0	17.6	63	.0	8.9	.3	.0	.0	.0	.0	73.2	358
12015	10.8	.6	6.7	.0	.0	.0	.0	17.5	55	.0	6.7	.0	.0	.0	.0	.0	75.9	315
18021	12.7	.6	5.6	.0	.0	.0	.0	18.6	63	.3	9.7	1.5	.0	.0	.0	.0	69.9	339
TOT	147	12	86	0	0	0	0	121	241	2	121	8	0	0	0	1019	1391	
PCT	10.6	.9	6.2	.0	.0	.0	.0	17.3	241	.1	8.7	.6	.0	.0	.0	.0	73.3	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1953-1969  
(OVER-ALL) 1908-1969

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)											HOURLY (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	.7	2.6	.9	.2	.0	79	4.5	16.8	5.2	9.8	4.0	.0	4.3	3.8	5.0	2.8
NNE	.2	1.3	.9	.4	.0	.0	49	2.8	12.7	2.9	.0	2.7	.0	3.4	3.8	2.9	2.8
NE	.3	.8	1.2	.4	.1	.0	50	2.8	14.6	2.9	.0	2.2	.0	3.4	3.8	2.9	2.8
ENE	.1	.6	.7	.3	.2	.0	34	1.9	16.8	1.0	2.0	2.2	3.2	2.7	1.9	2.6	.0
E	.2	1.4	1.7	1.2	.3	.0	85	4.8	17.2	4.2	5.9	6.9	8.1	3.7	.0	5.0	1.4
ESE	.2	.5	2.0	.8	.0	.0	62	3.5	16.3	3.2	2.0	4.2	.0	2.4	5.8	4.7	2.8
SE	.2	1.8	2.7	.5	.1	.0	92	5.2	13.3	6.4	9.8	4.2	12.9	5.2	1.9	3.4	6.9
SSE	.0	1.2	2.1	1.3	.2	.0	84	4.8	18.1	2.9	2.0	4.0	19.7	5.8	6.0	2.8	2.8
S	.1	2.2	4.9	1.5	.4	.0	159	9.0	16.9	9.8	5.9	8.4	3.2	5.8	15.4	10.4	18.1
SSW	.1	1.0	1.8	.7	.2	.0	67	3.8	16.5	3.9	.0	3.7	3.2	3.4	1.9	4.7	5.6
SW	.1	3.0	3.4	1.3	.1	.0	138	7.8	14.7	8.8	2.0	9.7	3.2	9.1	3.8	6.0	6.9
WSW	.2	2.2	3.8	1.0	.2	.0	127	7.2	15.1	8.6	7.8	6.7	4.8	7.6	13.5	6.3	2.8
W	.1	4.4	6.4	2.7	.3	.0	244	13.9	15.9	15.7	17.6	11.4	16.1	13.1	7.7	14.1	19.4
WNW	.1	2.3	6.4	1.9	.4	.0	196	11.1	16.6	9.6	15.7	10.9	12.9	12.8	11.5	10.4	12.5
NW	.2	1.6	4.9	2.2	.2	.0	160	9.1	17.5	9.6	9.8	8.2	11.3	9.5	11.5	9.1	5.6
NNW	.3	1.3	2.4	1.1	.3	.0	94	5.3	17.3	3.2	5.9	7.7	8.1	4.3	3.8	5.5	6.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	4.58	8.44	3.18	.57	0	38	2.2	.0	2.0	.0	2.7	.0	2.1	5.8	2.3	.0
TOT OBS	81	26.1	48.0	18.1	3.2	0	1758	100.0	15.8	407	51	403	62	328	52	383	72
TOT PCT	4.6	26.1	48.0	18.1	3.2	.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)											HOURLY (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	1.3	3.0	2.5	.5	.0	128	7.3	15.2	8.1	9.8	6.7	.0	7.6	7.7	7.8	5.6	
NE	.8	2.2	1.4	.2	.2	84	4.8	15.5	3.9	5.9	4.5	6.5	7.0	3.8	4.2	2.8	
E	1.2	3.4	2.9	.8	.1	147	8.4	16.8	7.4	7.8	11.2	8.1	6.1	5.8	9.7	4.2	
SE	1.3	4.6	3.1	1.0	.0	176	10.0	15.6	9.3	11.8	8.2	22.6	11.6	7.7	9.4	9.7	
S	1.1	6.1	4.2	1.3	.2	226	12.9	16.8	13.8	5.9	12.2	6.5	9.1	17.3	15.1	23.6	
SW	1.9	7.7	4.7	.8	.0	265	15.1	14.9	17.4	9.8	16.4	8.1	16.8	17.3	12.3	9.7	
W	2.0	12.8	7.8	2.2	.2	440	25.0	16.2	25.3	33.3	22.3	29.0	25.9	19.2	24.5	31.9	
NW	1.5	5.3	6.1	1.3	.2	254	14.4	17.4	12.8	15.7	15.9	19.4	13.7	15.4	14.6	12.5	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.2	7.92	5.75	1.42	.16	38	2.2	.0	2.0	.0	2.7	.0	2.1	5.8	2.3	.0	
TOT OBS	233	45.1	32.7	8.1	.9	1758	100.0	15.8	407	51	403	62	328	52	383	72	
TOT PCT	13.3	45.1	32.7	8.1	.9	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)					CALM		PCT		TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ		
00003	2.4	27.9	45.0	19.2	3.7	.0	1.7	16.0	100.0	458
06009	2.4	24.9	49.7	17.8	2.8	.0	2.4	15.8	100.0	465
12015	2.6	25.0	52.1	15.5	2.1	.0	2.6	15.1	100.0	380
18021	2.4	26.2	45.9	19.3	4.2	.0	2.0	16.2	100.0	455
TOT	43	458	844	318	57	0	38	15.8		1758
PCT	2.4	26.1	48.0	18.1	3.2	.0	2.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	TOTAL OBS	TOTAL OBS	TOTAL OBS	TOTAL OBS	
N	.9	.9	1.3	1.3	59	5.3			
NNE	.1	.2	.7	1.5	35	6.8			
NE	.3	.3	.4	1.6	36	6.6			
ENE	.1	.2	.4	1.0	24	6.8			
E	.1	.2	.4	4.0	63	7.5			
ESE	.0	.0	.5	3.0	47	7.7			
SE	.1	.6	1.0	3.1	65	7.0			
SSE	.0	.1	1.0	2.4	47	7.4			
S	.1	.5	2.0	6.1	117	7.3			
SSW	.2	.2	1.4	2.0	52	6.7			
SW	.4	.5	3.1	3.6	103	6.6			
WSW	.8	.3	3.0	3.4	100	6.4			
W	1.6	1.9	6.6	4.1	189	5.8			
WNW	2.2	1.5	5.3	3.0	161	5.4			
NW	1.7	1.9	3.5	2.1	124	5.2			
NNW	1.3	1.0	1.9	1.7	80	5.2			
VAR	.0	.0	.0	.0	0	.0			
CALM	.7	.3	.3	1.2	33	5.3			
TOT OBS	145	145	440	605	1335	6.2			
TOT PCT	10.9	10.9	33.0	45.3	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 ANY HGT	TOTAL OBS	
N	.1	.0	.3	.4	.6	.7	.1	.1	.0	.0	2.2	59	
NNE	.2	.0	.1	.7	.5	.4	.2	.1	.0	.0	.4	35	
NE	.5	.0	.3	.3	.8	.0	.0	.0	.0	.1	.7	36	
ENE	.2	.1	.1	.3	.5	.1	.0	.0	.0	.0	.4	24	
E	1.0	.1	.4	.8	.8	.4	.1	.0	.0	.1	1.0	63	
ESE	.6	.1	.5	.7	.8	.3	.1	.0	.0	.1	.4	47	
SE	.4	.4	.4	.5	.7	.7	.1	.0	.1	.4	1.1	65	
SSE	.7	.1	.4	.3	.6	.4	.0	.0	.1	.3	.6	47	
S	1.7	.2	.1	1.4	1.5	1.2	.4	.0	.3	.2	1.6	117	
SSW	.6	.0	.1	.4	.8	.5	.1	.0	.1	.1	1.1	52	
SW	.5	.3	.1	.9	1.5	1.6	.4	.0	.1	.1	2.2	103	
WSW	.3	.1	.1	1.0	1.8	1.1	.2	.0	.1	.1	2.5	100	
W	.4	.1	.4	1.2	3.4	2.2	.3	.0	.3	.1	5.8	189	
WNW	.1	.0	.1	1.3	1.9	3.2	.1	.2	.1	.0	5.0	161	
NW	.1	.1	.1	1.2	1.6	1.6	.1	.0	.0	.0	4.4	124	
NNW	.3	.0	.0	.4	1.0	1.1	.1	.0	.0	.1	3.0	80	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
CALM	.6	.0	.0	.2	.5	.1	.0	.0	.0	.1	1.0	33	
TOT OBS	111	20	48	160	261	211	32	5	19	20	448	1335	
TOT PCT	8.3	1.5	3.6	12.0	19.6	15.8	2.4	.4	1.4	1.5	33.6	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)	VSBY (NM)		>1		>1/2		>1/4		>50YD	
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >50YD	= OR >50YD	= OR >50YD
= OR >6500	1.3	1.6	1.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9
= OR >5000	1.7	1.9	2.2	3.2	3.3	3.3	3.3	3.3	3.3	3.3
= OR >3500	3.7	4.3	4.6	5.6	5.7	5.7	5.7	5.7	5.7	5.7
= OR >2000	11.4	19.2	20.3	21.3	21.5	21.5	21.5	21.5	21.5	21.5
= OR >1000	23.0	37.7	39.7	40.9	41.0	41.2	41.2	41.2	41.2	41.2
= OR >600	28.8	47.3	50.6	52.5	53.0	53.1	53.2	53.2	53.2	53.2
= OR >300	29.9	49.3	53.7	56.0	56.5	56.7	56.8	56.8	56.8	56.8
= OR >150	30.3	50.1	55.0	57.3	57.8	58.1	58.2	58.2	58.2	58.2
= OR > 0	30.5	51.3	57.7	61.7	63.7	65.4	66.5	66.5	66.5	66.5
TOTAL	410	691	777	831	858	880	895	895	895	895

TOTAL NUMBER OF OBS: 1346 PCT FREQ NH < 5/8: 33.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	3.5	5.0	9.2	9.4	6.4	7.1	11.6	11.4	28.8	7.5
										1388
										895

SEPTEMBER

PERIOD: (PRIMARY) 1953-1969  
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TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	.0 .0 0	.1 .1 2	.1 .1 2	.1 .1 2	.0 .0 0	.2 .1 5	.1 .1 3	.0 .1 2	.1 .4 8	.1 1.0 15	.1 .4 6	.0 .4 6	.1 .1 3	.0 .1 2	.0 .0 0	.0 .1 1	.0 .0 0	.0 .0 0	.0 .1 3	14 44 58	1.0 3.2 4.2	
1/2<1	.0 .0 0	.0 .0 0	.1 .1 2	.1 .1 2	.0 .0 0	.1 .2 4	.3 .0 4	.0 .1 2	.2 .3 7	.4 1.0 19	.0 .1 1	.1 .1 3	.1 .0 2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	19 25 44	1.4 1.8 3.2	
1<2	.0 .0 0	.1 .1 2	.2 .0 3	.2 .0 3	.1 .0 2	.3 .2 7	.1 .0 1	.6 .4 13	.4 .5 12	.1 .6 9	.2 .1 4	.2 .0 3	.1 .1 3	.1 .1 3	.0 .0 0	.0 .1 1	.0 .1 1	.0 .0 0	.0 .0 0	.1 .1 3	37 30 67	2.7 2.2 4.9
2<5	.2 .1 4	.1 .0 2	.2 .1 5	.2 .1 5	.4 .0 5	.5 .6 15	.9 .4 17	.1 .5 9	.1 .7 12	.4 1.0 18	.0 .1 1	.1 .5 8	.0 .1 1	.2 .1 5	.1 .2 5	.3 .1 6	.0 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	51 64 115	3.7 4.7 8.4
5<10	.1 1.2 18	.1 .3 5	.2 .6 11	.2 .6 11	.1 .4 7	.6 1.0 21	.1 .5 8	.4 1.2 22	.2 1.0 16	.5 1.8 32	.1 1.2 18	.7 2.2 39	.4 1.8 30	1.0 2.9 54	.2 3.1 45	1.0 1.5 33	.5 1.5 28	.0 .0 0	.0 .4 5	85 307 392	6.2 22.4 28.7	
10+	.1 2.9 41	.1 1.9 27	.0 1.0 14	.0 1.0 14	.2 .4 9	.1 1.5 22	.2 1.2 19	.0 2.0 28	.1 .7 10	.1 2.7 38	.0 1.8 25	.1 3.4 48	.3 4.5 65	.3 7.7 110	.1 6.2 87	.3 5.6 80	.0 3.4 46	.0 .0 0	.1 1.6 23	29 663 692	2.1 48.5 50.6	
TOTAL PCT	63 4.6	38 2.8	37 2.7	37 2.7	23 1.7	74 5.4	52 3.8	76 5.6	65 4.8	131 9.6	55 4.0	107 7.8	104 7.6	174 12.7	137 10.0	121 8.8	77 5.6	0 .0	34 2.5	1368 100.0	100.0	

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PERIOD: (PRIMARY) 1953-1969  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NMW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	5	.3	
	4-10	.0	.1	.1	.0	.1	.1	.1	.1	.3	.1	.2	.1	.1	.0	.0	.0	.0	.0	21	1.2	
	11-21	.0	.1	.0	.0	.1	.1	.1	.3	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	23	1.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.0	10	.6	
TOTAL	0	2	2	0	0	5	3	2	8	15	6	6	3	2	0	1	0	0	4	59	3.4	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.1	
	4-10	.0	.0	.1	.0	.1	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	8	.5
	11-21	.0	.0	.0	.0	.0	.1	.1	.2	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	26	1.5	
	22+	.0	.0	.1	.0	.1	.1	.1	.2	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	11	.6	
TOTAL	0	0	2	0	4	4	4	2	7	19	2	3	2	0	0	1	0	0	1	47	2.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3	.2	
	4-10	.0	.1	.0	.0	.0	.0	.1	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	8	.5	
	11-21	.0	.0	.1	.0	.1	.0	.6	.3	.2	.1	.1	.2	.1	.0	.0	.1	.0	.0	29	1.7	
	22+	.0	.1	.1	.1	.4	.1	.1	.3	.3	.2	.1	.0	.0	.0	.1	.0	.0	.0	31	1.8	
TOTAL	0	2	3	2	1	8	1	13	12	9	5	3	4	3	0	2	1	0	3	71	4.1	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.1	
	4-10	.1	.0	.1	.1	.1	.1	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	15	.9	
	11-21	.2	.1	.1	.2	.4	.6	.4	.2	.7	.0	.3	.0	.2	.2	.2	.1	.0	.0	65	3.7	
	22+	.0	.1	.1	.1	.3	.1	.1	.4	.4	.1	.2	.0	.2	.2	.1	.1	.0	.0	48	2.8	
TOTAL	4	2	6	7	17	16	9	14	21	21	1	9	1	7	7	6	3	0	0	130	7.5	
5<10	0-3	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.3	10	.6
	4-10	.2	.1	.2	.0	.5	.1	.3	.2	.5	.2	1.1	.7	1.1	.6	.4	.3	.0	.0	114	6.6	
	11-21	.7	.2	.4	.3	.6	.7	.7	.4	1.2	.5	1.0	1.0	1.8	1.7	1.6	1.3	.0	.0	242	13.9	
	22+	.4	.1	.1	.2	.3	.1	.3	.5	.5	.3	.6	.3	1.0	.6	.7	.5	.0	.0	116	6.7	
TOTAL	24	6	13	8	24	24	11	25	39	39	18	46	38	67	51	49	38	0	6	482	27.7	
10+	0-3	.2	.2	.2	.1	.2	.2	.1	.0	.1	.1	.1	.1	.1	.1	.1	.1	.2	.0	1.4	59	3.4
	4-10	.5	1.1	.3	.5	.6	.3	1.2	.6	1.0	.6	1.6	1.2	3.2	1.8	1.2	.9	.0	.0	284	16.3	
	11-21	1.6	.6	.6	.2	.7	.7	.9	.5	1.5	1.0	2.0	2.5	4.4	4.6	3.1	1.0	.0	.0	449	25.8	
	22+	.6	.2	.2	.1	.1	.2	.0	.1	.6	.2	.5	.7	1.8	1.5	1.3	.8	.0	.0	158	9.1	
TOTAL	50	37	23	16	27	24	37	20	55	55	33	71	78	165	138	100	52	0	24	950	54.6	
TOTAL	78	49	49	33	84	60	88	80	158	158	65	138	126	244	196	159	94	0	38	1739	100.0	
PCT	4.5	2.8	2.8	1.9	4.8	3.5	5.1	4.6	9.1	9.1	3.7	7.9	7.2	14.0	11.3	9.1	5.4	.0	2.2	100.0		

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	6.8	2.1	3.1	12.0	18.0	18.5	2.1	.3	.5	1.3	64.8	35.2	383
06009	9.1	1.4	3.1	12.9	17.7	18.3	2.6	.3	2.0	.6	68.0	32.0	350
12015	10.5	1.3	3.0	10.8	18.7	10.2	2.6	.3	2.0	2.3	61.6	38.4	305
18021	7.6	.9	4.9	11.3	23.8	14.3	2.4	.6	1.2	1.8	68.9	31.1	328
TOT	115	20	48	161	266	213	33	5	19	20	900	466	1366
PCT	8.4	1.5	3.5	11.8	19.5	15.6	2.4	.4	1.4	1.5	65.9	34.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.1	1.9	3.7	5.6	21.5	65.2	376
06009	4.3	1.7	4.0	4.6	28.9	56.4	346
12015	2.0	1.3	6.0	8.4	29.4	52.8	299
18021	2.8	3.4	3.1	8.3	27.7	54.8	325
TOT	38	28	56	89	359	776	1346
PCT	2.8	2.1	4.2	6.6	26.7	57.7	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	TOTAL OBS
00003	6.6	12.2	26.6	39.6	33.8	376
06009	9.2	14.2	30.3	38.4	31.2	346
12015	10.4	15.4	31.1	31.8	37.1	299
18021	8.0	15.4	29.8	40.0	30.2	325
TOT	114	191	395	507	444	1346
PCT	8.5	14.2	29.3	37.7	33.0	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				
65/69	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
60/64	.0	.0	.4	.4	.4	.2	.1	.1	.1	.1	18	1.3
55/59	.0	.0	.0	.1	.7	2.2	3.6	3.3	3.3	3.3	138	10.0
50/54	.0	.0	.0	.3	2.4	7.0	20.7	23.8	23.8	23.8	751	54.3
45/49	.0	.0	.0	.0	1.5	6.3	10.5	14.5	14.5	14.5	453	32.7
40/44	.0	.0	.0	.0	.1	.4	.4	.7	.7	.7	22	1.6
35/39	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	1	.1
TOTAL	.0	.0	.0	12	71	223	490	588	588	588	1384	100.0
PCT	.0	.0	.9	5.1	16.1	35.4	42.5	42.5	42.5	42.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.1	.0	.0	.2	.0	.0	.7	.2	.0	.1	.0	.1	.1
1.0	.2	1.0	1.4	2.4	1.2	1.8	.7	.0	.0	.0	.2	.2
3.6	3.4	5.2	5.7	8.9	9.0	12.1	5.3	.0	.0	.0	1.1	.8
2.7	1.4	1.7	1.7	1.2	4.6	10.7	8.0	.0	.0	.0	.8	.8
.1	.1	.1	.0	.1	.1	.4	.7	.0	.0	.0	.1	.1
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
104	70	110	125	174	206	356	206	.0	.0	.0	33	.0
7.5	5.1	7.9	9.0	12.6	14.9	25.7	14.9	.0	.0	.0	2.4	.0

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	64	63	59	52	46	45	41	52.0	461		
06009	61	60	55	50	46	43	39	50.4	472		
12015	58	56	55	50	45	43	39	49.9	387		
18021	65	58	55	50	45	43	41	50.5	452		
TOT	65	61	56	50	46	43	39	50.7	1772		

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
00003	.0	2.2	7.2	20.4	33.4	36.7	85				
06009	.0	.5	4.8	13.7	36.2	44.8	87				
12015	.0	.0	3.0	16.2	38.4	42.4	87				
18021	.0	.5	4.9	14.2	34.1	46.3	87				
TOT	0	12	71	226	497	598	87				

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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	37	41	45	49	53	57	61	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.5	7	.0	.6
9/10	.0	.0	.0	.0	.0	.3	.2	6	.1	.4
7/8	.0	.0	.0	.0	.9	.4	.2	19	.3	1.2
6	.0	.0	.0	.3	.2	.1	.1	10	.3	.5
5	.0	.0	.0	.6	2.2	.6	.1	43	.4	3.0
4	.0	.0	.2	1.8	2.4	.5	.0	62	1.1	3.8
3	.0	.0	.0	2.1	3.0	.5	.0	70	1.0	4.5
2	.0	.0	.7	4.2	3.9	.4	.1	117	1.4	7.8
1	.0	.0	1.2	5.0	3.5	.2	.0	125	.8	9.1
0	.0	.0	3.2	9.8	2.4	.2	.0	196	1.3	14.2
-1	.0	.0	1.9	6.1	1.3	.1	.0	119	.6	8.8
-2	.0	.2	3.7	5.4	1.3	.0	.0	134	.5	10.1
-3	.0	.2	4.0	4.9	.6	.0	.0	124	.4	9.4
-4	.0	.6	3.7	2.4	.2	.0	.0	87	.2	6.6
-5	.1	.2	1.4	1.7	.2	.0	.0	45	.2	3.4
-6	.0	.2	.5	.8	.1	.0	.0	19	.1	1.4
-7/-8	.0	.9	1.4	1.1	.2	.0	.0	45	.2	3.4
-9/-10	.1	.2	1.0	.9	.0	.0	.0	28	.0	2.2
-11/-13	.1	.1	.5	.2	.0	.0	.0	10	.1	.7
-14/-16	.0	.0	.2	.0	.0	.0	.0	2	.0	.2
TOTAL	3	31	298	596	286	41	13	1268	113	1155
PCT	.2	2.4	23.5	47.0	22.6	3.2	1.0	100.0	8.9	91.1

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 TABLE 18

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

HGT	N										NE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	1.1	.0	.0	.0	.0	6	.0	.4	.0	.0	.0	.0	2							
1-2	.0	.6	.7	.0	.0	.0	7	.0	.4	.6	.0	.0	.0	5							
3-4	.0	.7	1.9	.0	.0	.0	14	.0	.2	.4	.0	.0	.0	3							
5-6	.0	.0	1.3	.2	.2	.0	19	.0	.2	.6	.0	.0	.0	4							
7	.0	.0	.2	.7	.0	.0	5	.0	.0	.0	.4	.2	.0	3							
8-9	.0	.0	.6	.7	.0	.0	7	.0	.0	.0	.0	.2	.0	1							
10-11	.0	.0	.2	.2	.4	.0	4	.0	.0	.0	.2	.0	.0	1							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	13	26	11	3	0	53	0	6	8	3	2	0	19							
PCT	.0	2.4	4.8	2.0	.6	.0	9.8	.0	1.1	1.5	.6	.4	.0	3.5							

HGT	E										SE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	0	.0	.9	.0	.0	.0	.0	5							
1-2	.2	.4	.2	.0	.0	.0	4	.0	.6	.6	.0	.0	.0	6							
3-4	.0	.7	1.3	.6	.0	.0	14	.0	.2	1.7	.2	.0	.0	11							
5-6	.0	.7	1.5	.2	.0	.0	13	.0	.0	.9	.4	.0	.0	7							
7	.0	.0	.2	.6	.4	.0	6	.0	.0	1.1	.4	.0	.0	8							
8-9	.0	.0	.0	.4	.0	.0	2	.0	.0	.0	.0	.2	.0	1							
10-11	.0	.0	.2	.2	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
12	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	1	10	18	11	3	0	43	0	9	23	5	1	0	38							
PCT	.2	1.9	3.3	2.0	.6	.0	8.0	.0	1.7	4.3	.9	.2	.0	7.0							

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TABLE 18

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0							
1-2	.0	1.3	.7	.0	.0	.0	11	.4	1.1	1.1	.0	.0	.0	.0							
3-4	.0	1.1	1.1	.4	.0	.0	14	.0	.9	1.3	.4	.0	.0	.0							
5-6	.0	.0	2.2	.4	.0	.0	14	.0	1.1	3.5	1.1	.0	.0	.0							
7	.0	.0	1.1	.4	.0	.0	8	.0	.0	1.1	.4	.0	.0	.0							
8-9	.0	.0	.2	.6	.0	.0	4	.0	.0	.6	.0	.0	.0	.0							
10-11	.0	.0	.2	.2	.0	.0	2	.0	.0	.2	.0	.0	.0	.0							
12	.0	.0	.2	.0	.2	.0	2	.0	.0	.2	.4	.2	.0	.0							
13-16	.0	.0	.0	.4	.0	.0	2	.0	.0	.0	.0	.2	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
TOTAL	0	13	31	12	1	0	57	3	20	43	12	2	0	80							
PCT	.0	2.4	5.7	2.2	.2	.0	10.6	.6	3.7	8.0	2.2	.4	.0	14.8							

HGT	W										NW										GRAND TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.2	1.3	.0	.0	.0	.0	8	.2	.7	.0	.0	.0	.0	.0							
1-2	.0	2.6	2.2	.0	.0	.0	26	.2	1.7	1.5	.0	.0	.0	.0							
3-4	.0	3.0	2.0	.4	.0	.0	29	.0	1.1	3.3	.0	.0	.0	.0							
5-6	.0	2.0	3.5	1.1	.4	.0	38	.0	.2	2.0	2.0	.2	.0	.0							
7	.0	.0	.9	2.0	.0	.0	16	.0	.4	1.7	1.3	.0	.0	.0							
8-9	.0	.0	.7	.7	.0	.0	8	.0	.2	.6	1.1	.2	.0	.0							
10-11	.0	.2	.0	.7	.2	.0	6	.0	.0	.0	.4	.0	.0	.0							
12	.0	.0	.4	.2	.2	.0	4	.0	.0	.0	.2	.0	.0	.0							
13-16	.0	.0	.0	.2	.4	.0	3	.0	.0	.0	.2	.2	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
TOTAL	1	49	53	29	6	0	138	2	23	49	35	3	0	112							
PCT	.2	9.1	9.8	5.4	1.1	.0	25.6	.4	4.3	9.1	6.5	.6	.0	20.7							

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	2.5	4.9	.0	.0	.0	.0	.0	.0	41
1-2	.7	8.3	7.4	.0	.0	.0	.0	.0	91
3-4	.0	7.8	12.7	3.1	.0	.0	.0	.0	130
5-6	.0	4.2	15.2	5.3	.7	.0	.0	.0	140
7	.0	.4	6.2	6.0	.5	.0	.0	.0	72
8-9	.0	.2	2.5	3.4	.5	.0	.0	.0	37
10-11	.0	.2	.7	1.8	.5	.0	.0	.0	18
12	.0	.0	.7	.9	.5	.0	.0	.0	12
13-16	.0	.0	.0	.9	.7	.0	.0	.0	9
17-19	.0	.0	.0	.0	.2	.0	.0	.0	1
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
TOTAL	18	143	251	118	21	0	0	0	551
PCT	3.3	26.0	45.6	21.4	3.8	.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	3-4	5-6	7	8-9	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	1.3	8.4	14.2	10.8	4.1	.9	.2	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260	4
6-7	.2	.3	7.1	8.7	7.3	3.6	2.2	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	5
8-9	.0	.3	.6	3.3	3.6	1.4	1.1	.6	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	7
10-11	.0	.2	.2	.6	.9	.9	1.1	.3	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	9
12-13	.0	.0	.0	.0	.6	.2	.6	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
>13	.0	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	5.5	.0	.3	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	0
TOTAL	44	61	142	148	105	47	33	21	30	1	0	0	0	0	0	0	0	0	0	0	0	0	632	5
PCT	7.0	9.7	22.5	23.4	16.6	7.4	5.2	3.3	4.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1951-1969  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	HAIL PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER PCPN					FOG WD	SMOKE	HAZE	DUST	
N	.4	.0	.5	.0	.2	.0	.0	1.1	11	.0	.0	.0	.0	5.6	
NNE	.4	.0	.3	.0	.0	.0	.0	.7	7	.0	.0	.0	.0	2.2	
NE	.7	.1	.2	.0	.0	.0	.0	1.0	10	.0	.0	.0	.0	1.9	
ENE	.7	.0	.0	.0	.0	.0	.0	.7	7	.0	.0	.0	.0	1.8	
E	.7	.1	.4	.0	.0	.0	.0	1.1	11	.0	.1	.0	.0	3.9	
ESE	.5	.1	.1	.0	.0	.0	.0	.7	7	.0	.0	.0	.0	1.9	
SE	.5	.1	.2	.0	.0	.0	.0	.8	8	.0	.2	.0	.0	1.9	
SSE	1.0	.1	.3	.0	.0	.0	.0	1.4	14	.0	.0	.0	.0	1.5	
S	.9	.1	1.0	.0	.0	.0	.0	1.9	20	.0	.2	.0	.0	3.3	
SSW	.4	.2	.0	.0	.0	.0	.0	.6	6	.0	.0	.0	.0	3.2	
SW	1.7	.4	1.0	.0	.0	.0	.0	2.5	26	.0	.2	.0	.0	4.1	
WSW	1.0	.2	.6	.0	.1	.0	.0	1.5	15	.0	.5	.0	.0	6.2	
W	.5	.2	.4	.0	.3	.0	.1	1.5	15	.0	.0	.0	.0	15.4	
WNW	.1	.0	.1	.0	.0	.0	.0	.2	2	.0	.0	.0	.0	8.1	
NW	.8	.1	.0	.0	.1	.0	.1	1.1	11	.0	.0	.0	.0	11.5	
NNW	.5	.0	.1	.0	.0	.0	.0	.6	6	.0	.0	.0	.0	7.9	
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	.0	.0	.0	.0	
TOT OBS	108	17	52	0	7	0	2	17.2	176	0	12	1	0	837	
TOT PCT	10.5	1.7	5.1	.0	.7	.0	.2	17.2	176	.0	1.2	.1	.0	81.6	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	HAIL PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER PCPN					FOG WD	SMOKE	HAZE	DUST	
00003	5.7	.7	3.6	.0	1.1	.0	.0	11.1	31	.0	2.2	.0	.0	86.7	
06009	10.3	2.4	4.8	.0	.4	.0	.4	17.5	44	.0	1.2	.0	.0	81.3	
12015	15.3	1.6	6.5	.0	.8	.0	.4	23.0	57	.0	.0	.4	.0	76.6	
18021	10.9	2.0	5.5	.0	.4	.0	.0	17.2	44	.0	1.2	.0	.0	81.6	
TOT	108	17	52	0	7	0	2	17.2	176	0	12	1	0	846	
PCT	10.4	1.6	5.0	.0	.7	.0	.2	17.0	176	.0	1.2	.1	.0	81.7	

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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	1.9	2.5	1.9	.8	.1	98	7.3	20.0	7.3	10.3	7.0	4.8	6.7	20.0	7.0	7.8
NNE	.0	1.0	.9	.7	.1	.1	37	2.7	18.5	2.7	3.4	3.5	.0	3.5	8.0	1.6	.0
NE	.0	.6	1.2	.4	.4	.0	35	1.2	19.4	1.2	.0	3.8	4.8	5.5	.0	1.3	.0
ENE	.0	.7	.7	.4	.1	.0	27	2.4	18.1	2.4	3.4	2.2	9.5	2.8	.0	.6	.0
E	.1	.8	1.3	1.3	1.0	.0	59	3.9	22.7	3.9	.0	2.9	9.5	4.3	4.0	6.4	5.9
ESE	.1	.7	.7	.6	.1	.0	30	1.8	16.9	1.8	3.4	1.9	4.8	2.8	4.0	2.2	2.0
SE	.2	.6	1.1	.8	.1	.0	38	1.8	16.9	1.8	3.4	4.2	9.5	2.4	8.0	1.9	3.9
SSE	.0	.8	1.5	.7	.1	.0	43	3.9	17.7	3.9	13.8	2.6	.0	1.2	.0	3.2	9.8
S	.0	1.4	2.3	1.6	.1	.1	75	6.9	18.7	6.9	6.9	5.1	.0	5.5	12.0	4.5	5.9
SSW	.1	1.0	1.7	1.5	.3	.1	63	5.1	19.9	5.1	6.9	2.9	.0	3.9	4.0	6.4	7.8
SW	.2	1.0	2.5	2.6	1.0	.0	99	6.3	21.2	6.3	20.7	6.4	14.3	7.1	12.0	7.0	11.8
WSW	.1	1.6	3.3	2.8	.5	.0	111	8.5	19.7	8.5	10.3	8.3	9.5	7.5	8.0	7.7	13.7
W	.2	3.1	6.5	4.5	1.2	.1	210	16.0	19.2	16.0	.0	16.6	14.3	16.9	12.0	16.6	7.8
WNW	.0	1.5	3.8	2.5	.7	.0	113	8.2	19.2	8.2	.0	8.3	9.5	7.5	4.0	10.9	7.8
NW	.1	2.0	4.9	4.0	.7	.2	161	13.6	19.9	13.6	6.9	13.7	4.8	14.2	.0	9.6	7.8
NNW	.1	.8	4.2	3.0	1.0	.0	122	9.7	21.3	9.7	10.3	9.3	4.8	7.5	4.0	10.5	7.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	265	524	392	112	10	16	.6	19.4	.6	.0	1.3	.0	.8	.0	2.6	.0
TOT OBS	34	19.8	39.2	29.3	8.4	.7	1337	331	29	313	21	254	25	313	51	313	51
TOT PCT	2.5	19.8	39.2	29.3	8.4	.7	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	1.0	3.4	3.4	1.9	.5	135	10.1	19.6	10.0	13.8	10.5	.8	10.2	28.0	8.6	7.8
NE	.1	2.5	1.1	.8	.1	62	4.6	18.8	3.6	3.4	6.1	4.3	8.3	.0	1.9	.0
E	.4	2.3	1.9	1.6	.4	89	6.7	20.7	5.7	3.4	4.8	4.3	7.1	8.0	8.6	7.8
SE	.8	2.3	1.9	1.0	.0	81	6.1	17.3	5.7	17.2	6.7	9.5	3.5	8.0	5.1	13.7
S	.8	3.9	3.4	1.9	.2	138	10.3	19.2	12.1	13.8	8.0	.0	9.4	16.0	10.9	13.7
SW	1.0	5.2	5.6	3.6	.3	210	15.7	20.4	14.8	31.0	14.7	23.8	14.6	20.0	14.7	25.5
W	1.6	8.8	9.3	4.1	.3	323	24.2	19.2	24.2	.0	24.9	23.8	24.4	16.0	27.5	15.7
NW	1.6	6.0	9.2	3.7	.7	283	21.2	20.5	23.3	17.2	23.0	9.5	21.7	4.0	20.1	15.7
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	459	481	249	34	16	1.2	19.4	.6	.0	1.3	.0	.8	.0	2.6	.0
TOT OBS	114	34.3	36.0	18.6	2.5	1337	100.0	100.0	331	29	313	21	254	25	313	51
TOT PCT	8.5	34.3	36.0	18.6	2.5	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)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)							TOTAL OBS		
	1-3	4-10	11-21	22-33	34-47	48+	CALM			
00003	.8	18.3	41.4	30.0	8.6	.3	.6	19.8	100.0	360
06009	1.8	20.7	41.3	27.5	6.0	1.5	1.2	18.9	100.0	324
12015	1.8	21.1	36.6	31.2	7.9	.7	.7	19.2	100.0	279
18021	1.1	19.5	37.1	28.8	10.7	.5	2.2	19.8	100.0	364
TOT	18	265	524	392	112	10	16	19.4		1337
PCT	1.3	19.8	39.2	29.3	8.4	.7	1.2		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 &	OBSCD	8 &	8 &	8 &		
N	.6	.7	2.8	2.2	2.2	6.1	6.1	6.1	61	6.1
NNE	.4	.1	.8	1.5	1.5	6.4	6.4	6.4	27	6.4
NE	.0	.0	.6	1.7	1.7	7.5	7.5	7.5	22	7.5
ENE	.1	.4	.3	1.7	1.7	6.8	6.8	6.8	24	6.8
E	.0	.0	1.1	3.4	3.4	7.7	7.7	7.7	44	7.7
ESE	.1	.1	.3	1.8	1.8	7.2	7.2	7.2	22	7.2
SE	.2	.0	.4	1.7	1.7	7.1	7.1	7.1	22	7.1
SSE	.1	.3	.6	1.5	1.5	6.8	6.8	6.8	24	6.8
S	.2	.4	1.5	3.3	3.3	7.0	7.0	7.0	52	7.0
SSW	.3	.4	1.1	2.5	2.5	6.6	6.6	6.6	42	6.6
SW	.1	1.1	1.5	3.5	3.5	6.8	6.8	6.8	60	6.8
WSW	1.0	2.0	2.9	2.2	2.2	5.5	5.5	5.5	78	5.5
W	1.5	4.1	8.9	3.1	3.1	5.4	5.4	5.4	168	5.4
WNW	1.0	2.3	4.6	1.3	1.3	5.2	5.2	5.2	88	5.2
NW	2.3	2.3	5.4	2.7	2.7	5.2	5.2	5.2	122	5.2
NNW	1.4	1.5	3.9	2.8	2.8	5.7	5.7	5.7	91	5.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	.4	.1	.5	.1	.1	4.8	4.8	4.8	11	4.8
TOT OBS	94	152	358	354	354	958	958	958	958	958
TOT PCT	9.8	15.9	37.4	37.0	37.0	100.0	100.0	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)												TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS					
	000	149	150	299	300	599	600	999	1000	1999	3499	4999				5000	6499	7999	8000+	
N	.0	.0	.0	.0	.3	1.5	1.5	1.3	.8	.2	.0	.0	.0	.0	.0	.0	2.3	61	2.3	61
NNE	.0	.0	.0	.0	.1	.1	1.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.8	27	.8	27
NE	.1	.1	.1	.1	.2	.8	.5	.2	.2	.1	.0	.0	.0	.0	.0	.0	.2	22	.2	22
ENE	.0	.0	.0	.0	.1	.3	.7	.5	.5	.1	.0	.0	.0	.0	.0	.0	.7	24	.7	24
E	.2	.2	.0	.0	.2	.7	1.7	.8	.8	.1	.0	.0	.0	.0	.0	.0	.8	44	.8	44
ESE	.1	.1	.0	.0	.1	.4	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.3	22	.3	22
SE	.1	.1	.0	.0	.2	.4	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.2	22	.2	22
SSE	.1	.1	.0	.0	.2	.6	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.5	24	.5	24
S	.1	.1	.0	.0	.2	.6	1.4	.9	.9	.3	.0	.0	.0	.0	.0	.0	.9	52	.9	52
SSW	.0	.0	.1	.1	.2	.9	1.4	.4	.4	.1	.0	.0	.0	.0	.0	.0	1.9	24	1.9	24
SW	.3	.3	.0	.0	.3	1.6	1.4	.4	.4	.1	.0	.0	.0	.0	.0	.0	1.3	42	1.3	42
WSW	.0	.0	.0	.0	.0	1.6	1.1	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	1.6	60	1.6	60
W	.0	.0	.0	.0	.0	.9	2.3	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	3.7	78	3.7	78
WNW	.1	.1	.0	.0	.1	1.8	4.3	3.0	3.0	.2	.0	.0	.0	.0	.0	.0	7.8	168	7.8	168
NW	.2	.2	.1	.1	.2	.4	2.5	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	4.3	88	4.3	88
NNW	.2	.2	.0	.0	.3	1.0	3.5	2.3	2.3	.1	.0	.0	.0	.0	.0	.0	5.2	122	5.2	122
VAR	.0	.0	.0	.0	.1	1.3	2.2	1.1	1.1	.2	.0	.0	.0	.0	.0	.0	4.5	91	4.5	91
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	0
TOT OBS	15	15	3	3	26	129	259	154	154	14	2	0	0	0	0	0	351	958	351	958
TOT PCT	1.6	1.6	.3	.3	2.7	13.5	27.0	16.1	16.1	1.5	.2	.0	.0	.0	.0	.0	36.6	100.0	36.6	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)	>10		>5		>2		>1		>1/2		>1/4		>50YD		>0	
	= OR	= DR	= OR	= DR	= OR	= DR	= OR	= DR	= OR	= DR	= OR	= DR	= OR	= DR	= OR	= DR
= OR >6500	.2	.3	.4	.5	.5	.7	.5	.7	.5	.7	.5	.7	.5	.7	.5	.7
= OR >5000	.2	.5	.6	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	.7	1.8	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 >2000	10.2	17.4	18.6	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7
= OR >1000	25.1	42.1	44.8	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4	45.4
= OR >500	30.4	52.0	57.6	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
= OR >300	31.1	54.0	60.2	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
= OR >150	31.2	54.1	60.4	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
= OR > 0	31.4	54.7	61.3	63.1	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
TOTAL	303	527	591	608	611	611	611	611	611	611	611	611	611	611	611	611

TOTAL NUMBER OF OBS: 964 PCT FREQ NH <5/8: 36.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)		TOTAL								
0	1	2	3	4	5	6	7	8	OBSCD	OBS
2.5	4.6	9.6	9.5	10.0	10.0	14.3	10.0	28.1	1.4	1000

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TABLE 8

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

VSBY (NM)	PCP	ND PCP	TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.4
1<2	.1	.0	1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
2<5	.4	.1	6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1
5<10	.4	.3	24	.7	.2	.5	.4	1.4	.7	1.0	.6	1.3	1.1	1.4	2.0	3.5	2.0	3.0	2.3	.2	.0	.0	64
10+	.2	.1	37	.5	1.5	1.7	1.4	2.2	1.1	.8	.8	2.1	2.0	2.3	4.1	11.1	5.8	8.2	5.1	.0	.0	.0	25
TOTAL	6.8	3.0	68	3.0	3.0	3.0	2.5	5.1	2.6	2.9	2.9	5.4	3.8	6.7	8.3	17.3	8.3	13.0	8.7	0	1.3	102.5	
PCT	6.5	2.9	65	2.9	2.9	2.9	2.5	5.1	2.5	2.8	2.8	5.4	3.8	6.7	8.3	16.9	8.3	12.7	8.5	.0	1.3	100.0	

OCTOBER

PERIOD: (PRIMARY) 1951-1969  
(OVER-ALL) 1906-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	3	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.2
	TOTAL	0	0	0	0	0	0	0	0	2	1	1	0	1	0	0	1	0	0	6	.5
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	4	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.5
	22+	.2	.2	.0	.0	.0	.0	.0	.3	.1	.1	.2	.2	.0	.0	.1	.1	.0	.0	18	1.4
	TOTAL	2	2	1	0	0	1	3	4	2	1	3	4	0	1	4	0	0	0	28	2.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	1.2
	11-21	.3	.1	.2	.0	.0	.0	.0	.1	.2	.0	.3	.2	.5	.4	.4	.0	.0	.0	43	3.2
	22+	.3	.2	.2	.2	.4	.2	.1	.1	.6	.2	.8	.5	.5	.0	.2	.2	1.0	.0	69	5.2
	TOTAL	8	3	6	2	10	4	5	3	14	5	15	13	15	6	8	13	0	2	132	10.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4
	4-10	.6	.2	.2	.2	.2	.2	.1	.3	.2	.2	.3	.8	.6	.3	.4	.3	.0	.0	68	5.1
	11-21	.8	.4	.5	.2	.5	.1	.6	.5	.7	.3	.9	.6	1.6	.8	1.2	1.1	.0	.0	140	10.6
	22+	.8	.2	.2	.4	.9	.5	.4	.4	.9	.9	1.4	1.0	1.5	1.1	1.5	1.1	.0	.0	175	13.2
	TOTAL	30	11	10	10	21	11	17	15	24	19	34	31	49	29	42	33	0	2	388	29.3
10+	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.2	.0	.1	.1	.0	.0	.9	1.7
	4-10	1.4	.8	.3	.5	.5	.5	.4	.5	1.0	.6	.8	.6	2.3	1.1	1.4	.5	.0	.0	174	13.1
	11-21	1.4	.5	.5	.6	.6	.2	.2	.9	1.1	1.3	1.2	2.5	4.4	2.6	3.2	3.1	.0	.0	326	24.6
	22+	1.5	.4	.5	.1	1.0	.1	.2	.2	.2	.6	1.2	1.7	3.9	2.0	3.2	2.0	.0	.0	247	18.6
	TOTAL	58	21	18	15	28	14	12	20	31	34	63	144	76	104	75	0	0	12	769	58.0
	TOTAL	98	37	35	27	59	30	37	42	74	60	97	111	209	112	160	122	0	16	1326	100.0
	PCT	7.4	2.8	2.6	2.0	4.4	2.3	2.8	3.2	5.6	4.5	7.3	8.4	15.8	8.4	12.1	9.2	.0	1.2	100.0	

OCTOBER

PERIOD: (PRIMARY) 1951-1969  
(OVER-ALL) 1906-1969

AREA 0007 UNIMAK  
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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	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
00E03	1.8	.0	3.6	11.3	28.5	17.5	1.8	.4	.0	.7	65.7	34.3	274
06E09	1.7	.4	2.1	11.6	25.8	15.9	1.3	.0	.0	.9	59.7	40.3	233
12E15	1.9	.5	2.8	14.9	22.8	14.4	1.9	.0	.0	.5	59.5	40.5	215
18E21	.8	.4	2.0	15.7	28.7	16.9	.8	.4	.0	.0	65.7	34.3	254
TOT	15	3	26	130	260	159	14	2	0	5	614	362	976
PCT	1.5	.3	2.7	13.3	26.6	16.3	1.4	.2	.0	.5	62.9	37.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+					
00E03	.0	.4	1.5	7.0	23.2	67.9	271				
06E09	.0	.4	1.7	8.7	33.0	56.1	230				
12E15	.9	.5	.9	10.8	31.6	55.2	212				
18E21	.0	.4	2.8	5.6	27.9	63.3	251				
TOT	2	4	17	76	276	589	964				
PCT	.2	.4	1.8	7.9	28.6	61.1	100.0				

TABLE 12

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

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR					TOTAL OBS
	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	
00E03	1.5	5.2	20.3	46.5	33.2	271
06E09	1.7	4.8	21.3	41.7	37.0	230
12E15	1.9	6.1	26.4	35.4	38.2	212
18E21	.8	3.6	23.9	43.4	32.7	251
TOT	14	47	220	406	338	964
PCT	1.5	4.9	22.8	42.1	35.1	100.0

OCTOBER

PERIOD: (PRIMARY) 1951-1969  
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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				
55/59	.0	.0	.0	.2	.5	.2	.1	.1	.1	.1	11	1.2
50/54	.0	.0	.0	.1	1.3	2.5	5.3	3.9	12.5	13.2	125	13.2
45/49	.0	.0	.1	.2	2.6	13.8	17.0	15.8	468	49.5	468	49.5
40/44	.0	.0	.0	.2	3.2	7.3	7.7	8.1	257	27.2	257	27.2
35/39	.0	.0	.0	.4	1.9	2.4	1.8	1.9	80	8.5	80	8.5
30/34	.0	.0	.0	.0	.0	.0	.1	.3	4	.4	4	.4
TOTAL	.0	.0	.3	1.7	9.5	26.2	32.1	30.2	945	100.0	945	100.0
PCT	.0	.0	.3	1.7	9.5	26.2	32.1	30.2				

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR CALM
	N	NE	E	SE	S	SW	W	NW	VAR		
55/59	.0	.0	.0	.0	.0	.4	.6	.1	.0	.0	.0
50/54	1.5	.2	.8	1.8	2.5	2.8	2.4	1.1	.0	.0	.1
45/49	4.1	2.8	4.0	2.9	5.6	11.7	12.5	5.6	.0	.0	.3
40/44	3.0	1.6	2.0	2.0	1.7	2.5	5.6	8.7	.0	.0	.1
35/39	1.4	.5	.2	.0	.3	.3	1.5	4.1	.0	.0	.1
30/34	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
TOTAL	96	48	67	63	96	168	214	187	0	0	6
PCT	10.2	5.1	7.1	6.7	10.2	17.8	22.6	19.8	.0	.0	.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			
00003	59	57	53	47	38	36	32	46.4	363		
06009	57	54	51	46	37	32	32	45.0	333		
12015	52	51	49	45	37	35	32	44.2	278		
18021	57	54	51	45	37	36	34	45.2	364		
TOT	59	55	51	46	37	35	32	45.3	1338		

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				
00003	.0	1.9	13.5	28.6	31.2	24.8	81				
06009	.0	2.1	8.9	25.0	29.2	34.7	83				
12015	.0	1.1	8.2	25.5	35.9	29.3	84				
18021	.0	2.7	6.9	25.3	33.0	32.2	84				
TOT	0	19	90	248	304	286	83				

OCTOBER

PERIOD: (PRIMARY) 1951-1969  
(OVER-ALL) 1906-1969

AREA 0007 UNIMAK  
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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	29		33		37		41		45		49		53		57		TOT	W		WD FOG
	32	36	40	44	48	52	56	60	FOG	FOG										
9/10	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.1	.2	.2	.2	.2	.2	5	.0	.5	
7/8	.0	.0	.0	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.4	
6	.0	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.1	.8	
5	.0	.0	.0	.1	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	1.1	
4	.0	.0	.0	.5	.4	.4	.3	.3	.4	.4	.4	.3	.3	.0	.0	.0	16	.0	1.8	
3	.0	.0	.0	.3	.4	.4	1.2	.2	.4	1.2	.2	.0	.0	.0	.0	.0	21	.1	2.2	
2	.0	.0	.1	.3	1.9	2.9	.2	.0	.2	2.9	.2	.0	.0	.0	.0	.0	49	.3	5.0	
1	.0	.0	.0	.3	2.6	2.3	.0	.0	.1	2.6	.0	.0	.0	.0	.0	.0	49	.0	5.4	
0	.0	.0	.0	.5	5.4	2.7	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	79	.8	7.9	
-1	.0	.0	.0	.9	5.2	2.5	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	78	.0	8.6	
-2	.0	.0	.0	3.2	8.0	1.4	.0	.0	.0	8.0	.0	.0	.0	.0	.0	.0	115	.0	12.6	
-3	.0	.0	.3	3.5	4.9	.7	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0	86	.0	9.4	
-4	.0	.0	.7	4.8	5.3	.1	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	99	.0	10.9	
-5	.0	.1	1.1	5.4	3.1	.4	.0	.0	.0	3.1	.4	.0	.0	.0	.0	.0	92	.0	10.1	
-6	.0	.3	.9	1.9	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	43	.0	4.7	
-7/-8	.0	.5	2.3	2.3	1.6	.1	.0	.0	.0	1.6	.1	.0	.0	.0	.0	.0	63	.0	6.9	
-9/-10	.1	.5	3.7	1.8	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	59	.0	6.5	
-11/-13	.2	.7	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	.0	2.7	
-14/-16	.0	.2	.5	.3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	11	.0	1.2	
TOTAL	3	22	99	245	385	139	16	3	3	912	12	900	3	98.7						
PCT	.3	2.4	10.9	26.9	42.2	15.2	1.8	.3	.3	100.0	1.3	98.7	.3							

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969

OCTOBER

AREA 0007 UNIMAK  
 53N-COAST 157-165W

TABLE 16

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

HGT	N										NE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.2	.0	.0	.0	.0	1	.0	.5	.0	.0	.0	.0	2							
1-2	.0	1.2	1.2	.0	.0	.0	10	.0	.0	.5	.0	.0	.0	2							
3-4	.0	1.9	1.9	.7	.0	.0	15	.0	.7	.5	.2	.0	.0	6							
5-6	.0	.2	.5	.0	.0	.0	3	.0	.0	1.2	.2	.0	.0	6							
7	.0	.0	1.2	.7	.0	.0	8	.0	.0	.7	.5	.2	.0	6							
8-9	.0	.0	.7	.5	.0	.0	5	.0	.0	.0	.5	.2	.0	3							
10-11	.0	.0	.2	.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	.2	.0	2	.0	.0	.0	.2	.2	.0	2							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	11	24	8	1	1	45	0	5	12	7	3	0	27							
PCT	.0	2.6	5.6	1.9	.2	.2	10.5	.0	1.2	2.8	1.6	.7	.0	6.2							

HGT	E										SE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	0	.0	.7	.0	.0	.0	.0	3							
1-2	.0	.9	.5	.0	.0	.0	6	.0	.7	.7	.0	.0	.0	6							
3-4	.0	.2	.2	.5	.0	.0	4	.0	.5	.2	.0	.0	.0	3							
5-6	.0	.0	.2	.5	.0	.0	3	.0	.0	.5	.7	.2	.0	6							
7	.0	.0	.7	.9	.2	.0	8	.0	.0	.2	.9	.2	.0	6							
8-9	.0	.0	.0	.5	.2	.0	3	.0	.0	.0	.0	.0	.0	0							
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.2	.2	.0	.0	2							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.2	.0	1							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	2							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	5	7	11	3	0	26	0	8	8	10	3	0	29							
PCT	.0	1.2	1.6	2.6	.7	.0	6.0	.0	1.9	1.9	2.3	.7	.0	6.7							

PERIOD: (PRIMARY) OCTOBER AREA 0007 UNIMAK  
 (OVER-ALL) 1963-1969 TABLE 18 53N-COAST 157-165W

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

HGT	S					SW					TOTAL	48+	TOTAL	GRAND TOTAL		
	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	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.5	.5	.0	.0	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.7	1.2	.2	.0	.0	.7	2.1	.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	1.2	.0	.0	.0	.5	.7	.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.5	.0	.0	.0	.5	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.2	.0	.0	.0	.0	.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
TOTAL	0	8	14	6	0	0	11	20	12	3	0	3	0	0	0	46
PCT	.0	1.9	3.3	1.4	.0	.0	2.6	4.7	2.8	.7	.0	.7	.0	.0	.0	10.7

HGT	W					NW					TOTAL	48+	TOTAL	GRAND TOTAL		
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47						
<1	.0	1.4	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	1.6	.0	.0	.0	.9	2.1	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.9	4.0	1.4	.0	.0	.9	4.2	1.4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	2.1	.2	.0	.0	.2	4.7	1.6	.2	.0	.0	.0	.0	.0	.0
7	.0	.2	1.6	1.4	.0	.0	.2	2.3	1.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.7	.5	.0	.0	.2	.9	1.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.7	.0	.0	.0	.2	1.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	1.2	.0	.0	.0	.5	.9	.5	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.7	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.0	.0	.0	.5	.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	.2	.0	.0	.0	.2	.2	.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
TOTAL	0	6.0	10.5	5.3	1.6	0	14	64	40	7	3	7	0	0	0	430
PCT	.0	6.0	10.5	5.3	1.6	.0	3.3	14.9	9.3	1.6	.7	1.6	.0	.0	.0	100.0

PERIOD: (PRIMARY)  
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AREA 0007 UNIMAK  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	0-3	4-10	11-21	22-33	
<1	1.6	4.3	.0	.0	.0	.0	.0	.0	.0	.0	26
1-2	.0	7.6	7.8	.0	.0	.0	.0	.0	.0	.0	67
3-4	.0	5.5	14.0	4.6	.0	.0	.0	.0	.0	.0	105
5-6	.0	2.1	10.8	3.4	.7	.0	.0	.0	.0	.0	74
7	.0	.5	7.1	7.3	.7	.0	.0	.0	.0	.0	68
8-9	.0	.2	3.0	4.1	.5	.0	.0	.0	.0	.0	34
10-11	.0	.0	.9	2.7	.2	.0	.0	.0	.0	.0	17
12	.0	.0	.7	2.7	.5	.0	.0	.0	.0	.0	17
13-16	.0	.0	.2	1.4	1.8	.5	.0	.0	.0	.0	17
17-19	.0	.0	.0	.2	.7	.5	.0	.0	.0	.0	6
20-22	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	4
23-25	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1
26-32	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1
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
TOTAL	7	88	194	117	27	4	437				
PCT	1.6	20.1	44.4	26.8	6.2	.9	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	1.1	11.1	16.2	8.3	4.9	1.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	232	3	
6-7	.0	.8	4.1	6.4	6.0	3.6	2.1	1.5	1.5	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	7
8-9	.0	1.1	.2	.8	2.1	1.5	2.4	1.5	1.1	.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	9
10-11	.0	.0	.0	.2	1.3	2.1	.6	.2	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	9
12-13	.0	.0	.0	.6	.2	.0	1.1	.2	.9	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	11
>13	.0	.0	.0	.0	.2	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	6.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	0
TOTAL	41	70	110	86	78	46	35	21	28	8	6	1	1	1	0	0	0	0	0	0	0	0	0	0	531	5
PCT	7.7	13.2	20.7	16.2	14.7	8.7	6.6	4.0	5.3	1.5	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1955-1969  
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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	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	NO SIG WEA	HAZE	BLWG		DUST
N	.4	.0	.2	.0	.8	.0	.1	1.5	13	.0	.4	.1	.0	.0	.0	.0	3.9	50
NNE	.1	.0	.0	.0	.2	.0	.0	.4	3	.0	.5	.0	.0	.0	.0	.0	2.0	24
NE	.7	.1	.4	.0	.0	.0	.0	1.2	10	.0	.0	.0	.0	.0	.0	.0	1.8	25
ENE	1.1	.0	.4	.0	.0	.0	.0	1.4	12	.0	.0	.0	.0	.0	.0	.0	1.9	28
E	.4	.0	.4	.0	.1	.0	.0	.8	7	.0	.1	.0	.0	.0	.0	.0	1.4	20
ESE	.6	.0	.2	.0	.0	.0	.0	.8	7	.0	.1	.0	.0	.0	.0	.0	1.4	20
SE	1.3	.0	.2	.0	.0	.0	.0	1.5	13	.0	.2	.0	.0	.0	.0	.0	3.2	42
SSE	1.3	.1	.2	.0	.0	.0	.0	1.6	14	.0	.4	.0	.0	.0	.0	.0	2.1	35
S	1.6	.0	.8	.0	.0	.0	.0	2.5	21	.0	.2	.0	.0	.0	.0	.0	5.3	68
SSW	1.3	.2	.2	.0	.1	.0	.0	1.8	15	.0	.0	.0	.0	.0	.0	.0	4.8	57
SW	.8	.2	.4	.0	.1	.0	.0	1.6	14	.0	.2	.0	.0	.0	.0	.0	5.7	65
WSW	.2	.4	.2	.0	.2	.0	.0	1.1	9	.0	.4	.0	.0	.0	.0	.0	7.0	72
W	.2	.7	.1	.0	.5	.2	.2	2.0	17	.0	.0	.0	.0	.0	.0	.0	12.8	127
WNW	.2	.1	.0	.0	.5	.0	.0	.8	7	.0	.0	.0	.0	.0	.0	.0	8.4	79
NW	.2	.0	.1	.0	.4	.0	.0	.7	6	.0	.0	.0	.0	.0	.0	.0	10.3	94
NNW	.2	.0	.1	.0	.5	.0	.0	.8	7	.0	.0	.0	.0	.0	.0	.0	4.2	43
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	.6	5
TOT OBS	91	16	34	0	29	2	5	20.5	175	0	21	1	2	2	655	2	854	854
TOT PCT	10.7	1.9	4.0	.0	3.4	.2	.6			.0	2.5	.1	.2	.2	76.7	.1	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	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	DUST	NO SIG WEA	HAZE	BLWG		DUST
00003	8.4	.4	3.6	.0	4.0	.0	.4	16.3	41	.0	3.6	.4	.4	.4	.4	.4	79.3	251
06009	9.7	3.4	4.4	.0	4.9	.0	1.0	23.3	48	.0	1.9	.0	.5	.5	.5	.5	74.3	206
12015	12.3	2.0	3.4	.0	3.9	1.0	.5	22.5	46	.0	1.0	.0	.5	.5	.5	.5	76.0	204
18021	11.5	1.9	4.3	.0	2.4	.0	.5	21.0	44	.0	3.8	.0	.0	.0	.0	.0	75.2	210
TOT	91	16	34	0	33	2	5	20.6	179	0	23	1	3	3	665	3	871	871
PCT	10.4	1.8	3.9	.0	3.8	.2	.6			.0	2.6	.1	.3	.3	.3	.3	76.3	100.0

NOVEMBER

PERIOD: (PRIMARY) 1955-1969  
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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 SPD	00	03	06	09	12	15	18	21
N	.1	1.1	1.5	2.6	1.4	.3	73	7.0	25.1	6.5	25.0	5.9	21.4	7.2	6.3	6.8	5.7
NNE	.2	.4	.9	.4	.4	.3	26	2.5	22.7	1.8	.0	1.7	7.1	1.4	6.3	3.4	11.4
NE	.0	.3	1.7	.7	.2	.0	30	2.9	19.5	2.9	8.3	4.6	.0	2.4	.0	1.7	2.9
ENE	.0	.8	1.5	.6	.5	.0	35	3.4	19.7	4.7	.0	2.1	.0	.5	6.3	6.3	.0
E	.1	.5	1.0	.6	.0	.0	22	2.1	17.8	1.8	.0	2.5	.0	2.4	.0	2.5	.0
ESE	.0	.7	1.5	.8	.3	.0	23	2.2	20.1	2.2	.0	3.3	.0	2.9	.0	1.3	.0
SE	.0	1.0	1.6	.9	.2	.0	48	4.6	22.2	4.4	.0	5.4	.0	6.2	.0	3.8	2.9
SSE	1	.4	1.0	1.6	.6	.1	39	3.8	23.1	2.5	.0	2.9	.0	4.3	6.3	4.6	11.4
S	.0	1.4	2.9	1.8	1.4	.0	79	7.5	21.9	9.1	8.3	7.1	7.1	6.2	25.0	7.2	2.9
SSW	.0	1.1	2.8	1.6	1.4	.0	71	6.8	21.3	5.1	8.3	10.0	14.3	6.2	6.3	5.5	8.6
SW	.0	1.5	3.4	2.2	.7	.1	82	7.9	19.7	8.0	.0	7.9	7.1	9.6	.0	7.6	5.7
WSW	.2	1.3	3.6	2.7	.4	.0	84	8.1	19.4	7.6	.0	6.7	14.3	8.6	25.0	7.6	14.3
W	.2	1.4	6.3	5.7	1.4	.3	157	15.1	21.7	13.8	33.3	13.8	14.3	14.8	6.3	17.3	20.0
WNW	.0	1.1	3.5	2.8	1.0	.0	86	8.3	21.3	8.7	8.3	8.8	.0	10.0	6.3	7.2	2.9
NW	.1	1.4	4.2	4.3	1.4	.1	120	11.6	22.3	14.9	.0	11.3	.0	10.0	6.3	11.4	8.6
NNW	.0	.9	1.9	1.6	.9	.2	57	5.5	22.8	5.5	8.3	5.4	14.3	6.7	.0	4.6	2.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.5	.0	.0	.0	.0	.0	5	.5	.0	.0	.0	.4	.0	.5	.0	1.3	.0
TOT OBS	15	155	397	321	135	14	1037	100.0	21.4	275	12	239	14	209	16	237	35
TOT PCT	1.4	14.9	38.3	31.0	13.0	1.4	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 SPC	00	03	06	09	12	15	18	21	
N	.8	2.6	2.0	2.9	1.3	99	9.5	24.5	8.7	25.0	7.5	28.6	8.5	12.5	10.1	17.1	
NE	.5	2.2	2.6	.7	.3	65	6.3	19.6	7.6	8.3	6.7	.0	2.9	6.3	8.0	2.9	
E	.6	1.3	1.5	.8	.2	45	4.3	19.0	4.0	.0	5.9	.0	5.3	.0	3.8	.0	
ESE	.5	2.6	2.3	2.6	.4	87	8.4	22.6	6.9	.0	8.4	.0	10.5	6.3	8.4	14.3	
S	.7	4.2	5.5	3.7	.4	150	14.5	21.6	14.2	16.7	17.2	21.4	12.4	31.3	12.7	11.4	
SW	.9	6.1	5.9	3.0	.2	166	16.0	19.6	15.6	.0	14.6	21.4	18.2	25.0	15.2	20.0	
W	.8	7.3	9.5	4.9	.9	243	23.4	21.6	22.5	41.7	22.6	14.3	24.9	12.5	24.5	22.9	
NW	.9	4.8	6.0	4.4	1.0	177	17.1	22.5	20.4	8.3	16.7	14.3	16.7	6.3	16.0	11.4	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.0	5	.5	.0	.0	.0	.4	.0	.5	.0	1.3	.0	
TOT OBS	62	323	367	238	47	1037	100.0	21.4	275	12	239	14	209	16	237	35	
TOT PCT	6.0	31.1	35.4	23.0	4.5	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)				CALM	MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33				
0000	.3	8.7	40.1	38.0	11.1	1.7	.0	22.6
0600	1.6	17.0	41.5	26.1	12.3	1.2	.4	20.6
1200	.4	16.4	33.8	33.3	14.7	.9	.4	21.7
1800	1.5	18.4	37.1	26.1	14.3	1.5	1.1	20.8
TOT	10	155	397	321	135	14	5	21.4
PCT	1.0	14.9	38.3	31.0	13.0	1.4	.5	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	OBSCD								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8	8	8	8	8		
N	.9	.7	2.2	1.6	41	5.5				
NNE	.5	.3	.9	.4	16	4.9				
NE	.4	.3	.8	1.5	22	6.4				
ENE	.3	.1	.5	2.2	24	6.9				
E	.1	.3	.5	.7	12	5.8				
ESE	.0	.1	.4	.9	11	7.3				
SE	.0	.4	1.6	1.7	28	6.9				
SSE	.0	.1	.4	2.6	24	7.7				
S	.0	1.7	1.6	3.7	53	6.5				
SSW	.3	.5	2.2	3.0	46	6.7				
SW	.4	1.8	2.8	3.8	67	6.1				
WSW	1.2	2.1	3.3	2.6	70	5.4				
W	2.6	4.0	6.7	3.2	125	5.1				
WNW	1.3	1.7	4.6	1.7	71	5.3				
NW	1.7	1.8	6.2	2.6	94	5.4				
NNW	1.8	.8	2.1	1.8	50	4.9				
VAR	.0	.0	.0	.0	0					
CALM	.0	.1	.1	.1	3	5.3				
TOT OBS	88	128	281	260	757	5.8				
TOT PCT	11.6	16.9	37.1	34.3	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT. NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	NH <5/8								TOTAL OBS	NH <5/8 TOTAL	
	000	150	300	600	1000	2000	3500	5000			
N	.0	.5	.5	.8	.8	.1	.5	.1	.0	.0	41
NE	.1	.0	.0	.1	.4	.3	.1	.0	.0	.0	16
ENE	.3	.0	.0	.7	.7	.3	.0	.0	.0	.0	22
E	.0	.0	.1	.5	1.7	.3	.0	.0	.0	.0	24
ESE	.0	.0	.0	.1	.4	.4	.0	.0	.0	.0	11
SE	.3	.0	.0	.4	.5	.1	.0	.0	.0	.0	11
SSE	.4	.0	.3	.5	.5	.9	.1	.0	.0	.0	28
S	.3	.3	.1	.7	.7	.9	.0	.0	.0	.0	24
SSW	.4	.0	.3	1.3	1.6	1.2	.1	.0	.1	.0	53
SW	.1	.0	.7	.9	2.1	.8	.0	.0	.0	.0	46
WSW	.5	.0	.0	1.5	1.8	1.6	.1	.0	.0	.0	67
W	.8	.0	.3	1.2	2.9	1.2	.1	.0	.0	.0	70
WNW	.3	.1	.1	1.6	2.9	2.6	.4	.1	.0	.0	125
NW	.1	.0	.4	.7	2.5	.9	.3	.0	.0	.1	71
NNW	.1	.3	.0	1.5	2.6	2.2	.9	.1	.0	.0	94
VAR	.1	.1	.1	.9	.7	.9	.3	.1	.0	.0	50
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
TOT OBS	1	10	22	101	166	112	23	5	1	1	757
TOT PCT	4.0	1.3	2.9	13.3	21.9	14.8	3.0	.7	.1	.1	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)	VSBY (NM)									
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		
OR >6500	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
OR >5000	.8	.9	.9	.9	.9	.9	.9	.9	.9	.9
OR >3500	3.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
OR >2000	11.2	17.6	18.5	18.8	18.8	18.8	18.8	18.8	18.8	18.8
OR >1000	21.3	36.8	39.9	40.3	40.6	40.6	40.6	40.6	40.6	40.6
OR >600	26.2	46.6	52.3	53.0	53.5	53.8	53.8	53.8	53.8	53.8
OR >200	26.6	48.7	55.4	56.1	56.7	56.9	56.9	56.9	56.9	56.9
OR >150	26.8	49.2	56.7	57.4	58.0	58.2	58.2	58.2	58.2	58.2
OR > 0	27.2	50.0	59.1	60.6	61.4	62.1	62.1	62.1	62.1	62.1
TOTAL	208	383	453	464	470	476	476	476	476	476

TOTAL NUMBER OF OBS: 766

PCT FREQ NH <5/8: 37.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)										
0	1	2	3	4	5	6	7	8	TOTAL	
4.3	3.1	8.9	9.9	10.5	12.8	11.5	11.2	24.3	3.6	811
										OBSCD

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	MSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY
<1/2	.1 .0 1	.0 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .1 1	.0 .0 0	.0 .0 0	.0 .0 2	.0 .2 2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 1	.0 .0 1	.0 .0 7	.4 .5 .8
1/2<1	.0 .1 1	.0 .0 1	.1 .0 1	.0 .0 0	.0 .0 0	.1 .0 1	.0 .0 0	.0 .2 2	.1 .4 4	.1 .2 3	.0 .1 1	.0 .0 0	.0 .0 0	.1 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 15	.6 1.2 1.8
1<2	.0 .0 0	.0 .5 4	.1 .1 2	.1 .0 1	.1 .0 0	.0 .0 0	.1 .1 2	.2 .0 2	.0 .1 1	.1 .0 1	.0 .2 2	.1 .1 2	.0 .0 0	.1 .0 1	.0 .0 0	.0 .1 1	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 20	1.1 1.3 2.4
2<5	.4 .8 10	.1 .1 2	.2 .0 2	.1 .0 1	.1 .0 1	.1 .1 2	.4 .1 4	.8 .4 10	.9 .1 9	.9 .8 15	.8 .7 13	.8 .7 9	.1 .2 3	.8 .7 13	.4 .7 9	.2 .2 4	.2 .4 5	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 58	6.8 6.2 13.0
5<10	.8 1.4 19	.2 .9 10	.6 1.1 14	.9 .7 14	.4 .5 7	.4 .5 7	.2 .9 10	.4 1.6 17	.6 1.2 15	.8 1.9 23	.8 1.4 19	.4 1.8 18	.8 1.8 22	.7 4.0 40	.4 1.8 18	.5 3.5 34	.1 .6 6	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 73	8.6 25.0 33.6
10+	.4 2.0 20	.0 .9 8	.1 .6 6	.2 1.2 12	.2 .9 10	.2 .9 10	.1 .4 4	.1 1.2 11	.0 .6 5	.2 2.6 24	.1 2.5 22	.7 3.2 33	.1 5.2 45	.4 8.1 72	.1 6.0 52	.0 6.3 54	.2 3.3 30	.0 .0 0	.0 .5 4	.0 .0 4	.0 .0 26	3.1 45.4 48.4
TOTAL PCT	51 6.0	24 2.8	25 2.9	28 3.3	20 2.4	20 2.4	20 2.4	42 4.9	35 4.1	66 7.8	57 6.7	64 7.5	72 8.5	128 15.0	79 9.3	93 10.9	42 4.9	0 .0	5 .6	5 100.0	851 100.0	

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.2
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.2
	TOTAL	1	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	0	0	1	7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2
	11-21	.1	.0	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.5
	22+	.0	.0	.1	.0	.1	.0	.1	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	9	.9
	TOTAL	1	0	1	0	1	0	4	4	1	1	0	0	3	0	0	0	0	0	17	1.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.3
	11-21	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	6	.6
	22+	.0	.4	.0	.1	.0	.0	.1	.1	.0	.2	.1	.0	.0	.0	.1	.1	.0	.0	14	1.4
	TOTAL	0	4	2	2	0	2	2	2	2	1	2	0	1	1	1	1	1	0	0	23
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.1	.0	.0	.1	.0	.3	.1	.2	.0	.1	.1	.0	.0	.0	.0	14	1.4
	11-21	.3	.0	.1	.2	.1	.0	.2	.1	.4	.4	.2	.3	.3	.4	.1	.1	.0	.0	32	3.1
	22+	1.0	.2	.1	.0	.0	.4	.6	1.0	.9	1.0	.5	.1	.9	.4	.6	.3	.0	.0	82	8.0
	TOTAL	13	2	2	3	3	2	5	11	11	16	9	4	14	9	7	5	0	0	129	12.5
5<10	0-3	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.2
	4-10	.2	.3	.0	.2	.0	.3	.3	.1	.3	.3	.4	.5	.2	.1	.6	.0	.0	.0	38	3.7
	11-21	.6	.4	1.0	.8	.4	.4	.5	.4	.9	.9	.5	1.1	1.1	.9	1.5	.2	.0	.0	109	10.6
	22+	1.9	.3	.5	.6	.1	.4	1.0	.9	1.5	1.1	1.2	1.4	2.9	1.1	2.0	.9	.0	.0	181	17.6
	TOTAL	28	11	15	16	7	7	10	18	15	25	23	24	43	21	42	11	0	0	330	32.0
10+	0-3	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0	.0	.4	10	1.0
	4-10	.9	.1	.3	.4	.3	.3	.3	.3	1.0	.7	1.0	.6	1.0	.9	.8	.7	.0	.0	96	9.3
	11-21	.6	.5	.5	.6	.9	.5	.2	.1	1.4	1.5	2.3	2.8	4.9	2.2	2.7	1.6	.0	.0	239	23.2
	22+	1.4	.2	.2	.4	.3	.2	.1	.3	.8	.8	1.2	1.6	3.4	2.2	3.1	1.6	.0	.0	180	17.5
	TOTAL	30	9	10	14	11	6	6	15	6	31	30	54	96	55	69	39	0	0	525	50.9
TOTAL	73	26	30	35	22	23	23	48	39	77	71	80	84	157	86	119	56	0	5	1031	100.0
PCT		7.1	2.5	2.9	3.4	2.1	2.2	4.7	3.8	7.5	6.9	7.8	8.1	15.2	8.3	11.5	5.4	.0	.5	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	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
00003	2.5	.4	3.8	15.2	20.3	17.3	3.0	.8	.4	.0	63.7	36.3	237
06009	5.2	1.7	4.1	11.0	18.0	12.2	3.5	1.2	.0	.0	57.0	43.0	172
12015	7.1	1.6	2.7	13.0	23.9	14.1	3.8	.0	.0	.0	66.3	33.7	184
18021	1.6	1.6	2.7	12.5	23.9	14.1	1.6	.5	.0	.5	59.2	40.8	184
TOT	31	10	26	102	167	114	23	5	1	1	480	297	777
PCT	4.0	1.3	3.3	13.1	21.5	14.7	3.0	.6	.1	.1	61.8	38.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+					
00003	.4	.0	.9	8.2	29.7	60.8	232				
06009	1.2	1.8	1.8	12.3	29.2	53.8	171				
12015	.5	1.1	2.7	13.1	32.2	50.3	183				
18021	1.1	.6	1.7	10.0	31.7	55.0	180				
TOT	6	6	13	82	235	424	766				
PCT	.8	.8	1.7	10.7	30.7	55.4	100.0				

TABLE 12

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

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR				TOTAL OBS
	<150 <50YD	<600 <1 <5	1000+ AND 5+	NH <5/8 AND 5+	
00003	2.2	6.5	25.0	40.5	232
06009	5.3	11.7	28.7	29.8	171
12015	7.1	12.6	32.2	37.2	183
18021	1.7	6.7	23.3	38.3	180
TOT	30	70	208	282	766
PCT	3.9	9.1	27.2	36.8	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				
50/54	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	4	.6
45/49	.0	.0	.4	.0	.9	4.5	5.1	3.5	.0	.0	99	14.3
40/44	.0	.0	.0	1.4	7.1	12.3	17.1	17.2	.0	.0	381	55.2
35/39	.0	.0	.0	1.4	2.6	5.9	6.4	6.1	.0	.0	155	22.5
30/34	.0	.0	.0	.0	.1	1.0	1.7	3.9	.0	.0	47	6.8
25/29	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	4	.6
TOTAL	0	0	0	23	74	167	211	215	.0	.0	690	100.0
PCT	.0	.0	.0	3.3	10.7	24.2	30.6	31.2	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
		N	NE	E	SE	S	SW	W	NW	VAR	CALM	TOTAL
50/54		.0	.0	.1	.0	.0	.0	.3	.1	.0	.0	.0
45/49		.7	.3	1.6	1.7	3.9	1.9	2.9	1.2	.0	.0	.1
40/44		2.6	3.9	2.9	7.1	9.6	12.0	11.4	5.5	.0	.0	.1
35/39		2.2	1.6	.9	1.2	1.7	1.7	5.5	7.4	.0	.0	.3
30/34		2.8	.3	.0	.0	.1	.1	1.2	2.3	.0	.0	.0
25/29		.3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
TOTAL		59	42	38	69	106	109	148	115	0	0	4
PCT		8.6	6.1	5.5	10.0	15.4	15.8	21.4	16.7	.0	.0	.6

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	54	49	47	41	32	27	26	40.8	293	
06009	51	48	45	41	32	28	26	40.3	253	
12015	49	48	46	41	32	27	27	40.1	225	
18021	52	50	46	41	32	30	28	40.4	267	
TOT	54	49	46	41	32	28	26	40.4	1038	

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
00003	.0	2.5	16.2	22.7	28.8	29.8	29.8	82	198	
06009	.0	4.0	7.4	24.0	32.6	32.0	32.0	83	175	
12015	.0	2.0	9.9	25.7	32.2	30.3	30.3	83	152	
18021	.0	4.7	8.2	24.0	29.8	33.3	33.3	83	171	
TOT	0	23	74	167	214	218	218	83	696	

PERIOD: (PRIMARY) 1955-1969  
(OVER-ALL) 1901-1969

NOVEMBER

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 17

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

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.0	.8	.1	.0	.0	7	.0	.9
6	.0	.0	.0	.0	.8	.3	.1	.0	9	.0	1.1
5	.0	.0	.0	.4	.6	.1	.0	.0	9	.0	1.1
4	.0	.0	.0	.3	.5	.8	.3	.0	14	.0	1.8
3	.0	.0	.0	.4	.1	.3	.0	.0	6	.1	.6
2	.0	.0	.0	.8	1.4	2.1	.0	.1	35	.4	4.0
1	.0	.0	.4	.3	2.0	1.5	.0	.0	33	.1	4.0
0	.0	.0	.3	1.3	6.6	2.1	.3	.0	84	.1	10.4
-1	.0	.0	.3	1.1	4.8	1.3	.0	.0	59	.5	6.9
-2	.0	.0	.0	2.1	7.1	.9	.1	.0	82	.1	10.2
-3	.0	.0	.1	4.0	6.6	.6	.0	.0	91	.3	11.2
-4	.0	.1	.5	3.5	5.1	1.6	.0	.0	87	.3	10.7
-5	.0	.4	1.9	5.8	2.3	.8	.0	.0	86	.1	10.7
-6	.0	.4	1.1	2.3	1.3	.1	.0	.0	41	.3	4.9
-7/-8	.1	.5	2.8	3.4	1.4	.3	.0	.0	67	.6	7.8
-9/-10	.0	1.3	2.4	1.1	.3	.0	.0	.0	40	.0	5.0
-11/-13	.1	1.4	1.5	1.1	.0	.0	.0	.0	33	.0	4.1
-14/-16	.4	.0	.3	.1	.0	.0	.0	.0	6	.0	.8
-17/-19	.3	.6	.3	.0	.0	.0	.0	.0	9	.0	1.1
TOTAL	7	35	93	222	332	102	6	1	798	23	775
PCT	.9	4.4	11.7	27.8	41.6	12.8	.8	.1	100.0	2.9	97.1

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0	
1-2	.0	.8	1.6	.0	.0	.0	5	.0	.8	.8	.0	.0	.0	6	
3-4	.0	.3	1.6	.3	.0	.0	8	.0	.0	.5	.3	.0	.0	3	
5-6	.3	.8	.5	.3	.0	.0	7	.0	.3	.3	.0	.3	.0	2	
7	.0	.0	.3	.0	.5	.0	3	.0	.0	.3	.3	.3	.0	3	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.3	.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	.3	.0	1.1	.0	6	.0	.0	.3	.0	.0	.0	1	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	10	16	3	6	1	37	0	4	8	2	1	0	15	
PCT	.3	2.7	4.4	.8	1.6	.3	10.2	.0	1.1	2.2	.5	.3	.0	4.1	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.5	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0	
1-2	.0	.5	.0	.0	.0	.0	0	.0	.3	.0	.0	.0	.0	1	
3-4	.0	.5	.5	.0	.0	.0	4	.0	.3	.5	.8	.0	.0	6	
5-6	.0	.3	.3	.0	.0	.0	2	.0	.3	.5	.0	.0	.0	3	
7	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.5	.0	.0	3	
8-9	.0	.0	.3	.0	.3	.0	2	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	1.1	.0	5	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.5	.0	.0	2	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.3	.0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	5	4	0	1	0	10	0	3	5	9	5	0	22	
PCT	.0	1.4	1.1	.0	.3	.0	2.7	.0	.8	1.4	2.5	1.4	.0	6.0	

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 NOVEMBER  
 TABLE 18  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.0	.5	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1
1-2	.0	1.1	1.1	.0	.0	.0	.0	.3	.0	1.6	.0	.0	.0	7
3-4	.0	.3	1.6	.0	.0	.0	.0	.8	.0	3.0	.0	.0	.0	15
5-6	.0	.3	1.6	.8	.3	.0	.0	.5	.0	1.4	1.1	.3	.0	12
7	.0	.3	.8	.5	.3	.0	.0	.3	.0	1.1	1.1	.3	.0	6
8-9	.0	.0	1.1	1.9	1.1	.0	.0	.0	.0	.3	.0	.0	.0	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	3
12	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0	.3	.0	.0	2
13-16	.0	.0	.0	1.1	.3	.0	.0	.0	.0	.0	.8	.0	.0	4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	9	23	19	8	0	0	8	23	20	4	1	56	
PCT	.0	2.5	6.3	5.2	2.2	.0	.0	2.2	6.3	5.5	1.1	.3	15.4	

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.3	.5	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	5
1-2	.0	1.4	2.2	1.1	.0	.0	.0	.5	1.9	.0	.0	.0	.0	9
3-4	.0	.3	3.3	.3	.0	.0	.0	.3	1.1	.0	.0	.0	.0	10
5-6	.0	.5	1.1	.3	.0	.0	.0	.3	1.1	.5	.0	.0	.0	12
7	.0	.3	3.6	1.6	.3	.0	.0	.0	1.9	.0	.0	.0	.0	13
8-9	.0	.0	.8	1.9	.3	.0	.0	.0	.3	.0	.0	.0	.0	6
10-11	.0	.0	.0	.5	.5	.0	.0	.0	.0	.3	.0	.0	.0	2
12	.0	.0	.0	1.6	.0	.0	.0	.0	.0	1.1	.0	.0	.0	15
13-16	.0	.0	.0	1.6	.8	.0	.0	.0	.0	.8	.0	.0	.0	20
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
20-22	.0	.0	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	4
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	11	40	33	9	1	1	8	23	28	8	2	70	
PCT	.3	3.0	11.0	9.1	2.5	.3	.3	2.2	6.3	7.7	2.2	.5	19.2	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

NOVEMBER

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	1.1	3.8	.0	.0	.0	.0					18
1-2	.0	5.2	9.3	.0	.0	.0					53
3-4	.0	2.7	12.3	4.1	.0	.0					70
5-6	.5	3.3	6.8	3.8	1.1	.0					57
7	.0	.8	7.1	5.7	1.6	.0					56
8-9	.0	.0	2.7	6.0	1.6	.3					39
10-11	.0	.0	.0	2.2	1.9	.0					15
12	.0	.0	.0	4.4	1.1	.0					20
13-16	.0	.0	.5	4.6	3.5	.5					34
17-19	.0	.0	.0	.0	.0	.0					0
20-22	.0	.0	.0	.0	.5	.3					4
23-25	.0	.0	.0	.0	.0	.0					0
26-32	.0	.0	.0	.0	.0	.3					1
33-40	.0	.0	.0	.0	.0	.0					0
41-48	.0	.0	.0	.0	.0	.0					0
49-60	.0	.0	.0	.0	.0	.0					0
61-70	.0	.0	.0	.0	.0	.0					0
71-86	.0	.0	.0	.0	.0	.0					0
87+	.0	.0	.0	.0	.0	.0					0
TOTAL	6	58	142	114	42	5					367
PCT	1.6	15.8	38.7	31.1	11.4	1.4					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	3-4	5-6	7	8-9	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	1.7	4.7	9.5	1.7	1.9	1.1	.2	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	3	
6-7	.0	.4	4.7	7.5	4.7	3.0	2.2	2.5	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	6
8-9	.0	.9	1.3	2.2	5.0	3.0	1.3	1.3	3.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	8
10-11	.0	.0	.9	.9	1.9	3.2	2.2	.4	1.5	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	9
12-13	.0	.0	.4	.2	.2	.0	.4	1.1	1.9	.2	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	24	13
>13	.0	.0	.0	.2	.0	.2	.2	.2	1.1	.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	14
INDET	11.9	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	0
TOTAL	63	28	78	60	64	49	30	28	46	5	9	2	2	2	0	0	0	0	0	0	0	464	6
PCT	13.6	6.0	16.8	12.9	13.8	10.6	6.5	6.0	9.9	1.1	1.9	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	100.0	0

DECEMBER

PERIOD: (PRIMARY) 1957-1969  
(OVER-ALL) 1908-1969

AREA 0007 UNIMAK  
53N-COAST 157-165W

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	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	NO SIG WEA	
N	.0	.1	.1	.0	1.0	.0	.0	1.1	9	.0	.2	.1	.0	7.5	
NNE	.1	.1	.1	.0	.4	.1	.0	.7	6	.0	.4	.0	.0	4.2	
NE	.2	.1	.1	.0	.1	.0	.0	.5	4	.0	.0	.0	.0	4.2	
ENE	.6	.0	1.2	.0	.2	.0	.0	2.0	17	.0	.4	.0	.0	3.0	
E	1.5	.1	1.5	.0	.2	.0	.0	3.2	27	.0	.2	.1	.0	2.6	
ESE	.2	.0	.2	.0	.1	.0	.0	.6	5	.0	.0	.0	.0	2.4	
SE	.8	.1	.4	.0	.1	.0	.0	1.4	12	.0	.0	.0	.0	2.1	
SSE	.7	.0	.2	.0	.0	.0	.0	1.0	8	.0	.0	.0	.0	1.5	
S	.5	.2	.6	.0	.2	.0	.0	1.4	12	.0	.5	.0	.0	4.8	
SSW	.2	.1	.8	.0	.2	.0	.0	1.3	11	.0	.1	.0	.0	2.9	
SW	.5	.0	.0	.0	.1	.0	.0	.5	4	.0	.2	.0	.0	5.1	
WSW	.1	.0	.0	.0	.2	.0	.0	.7	6	.0	.1	.0	.0	5.2	
W	.2	.1	.0	.0	.5	.0	.0	1.0	8	.0	.1	.0	.0	8.5	
WNW	.1	.0	.4	.0	1.5	.0	.0	2.0	17	.0	.0	.0	.0	5.7	
NW	.0	.0	.2	.0	1.8	.1	.0	2.1	18	.0	.4	.0	.0	7.4	
NNW	.4	.0	.0	.0	1.3	.1	.0	1.8	15	.0	.1	.0	.0	7.4	
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	.0	.0	.0	1.2	
TOT OBS	53	9	52	0	68	3	4	23	179	0	23	2	0	635	
TOT PCT	6.3	1.1	6.2	.0	8.1	.4	.5	21.3	100.0	.0	2.7	.2	.0	75.7	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	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	DUST	NO SIG WEA	
0003	4.1	.8	5.4	.0	8.3	.0	.0	18.6	45	.0	5.0	.8	.0	75.6	
0609	8.1	.9	5.0	.0	7.2	.5	.5	20.7	46	.0	1.8	.0	.0	77.5	
12015	5.5	1.0	7.0	.0	8.0	1.0	1.0	21.1	42	.0	1.5	.0	.0	77.4	
18021	6.9	1.5	6.9	.0	7.8	.0	1.0	22.5	46	.0	2.0	.0	.0	75.5	
TOT	53	9	52	0	68	3	4	23	179	0	23	2	0	663	
PCT	6.1	1.0	6.0	.0	7.8	.3	.5	20.6	100.0	.0	2.7	.2	.0	76.5	

DECEMBER

PERIOD: (PRIMARY) 1957-1969  
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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	.2	1.6	3.4	2.3	1.7	.2	92	9.5	22.1	9.6	5.6	8.1	31.6	7.3	25.0	8.8	20.0
NNE	.0	1.6	2.3	.8	.5	.0	51	5.2	17.6	6.4	.0	6.0	.0	7.3	6.3	2.8	.0
NE	.0	1.1	1.6	1.7	.2	.0	46	4.7	19.2	6.0	11.1	4.3	.0	3.7	.0	4.1	12.0
ENE	.0	1.4	1.6	1.7	.5	.1	53	5.5	20.8	3.6	5.6	6.0	10.5	4.2	12.5	6.9	8.0
E	.0	.8	2.2	2.0	.7	.0	55	5.7	22.2	5.2	5.6	6.0	5.3	4.2	.0	7.8	4.0
ESE	.0	.6	1.1	1.0	.0	.2	29	3.0	22.5	3.2	5.6	2.1	5.3	3.1	.0	3.2	4.0
SE	.1	1.2	1.5	.7	.2	.0	37	3.8	16.5	3.6	5.6	3.8	.0	4.2	6.3	3.2	8.0
SSE	.0	.7	.9	.5	.0	.1	22	2.3	18.5	3.2	.0	3.1	5.3	2.1	.0	1.8	.0
S	.0	1.2	3.0	1.3	.6	.3	63	6.5	20.5	7.2	.0	7.7	5.3	5.8	6.3	6.5	.0
SSW	.0	.7	1.9	.7	.6	.2	40	4.1	22.6	4.0	11.1	4.3	.0	3.7	.0	5.1	.0
SW	.2	1.1	2.6	1.6	.7	.0	61	6.3	20.2	6.8	.0	6.8	.0	6.3	6.3	6.5	4.0
WSW	.0	1.4	3.0	1.0	.4	.2	59	6.1	19.2	7.6	5.6	5.5	10.5	7.9	.0	3.7	4.0
W	.1	1.6	3.0	2.6	1.5	.1	87	9.0	21.5	8.4	5.6	8.5	.0	12.0	6.3	9.7	.0
WNW	.0	2.6	2.7	1.4	.7	.1	73	7.5	18.6	5.6	5.6	7.7	5.3	11.0	12.5	7.4	.0
NW	.1	2.4	3.9	3.0	.8	.5	104	10.7	20.6	10.4	16.7	10.2	15.8	9.9	12.5	11.1	12.0
NNW	.1	.7	2.8	3.8	1.6	.2	90	9.3	25.4	9.2	16.7	10.2	5.3	6.3	6.3	9.2	24.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	.0	.0	.0	.0	10	1.0	.0	.4	.0	.9	.0	1.0	.0	2.3	.0
TOT OBS	18	205	364	256	107	22	972	100.0	20.6	251	18	235	19	191	16	217	25
TOT PCT	1.9	21.1	37.4	26.3	11.0	2.3	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)										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	1.5	4.9	3.7	4.0	.5	143	14.7	20.5	15.9	5.6	14.0	31.6	14.7	31.3	11.5	20.0
NE	1.1	4.0	1.6	2.9	.5	99	10.2	20.0	9.6	16.7	10.2	10.5	7.9	12.5	11.1	20.0
E	.1	2.8	3.5	1.6	.6	84	8.6	22.3	8.4	11.1	8.1	10.5	7.3	.0	11.1	8.0
SE	.8	2.4	2.0	.7	.2	59	6.1	17.3	6.8	5.6	6.0	5.3	6.3	6.3	5.1	8.0
S	.5	4.0	3.7	1.5	.8	103	10.6	21.3	11.2	11.1	11.9	5.3	9.4	6.3	11.5	.0
SW	.7	4.7	4.3	2.2	.4	120	12.3	19.7	14.3	5.6	12.3	10.5	14.1	6.3	10.1	8.0
W	1.1	6.3	4.7	3.7	.6	160	16.5	20.2	13.9	11.1	16.2	5.3	23.0	18.8	17.1	.0
NW	1.1	5.9	6.3	5.3	1.3	194	20.0	22.8	19.5	33.3	20.4	21.1	16.2	18.8	20.3	36.0
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0	.0	.0	.0	.0	10	1.0	.0	.4	.0	.9	.0	1.0	.0	2.3	.0
TOT OBS	79	340	290	214	49	972	100.0	20.6	251	18	235	19	191	16	217	25
TOT PCT	8.1	35.0	29.8	22.0	5.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1957-1969  
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TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)							TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	CALM	
00003	1.9	20.4	37.2	28.6	8.6	3.0	.4	269
06009	.0	18.9	38.6	26.4	13.0	2.4	.8	254
12015	1.0	22.7	40.1	22.2	12.1	1.0	1.0	207
18021	.4	22.7	34.3	27.3	10.7	2.5	2.1	242
TOT	8	205	364	256	107	22	10	972
PCT	.8	21.1	37.4	26.3	11.0	2.3	1.0	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	7-5	6-2	5-3	4-2		
N	2.0	1.1	2.9	2.7	64	5.2			64	5.2
NNE	1.4	.7	1.9	2.0	44	5.4			44	5.4
NE	1.1	.5	1.0	2.6	38	5.7			38	5.7
ENE	.1	.0	.8	3.6	33	7.5			33	7.5
E	.1	.0	.7	4.8	41	7.7			41	7.7
ESE	.3	.0	.8	2.2	24	7.0			24	7.0
SE	.1	.1	1.0	2.7	29	7.2			29	7.2
SSE	.1	.0	.1	1.6	14	7.5			14	7.5
S	.4	.4	1.8	3.1	42	6.5			42	6.5
SSW	.3	.7	1.2	1.6	28	6.2			28	6.2
SW	.4	1.4	1.8	2.3	43	6.0			43	6.0
WSW	.8	1.2	2.3	1.4	42	5.3			42	5.3
W	1.2	1.7	3.8	3.7	69	6.0			69	6.0
WNW	.8	1.4	3.1	2.7	59	5.8			59	5.8
NW	1.9	2.2	4.4	2.6	81	5.3			81	5.3
NNW	1.4	1.8	4.6	2.2	73	5.4			73	5.4
VAR	.0	.0	.0	.0	0	.0			0	.0
CALM	.3	.1	.3	.4	8	5.4			8	5.4
TOT OBS	94	90	238	310	732	6.0			732	6.0
TOT PCT	12.8	12.3	32.5	42.3	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	6500	8000+		NH <5/8
N	1.1	1.0	1.0	1.0	1.6	1.1	.4	.0	.0	.0	4.0	64
NNE	.3	.1	.1	1.0	1.1	.7	.1	.0	.0	.0	2.5	44
NE	.3	.1	.1	.3	1.5	.4	.7	.0	.0	.0	1.8	38
ENE	1.0	.0	.4	.4	1.8	.4	.4	.0	.0	.0	.1	33
E	1.1	.3	.4	1.1	1.0	1.2	.1	.0	.0	.0	.7	41
ESE	.1	.3	.3	.3	1.2	.4	.0	.0	.0	.0	.3	24
SE	.0	.1	.0	.8	1.9	.5	.0	.0	.0	.0	.5	29
SSE	.0	.1	.1	.7	.7	.0	.1	.0	.0	.0	.1	14
S	.7	.0	.5	.8	1.5	.3	.7	.0	.0	.0	1.2	42
SSW	.4	.1	.0	.5	.7	.7	.1	.0	.0	.0	1.2	28
SW	.1	.1	.0	.8	1.2	.5	.5	.0	.0	.0	2.5	43
WSW	.3	.0	.0	.5	1.6	.8	.3	.0	.0	.1	2.0	42
W	.4	.3	.4	1.8	2.5	1.2	.7	.1	.0	.0	2.5	69
WNW	.3	.0	.3	1.8	2.5	1.2	.3	.0	.0	.0	2.5	59
NW	.4	.3	.7	1.1	1.4	1.5	.3	.0	.0	.0	4.6	81
NNW	.4	.1	.4	1.2	1.8	2.2	.5	.1	.0	.0	3.4	73
VAR	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.1	.0	.1	.3	.0	.1	.0	.0	.0	.4	8
TOT OBS	42	13	31	99	175	98	40	5	3	1	225	732
TOT PCT	5.7	1.8	4.2	13.5	23.9	13.4	5.5	.7	.4	.1	30.7	100.0

PERIOD: (PRIMARY) 1957-1969  
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DECEMBER

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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	>5	>2	>1	>1/2	>1/4	>50YD	>0			
OR >6500	.1	.5	1.2	1.2	1.2	1.2	1.2	1.2	.5	1.2	.5
OR >5000	.5	.9	1.2	1.2	1.2	1.2	1.2	1.2	.5	1.2	1.2
OR >3500	4.8	5.9	6.2	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
OR >2000	10.3	17.0	19.0	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
OR >1000	21.0	36.2	41.4	43.0	43.4	43.6	43.6	43.6	43.6	43.6	43.6
OR >600	26.7	46.5	53.6	56.0	56.4	56.6	56.6	56.6	56.6	56.6	56.6
OR >300	27.6	48.8	57.1	60.1	60.5	60.6	60.6	60.6	60.6	60.6	60.6
OR >150	28.2	49.7	58.3	61.4	62.1	62.2	62.2	62.2	62.2	62.2	62.2
OR >0	28.4	50.4	61.0	65.4	66.5	67.6	68.1	68.2	68.1	68.2	68.2
TOTAL	212	376	455	488	496	504	508	508	508	508	509

TOTAL NUMBER OF OBS: 746 PCT FREQ NH <5/A: 31.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)									TOTAL
									OBSCD
									OBS
0	1	2	3	4	5	6	7	8	793
7.3	3.0	7.8	6.1	6.7	8.4	11.3	13.4	30.6	5.3

DECEMBER

PERIOD: (PRIMARY) 1957-1969  
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TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.2	.1	.0	.1	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	.0	10	1.2
	NO PCP	.6	.0	.0	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	1.1
	TOTAL	7	1	0	3	3	0	0	0	2	0	0	0	1	0	1	1	1	0	19	2.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.1	.1	.0	.0	5	.6
	NO PCP	.1	.0	.2	.1	.1	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.1	.0	.0	9	1.1
	TOTAL	1	0	2	1	1	0	0	1	2	0	0	1	1	1	1	2	0	0	14	1.7
1<2	PCP	.2	.0	.1	.4	.2	.2	.2	.0	.4	.5	.1	.2	.0	.4	.2	.1	.0	.0	28	3.3
	NO PCP	.2	.1	.0	.4	.1	.1	.0	.0	.1	.2	.0	.2	.2	.0	.4	.0	.0	.0	18	2.1
	TOTAL	4	1	1	6	3	3	2	0	4	6	1	4	2	3	5	1	0	0	46	5.5
2<5	PCP	.1	.4	.4	1.0	1.7	.1	.4	.4	.5	.4	.1	.0	.1	.1	.4	.0	.0	.0	49	5.8
	NO PCP	.6	.4	.2	.5	.5	.2	.4	.5	1.0	.2	.5	.4	.8	.2	.6	.4	.0	.0	61	7.3
	TOTAL	6	6	5	12	18	3	6	6	7	12	5	3	8	3	8	3	0	0	110	13.1
5<10	PCP	.2	.0	.0	.6	.8	.2	.6	.2	.5	.2	.2	.4	.5	1.4	1.1	1.2	.0	.0	69	8.2
	NO PCP	1.5	1.1	1.2	.7	.7	.4	.7	.6	1.4	.6	1.0	1.4	2.9	1.2	2.4	2.0	.0	.1	167	19.9
	TOTAL	15	9	10	11	13	5	11	7	16	7	10	15	28	22	29	27	0	1	236	28.1
10+	PCP	.2	.2	.0	.0	.2	.0	.2	.4	.0	.0	.0	.0	.2	.4	.4	.2	.0	.0	21	2.5
	NO PCP	4.8	3.0	2.5	1.4	1.4	1.7	1.1	.4	2.5	1.9	3.9	3.3	4.5	4.2	4.4	5.0	.0	1.1	395	47.0
	TOTAL	42	27	21	12	14	14	11	11	6	21	16	33	40	38	40	44	0	9	416	49.5
TOTAL PCT	75	44	39	45	52	25	30	49	51	80	36	49	80	84	67	84	78	0	10	841	100.0
		8.9	5.2	4.6	5.4	6.2	3.0	3.6	2.4	6.7	4.3	5.8	6.1	9.5	8.0	10.0	9.3	.0	1.2	100.0	

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PERIOD: (PRIMARY) 1957-1969  
(OVER-ALL) 1908-1969

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TABLE 9

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

VSBY (NH)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	6	.6
	22+	.5	.1	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	12	1.2
	TOTAL	7	1	0	3	3	0	0	0	2	0	0	0	1	0	1	1	0	0	19	2.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.1	.1	.0	.0	.0	.0	2	.2
	11-21	.1	.0	.1	.1	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	6	.6
	22+	.1	.0	.1	.1	.1	.1	.0	.0	.1	.2	.0	.0	.0	.0	.1	.2	.0	.0	11	1.1
	TOTAL	2	0	2	2	1	1	0	1	1	2	1	1	1	1	1	2	0	0	19	2.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.1	.0	.3	.1	.1	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	9	.9
	11-21	.1	.1	.1	.1	.1	.1	.0	.0	.2	.2	.0	.0	.0	.1	.1	.0	.0	.0	12	1.2
	22+	.3	.0	.0	.2	.1	.1	.2	.0	.4	.4	.1	.3	.0	.3	.4	.1	.0	.0	27	2.8
	TOTAL	4	2	1	6	3	3	2	0	4	6	1	4	2	4	5	1	0	0	48	5.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.1	.2	.1	.3	.1	.0	.2	.2	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	18	1.9
	11-21	.6	.1	.0	.4	.9	.2	.4	.2	.6	.3	.3	.3	.3	.1	.3	.0	.0	.0	50	5.2
	22+	.2	.4	.5	.7	.9	.1	.3	.3	.5	.3	.4	.3	.6	.1	.6	.2	.0	.0	62	6.4
	TOTAL	9	7	6	14	19	3	7	7	13	6	9	6	9	4	9	3	0	0	131	13.5
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	.2
	4-10	.5	.6	.2	.2	.3	.0	.4	.2	.3	.2	.2	.2	.6	1.2	1.2	.1	.0	.0	64	6.6
	11-21	.2	.6	.3	.3	.2	.2	.4	.3	.5	.4	.7	.8	.9	.4	.8	.5	.0	.0	75	7.7
	22+	1.0	.2	.6	.9	.8	.3	.5	.2	.8	.3	.6	.8	1.7	.6	1.5	2.3	.0	.0	129	13.3
	TOTAL	17	14	11	14	13	5	13	7	16	9	15	18	32	22	35	28	0	1	270	27.9
10+	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	14	1.4
	4-10	1.0	.7	.8	.6	.3	.5	.6	.3	.7	.5	.7	1.1	.7	1.0	1.1	.6	.0	.0	112	11.6
	11-21	2.3	1.4	1.1	.6	.8	.2	.7	.2	1.5	.9	1.4	1.8	1.8	2.1	2.6	2.2	.0	.0	214	22.1
	22+	2.0	.6	.7	.2	.5	.1	.1	.1	.5	.3	1.2	1.9	1.9	1.2	1.7	2.9	.0	.0	142	14.7
	TOTAL	52	27	26	14	16	15	15	6	27	17	35	30	42	42	53	55	0	9	482	49.7
	TOTAL	91	51	46	53	55	28	37	21	63	40	61	59	87	73	104	90	0	10	969	100.0
	PCT	9.4	5.3	4.7	5.5	5.7	2.9	3.8	2.2	6.5	4.1	6.3	6.1	9.0	7.5	10.7	9.3	.0	1.0	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	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS	
00003	5.8	3.6	4.9	12.9	22.2	14.2	4.0	1.3	.4	.0	69.3	30.7	225
06009	7.1	.0	4.3	12.0	25.5	9.2	4.9	.5	.0	.0	63.6	36.4	184
12015	5.4	1.2	2.4	12.0	22.2	15.6	6.6	.0	1.2	.6	67.1	32.9	167
18021	4.4	1.7	4.4	15.6	24.4	12.8	6.1	.6	.0	.0	70.0	30.0	180
TOT	43	13	31	99	178	98	40	5	3	1	511	245	756
PCT	5.7	1.7	4.1	13.1	23.5	13.0	5.3	.7	.4	.1	67.6	32.4	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	3.2	2.3	4.1	10.4	26.2	53.8	221
06009	1.6	1.1	4.9	10.9	23.0	58.5	183
12015	2.4	.6	4.9	10.4	29.3	52.4	164
18021	.6	.6	3.9	13.5	29.8	51.7	178
TOT	15	9	33	84	201	404	746
PCT	2.0	1.2	4.4	11.3	26.9	54.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	6.3	15.8	33.5	38.0	28.5	221
06009	7.7	13.1	30.6	33.9	35.5	183
12015	5.5	9.8	31.7	38.4	29.9	164
18021	4.5	11.2	36.5	34.3	29.2	178
TOT	45	95	247	270	229	746
PCT	6.0	12.7	33.1	36.2	30.7	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				
45/49	.0	.1	.0	.0	.0	.4	.3	.1	.1	.1	7	1.0
40/44	.0	.0	.0	.3	1.9	4.5	10.6	12.1	197	29.5	197	29.5
35/39	.0	.0	.0	.7	2.5	6.3	13.3	16.8	265	39.7	265	39.7
30/34	.0	.0	.0	.3	.9	2.2	4.6	8.1	108	16.2	108	16.2
25/29	.0	.0	.0	.1	.6	2.2	1.9	4.2	61	9.1	61	9.1
20/24	.0	.0	.0	.0	.0	1.0	.4	2.4	26	3.9	26	3.9
15/19	.0	.0	.0	.0	.0	.0	.0	.4	3	.4	3	.4
TOTAL	.0	1	0	10	40	112	209	295	667	100.0	667	100.0
PCT	.0	.1	.0	1.5	6.0	16.8	31.3	44.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.6	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
	2.7	3.4	3.9	3.7	4.8	5.1	3.4	2.1	.0	.0	.0	.3
	5.4	4.5	4.0	2.1	3.3	4.8	8.8	6.3	.0	.0	.0	.4
	2.7	1.2	1.2	.1	.6	1.9	5.1	5.1	.0	.0	.0	.1
	3.6	.4	.0	.1	.1	.0	.9	3.7	.0	.0	.0	.1
	.3	.0	.0	.0	.0	.0	.3	3.3	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
	102	65	62	41	59	79	111	141	0	0	0	7
	15.3	9.7	9.3	6.1	8.8	11.8	16.6	21.1	.0	.0	.0	1.0

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	49	46	43	38	25	19	16	36.4	278		278
06009	45	44	42	37	25	21	18	35.9	254		254
12015	45	44	42	37	24	20	19	35.7	214		214
18021	45	44	43	37	26	21	19	36.1	241		241
TOT	49	45	43	37	25	20	18	36.1	987		987

TABLE 16

HOURL (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		
00003	.0	2.2	5.6	17.8	28.3	46.1	87		180		
06009	.0	1.1	5.9	17.3	33.5	42.2	86		185		
12015	.0	2.2	5.8	20.4	35.0	36.5	85		137		
18021	.0	1.2	6.6	12.0	28.9	51.2	87		166		
TOT	0	11	40	112	209	296	86		668		

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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	17	21	25	29	33	37	41	45	49	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.3	.1	.1	4	.0	.5
6	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
5	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
4	.0	.0	.0	.0	.5	.1	1.0	.4	.0	16	.3	1.8
3	.0	.0	.0	.0	.1	.6	1.4	.4	.0	20	.4	2.2
2	.0	.0	.0	.1	.1	1.9	1.9	.1	.0	33	.6	3.6
1	.0	.0	.0	.1	.4	2.1	1.7	.0	.0	33	.0	4.3
0	.0	.0	.0	.3	.1	6.3	3.5	.0	.0	79	.5	9.7
-1	.0	.0	.0	.1	.6	3.7	2.1	.0	.0	51	.1	6.5
-2	.0	.0	.3	.4	1.9	7.8	1.3	.0	.0	90	.1	11.5
-3	.0	.0	.1	.0	.4	4.4	.8	.0	.0	44	.1	5.6
-4	.0	.0	.0	.1	2.6	5.8	.3	.0	.0	68	.4	8.4
-5	.0	.0	.0	.0	1.8	3.6	.3	.0	.0	44	.0	5.7
-6	.0	.1	.0	.3	2.6	2.6	.1	.0	.0	44	.1	5.6
-7/-8	.0	.5	.5	1.9	5.3	1.2	.0	.0	.0	73	.0	9.4
-9/-10	.0	.4	.5	2.1	2.5	.6	.0	.0	.0	47	.0	6.1
-11/-13	.1	.1	4.1	3.7	1.2	.0	.0	.0	.0	72	.0	9.3
-14/-16	.3	.8	2.1	.3	.1	.0	.0	.0	.0	27	.0	3.5
-17/-19	.4	1.6	.6	.0	.0	.0	.0	.0	.0	20	.0	2.6
-20/-22	.5	.1	.1	.0	.0	.0	.0	.0	.0	6	.0	.8
TOTAL	10	28	65	73	157	316	115	9	1	774	21	753
PCT	1.3	3.6	8.4	9.4	20.3	40.8	14.9	1.2	.1	100.0	2.7	97.3

PERIOD: (PRIMARY) DECEMBER AREA 0007 UNIMAK  
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.0	.8	.0	.0	.0	.0	3	.0	.8	.0	.0	.0	.0	3	
1-2	.3	1.8	.5	.0	.0	.0	10	.0	1.3	.3	.0	.0	.0	6	
3-4	.0	.5	1.8	.5	.0	.0	11	.0	.5	2.6	.5	.0	.0	14	
5-6	.0	.0	1.5	.0	.5	.0	8	.0	.3	.8	.3	.0	.0	5	
7	.0	.0	.8	1.2	.8	.0	11	.0	.3	.0	.8	.0	.0	4	
8-9	.0	.0	.8	1.3	.0	.0	8	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.5	.0	2	.0	.0	.0	.0	.3	.0	1	
12	.0	.0	.3	.3	.0	.0	3	.0	.0	.0	.5	.3	.0	3	
13-16	.0	.0	.0	.0	.5	.0	2	.0	.0	.0	.0	.0	.0	1	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.5	.0	3	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	12	22	13	10	0	58	0	12	14	10	4	1	41	
PCT	.3	3.1	5.6	3.3	2.6	.0	14.8	.0	3.1	3.6	2.6	1.0	.3	10.5	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.0	.3	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
1-2	.0	.8	.3	.0	.0	.0	4	.0	.8	.5	.0	.0	.0	5	
3-4	.0	.5	.8	.5	.0	.0	7	.0	.3	.5	.0	.0	.0	3	
5-6	.0	.5	.5	.5	.0	.0	6	.0	.0	.3	1.3	.0	.0	6	
7	.0	.3	1.5	1.8	.0	.0	14	.0	.3	.0	.5	.0	.0	3	
8-9	.0	.0	.3	.8	.0	.0	4	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	1.0	.8	.0	7	.0	.0	.0	.3	.0	.0	1	
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.3	1	.0	.0	.0	.0	.0	.3	1	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	9	13	19	3	1	45	0	5	5	8	0	1	19	
PCT	.0	2.3	3.3	4.8	.8	.3	11.5	.0	1.3	1.3	2.0	.0	.3	4.8	

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

HGT	S					TOTAL	48+	SW					TOTAL
	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	1.0	.8	.0	.0	7	.0	1.8	.3	.0	.0	.0	8
3-4	.0	.5	1.3	.5	.0	9	.0	1.5	.3	.0	.0	.0	7
5-6	.0	.0	2.3	.0	.0	9	.0	.0	1.5	.5	.0	.0	8
7	.0	.0	.5	.8	.3	6	.0	.0	1.8	.3	.0	.0	8
8-9	.0	.0	.3	.0	.0	1	.0	.0	.5	.5	.0	.0	6
10-11	.0	.0	.0	.5	.3	3	.0	.0	.0	.3	.0	.0	3
12	.0	.0	.0	.0	.3	1	.0	.0	.0	.5	.0	.0	3
13-16	.0	.0	.0	.0	1.3	5	.0	.0	.0	.3	.0	.0	5
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	4
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	2
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
TOTAL	0	6	20	7	8	41	.0	13	18	10	.0	.0	51
PCT	.0	1.5	5.1	1.8	2.0	10.5	.0	3.3	4.6	2.6	.0	.0	13.0

HGT	W					TOTAL	48+	NW					TOTAL	GRAND TOTAL
	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	3	.0	.0	.0	.0	.0	.0	0	10
1-2	.0	.8	.3	.0	.0	4	.0	1.0	.8	.0	.0	.0	7	51
3-4	.0	1.0	2.0	.0	.0	12	.0	.5	2.0	1.3	.0	.0	15	78
5-6	.0	.5	2.0	.0	.0	11	.0	.3	2.0	2.0	.3	.0	18	71
7	.0	.0	.5	1.0	.3	7	.0	.0	.5	1.3	.8	.0	10	63
8-9	.0	.3	.0	.8	.5	5	.0	.0	.3	2.0	.3	.0	10	35
10-11	.0	.0	.0	.8	.5	5	.0	.0	.0	.8	.8	.0	6	28
12	.0	.0	.0	.5	.3	3	.0	.0	.0	.3	.0	.0	1	17
13-16	.0	.0	.0	.5	.8	7	.0	.0	.0	.5	.5	.0	4	25
17-19	.0	.0	.0	.0	.0	3	.0	.0	.0	.0	.3	.0	2	8
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	3
23-25	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	3
26-32	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
33-40	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
41-48	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
49-60	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
61-70	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
71-86	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
87+	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	0	13	19	14	14	62	.0	7	23	32	11	.0	75	392
PCT	.0	3.3	4.8	3.6	3.6	15.8	.0	1.8	5.9	8.2	2.8	.0	19.1	100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

DECEMBER

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS	
	0-3	4-10	11-21	22-33	34-47	48+						
<1	.5	2.5	.0	.0	.0	.0						12
1-2	.3	9.1	3.6	.0	.0	.0						51
3-4	.0	5.3	11.2	3.3	.0	.0						78
5-6	.0	1.5	10.9	4.6	1.0	.0						71
7	.0	.8	5.6	7.6	2.0	.0						63
8-9	.0	.3	2.0	5.3	1.3	.0						35
10-11	.0	.0	.0	3.8	3.3	.0						28
12	.0	.0	.3	2.3	1.5	.3						17
13-16	.0	.0	.0	1.3	3.6	1.5						25
17-19	.0	.0	.5	.3	1.3	.0						8
20-22	.0	.0	.0	.3	.5	.0						3
23-25	.0	.0	.0	.0	.3	.5						3
26-32	.0	.0	.0	.0	.0	.0						0
33-40	.0	.0	.0	.0	.0	.0						0
41-48	.0	.0	.0	.0	.0	.0						0
49-60	.0	.0	.0	.0	.0	.0						0
61-70	.0	.0	.0	.0	.0	.0						0
71-86	.0	.0	.0	.0	.0	.0						0
87+	.0	.0	.0	.0	.0	.0						0
TOTAL	3	77	134	113	58	9						394
PCT	.8	19.5	34.0	26.7	14.7	2.3						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	17-18	20-22	23-25	26-32			33-40	41-48	49-60	61-70	71-86						
<6	.9	7.6	12.2	9.4	5.0	3.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	4		
6-7	.2	.7	2.3	3.4	6.2	3.4	1.8	2.8	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	7	
8-9	.0	1.4	1.6	.9	4.6	2.5	2.5	1.8	3.9	.5	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	9
10-11	.0	.0	.5	.0	1.1	1.1	.0	.9	1.4	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	10
12-13	.0	.0	.0	.5	.5	.5	.9	.9	1.1	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	11
>13	.0	.0	.0	.0	.2	.0	.0	.9	.5	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	13
INDET	3.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	0
TOTAL	18	42	72	62	78	46	30	32	34	10	6	6	0	0	0	0	0	0	0	0	0	0	0	0	436	7
PCT	4.1	9.6	16.5	14.2	17.9	10.6	6.9	7.3	7.8	2.3	1.4	1.4	0	0	0	0	0	0	0	0	0	0	0	0	100.0	0

ANNUAL

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1901-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	HAIL		TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
	DIR	SHWR			PCPN	FRZG	SNOW		OTHER	PCPN			PCPN AT OB TIME	PCPN	PCPN	FOG	SMOKE	DUST	
N	.2	*	.2	.0	.3	*	*	.7	103	.0	.3	*	*	*	*	4.7	823		
NNE	.2	*	.1	.0	.1	.0	.0	.4	54	.0	.2	.0	.0	.0	.0	2.2	396		
NE	.4	*	.3	*	.1	.0	.0	.8	113	.0	.4	.0	.0	.0	.0	2.7	559		
ENE	.5	*	.5	.0	.1	.0	.0	1.1	151	.0	.3	.0	*	*	*	2.0	483		
E	.8	*	.8	.0	.2	*	*	1.8	253	.0	.9	.0	*	*	*	3.5	880		
ESE	.5	*	.4	.0	.1	.0	.0	.9	133	.0	.3	.0	*	*	*	1.9	456		
SE	.8	*	.5	.0	*	.0	.0	1.3	188	.0	.8	.0	.1	.0	.0	2.7	689		
SSE	.7	*	.5	.0	.1	.0	.0	1.3	180	.0	.8	.0	.0	.0	.0	2.0	578		
S	.9	*	.8	.0	.1	.0	.0	1.8	258	.0	1.5	.0	*	*	*	4.6	1133		
SSW	.4	.1	.5	.0	.1	.0	.0	1.0	140	.0	.8	.0	*	*	*	3.3	730		
SW	.7	.1	.6	.0	.1	.0	.0	1.3	180	.0	1.2	.0	.1	.0	.0	5.5	1136		
WSW	.4	.1	.4	.0	.1	*	*	.8	119	*	.7	*	*	*	*	5.6	1022		
W	.4	.1	.4	.0	.1	*	*	1.1	160	*	.8	*	*	*	*	10.9	1826		
WNW	.4	.1	.4	.0	.2	*	*	.7	97	*	.3	.0	*	*	*	6.9	1121		
NW	.3	*	.2	.0	.3	*	*	.8	115	*	.2	.0	*	*	*	7.1	1146		
NNW	.2	*	.1	.0	.3	*	*	.6	81	*	.2	.0	*	*	*	4.8	784		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	0		
CALM	.1	.0	.1	.0	.0	.0	.0	.1	19	.0	.3	*	*	*	*	2.4	409		
TOT OBS	1082	102	889	2	340	15	25	.1	2344	2	1407	88	24	10306	14171				
TOT PCT	7.6	.7	6.3	*	2.4	.1	.2	16.5		*	9.9	.6	.2	72.7	100.0				

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	HAIL		TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
	DIR	SHWR			PCPN	FRZG	SNOW		OTHER	PCPN			PCPN AT OB TIME	PCPN	PCPN	FOG	SMOKE	DUST	
0603	6.0	.6	4.8	.0	2.7	.1	.2	13.8	529	.2	10.4	*	.8	.2	74.8	3839			
0609	7.7	.8	6.0	.0	2.2	.1	.2	16.7	600	.0	10.6	.0	.7	.1	72.0	3603			
12015	8.5	.7	7.4	.1	2.6	.1	.2	18.4	623	.0	8.0	.0	.3	.1	73.2	3392			
18021	8.2	.9	6.8	.0	2.2	.1	.1	17.3	609	*	10.8	*	.7	.2	71.0	3529			
TOT	1086	106	891	2	347	15	25		2361	2	1435	88	25	10452	14363				
PCT	7.6	.7	6.2	*	2.4	.1	.2	16.4		*	10.0	.6	.2	.2	72.8	100.0			

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PERIOD: (PRIMARY) 1951-1970  
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AREA 0007 UNIMAK  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD			
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18
N	.2	1.7	2.3	1.3	.5	.1	1053	6.1	17.8	6.4	7.0	5.7	5.6	5.7	6.3	7.6
NNE	.1	1.0	1.1	.5	.1	*	511	3.0	15.6	3.1	3.6	3.0	2.8	3.3	2.2	2.6
NE	.2	1.2	1.7	.8	.2	*	704	4.1	15.6	3.6	5.0	4.3	4.9	4.3	4.0	4.4
ENE	.1	1.0	1.4	.6	.2	*	585	3.4	16.5	3.3	5.0	3.3	3.5	3.2	3.5	4.0
E	.3	1.7	2.2	1.1	.4	*	974	5.6	16.7	5.6	2.4	6.5	6.3	5.4	4.1	4.4
ESE	.1	.9	1.4	.6	.1	*	525	3.0	16.2	3.1	2.2	3.2	2.1	3.1	2.1	2.1
SE	.2	1.4	2.1	.9	.2	*	836	4.8	15.8	4.9	3.1	4.9	4.2	4.8	3.1	4.8
SSE	.1	1.1	1.8	.7	.2	*	676	3.9	16.5	3.7	4.6	3.5	4.4	3.8	4.1	5.0
S	.2	2.1	3.4	1.4	.4	.1	1314	7.6	16.7	8.1	4.6	8.0	6.9	7.0	8.1	7.4
SSW	.1	1.4	2.3	.9	.3	*	865	5.0	16.7	5.3	3.1	5.0	4.2	4.7	5.0	6.5
SW	.3	2.3	3.8	1.4	.4	*	1407	8.2	16.2	8.2	6.7	8.6	9.0	8.2	8.8	7.9
WSW	.2	1.9	3.5	1.4	.3	*	1253	7.3	16.5	7.3	9.4	6.7	6.7	7.6	7.0	8.7
W	.3	3.8	5.6	2.7	.6	*	2239	13.0	16.6	13.6	14.4	12.6	12.0	13.6	9.7	12.1
WNW	.1	2.0	3.9	1.8	.5	*	1424	8.3	17.5	7.9	14.7	7.5	13.0	8.2	8.6	7.6
NW	.2	1.8	3.8	2.0	.5	.1	1469	8.5	18.1	8.7	7.5	8.4	8.3	8.7	8.4	9.2
NW	.2	1.3	2.3	1.3	.5	.1	971	5.6	18.6	5.3	5.5	6.1	5.3	5.2	6.1	5.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	4563	7342	3365	917	89	443	2.6	.0	2.1	.7	2.7	.9	3.5	1.6	2.9
TOT OBS	973	26.5	42.6	19.5	5.3	17249	100.0	16.4	100.0	4144	416	3950	432	3386	442	3860
TOT PCT	5.6	26.5	42.6	19.5	5.3	.5	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			
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21
N	1.3	3.8	2.4	1.3	.2	1564	9.1	17.0	9.5	10.6	8.7	8.3	9.0	12.0	8.5	10.2
NE	1.2	3.1	2.1	.8	.1	1289	7.5	16.0	6.9	10.1	7.6	8.3	7.4	7.5	7.5	8.4
E	1.4	3.6	2.6	1.0	.2	1499	8.7	16.5	8.7	4.6	9.7	8.3	8.6	6.8	8.8	6.5
SE	1.2	4.1	2.5	1.0	.1	1512	8.8	16.1	8.6	7.9	8.4	8.6	8.5	8.4	9.5	9.9
S	1.4	5.8	4.0	1.3	.2	2179	12.6	16.7	13.3	7.9	13.0	11.1	11.7	13.8	12.7	13.9
SW	1.7	7.2	4.8	1.5	.2	2660	15.4	16.3	15.5	16.1	15.3	15.7	15.7	17.2	14.9	15.5
W	2.1	9.7	6.7	2.5	.3	3663	21.2	17.0	21.5	29.1	20.1	25.0	21.8	18.3	20.9	19.7
NW	1.6	5.4	4.6	2.1	.4	2440	14.1	18.3	13.9	13.0	14.4	13.7	13.9	14.5	14.3	15.0
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	7348	5134	1979	283	443	2.6	.0	2.1	.7	2.7	.9	3.5	1.6	2.9	1.0
TOT OBS	2505	42.6	29.8	11.5	1.6	17249	100.0	16.4	4144	416	3950	432	3386	442	3860	619
TOT PCT	14.5	42.6	29.8	11.5	1.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

ANNUAL

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1901-1970

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)		TOTAL OBS
	MEAN	PCT FREQ	
0000-03	1.9	100.0	4560
0300-06	2.6	100.0	4382
0600-09	3.2	100.0	3828
0900-12	2.7	100.0	4479
1200-15	4.4	100.0	17249
1500-18	2.6	100.0	
TOT			
PCT			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	9-10	11-21	22-33	34-47		
N	1.2	.8	1.9	2.0	2.0	5.4	5.4	5.4	750	5.4
NNE	.6	.2	.9	1.3	1.3	5.9	5.9	5.9	379	5.9
NE	.5	.4	.7	2.3	2.3	6.4	6.4	6.4	487	6.4
ENE	.2	.2	.7	2.3	2.3	7.1	7.1	7.1	422	7.1
E	.3	.2	.8	4.5	4.5	7.2	7.2	7.2	728	7.2
ESE	.1	.1	.5	2.3	2.3	7.3	7.3	7.3	376	7.3
SE	.2	.2	.8	3.2	3.2	7.3	7.3	7.3	551	7.3
SSE	.1	.1	.6	2.8	2.8	7.5	7.5	7.5	456	7.5
S	.3	.4	1.5	5.0	5.0	7.2	7.2	7.2	899	7.2
SSW	.2	.3	1.2	3.1	3.1	7.0	7.0	7.0	607	7.0
SK	.5	.7	2.0	4.2	4.2	6.6	6.6	6.6	940	6.6
WSW	.7	.9	2.2	3.5	3.5	6.3	6.3	6.3	920	6.3
W	1.8	2.0	5.2	4.7	4.7	5.8	5.8	5.8	1725	5.8
WNW	1.5	1.4	3.5	2.4	2.4	5.4	5.4	5.4	1107	5.4
NW	1.7	1.4	3.4	2.4	2.4	5.3	5.3	5.3	1131	5.3
NNW	1.3	.9	2.3	1.7	1.7	5.2	5.2	5.2	775	5.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	.8	.4	.7	1.0	1.0	5.0	5.0	5.0	362	5.0
TOT OBS	1484	1332	3541	6158	6158	12615	12615	12615	12615	12615
TOT PCT	11.8	10.6	28.9	48.8	48.8	100.0	100.0	100.0	100.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												TOTAL OBS
	000	149	150	299	300	599	600	999	1000	2000	3500	5000	
N	.2	.1	.1	.2	.2	.7	1.1	1.1	.8	.3	.3	.3	750
NNE	.1	.1	.1	.1	.1	.4	.7	.7	.4	.1	.1	.1	379
NE	.4	.4	.4	.4	.4	.5	1.0	1.0	.4	.1	.1	.1	487
ENE	.4	.4	.4	.4	.4	.5	1.0	1.0	.4	.1	.1	.1	422
E	1.0	.2	.2	.4	.4	.9	1.3	1.3	.8	.2	.2	.2	728
ESE	.4	.4	.4	.4	.4	.6	.7	.7	.5	.1	.1	.1	376
SE	.7	.1	.1	.3	.3	.7	1.2	1.2	.6	.1	.1	.1	551
SSE	.6	.1	.1	.2	.2	.7	.9	.9	.5	.1	.1	.1	456
S	1.1	.1	.1	.4	.4	1.2	1.7	1.7	.5	.3	.3	.3	899
SSW	.5	.5	.5	.3	.3	.8	1.3	1.3	.6	.2	.2	.2	607
SK	.7	.1	.1	.3	.3	1.1	1.8	1.8	.9	.3	.3	.3	940
WSW	.4	.4	.4	.2	.2	.8	2.0	2.0	1.0	.5	.5	.5	920
W	.5	.1	.1	.3	.3	1.5	3.0	3.0	2.0	.3	.3	.3	1725
WNW	.2	.2	.2	.2	.2	.8	1.9	1.9	1.5	.3	.3	.3	1107
NW	.2	.1	.1	.2	.2	.9	2.0	2.0	1.3	.3	.3	.3	1131
NNW	.2	.1	.1	.2	.2	.7	1.1	1.1	.9	.2	.2	.2	775
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.3	.3	.3	.1	.1	.2	.4	.4	.4	.1	.1	.1	362
TOT OBS	993	165	165	510	510	1648	2905	2905	1748	422	71	68	12615
TOT PCT	7.9	1.3	1.3	4.0	4.0	13.1	23.0	23.0	13.9	3.3	.6	.5	100.0

PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1901-1970

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AREA 0007 UNIMAK  
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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	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
OR >6500	.8	1.0	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >5000	1.2	1.5	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
OR >3500	3.7	4.7	5.0	5.1	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
OR >2000	11.7	17.5	18.7	19.0	19.1	19.1	19.2	19.2	19.2	19.2	19.2	19.2
OR >1000	24.4	37.5	40.8	41.6	41.8	42.1	42.2	42.2	42.2	42.2	42.2	42.2
OR >600	30.1	47.7	52.9	54.2	54.7	55.0	55.2	55.2	55.2	55.2	55.2	55.2
OR >300	31.2	50.4	56.4	58.1	58.6	59.0	59.2	59.2	59.2	59.2	59.2	59.2
OR >150	31.4	51.1	57.4	59.3	59.9	60.3	60.5	60.5	60.5	60.5	60.5	60.5
OR > 0	31.6	52.1	59.9	63.0	64.5	66.5	68.1	68.1	68.1	68.1	68.1	68.1
TOTAL	4016	6616	7607	7996	8185	8448	8645	8645	8645	8645	8645	8645

TOTAL NUMBER OF OBS: 12695

PCT FREQ NH <5/8: 31.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
6.5	4.2	7.4	6.9	6.4	6.8	11.2	10.5	33.2	7.1 13370

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PERIOD: (PRIMARY) 1951-1970  
(OVER-ALL) 1901-1970

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53N-COAST 157-165W

TABLE 8

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

VSBY (NH)	PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY																CALM TOTAL	VAR	NMW	NW	NNW	PCT		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW								
<1/2	PCP	*	*	*	*	*	*	*	*	.1	.1	*	*	*	*	*	.0	*	.1	*	.0	*	.8	
	NO PCP	.1	*	.1	.1	.4	.3	.3	.3	.7	.5	.3	.4	.4	.5	.5	.3	.5	.1	.1	.0	.2	4.1	
	TOTAL	22	10	24	24	64	47	107	107	55	83	55	54	54	18	13	21	0	32	695	0	32	695	4.9
1/2<1	PCP	*	*	*	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	*	.0	*	.9	
	NO PCP	*	*	.1	.1	.1	.1	.1	.1	.3	.2	.1	.1	.1	.1	.1	.1	.1	.0	.1	.0	.0	207	
	TOTAL	5	3	16	12	30	29	64	30	30	35	17	24	24	8	5	14	0	1	336	0	1	336	2.4
1<2	PCP	.1	.1	.1	.1	.2	.2	.2	.2	.2	.1	.1	.1	.1	.1	.1	.1	.0	*	*	.0	*	300	
	NO PCP	*	.1	.1	.1	.2	.2	.3	.2	.3	.2	.1	.2	.2	.1	.1	.1	.2	.2	.1	.0	.1	317	
	TOTAL	21	23	32	33	59	60	71	51	48	30	30	32	32	18	28	14	0	11	617	0	11	617	4.4
2<5	PCP	.2	.1	.2	.3	.7	.4	.4	.4	.6	.3	.2	.3	.3	.1	.1	.1	.0	*	*	.0	*	672	
	NO PCP	.2	.1	.2	.2	.5	.4	.3	.3	.7	.6	.4	.5	.5	.3	.2	.2	.0	.1	.1	.0	.1	797	
	TOTAL	58	27	67	76	180	105	174	98	132	81	116	116	116	54	46	46	0	19	1469	0	19	1469	10.4
5<10	PCP	.3	.1	.2	.4	.4	.5	.5	.5	.6	.3	.4	.5	.5	.3	.4	.2	.0	*	*	.0	*	850	
	NO PCP	1.1	.5	.9	.6	1.3	.8	1.6	1.2	1.8	1.7	3.0	3.0	1.6	1.6	1.6	1.1	.0	.5	3001	.0	.5	3001	21.3
	TOTAL	204	96	156	144	248	181	317	206	330	286	488	488	271	287	287	187	0	68	3851	0	68	3851	27.3
10+	PCP	.1	*	.1	.1	.2	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1	.0	*	*	.0	*	278	
	NO PCP	3.5	1.6	1.7	1.2	1.9	.9	2.6	2.0	3.4	3.8	7.7	7.7	5.2	5.3	5.3	3.5	.0	1.9	6870	.0	1.9	6870	48.7
	TOTAL	513	235	260	189	293	150	391	288	502	549	1111	1111	753	764	764	506	0	275	7148	0	275	7148	50.6
TOTAL	823	394	555	478	874	572	1124	728	1130	1018	1825	1825	1122	1143	1143	788	0	406	14116	0	406	14116	100.0	
PCT	5.8	2.8	3.9	3.4	6.2	4.1	8.0	5.2	8.0	7.2	12.9	12.9	7.9	8.1	8.1	5.6	.0	2.9	100.0	.0	2.9	100.0		

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PERIOD: (PRIMARY) 1951-1970  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	TOTAL	PCT
<1/2	0-3	*	*.0	*	*	*	*	*	*	*	*	*	*	*	*.0	*	*	.0	.2	67	.4
	4-10	*	*	*	*	.2	*	.1	.2	.2	.1	.2	.1	.1	*	*	*	.0		211	1.2
	11-21	*	*	.1	.1	.1	.1	.1	.2	.3	.3	.3	.1	.1	*	*	*	.0		314	1.8
	22+	.1	*	*	*	.1	*	.1	.1	.1	.1	.1	.1	.1	*	*	*	.0		119	.7
TOTAL	23	11	25	24	50	65	20	50	48	108	55	85	55	54	18	15	21	0	34	711	4.2
1/2<1	0-3	.0	.0	.0	.0	*	.0	*	.0	*	.0	*	*	*	.0	.0	*	.0	*	12	.1
	4-10	*	*	*	*	*	*	*	.1	.1	.1	.1	*	*	*	*	*	.0		88	.5
	11-21	*	*	*	*	.1	.1	.1	.1	.2	.1	.1	.1	.1	*	*	*	.0		151	.9
	22+	*	*	*	*	.1	*	.1	.1	.1	*	*	*	.1	*	*	*	.0		105	.6
TOTAL	6	3	16	14	27	31	18	27	31	66	31	38	17	26	8	8	15	0	2	356	2.1
1<2	0-3	*	*	*	.0	*	*	*	*	*	.0	*	.0	*	.0	*	*	.0	.1	36	.2
	4-10	*	*	*	*	.1	*	.1	.1	.1	.1	.1	*	.1	*	*	*	.0		133	.8
	11-21	*	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1	.1	.1	*	.0		252	1.5
	22+	.1	.1	.1	.1	.1	.1	.1	.1	.2	.1	.1	.1	.1	.1	.1	*	.0		241	1.4
TOTAL	23	25	34	36	58	63	31	58	62	78	53	51	32	34	22	31	16	0	13	662	3.9
2<5	0-3	*	.0	*	*	*	.0	*	*	*	.0	*	.0	*	.0	*	*	.0	.1	64	.4
	4-10	.1	*	.1	.1	.2	.1	.1	.1	.2	.1	.1	.1	.1	.2	*	*	.0		304	1.8
	11-21	.2	.1	.2	.2	.3	.3	.3	.4	.4	.3	.4	.3	.3	.2	.1	.1	.0		674	3.9
	22+	.1	.1	.2	.2	.2	.2	.2	.2	.4	.2	.3	.2	.3	.2	.2	.2	.0		609	3.6
TOTAL	72	31	76	87	114	193	98	114	111	188	105	152	94	129	67	59	54	0	21	1651	9.6
5<10	0-3	*	*	*	*	*	*	.1	*	.1	*	*	*	*	*	.1	*	.0	.5	185	1.1
	4-10	.3	.1	.2	.2	.4	.3	.4	.2	.5	.3	.6	.5	.8	.4	.4	.2	.0		1002	5.9
	11-21	.5	.3	.5	.4	.6	.6	.6	.6	1.0	.6	1.0	.9	1.4	.8	.9	.5	.0		1909	11.2
	22+	.6	.2	.3	.3	.5	.3	.4	.3	.7	.5	.7	.6	1.2	.6	.8	.5	.0		1461	8.5
TOTAL	254	117	181	171	268	271	165	200	200	375	246	394	347	578	323	362	223	0	82	4557	26.6
10+	0-3	.2	.1	.2	.1	.1	.1	.1	*	.1	*	.2	.1	.2	.1	.2	.1	.0	1.7	596	3.5
	4-10	1.2	.8	.6	.6	.7	.8	.7	.5	1.0	.7	1.2	1.2	2.6	1.4	1.3	1.0	.0		2775	16.2
	11-21	1.5	.7	.9	.6	.6	.8	.7	.6	1.3	1.0	1.9	2.1	3.6	2.8	2.7	1.6	.0		3985	23.3
	22+	1.0	.3	.2	.3	.3	.3	.3	.1	.4	.3	.7	.7	1.8	1.4	1.6	1.0	.0		1816	10.6
TOTAL	670	322	366	248	307	343	186	212	488	366	366	674	701	1408	979	977	638	0	287	9172	53.6
TOTAL	1048	509	698	580	824	965	518	664	1303	856	1394	1246	2229	1417	1417	1452	967	0	439	17109	100.0
PCT	6.1	3.0	4.1	3.4	4.8	5.6	3.0	3.9	7.6	5.0	8.1	7.3	13.0	8.3	8.3	8.5	5.7	.0	2.6	100.0	

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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	6.3	1.4	3.8	12.2	21.6	15.6	3.8	.8	.4	.7	66.7	33.3	3591
06009	8.7	1.3	4.2	11.9	22.1	13.3	3.2	.4	.7	.8	67.5	32.5	3195
12015	9.6	1.1	3.7	12.3	22.3	11.9	3.4	.4	.7	.7	66.3	33.7	2936
18021	7.4	1.3	4.2	13.8	24.8	13.8	2.8	.6	.3	.9	70.0	30.0	3195
TOT	1025	167	516	1653	2928	1777	427	72	69	99	8733	4184	12917
PCT	7.9	1.3	4.0	12.3	22.7	13.8	3.3	.6	.5	.8	67.6	32.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	3.4	1.2	3.1	7.3	22.4	62.5	3512
06009	4.7	1.8	3.4	7.6	25.6	57.0	3152
12015	4.3	1.7	3.2	9.6	29.1	52.2	2887
18021	4.0	1.8	3.2	9.1	25.1	56.9	3144
TOT	518	204	407	1060	3220	7286	12695
PCT	4.1	1.6	3.2	8.3	25.4	57.4	100.0

TABLE 12

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

HR	< 150	< 600	< 1000	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
(GMT)	< 50YD	< 1	< 5			
00003	6.2	12.3	29.0	39.4	31.6	3512
06009	8.8	15.4	32.2	36.6	31.2	3152
12015	9.5	15.9	33.5	34.9	31.6	2887
18021	7.5	14.5	33.3	38.6	28.1	3144
TOT	1003	1834	4045	4760	3890	12695
PCT	7.9	14.4	31.9	37.5	30.6	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
65/69	.0	.0	.0	.0	.1	.2	.2	.0	7	.1
60/64	.0	.0	.0	.1	.1	.2	.2	.1	87	.7
55/59	.0	.0	.0	.1	.3	1.3	2.7	1.8	778	6.3
50/54	.0	.0	.0	.0	.9	2.5	10.8	11.4	3157	25.6
45/49	.0	.0	.0	.0	.8	3.8	6.7	9.7	2599	21.1
40/44	.0	.0	.0	.1	.3	1.6	6.1	8.9	2536	20.6
35/39	.0	.0	.0	.4	1.2	2.8	5.4	8.1	2209	17.9
30/34	.0	.0	.0	.1	.5	.9	1.6	2.3	646	5.2
25/29	.0	.0	.0	.0	.1	.3	.3	.8	186	1.5
20/24	.0	.0	.0	.0	.0	.2	.1	.4	90	.7
15/19	.0	.0	.0	.0	.0	.0	.0	.1	19	.2
TOTAL	0	5	19	123	671	1932	4196	5368	12314	100.0
PCT	.0	.0	.2	1.0	5.4	15.7	34.1	43.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
60/64	.1	.0	.0	.1	.0	.1	.2	.1	.0	.1
55/59	.5	.4	.5	.5	.9	1.2	1.4	.6	.0	.2
50/54	1.8	1.6	1.9	2.2	3.8	4.9	6.3	2.7	.0	.5
45/49	1.6	1.6	1.9	1.6	2.6	3.6	5.0	2.7	.0	.5
40/44	1.5	1.7	2.2	2.6	3.3	3.3	3.3	2.3	.0	.4
35/39	1.6	1.6	1.8	1.7	1.9	2.6	3.5	2.9	.0	.3
30/34	1.1	.6	.3	.1	.1	.3	1.1	1.6	.0	.1
25/29	.5	.1	.0	.0	.0	.0	.2	.6	.0	.0
20/24	.2	.0	.0	.0	.0	.0	.1	.4	.0	.0
15/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	1106	945	1068	1089	1556	1982	2611	1713	0	244
PCT	9.0	7.7	8.7	8.8	12.6	16.1	21.2	13.9	.0	2.0

TABLE 15

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

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	68	61	57	45	32	23	16	45.1	4567
0609	68	58	55	45	32	23	16	44.1	4386
1215	68	56	54	43	32	23	14	43.2	3839
1821	66	58	55	44	31	23	14	43.9	4470
TOT	68	59	55	44	32	23	14	44.1	17262

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	1.7	7.9	19.8	34.1	36.6	85	3269
0609	.0	1.3	5.5	14.8	33.1	45.3	87	3185
1215	.0	.8	3.9	13.6	35.7	46.1	87	2678
1821	.0	.9	4.2	14.1	33.7	47.1	87	3228
TOT	0	147	673	1937	4212	5391	86	12360

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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	13	16	17	20	21	24	25	28	29	32	33	36	37	40	41	44	45	48	49	52	53	55	56	57	60	61	64	65	68	TOT	W FOG	WO FOG					
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	.0	.0	.0	.0	.0	.0	.0	.0			
14/16	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0		
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	.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	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
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	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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/-8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-9/-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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/-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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-14/-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	.0	.0	.0	.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	.0	.0	.0	.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	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
-26/-30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	10	45	86	212	458	1212	2630	2024	2121	2372	1344	230	43	1.8	10.5	230	43	1.8	10.5	230	43	1.8	10.5	230	43	1.8	10.5	230	43	1.8	10.5	230	43	1.8	10.5	230	43
PCT	.1	.4	.7	1.7	3.6	9.5	20.6	15.8	16.6	18.5	10.5	1.8	.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
	12791	1278	11513	100.0	10.0	90.0																															

PERIOD: (PRIMARY) ANNUAL AREA 0007 UNIMAK  
(OVER-ALL) 1963-1970 TABLE 18 53N-COAST 157-165W

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.1	.5	.0	.0	.0	.0	32	.1	.5	.0	.0	.0	.0	30	
1-2	*	1.0	.6	.0	.0	.0	94	.1	.7	.5	.0	.0	.0	70	
3-4	*	.6	1.4	.3	.0	.0	121	*	.5	1.3	.4	.0	.0	123	
5-6	*	.2	1.0	.3	.1	.0	94	*	.2	.7	.3	.1	.0	70	
7	.0	*	.6	.4	.2	.0	67	.0	.1	.2	.4	.1	.0	42	
8-9	.0	*	.3	.4	*	.0	41	.0	*	.2	.3	.1	.0	35	
10-11	.0	*	.1	.1	.1	.0	20	.0	.0	.0	.1	.1	.0	6	
12	.0	.0	*	.1	.1	.0	10	.0	.0	*	.1	*	.0	8	
13-16	.0	.0	*	.1	.1	.0	17	.0	.0	*	.1	.1	.1	11	
17-19	.0	.0	*	.0	*	.0	4	.0	.0	*	*	.0	.0	1	
20-22	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	*	*	.0	3	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	10	134	221	95	39	2	501	13	107	168	97	21	3	399	
PCT	.2	2.5	4.0	1.7	.7	*	9.2	.2	2.0	3.1	1.6	.4	.1	7.3	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	*	.5	.0	.0	.0	.0	30	.1	.4	.0	.0	.0	.0	27	
1-2	*	1.2	.8	.0	.0	.0	108	*	.9	.7	.0	.0	.0	89	
3-4	.0	.6	1.5	.3	.0	.0	135	*	.5	1.2	.3	.0	.0	112	
5-6	.0	.3	.9	.3	*	.0	80	*	.2	1.0	.5	*	.0	93	
7	.0	.1	.6	.5	.1	.0	72	.0	.1	.4	.3	.1	.0	51	
8-9	.0	.1	.2	.4	.1	.0	38	*	.1	.1	.1	*	.0	20	
10-11	.0	.0	.1	.4	.1	.0	33	.0	.1	*	.3	.1	.0	22	
12	.0	.0	*	.1	*	.0	10	.0	.0	.0	.1	*	.0	7	
13-15	.0	.0	*	.1	*	.1	12	.0	*	.1	.1	.1	*	14	
17-19	.0	.0	.0	.0	*	.0	2	.0	.0	*	.0	*	.0	3	
20-22	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	4	143	229	120	22	3	521	8	127	194	90	18	1	438	
PCT	.1	2.6	4.2	2.2	.4	.1	9.5	.1	2.3	3.6	1.6	.3	*	8.0	

ANNUAL  
 TABLE 18  
 PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 AREA 0007 UNIMAK  
 53N-COAST 157-165W

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

HGT	S										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.1	.6	.0	.0	.0	.0	.1	.8	.0	.0	.0	.0	.0	.0
1-2	*	1.2	.7	.0	.0	.0	.1	1.4	1.3	.0	.0	.0	.0	.0
3-4	.1	1.0	1.8	.3	.0	.0	.1	1.2	2.2	.4	.0	.0	.0	.0
5-6	.0	.3	1.6	.4	.1	.0	.0	.6	2.5	.6	*	.0	.0	.0
7	.0	.1	.9	.6	.1	.0	.0	.2	1.0	.5	.1	.0	.0	.0
8-9	.0	*	.5	.5	.1	.0	.0	*	.5	.4	.1	.0	.0	.0
10-11	.0	.0	.1	.3	.1	.0	.0	.0	.3	.4	.1	.0	.0	.0
12	.0	*	.1	.2	.1	.0	.0	.0	.1	.3	.1	.0	.0	.0
13-16	.0	*	*	.1	.2	.0	.0	.0	*	.2	.1	*	.0	.0
17-19	.0	.0	*	*	.0	.0	.0	.0	*	.1	*	.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	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	7	176	322	140	36	0	1	225	431	158	34	5	864	0
PCT	.1	3.2	5.9	2.6	.7		*	4.1	7.9	2.9	.6	.1	15.8	

HGT	W										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.3	1.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
1-2	.1	2.5	1.6	.0	.0	.0	.0	1.3	1.2	.0	.0	.0	.0	.0
3-4	*	1.7	2.8	.7	.0	.0	.0	.7	2.3	.7	.0	.0	.0	.0
5-6	.0	.8	2.5	.7	.1	.0	.0	.3	1.9	.9	.2	.0	.0	.0
7	.0	.1	1.2	1.0	.2	.0	.0	.1	1.0	.9	.1	*	.0	.0
8-9	.0	.1	.7	.8	.1	.0	.0	.1	.4	.6	.2	*	.0	.0
10-11	.0	*	.2	.6	.2	.0	.0	.0	.1	.5	.1	.0	.0	.0
12	.0	.0	.1	.4	.1	.0	.0	.0	.1	.3	.1	.0	.0	.0
13-16	.0	.0	*	.4	.4	.0	.0	.0	*	.2	.3	.0	.0	.0
17-19	.0	.0	.0	.1	.1	.0	.0	.0	*	.0	.1	*	.0	.0
20-22	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	21	344	497	257	72	0	4	173	373	232	62	9	862	5459
PCT	.4	6.3	9.0	4.7	1.3		1	3.2	6.8	4.2	1.1	.2	15.8	100.0

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

AREA 0007 UNIMAK  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	4.1	4.7	.0	.0	.0	.0	501				
1-2	.5	9.8	7.2	*	.0	.0	994				
3-4	.3	6.7	14.0	3.3	.0	.0	1373				
5-6	.2	2.8	11.7	3.8	.5	.0	1077				
7	.0	.7	5.8	4.6	.9	*	677				
8-9	*	.4	2.7	3.4	.6	.1	405				
10-11	.0	.1	.8	2.6	.8	.0	245				
12	.0	.0	.4	1.5	.6	*	145				
13-15	.0	.1	.2	1.3	1.3	.3	180				
17-19	.0	.0	.1	.2	.3	*	37				
20-22	.0	.0	*	.1	.2	*	17				
23-25	.0	.0	.0	.0	.1	*	6				
26-32	.0	.0	.0	.0	.1	*	4				
33-40	.0	.0	.0	.0	.0	.0	0				
41-48	.0	.0	.0	.0	.0	.0	0				
49-60	.0	.0	.0	.0	.0	.0	0				
61-70	.0	.0	.0	.0	.0	.0	0				
71-86	.0	.0	.0	.0	.0	.0	0				
87+	.0	.0	.0	.0	.0	.0	0				
TOTAL	289	1429	2432	1179	304	28	5661				
PCT	5.1	25.2	43.0	20.8	5.4	.5	100.0				

TABLE 19

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	1.5	9.0	14.0	7.9	3.8	2.1	.7	.2	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2673	4
6-7	*	1.1	4.8	6.7	5.3	2.9	2.1	1.1	.8	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1692	6
8-9	.0	.5	1.4	2.5	3.1	2.0	1.8	1.0	1.8	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	997	8
10-11	.0	*	.3	.9	1.1	1.4	.8	.5	.9	.2	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	419	9
12-13	.0	.0	.1	.2	.3	.3	.5	.4	.4	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	11
>13	.0	.0	.0	.1	.1	.1	.1	.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	12
INDET	10.2	.1	.2	.1	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	717	0
TOTAL	788	722	1396	1228	927	592	408	233	312	65	33	15	12	1	1	0	0	0	0	0	0	0	6732	5
PCT	11.7	10.7	20.7	18.2	13.8	8.8	6.1	3.5	4.6	1.0	.5	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1955-1970  
(OVER-ALL) 1905-1970

AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 20  
PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.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	3.1	4.1	2.3	1.5	2.5	18.0	18.6	5.9	13.8	25.1	5.1	1.2	1394	9.0
43/44	4.7	5.9	3.0	2.2	11.7	36.2	8.0	2.8	5.2	25.3	27.6	5.5	1675	10.8
41/42	16.7	11.2	10.9	7.2	17.9	20.0	2.3	.7	.4	6.2	30.5	16.6	1325	8.5
39/40	40.5	33.8	28.0	30.7	21.9	9.8	.6	.0	.0	2.6	19.0	31.1	1683	10.8
37/38	25.7	31.2	32.8	28.1	9.2	.5	.0	.0	.0	.7	4.9	26.3	2068	13.3
35/36	7.1	12.0	18.1	11.6	1.7	.2	.0	.0	.0	.0	3.2	14.8	1548	10.0
33/34	1.8	.9	2.7	3.1	.4	.2	.0	.0	.0	.0	.0	1.9	593	3.8
31/32	.1	.7	.5	.4	.2	.0	.0	.0	.0	.0	.0	.6	107	.7
29/30	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	1.0	30	.2
27/28	.1	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	2.0	24	.2
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	11	.1
TOTAL	1036	887	1141	1123	1494	1242	2295	1605	1622	1217	973	898	15533	100.0
MEAN	39.3	38.9	38.3	39.1	41.7	45.2	49.9	52.1	51.1	47.8	43.7	40.5	45.0	

PERIOD: (PRIMARY) 1955-1970  
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AREA 0007 UNIMAK  
53N-COAST 157-165W

TABLE 21

MD	AVERAGE BY HOUR (GMT)												TOTAL GBS	EXTREMES									
	PRESSURE (MB)													MAX	YEAR	DA	HR	MIN	YEAR	DA	HR		
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN														
JAN	1004	1012	1004	1007	1004	1004	1002	1006	1004	1004	1004	1006	1004	1113	1047	1962	16	00	958	1965	18	06	
FEB	1003	1004	1004	1004	1004	1005	1002	1006	1003	1003	1003	1006	1003	948	1038	1960	27	00	960	1964	01	18	
MAR	1010	1008	1011	1009	1010	1006	1010	1005	1010	1010	1010	1005	1010	1238	1044	1967	12	12	974	1965	06	06	
APR	1011	1009	1011	1006	1012	1007	1010	1009	1011	1011	1011	1009	1011	1244	1040	1965	14	00	966	1958	01	12	
MAY	1012	1012	1012	1011	1013	1011	1011	1009	1012	1011	1011	1009	1012	1658	1039	1964	21	00	975	1965	02	00	
JUN	1012	1010	1010	1009	1011	1008	1011	1011	1011	1011	1011	1011	1011	1386	1034	1961	27	00	982	1963	09	06	
JUL	1016	1017	1016	1018	1017	1018	1017	1018	1017	1018	1017	1018	1017	2453	1036	1961	31	12	992	1942	11	06	
AUG	1013	1016	1013	1013	1012	1014	1013	1014	1013	1014	1013	1014	1013	1834	1037	1947	18	18	981	1967	07	00	
SEP	1007	1011	1008	1008	1007	1008	1008	1010	1007	1008	1007	1010	1007	1717	1036	1952	02	00	973	1967	18	06	
OCT	1004	999	1004	1002	1004	998	1004	1001	1004	1004	1004	1001	1004	1283	1038	1957	02	00	969	1963	15	18	
NOV	1005	1008	1004	1003	1003	1007	1004	1003	1004	1003	1004	1003	1004	999	1051	1950	13	12	966	1968	19	06	
DEC	1001	997	1000	997	1001	994	999	997	1000	997	1000	997	1000	972	1043	1951	26	12	960	1963	21	18	
ANN	1009	1011	1009	1010	1009	1010	1009	1010	1009	1010	1010	1009	1009	972									
OBS	4047	390	3846	432	3340	433	3765	592						16845									

MD	PERCENTILES						
	1%	5%	25%	50%	75%	95%	99%
JAN	964	980	992	1005	1014	1030	1038
FEB	970	978	992	1003	1015	1030	1035
MAR	978	984	1000	1011	1021	1032	1039
APR	977	989	1003	1011	1019	1031	1036
MAY	984	993	1005	1012	1020	1028	1035
JUN	985	993	1005	1012	1018	1026	1030
JUL	996	1003	1011	1017	1022	1029	1033
AUG	986	994	1006	1014	1020	1029	1034
SEP	979	987	1000	1008	1016	1024	1032
OCT	973	981	996	1004	1012	1024	1034
NOV	969	976	992	1005	1018	1029	1038
DEC	964	976	990	999	1009	1027	1037

JANUARY

PERIOD: (PRIMARY) 1944-1970  
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AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER					FRZG PCPN	SMOKE	DUST	NO	
N	.2	.0	.2	.0	2.8	.1	.0	57	.0	.1	.0	.0	.0	158	
NNE	.2	.0	.1	.0	.9	.0	.1	22	.0	.0	.0	.0	.0	67	
NE	.2	.0	.7	.0	1.7	.1	.1	49	.0	.1	.0	.0	.0	124	
ENE	.1	.1	.2	.0	.4	.0	.0	12	.0	.1	.0	.0	.0	67	
E	1.1	.1	.8	.1	.4	.0	.0	43	.0	.3	.0	.0	.0	123	
ESE	.8	.1	.5	.0	.5	.0	.0	30	.0	.3	.0	.0	.0	108	
SE	1.4	.2	.6	.0	.7	.0	.0	52	.0	.7	.1	.0	.0	166	
SSE	.5	.1	.7	.0	.2	.0	.0	24	.0	.4	.0	.1	.0	101	
S	.9	.0	.4	.0	.3	.0	.0	27	.0	.6	.0	.0	.0	130	
SSW	.2	.1	.2	.0	.2	.0	.0	12	.0	.2	.0	.0	.0	68	
SW	.2	.1	.1	.0	.6	.0	.0	15	.0	.1	.0	.0	.0	84	
WSW	.3	.1	.0	.0	.5	.0	.1	12	.0	.1	.0	.0	.0	109	
W	.4	.1	.2	.0	1.6	.0	.2	43	.0	.1	.0	.0	.0	208	
WNW	.0	.1	.0	.0	.5	.0	.1	10	.0	.2	.0	.1	.0	82	
NW	.1	.0	.0	.0	1.2	.0	.0	23	.0	.1	.0	.0	.0	103	
NNW	.1	.1	.1	.0	1.1	.1	.0	24	.0	.2	.0	.0	.0	90	
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	
CALM	.1	.0	.0	.0	.0	.0	.0	1	.0	.1	.0	.0	.0	5	
TOT OBS	121	15	84	2	245	3	8	456	0	65	2	2	1275	1800	
TOT PCT	6.7	.8	4.7	.1	13.6	.2	.4	25.3	.0	3.6	.1	.1	70.8	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER					FRZG PCPN	SMOKE	DUST	NO	
0003	5.2	.6	4.8	.0	15.5	.2	.0	129	.0	4.8	.2	.0	.0	504	
0609	7.6	.9	4.4	.2	14.0	.0	.7	119	.0	2.2	.2	.2	.2	450	
1215	8.5	.9	3.8	.2	10.3	.2	.7	103	.0	2.7	.0	.2	.2	446	
1821	5.8	1.0	5.6	.0	14.3	.2	.5	107	.0	4.6	.0	.0	.0	414	
TOT	122	15	84	2	246	3	8	458	0	65	2	2	1287	1814	
PCT	6.7	.8	4.6	.1	13.6	.2	.4	25.2	.0	3.6	.1	.1	.1	70.9	100.0

JANUARY

PERIOD: (PRIMARY) 1944-1970  
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AREA 0008 DUTCH HARBOR  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.5	2.1	3.9	2.7	.8	.1	231	10.0	18.8	9.6	11.0	11.4	8.5	9.3	7.6	11.6	5.3								
NNE	.0	1.2	1.4	.9	.1	.0	83	3.6	17.2	3.4	4.9	3.7	2.8	4.3	4.2	3.1	3.2								
NE	.3	1.3	2.3	2.3	.3	.0	152	6.6	19.0	6.8	3.7	5.6	5.7	4.8	5.9	9.0	11.6								
ENE	*	1.7	1.7	.8	.1	.0	80	3.5	17.1	4.1	2.4	2.1	5.7	2.3	5.1	3.9	6.3								
E	.1	1.0	3.0	1.8	.7	.0	154	6.7	19.7	6.6	7.3	8.9	3.8	7.5	5.9	5.5	2.1								
ESE	.1	1.2	1.8	2.3	.6	.1	139	6.0	21.3	5.9	8.5	5.6	10.4	7.0	6.8	3.3	10.5								
SE	.3	1.9	3.8	2.0	.8	.1	205	8.9	19.0	6.4	12.2	5.2	3.8	8.3	9.3	10.1	6.3								
SSE	.1	1.5	1.7	1.7	.4	.0	125	5.4	18.8	7.1	1.2	6.9	5.7	6.8	5.1	4.2	5.3								
S	.1	1.7	2.5	1.4	.9	.0	151	6.6	18.9	7.1	1.2	6.9	5.7	6.8	5.1	7.5	4.2								
SSW	.2	.8	1.5	1.2	.4	.0	95	4.1	19.6	4.1	7.3	4.0	6.6	2.8	5.9	3.3	7.4								
SW	.1	1.7	2.0	1.3	.2	*	121	5.3	16.4	6.4	8.5	5.8	4.7	3.8	2.5	4.8	5.3								
WSW	.0	1.5	1.9	1.6	.5	.2	130	5.7	20.1	5.3	7.3	3.7	7.5	7.0	8.5	5.3	6.3								
W	.1	2.3	3.7	3.5	.9	.1	244	10.6	19.8	8.4	8.5	9.8	14.2	12.8	16.1	10.5	10.5								
WNW	*	1.3	1.3	1.3	.6	*	107	4.7	20.1	5.0	2.4	4.6	4.7	5.8	5.1	3.9	3.2								
NW	.1	1.4	2.6	1.2	.4	*	135	5.9	18.5	5.3	3.7	6.2	4.7	6.3	3.4	7.2	5.3								
NNW	*	1.0	1.7	1.6	.5	*	114	5.0	20.7	5.2	6.1	4.2	6.6	5.3	2.5	5.0	6.3								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	1.5	525	847	635	194	16	34	1.5	.0	1.2	.0	2.3	.0	1.5	.8	1.8	1.1								
TOT OBS	83	22.8	36.8	27.6	8.4	.7	2300	100.0	18.9	562	82	481	106	400	118	456	195								
TOT PCT	3.6	22.8	36.8	27.6	8.4	.7	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+	00	03	06	09	12				15	18	21									
N	1.6	5.0	4.5	2.3	.3	314	13.7	18.4	13.0	15.9	15.2	11.3	13.5	11.9	14.7	8.4									
NE	1.1	3.6	3.5	1.8	.1	232	10.1	18.3	10.9	6.1	7.7	11.3	7.0	11.0	12.9	17.9									
E	.6	4.2	4.6	3.1	.3	293	12.7	20.5	12.5	15.9	14.6	14.2	14.5	12.7	8.8	12.6									
SE	1.7	5.0	4.8	2.4	.5	330	14.3	19.0	15.7	17.1	15.2	8.5	13.3	14.4	14.3	11.6									
S	1.0	3.7	3.7	2.0	.3	246	10.7	19.2	11.2	8.5	10.8	12.3	9.5	11.0	10.7	11.6									
SW	1.6	3.8	3.6	1.6	.4	251	10.9	18.3	11.7	15.9	9.6	12.3	10.8	11.0	10.1	11.6									
W	.9	5.8	4.8	3.3	.4	351	15.3	19.9	13.3	11.0	14.3	18.9	18.5	21.2	14.5	13.7									
NW	.5	4.2	4.0	1.9	.3	249	10.5	19.5	10.5	9.8	10.4	11.3	11.5	5.9	12.3	11.6									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	1.5	811	768	422	61	34	1.5	.0	1.2	.0	2.3	.0	1.5	.8	1.8	1.1									
TOT OBS	238	35.3	33.4	18.3	2.7	2300	100.0	18.9	562	82	481	106	400	118	456	195									
TOT PCT	10.3	35.3	33.4	18.3	2.7	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) 1944-1970  
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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+	
00003	2.3	22.5	34.9	28.4	10.2	.5	644
06009	1.7	21.8	40.7	29.7	7.7	.5	587
12015	1.5	22.0	36.1	28.8	8.9	1.4	518
18021	2.9	25.0	35.6	27.6	6.7	.5	551
TOT	49	525	847	635	194	16	2300
PCT	2.1	22.8	36.8	27.6	8.4	.7	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	8-6	OBSCD	8-6		
N	.6	.6	.3	3.8	3.8	3.8	3.8	3.8	126	6.5
NNE	.5	.5	1.3	1.3	1.3	1.3	1.3	1.3	51	5.8
NE	.6	.8	2.0	2.1	2.1	2.1	2.1	2.1	78	6.1
ENE	.5	.5	1.5	1.4	1.4	1.4	1.4	1.4	57	5.8
E	.5	.5	1.3	4.0	4.0	4.0	4.0	4.0	90	6.8
ESE	.3	.3	1.3	4.5	4.5	4.5	4.5	4.5	91	7.2
SE	.3	.8	1.8	5.4	5.4	5.4	5.4	5.4	119	6.9
SSE	1.0	.4	1.3	3.0	3.0	3.0	3.0	3.0	83	6.1
S	1.2	.5	2.0	3.8	3.8	3.8	3.8	3.8	107	6.1
SSW	.8	.4	1.2	1.5	1.5	1.5	1.5	1.5	57	5.4
SW	.7	.8	2.0	1.4	1.4	1.4	1.4	1.4	69	5.6
WSW	.8	1.2	2.3	2.0	2.0	2.0	2.0	2.0	90	5.5
W	1.7	2.0	4.8	3.8	3.8	3.8	3.8	3.8	176	5.7
WNW	.7	1.3	2.1	1.2	1.2	1.2	1.2	1.2	75	5.3
NW	.7	1.1	2.5	1.0	1.0	1.0	1.0	1.0	76	5.4
MNW	.4	.9	2.2	2.0	2.0	2.0	2.0	2.0	80	6.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	.3	.1	.0	.1	.1	.1	.1	.1	9	3.2
TOT OBS	170	181	477	606	606	606	606	606	1434	6.1
TOT PCT	11.9	12.6	33.3	42.3	42.3	42.3	42.3	42.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		NH <5/8 ANY HGT
N	.7	.1	.3	1.5	1.5	2.5	.2	.1	.1	.1	1.6	126
NNE	.2	.0	.0	.4	1.0	.8	.1	.1	.1	.0	1.0	51
NE	.1	.0	.1	.6	2.0	1.2	.1	.0	.0	.0	1.5	78
ENE	.0	.1	.1	.8	.7	.8	.1	.0	.0	.0	1.4	57
E	.8	.1	.0	1.3	1.1	1.0	.1	.1	.1	.0	1.7	90
ESE	.7	.2	.2	1.7	1.3	.7	.0	.0	.1	.1	1.3	91
SE	1.0	.2	.3	1.8	2.3	.8	.1	.0	.1	.0	1.7	119
SSE	.8	.1	.2	1.0	1.4	.4	.1	.0	.1	.0	1.7	83
S	1.0	.0	.4	1.0	1.7	.4	.1	.0	.0	.0	2.8	107
SSW	.1	.0	.2	.6	.8	.6	.0	.1	.0	.0	1.5	57
SW	.2	.0	.1	.5	1.5	.5	.1	.0	.0	.0	2.0	69
WSW	.4	.1	.1	1.0	1.7	.2	.0	.0	.0	.0	2.6	90
W	.6	.1	.4	1.6	3.3	1.0	.1	.2	.1	.1	4.7	176
WNW	.3	.1	.1	.8	1.1	.3	.0	.0	.0	.1	2.4	75
NW	.1	.0	.0	1.2	1.1	.6	.0	.0	.0	.0	2.3	76
MNW	.5	.0	.1	.7	1.7	.7	.2	.1	.0	.0	1.6	80
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	9
TOT OBS	106	16	38	238	349	181	18	11	9	.5	463	1434
TOT PCT	7.4	1.1	2.6	16.6	24.3	12.6	1.3	.8	.6	.3	32.3	100.0

PERIOD: (PRIMARY) 1944-1970  
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TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.8	.8	.8	.9	1.0	1.0	1.0
= OR >5000	.9	1.5	1.6	1.6	1.7	1.7	1.7	1.7
= OR >3500	1.7	2.6	2.7	2.8	2.9	3.0	3.0	3.0
= OR >2000	7.9	13.9	15.2	15.3	15.6	15.7	15.7	15.7
= OR >1000	18.5	34.0	37.8	39.1	39.8	39.9	39.9	39.9
= OR >600	23.4	44.6	52.1	54.9	56.1	56.4	56.4	56.4
= OR >300	24.1	46.1	54.2	57.4	58.7	59.1	59.1	59.1
= OR >150	24.3	46.7	54.9	58.1	59.5	60.2	60.2	60.2
= OR > 0	24.8	49.7	58.9	63.2	65.5	66.9	67.7	67.8
TOTAL	357	717	850	912	945	965	976	977

TOTAL NUMBER OF OBS: 1442

PCT FREQ NH <5/8: 32.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	3.2	3.8	9.5	8.2	7.0	7.0	13.7	10.7	29.9	6.9 1519
										OBSCD OBS

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PERIOD: (PRIMARY) 1944-1970  
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TABLE 8

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

VSBY (NM)	PCP ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.2	.1	.1	.0	.1	.3	.1	.0	.1	.0	.1	.1	.1	.1	.0	.0	.0	.1	23	1.3
	ND PCP	.1	.0	.0	.1	.3	.1	.3	.1	.3	.1	.1	.1	.0	.0	.1	.0	.0	.1	23	1.3
	TOTAL	6	1	1	0	3	8	7	7	6	6	2	3	3	1	1	1	0	0	46	2.5
1/2<1	PCP	.2	.0	.3	.0	.3	.3	.1	.1	.1	.1	.1	.0	.3	.1	.1	.2	.0	.0	36	2.0
	ND PCP	.2	.0	.1	.0	.1	.2	.1	.3	.1	.1	.0	.1	.1	.0	.0	.1	.0	.0	27	1.5
	TOTAL	7	0	6	0	7	9	4	8	3	2	1	1	7	2	1	5	0	0	63	3.5
1<2	PCP	.3	.1	.3	.0	.6	.3	.6	.3	.4	.2	.1	.3	.3	.1	.2	.2	.0	.0	76	4.2
	ND PCP	.0	.1	.1	.0	.2	.3	.3	.1	.2	.0	.1	.1	.1	.0	.0	.1	.0	.0	27	1.5
	TOTAL	6	3	8	0	13	11	15	7	10	3	4	6	7	1	4	5	0	0	103	5.7
2<5	PCP	1.2	.3	.6	.1	.6	.3	.9	.3	.3	.2	.3	.1	.4	.2	.4	.4	.0	.1	122	6.7
	ND PCP	.4	.3	.3	.1	.6	.7	1.2	.4	.5	.2	.3	.4	.4	.3	.3	.2	.0	.1	118	6.5
	TOTAL	28	10	15	2	22	19	38	38	14	15	6	10	15	9	14	11	0	2	240	13.3
5<10	PCP	1.1	.7	1.2	.4	.8	.3	1.0	.5	.7	.2	.3	.1	1.1	.1	.4	.4	.0	.0	166	9.2
	ND PCP	1.8	1.0	1.3	1.2	1.6	1.7	2.5	1.8	2.3	1.2	1.1	1.3	3.1	1.0	1.0	1.2	.0	.0	465	25.7
	TOTAL	53	30	44	28	43	36	64	64	42	25	26	25	77	70	37	28	0	0	631	34.9
10+	PCP	.5	.1	.3	.2	.1	.1	.2	.1	.0	.1	.1	.1	.2	.0	.1	.2	.0	.0	44	2.4
	ND PCP	3.0	1.2	2.4	1.8	1.9	1.3	1.9	1.5	2.4	1.6	2.2	3.4	5.4	2.7	2.4	2.2	.0	.5	683	37.7
	TOTAL	64	23	50	37	35	25	38	29	43	30	41	64	101	49	46	43	0	9	727	40.2
TOTAL	PCT	164	67	124	67	123	108	166	101	130	68	85	109	208	82	103	92	0	13	1810	100.0
		9.1	3.7	6.9	3.7	6.8	6.0	9.2	5.6	7.2	3.8	4.7	6.0	11.5	4.5	5.7	5.1	.0	.7	100.0	

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.1	3	.1
	4-10	.1	.0	.0	.0	.0	.0	.0	*	.1	.0	*	*	.0	*	*	.0	.0	.0	9	.4
	11-21	.1	.0	.0	.0	.1	*	.0	*	.1	*	.1	*	.0	*	*	.0	.0	.0	19	.8
	22+	.1	.0	*	.0	.1	.3	.1	*	.1	.0	.0	*	*	.0	.0	.0	.0	.0	19	.8
	TOTAL	6	1	1	0	4	8	7	2	6	2	3	3	1	2	2	0	0	2	50	2.2
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	4-10	.1	.0	*	.0	.1	*	.0	.0	*	.0	*	.0	*	.0	.0	*	.0	.0	14	.6
	11-21	.0	.0	*	.0	.2	*	.1	*	.0	*	.0	.0	.0	*	*	.0	.0	.0	12	.5
	22+	.3	.0	*	.0	*	.3	.1	.1	.1	*	.0	*	.3	.1	.0	.2	.0	.0	36	1.6
	TOTAL	8	0	6	0	7	9	4	8	3	2	1	1	7	3	1	5	0	0	65	2.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	.1	.0	.0	.0	.0	.1	*	*	.0	*	*	.0	*	.0	.1	*	.0	.0	12	.5
	11-21	.1	*	.2	.0	.3	.2	.2	.1	.1	.0	*	.0	.1	*	.1	.1	.0	.0	36	1.6
	22+	.2	.1	.3	.0	.4	.2	.4	.2	.4	.1	.1	.3	.2	.4	*	*	.1	.0	67	2.9
	TOTAL	8	3	10	0	14	11	16	8	10	3	4	6	8	2	6	6	0	1	116	5.1
2<5	0-3	.1	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.2	10	.4
	4-10	.5	.1	.4	.1	.6	.2	.5	.1	*	.2	.2	.1	.3	.1	.1	*	.0	.0	53	2.3
	11-21	.7	.2	.4	.1	.7	.1	.7	.4	.3	.1	*	.1	.4	*	.3	.3	.0	.0	100	4.4
	22+	.6	.2	.3	*	.4	.7	.7	.4	.4	.1	.2	.2	.4	.4	.3	.4	.0	.0	130	5.7
	TOTAL	42	10	19	3	25	22	45	16	16	6	11	12	18	11	17	16	0	4	293	12.8
5<10	0-3	.2	.0	.1	*	.1	.0	.1	.0	.0	.0	.0	.0	.1	*	*	.0	.0	.2	21	.9
	4-10	.6	.4	.5	.3	.4	.5	.5	.6	.7	.3	.4	.2	.7	.3	.4	.2	.0	.0	160	7.0
	11-21	1.3	.7	.6	.6	.9	.7	1.6	.7	1.0	.4	.5	.4	1.2	.4	.7	.5	.0	.0	274	12.0
	22+	1.1	.4	1.2	.5	.9	.7	1.1	.8	.9	.7	.6	.8	1.9	.5	.8	.6	.0	.0	309	13.5
	TOTAL	73	35	57	32	53	44	76	47	59	31	34	32	87	26	44	30	0	4	764	33.4
10+	0-3	.2	.0	*	.0	.0	*	.2	.1	.1	.1	.0	.0	*	.0	.0	*	.0	1.0	44	1.9
	4-10	.8	.7	.6	.5	.4	.4	.8	.5	.8	.4	.9	1.1	1.5	1.0	1.0	.7	.0	.0	274	12.0
	11-21	1.7	.5	1.1	1.1	1.1	.7	1.0	.7	1.1	.9	1.4	1.4	2.2	.7	1.2	.9	.0	.0	402	17.6
	22+	1.4	.3	.8	.4	.7	.8	.4	.4	.5	.7	.6	.9	1.7	1.0	.6	.9	.0	.0	277	12.1
	TOTAL	93	33	59	44	51	45	54	39	57	51	68	75	123	62	54	57	0	22	997	43.6
	TOTAL	230	82	152	79	154	139	202	120	151	95	121	129	244	106	134	114	0	33	2285	100.0
	PCT	10.1	3.6	6.7	3.5	6.7	6.1	8.8	5.3	6.6	4.2	5.3	5.6	10.7	4.6	5.9	5.0	.0	1.4	100.0	

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TABLE 10

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

HOUR (GMT)	PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR										TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
00003	4.9	1.5	2.2	19.8	24.0	14.9	1.0	.2	1.2	.2	69.9	30.1	409
06009	9.3	.6	2.8	13.6	25.4	12.1	2.5	.6	.6	.8	68.4	31.6	354
12015	7.2	1.4	3.0	14.6	21.0	11.3	.6	1.7	.6	.0	61.3	38.7	362
18021	9.2	.9	2.4	16.6	25.5	11.3	.9	.6	.0	.3	67.7	32.3	337
TOT	110	16	38	228	350	183	18	11	9	5	978	484	1462
PCT	7.5	1.1	2.6	16.3	23.9	12.5	1.2	.8	.6	.3	66.9	33.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS				
00003	2.5	3.2	3.2	9.3	28.0	53.8	407				
06009	1.4	3.2	6.3	12.4	29.9	46.3	348				
12015	2.8	1.4	5.7	9.1	31.1	49.9	351				
18021	2.4	1.8	3.9	9.8	33.9	48.2	336				
TOT	33	35	68	146	441	719	1442				
PCT	2.3	2.4	4.7	10.1	30.6	49.9	100.0				

TABLE 12

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

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR				TOTAL OBS
	<150 <50YD	<600 <1	1000+ AND 5+	NH <5/8 AND 5+	
00003	5.2	10.1	34.9	36.1	407
06009	9.8	15.8	38.2	34.5	348
12015	7.4	12.5	33.0	31.9	351
18021	9.2	14.6	35.4	32.7	336
TOT	112	189	510	489	1442
PCT	7.8	13.1	35.4	33.9	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
50/24	.0	.0	.0	.0	.0	.1	.0	.0	1	.1
45/49	.0	.0	.1	.5	.1	.7	.5	.4	38	2.7
40/44	.0	.0	.3	.5	2.0	2.4	5.1	10.2	295	20.6
35/39	.0	.0	.1	1.3	5.0	9.0	13.2	20.1	696	48.7
30/34	.0	.0	.3	.8	1.3	3.8	5.5	5.9	252	17.6
25/29	.0	.0	.0	.1	1.0	.8	.9	3.9	96	6.7
20/24	.0	.0	.0	.0	.1	.6	.9	1.5	46	3.2
15/19	.0	.0	.0	.0	.0	.0	.1	.2	5	.3
TOTAL	0	0	13	45	137	249	380	605	1429	100.0
PCT	.0	.0	.9	3.1	9.6	17.4	26.6	42.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
	.2	.6	.3	.3	.3	.1	.8	.0	.0	.0
	.3	.9	3.3	5.7	3.4	2.4	2.6	1.3	.0	.7
	3.2	2.8	5.4	7.1	7.2	8.0	9.4	4.4	.0	1.2
	4.1	2.7	1.4	.8	.7	1.5	3.5	2.8	.0	.2
	2.3	.8	.3	.4	.0	.3	.5	2.0	.0	.1
	1.2	1.0	.0	.2	.1	.0	.0	.8	.0	.0
	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0
	163	129	153	208	167	177	240	161	0	31
	11.4	9.0	10.7	14.6	11.7	12.4	16.8	11.3	.0	2.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	51	48	43	37	25	18	12	36.0	640
06009	52	46	43	36	23	19	12	35.2	589
12015	46	44	42	37	26	20	16	35.6	520
18021	50	47	43	36	24	19	13	35.2	548
TOT	52	46	43	37	25	19	12	35.5	2297

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.8	9.0	17.8	25.8	43.8	85	400
06009	.0	4.4	8.6	16.6	25.5	44.9	85	385
12015	.0	4.3	14.6	19.3	28.9	32.9	82	301
18021	.0	4.0	6.9	16.1	27.0	46.0	85	348
TOT	0	59	137	249	382	607	84	1434

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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	09	13	17	21	25	29	33	37	41	45	49	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.0	8	.1	.5
6	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	9	.1	.5
5	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.3	.0	27	.3	1.5
4	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.1	.0	25	.6	1.0
3	.0	.0	.0	.0	.0	.0	.0	.5	1.8	.0	.1	35	.1	2.2
2	.0	.0	.0	.0	.0	.0	.3	2.6	3.4	.1	.2	100	.8	5.8
1	.0	.0	.0	.0	.0	.0	.1	3.7	1.0	.0	.1	74	.2	4.7
0	.0	.0	.0	.0	.0	.0	.5	8.3	1.2	.1	.0	154	.5	9.6
-1	.0	.0	.0	.0	.1	.0	2.5	7.1	.7	.0	.0	157	.3	10.0
-2	.0	.0	.0	.0	.3	.1	4.0	5.9	.4	.0	.0	164	.4	10.4
-3	.0	.0	.0	.0	.0	.1	4.5	3.3	.3	.0	.0	124	.2	7.9
-4	.0	.0	.0	.0	.0	.1	5.6	2.2	.2	.0	.0	129	.3	8.1
-5	.0	.0	.0	.0	.3	1.0	4.7	1.4	.1	.0	.0	113	.1	7.3
-6	.0	.0	.0	.0	.4	1.0	3.1	1.1	.0	.0	.0	86	.1	5.6
-7/-8	.0	.0	.0	.3	.9	2.9	3.1	.6	.0	.0	.0	119	.1	7.7
-9/-10	.0	.0	.0	.3	1.5	2.1	1.0	.1	.0	.0	.0	76	.0	5.0
-11/-13	.0	.0	.1	.1	1.9	.7	.3	.0	.0	.0	.0	48	.0	3.1
-14/-16	.0	.0	.0	.8	1.0	.3	.0	.0	.0	.0	.0	32	.0	2.1
-17/-19	.0	.2	.4	1.0	.2	.0	.0	.0	.0	.0	.0	27	.0	1.8
-20/-22	.0	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	10	.0	.7
-23/-25	.1	.7	1.1	.1	.0	.0	.0	.0	.0	.0	.0	7	.1	.4
TOTAL	2	7	13	41	102	134	452	571	180	18	6	1526	61	1465
PCT	.1	.5	.9	2.7	6.7	8.8	29.6	37.4	11.8	1.2	.4	100.0	4.0	96.0

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 JANUARY  
 TABLE 18  
 AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

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

HGT	N						NE						TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.6	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1
1-2	.0	.9	.4	.0	.0	.0	.0	.4	.6	.0	.0	.0	8
3-4	.0	.6	1.6	.0	.0	.0	.0	.1	.9	.0	.0	.0	9
5-6	.0	.1	1.4	.5	.1	.0	.0	.4	1.4	.3	.0	.0	16
7	.0	.0	1.3	.4	.1	.0	.0	.0	.5	.3	.0	.0	6
8-9	.0	.3	.5	.4	.0	.0	.0	.0	.3	.5	.0	.0	6
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.1	.6	.0	.0	6
12	.0	.0	.0	.4	.3	.0	.0	.0	.1	.4	.1	.0	5
13-16	.0	.0	.1	1.0	.4	.0	.0	.0	1.6	.5	.0	.0	17
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
TOTAL	0	20	42	24	7	0	0	8	31	30	5	0	74
PCT	.0	2.5	5.3	3.0	.9	.0	1.0	3.9	3.8	.0	.0	.0	9.4

HGT	E						SE						TOTAL
	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	.8	.0	.0	.0	.0	6
1-2	.0	1.3	1.1	.0	.0	.0	.0	.6	1.6	.0	.0	.0	18
3-4	.0	.4	1.8	.0	.0	.0	.0	.5	.9	.3	.0	.0	13
5-6	.0	.3	1.0	.5	.0	.0	.0	.0	1.0	.3	.0	.0	10
7	.0	.0	.5	.1	.1	.0	.0	.1	1.0	.4	.0	.0	12
8-9	.0	.0	.6	.5	.0	.0	.0	.0	.3	.9	.1	.0	10
10-11	.0	.0	.1	.8	.0	.0	.0	.0	.4	1.0	.1	.0	12
12	.0	.0	.0	.1	.1	.0	.0	.1	.1	.3	.3	.0	6
13-16	.0	.0	.0	.3	.6	.0	.0	.0	.3	.8	.3	.0	10
17-19	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	2
20-22	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.1	.1	.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	.1	.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
TOTAL	0	15	43	20	10	1	17	44	30	8	0	0	99
PCT	.0	1.9	5.4	2.5	1.3	.1	2.2	5.6	3.8	1.0	.0	.0	12.5

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

JANUARY  
 TABLE 18

AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.1	.1	.0	.0	.0	.0	2	.0	.3	.0	.0	.0	.0	2							
1-2	.0	1.3	1.3	.0	.0	.0	21	.1	.9	.6	.0	.0	.0	13							
3-4	.0	.4	1.9	.0	.0	.0	18	.0	1.8	1.0	.5	.0	.0	26							
5-6	.0	.3	.3	.5	.0	.0	8	.0	.4	1.4	.3	.0	.0	16							
7	.0	.1	.4	.4	.0	.0	7	.0	.1	1.5	.4	.0	.0	16							
8-9	.0	.0	.3	.5	.0	.0	6	.0	.0	.5	1.0	.1	.0	13							
10-11	.0	.1	.3	.3	.3	.0	7	.0	.0	.0	.6	.0	.0	5							
12	.0	.0	.1	.4	.0	.0	4	.0	.0	.0	.5	.1	.0	5							
13-16	.0	.0	.0	.4	.5	.0	7	.0	.1	.1	.8	.1	.0	9							
17-19	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.1	.0	.0	1							
20-22	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.3	.0	.0	2							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	1							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.1	1							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.1	2							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	2	18	35	19	8	0	82	1	28	41	35	4	2	111							
PCT	.3	2.3	4.4	2.4	1.0	.0	10.4	.1	3.5	5.2	4.4	.5	.3	14.1							

HGT	W										NW										TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL								
<1	.0	.5	.0	.0	.0	.0	4	.0	.0	.0	.0	.0	.0	0	20							
1-2	.0	1.0	.6	.0	.0	.0	13	.0	.9	1.0	.0	.0	.0	15	117							
3-4	.0	.9	1.1	.6	.0	.0	21	.0	1.4	1.1	.5	.0	.0	24	146							
5-6	.0	1.3	1.5	.9	.0	.0	29	.0	.5	1.0	.9	.0	.0	19	129							
7	.0	.4	1.8	1.9	.0	.0	32	.0	.1	.6	.6	.0	.0	11	104							
8-9	.0	.0	.5	1.4	.0	.0	15	.0	.0	.1	.4	.0	.0	4	72							
10-11	.0	.0	.3	1.1	.1	.0	12	.0	.0	.4	.4	.0	.0	3	55							
12	.0	.0	.1	.6	.1	.0	7	.0	.0	.0	.1	.0	.0	1	35							
13-16	.0	.0	.1	1.1	.4	.0	13	.0	.0	.0	.4	.0	.0	1	78							
17-19	.0	.0	.0	.3	.3	.0	4	.0	.0	.0	.0	.0	.0	0	11							
20-22	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0	6							
23-25	.0	.0	.0	.0	.3	.0	2	.0	.0	.0	.0	.1	.0	1	6							
26-32	.0	.0	.0	.4	.5	.0	7	.0	.0	.0	.0	.0	.0	0	10							
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							
TOTAL	0	32	48	67	13	0	160	0	23	31	23	4	0	81	789							
PCT	.0	4.1	6.1	8.5	1.6	.0	20.3	.0	2.9	3.9	2.9	.5	.0	10.3	100.0							

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

JANUARY

AREA 0008 DUTCH HARBDR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	.4	2.4	.0	.0	.0	.0	22				
1-2	.3	7.2	7.3	.0	.0	.0	117				
3-4	.0	6.1	10.4	2.0	.0	.0	146				
5-6	.0	3.2	9.0	4.0	.1	.0	129				
7	.0	.9	7.6	4.4	.3	.0	104				
8-9	.0	.3	3.0	5.6	.3	.0	72				
10-11	.0	.1	1.1	5.2	.5	.0	55				
12	.0	.1	.5	2.8	1.0	.0	35				
13-16	.0	.1	.6	5.9	3.2	.0	78				
17-19	.0	.0	.1	.5	.8	.0	11				
20-22	.0	.0	.1	.4	.3	.0	6				
23-25	.0	.0	.0	.1	.5	.1	6				
26-32	.0	.0	.0	.4	.6	.3	10				
33-40	.0	.0	.0	.0	.0	.0	0				
41-48	.0	.0	.0	.0	.0	.0	0				
49-60	.0	.0	.0	.0	.0	.0	0				
61-70	.0	.0	.0	.0	.0	.0	0				
71-86	.0	.0	.0	.0	.0	.0	0				
87+	.0	.0	.0	.0	.0	.0	0				
TOTAL	5	161	315	248	59	3	791				
PCT	.6	20.4	39.8	31.4	7.5	.4	100.0				

TABLE 19

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	.2	4.4	6.9	4.7	2.7	2.6	.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	4
6-7	.0	.0	4.9	8.5	4.6	3.2	2.7	1.9	4.7	.7	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	279	7
8-9	.0	.0	1.2	2.3	4.7	3.6	1.9	1.6	2.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	9
10-11	.0	.0	.7	1.5	2.0	1.9	2.8	1.4	2.9	1.1	1.0	.2	.7	.0	.0	.0	.0	.0	.0	.0	144	11
12-13	.0	.0	.0	.1	.3	2.1	.9	.1	.7	.5	.6	.5	.7	.0	.0	.0	.0	.0	.0	.0	57	13
>13	.0	.0	.0	.0	.1	.1	.1	.1	.2	.0	.3	.2	.3	.0	.0	.0	.0	.0	.0	.0	14	19
INDET	1.7	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	1
TOTAL	17	39	121	152	129	120	84	51	102	25	21	9	16	0	0	0	0	0	0	0	886	8
PCT	1.9	4.4	13.7	17.2	14.6	13.5	9.5	5.8	11.5	2.8	2.4	1.0	1.8	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1899-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	HAZE	DUST		BLWG
N	.3		.3	.0	1.3	.0	*	38	.0	.1	.0	*	.0	.0	.0	4.6	135
NNE	.1		*	.0	1.3	*	.0	31	.0	*	*	.0	*	.0	.0	3.8	110
NE	.6		*	.0	1.5	.0	.0	43	.0	.2	.1	.0	.1	.0	.0	4.6	143
ENE	.8		.3	.0	.6	.0	.0	34	.0	.1	.0	.0	.0	.0	.0	3.3	103
E	.7		.5	.0	.9	.0	.0	39	*	.4	*	.0	*	.0	.0	3.2	115
ESE	.8		.5	.0	.3	.0	.0	31	.0	.1	.0	.0	.0	.0	.0	3.5	105
SE	1.3		.3	.0	.7	.0	.0	46	.0	.1	.0	.0	.0	.0	.0	5.6	164
SSE	.8		.3	.0	.5	.0	.0	33	.0	.3	*	.0	*	.0	.0	4.6	135
S	.8		.4	.0	.3	.0	.0	34	.0	.3	.1	.0	.1	.0	.0	7.4	194
SSW	.6		.2	.0	.2	.0	.0	23	.0	.2	.0	.0	.0	.0	.0	4.3	114
SW	.4		.2	.0	.7	.0	.0	31	.0	*	*	.0	*	.0	.0	4.7	130
WSW	.6		.1	.0	.7	*	.0	29	.0	.2	.0	.0	.0	.0	.0	5.0	136
W	.3		.2	.0	.8	.0	.0	29	.0	.1	.0	.0	.0	.0	.0	6.7	168
WNW	.2		.0	.0	.8	.0	.0	23	.0	.0	.0	.0	.0	.0	.0	3.4	93
NW	*		*	.0	1.2	.0	.0	27	.0	.0	.0	.0	.0	.0	.0	3.9	107
NNW	.1		.0	.0	.5	.0	.0	11	.0	*	.0	.0	.0	.0	.0	3.0	74
VAR	.0		.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	*		*	.1	.1	.0	.0	5	.0	*	*	.0	*	.0	.0	.3	14
TOT OBS	175	22	75	1	254	2	8	507	1	51	10	5	1466	5	1466	2040	
TOT PCT	8.6	1.1	3.7	*	12.5	.1	.4	24.9	*	2.5	.5	.2	71.9	.2	71.9	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	HAZE	DUST		BLWG
0000	6.6	.9	3.2	.2	13.3	.2	.4	125	.0	3.0	.8	.4	72.2	.4	72.2	528	
0600	9.6	.6	4.0	.0	12.1	.2	.2	131	.0	2.5	.6	.4	71.5	.4	71.5	522	
1200	8.5	1.8	3.8	.0	8.7	.0	.6	108	.0	1.8	.2	.2	76.0	.2	76.0	495	
1800	9.5	1.0	3.6	.0	15.6	.0	.4	144	.2	2.6	.4	.0	68.4	.0	68.4	507	
TOT	175	22	75	1	255	2	8	508	1	51	10	5	1477	5	1477	2052	
PCT	8.5	1.1	3.7	*	12.4	.1	.4	24.8	*	2.5	.5	.2	72.0	.2	72.0	100.0	

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PERIOD: (PRIMARY) 1944-1970  
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AREA 0008 DUTCH HARBOR  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOURLY (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	.4	2.0	2.4	1.8	.3	*	176	7.0	16.8	5.7	3.1	8.0	5.1	7.0	11.8	7.6	6.6
NNE	.2	.6	2.2	1.5	.2	.0	118	4.7	18.6	4.8	3.1	3.5	6.1	5.9	.8	5.7	5.5
NE	.4	1.3	2.6	2.1	.3	.0	167	6.7	18.7	7.1	3.1	7.0	4.0	5.2	8.7	8.1	4.4
ENE	.0	.7	2.0	1.3	.3	*	111	4.4	19.4	4.7	11.3	4.6	2.0	4.9	.8	4.1	2.2
E	.2	1.1	2.2	1.4	.6	.1	142	5.7	19.8	4.7	4.1	4.6	6.1	4.0	7.1	5.2	3.3
ESE	*	.9	2.0	1.3	.5	*	121	4.8	20.3	5.0	6.2	4.4	7.1	3.5	7.1	4.4	7.7
SE	.6	1.2	3.5	2.3	.9	.2	219	8.8	19.9	8.6	12.4	11.5	10.1	6.3	7.1	7.8	7.7
SSE	.0	1.2	2.4	2.0	.6	.1	159	6.4	20.5	5.7	14.4	5.2	8.1	5.6	7.9	5.4	14.3
S	.2	1.7	3.4	2.8	1.0	.1	232	9.3	20.2	8.3	7.2	9.8	11.1	10.8	9.4	7.6	15.4
SSW	.4	.8	1.8	1.9	.9	*	147	5.9	20.7	6.0	7.2	5.2	7.1	6.8	6.3	4.6	8.8
SW	.5	2.1	2.2	1.6	.5	.3	179	7.2	18.4	5.9	5.2	7.6	11.1	5.9	7.9	9.1	4.4
WSW	.1	.9	2.2	2.3	.8	.2	160	6.4	22.7	6.9	6.2	5.9	2.0	6.1	7.1	7.6	4.4
W	.4	1.5	3.8	1.7	.6	.1	202	8.1	18.9	7.9	7.2	7.8	5.1	11.0	4.7	8.3	4.4
WNW	*	1.2	1.6	1.3	.2	.0	110	4.4	18.0	4.0	4.1	3.5	5.1	5.6	6.3	4.8	1.1
NW	.1	1.5	2.0	1.5	.4	.1	138	5.5	18.8	6.2	4.1	6.9	5.1	6.1	1.6	4.3	5.5
NNW	.1	.6	1.8	1.0	.2	.0	92	3.7	18.3	3.6	1.0	3.1	3.0	4.4	5.5	3.9	3.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	486	956	695	212	34	28	1.1	.0	.9	1.3	2.0	.9	.9	.0	1.7	1.1
TOT OBS	118	19.4	38.2	27.8	8.5	1.4	2501	100.0	19.2	579	97	540	99	427	127	541	91
TOT PCT	4.7	19.4	38.2	27.8	8.5	1.4	2501	100.0	19.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)										HOURLY (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	1.3	4.3	4.7	1.4	.1	294	11.8	17.5	10.5	6.2	11.5	11.1	12.9	12.6	13.3	12.1
NE	1.4	3.4	3.9	2.2	.2	278	11.1	19.0	11.7	14.4	11.7	6.1	10.1	9.4	12.2	6.6
E	1.1	3.2	3.8	1.9	.4	263	10.5	20.0	13.6	10.3	9.1	13.1	7.5	14.2	9.6	11.0
SE	1.5	4.5	5.5	2.8	.7	378	15.1	20.2	14.3	26.8	16.7	18.2	11.9	15.0	13.1	22.0
S	1.6	4.4	5.8	2.7	.8	379	15.2	20.4	14.3	14.4	15.0	18.2	17.6	15.7	12.2	24.2
SW	1.6	4.4	4.2	2.3	1.1	339	13.6	20.4	12.8	11.3	13.5	13.1	11.9	15.0	16.6	8.8
W	1.2	4.7	4.2	2.1	.3	312	12.5	18.6	11.9	11.3	11.3	10.1	16.6	11.0	13.1	5.5
NW	1.2	3.0	3.4	1.4	.2	230	9.2	18.6	9.8	5.2	10.0	8.1	10.5	7.1	8.1	8.8
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	800	890	420	94	28	1.1	.0	.9	1.3	2.0	.9	.9	.0	1.7	1.1
TOT OBS	297	32.0	35.6	15.8	3.8	2501	100.0	19.2	579	97	540	99	427	127	541	91
TOT PCT	11.9	32.0	35.6	15.8	3.8	2501	100.0	19.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)					PCT OBS
	1-3	4-10	11-21	22-33	34-47	
0000	4.1	19.5	38.5	28.1	7.8	1.2
0600	4.1	19.6	38.5	24.9	9.7	1.9
1200	2.0	15.7	39.5	30.7	9.7	1.6
1800	4.0	22.5	35.6	27.8	8.8	1.6
TOT	90	486	956	695	212	34
PCT	3.6	19.4	38.2	27.8	8.5	1.4
						100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	9-10	11-15	16-20	21-25		
N	.3	.6	2.6	2.7	105	6.6				
NNE	.2	.4	1.5	3.2	89	6.9				
NE	.4	.3	1.6	4.2	109	7.0				
ENE	.3	.6	1.0	2.6	75	6.6				
E	.6	.2	1.1	3.8	95	6.8				
ESE	.2	.4	1.4	3.5	93	7.0				
SE	1.0	.6	2.0	3.9	125	6.3				
SSE	1.0	.7	2.0	3.0	112	6.2				
S	1.2	1.4	3.1	4.4	170	6.0				
SSW	1.2	.7	1.8	2.8	109	5.7				
SW	1.1	.9	2.4	1.4	97	5.4				
WSW	1.1	.7	2.6	2.7	118	5.9				
W	1.4	1.6	4.2	1.8	152	5.3				
WNW	.3	.5	2.0	1.6	74	6.2				
NW	.5	.2	2.2	2.0	83	6.4				
NNW	.2	1.0	1.2	1.5	65	6.1				
VAR	.0	.0	.0	.0	0	.0				
CALM	.1	.2	.2	.0	8	3.9				
TOT OBS	184	182	554	759	1679	6.2				
TOT PCT	11.0	10.8	33.0	45.2	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.2	.3	.3	1.1	2.7	.5	.1	.0	.0	.0	1.0	105
NNE	.2	.0	.1	1.1	2.4	.5	.1	.0	.0	.0	.9	89
NE	.3	.0	.5	1.5	2.4	.7	.0	.1	.0	.0	1.0	109
ENE	.3	.1	.4	.8	1.1	.4	.1	.0	.0	.0	1.4	75
E	.4	.1	.3	.8	2.1	.4	.1	.2	.1	.1	1.3	95
ESE	.4	.0	.2	.7	2.6	.4	.1	.0	.1	.1	1.2	93
SE	.5	.1	.2	.8	2.3	.7	.1	.1	.0	.0	2.6	125
SSE	.8	.0	.3	.7	1.8	.5	.0	.0	.1	.0	2.6	112
S	1.3	.1	.2	1.4	2.3	.7	.1	.2	.1	.0	4.1	170
SSW	.4	.1	.2	1.1	1.3	.6	.1	.1	.0	.1	2.5	109
SW	.3	.1	.2	.8	1.5	.5	.1	.0	.0	.0	2.4	97
WSW	.3	.0	.3	1.4	2.2	.4	.2	.1	.0	.0	2.1	118
W	.4	.1	.0	1.1	2.7	.6	.3	.0	.0	.0	3.9	152
WNW	.3	.1	.0	1.0	1.6	.3	.0	.0	.0	.0	1.1	74
NW	.2	.1	.1	.7	2.0	.7	.0	.0	.1	.0	1.3	83
NNW	.2	.0	.0	.4	1.6	.4	.1	.0	.0	.0	1.2	65
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	8
TOT OBS	107	17	54	257	549	133	25	13	4	4	516	1679
TOT PCT	6.4	1.0	3.2	15.3	32.7	7.9	1.5	.8	.2	.2	30.7	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)	>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	.3	.4	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >5000	.8	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 >3500	1.6	2.6	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	2.7
OR >2000	5.8	9.5	10.3	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
OR >1000	14.0	33.2	39.5	42.0	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
OR >600	23.1	42.2	53.1	57.0	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1	58.1
OR >300	23.5	43.8	55.4	60.8	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
OR >150	23.7	44.5	56.2	65.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
OR > 0	24.0	46.6	59.6	65.1	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2	67.2
TOTAL	403	783	1003	1095	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131	1131

TOTAL NUMBER OF OBS: 1682 PCT FREQ NH <5/8: 31.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	3.2	5.3	8.6	7.4	6.3	5.5	10.7	11.9	35.6	5.6
										1741

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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	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	.0	.0	*	.1	.2	*	.0	*	.2	.0	.1	.1	*	*	.1	.0	.0	.0	23	1.1
	.0	.0	*	.0	.1	.2	.1	*	.1	.1	*	.1	*	*	.0	.0	.0	.0	20	1.0
	0	0	2	3	1	2	5	7	7	3	3	4	4	2	1	2	0	0	43	2.1
1/2<1	.0	.1	.2	.1	.2	.1	.2	.1	.3	*	*	.1	*	*	.1	.0	.0	.0	41	2.0
	.0	.1	.1	.1	.0	.2	.0	*	.1	*	*	*	*	*	.0	.0	.0	.0	20	1.0
	0	4	8	4	5	6	8	2	8	2	2	4	2	2	3	0	0	0	61	3.0
1<2	.4	.3	.5	.5	.3	.2	.2	.2	.2	.2	.5	.2	.1	.1	.2	*	.0	*	92	4.5
	.1	.1	.3	.1	.1	.1	.2	.1	.3	.1	.1	.1	.0	.1	.0	.1	.0	.0	44	2.2
	11	9	17	12	9	6	10	7	12	7	12	7	3	6	5	3	0	1	136	5.7
2<5	.5	.6	.7	.3	.5	.5	.5	.4	.3	.4	.3	.3	.3	.2	.3	.3	.0	*	139	6.8
	.6	.5	.7	.2	.4	.4	.7	.3	.7	.3	.7	.7	.7	.4	.5	.2	.0	*	170	8.3
	23	22	29	12	19	18	25	16	20	16	21	20	20	13	17	10	0	2	309	15.2
5<10	.8	.5	.6	.5	.7	.5	1.2	.6	.6	.3	.4	.6	.7	.3	.6	.2	.0	.1	191	9.4
	1.3	1.1	1.6	1.0	1.3	1.3	1.8	1.6	2.6	1.5	1.5	1.7	1.7	1.0	2.0	1.3	.0	.1	493	24.2
	42	32	44	32	40	36	62	45	65	38	39	46	50	27	52	30	0	4	684	33.6
10+	.1	*	.1	*	.0	.1	.0	.1	.0	*	.0	*	.1	.2	.0	.0	.0	*	22	1.1
	2.7	2.1	2.1	1.9	1.6	1.7	2.9	2.4	4.0	2.3	2.5	2.6	4.3	1.9	1.5	1.5	.0	.3	783	38.4
	58	43	44	40	36	36	60	50	82	48	51	55	91	43	30	31	0	7	805	39.5
TOTAL	134	110	144	103	114	105	164	134	194	114	129	136	168	93	108	74	0	14	2038	100.0
PCT	6.6	5.4	7.1	5.1	5.6	5.2	8.0	6.6	9.5	5.6	6.3	6.7	8.2	4.6	5.3	3.6	.0	.7	100.0	

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TABLE 9

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

VSBY (NM)	SPD KTS	WIND DIRECTION																CALM	TOTAL	PCT							
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW				VAR						
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.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	.4
	11-21	.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	.7
	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	22	.9
TOTAL	0	0	2	3	7	3	6	8	4	5	5	2	2	1	2	1	2	0	0	0	0	0	0	0	50	2.0	
1/2<1	0-3	.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	*
	4-10	.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	.4
	11-21	.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	.6
	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	36	1.5
TOTAL	0	4	8	4	7	5	6	8	2	5	2	2	2	3	2	3	0	0	0	0	0	0	0	0	63	2.5	
1<2	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.4
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.9
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	1.4
	22+	.2	.2	.5	.3	.2	.4	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	90	3.6
TOTAL	13	10	18	13	7	9	11	9	9	8	9	12	8	5	5	9	5	3	0	0	0	0	0	2	157	6.4	
2<5	0-3	.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	.5
	4-10	.3	.4	.5	.1	.3	.3	.2	.1	.2	.3	.3	.3	.2	.1	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	59	2.4
	11-21	.3	.5	.6	.3	.5	.7	.4	.5	.4	.3	.5	.5	.4	.3	.3	.3	.2	.2	.2	.2	.2	.2	.2	.2	95	3.8
	22+	.5	.5	.6	.3	.5	.4	.7	.8	.4	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	200	8.1
TOTAL	29	24	39	15	20	20	31	25	18	26	26	22	22	22	22	15	20	14	0	0	0	0	0	4	367	14.9	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	1.9
	4-10	.7	.1	.2	.2	.5	.4	.4	.2	.3	.7	.2	.2	.5	.2	.2	.6	.2	.2	.2	.2	.2	.2	.2	.2	143	5.8
	11-21	.8	.6	.8	.6	.6	1.4	.8	.8	1.1	.6	.8	.8	.9	.9	1.1	.6	.6	.6	.6	.6	.6	.6	.6	.6	307	12.4
	22+	.7	.6	.7	.6	.9	1.4	.8	.8	1.3	.8	1.1	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	333	13.5
TOTAL	57	33	46	33	49	39	86	51	52	61	61	54	60	60	29	61	61	34	0	0	0	0	0	12	829	33.5	
10+	0-3	.2	.1	.1	.0	.2	.2	.0	.1	.1	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	1.9
	4-10	.9	.4	.5	.4	.6	.4	.6	.9	.6	.9	.5	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	235	9.5
	11-21	1.2	1.0	1.1	1.0	1.2	.9	1.6	1.1	1.2	1.2	1.1	1.2	1.2	1.2	.8	.7	.7	.7	.7	.7	.7	.7	.7	.7	471	19.1
	22+	.7	.3	.4	.3	.5	.8	1.5	1.0	.6	.9	.9	.9	.9	.7	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	251	10.2
TOTAL	76	46	52	42	50	43	80	58	62	71	64	109	109	52	48	48	40	40	0	0	0	0	0	10	1005	40.7	
TOTAL	175	117	165	110	140	119	215	155	147	177	158	200	200	109	138	138	91	91	0	0	0	0	0	28	2471	100.0	
PCT	7.1	4.7	6.7	4.5	5.7	4.8	8.7	6.3	5.9	7.2	6.4	8.1	8.1	4.4	5.6	5.6	3.7	3.7	.0	.0	.0	.0	.0	.0	1.1	100.0	

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PERIOD: (PRIMARY) 1944-1970  
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AREA 0008 DUTCH HARBOR  
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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 OBS
0000	149	299	599	999	1999	3499	4999	6499	7999			
00003	4.6	1.4	3.6	18.9	31.0	6.2	1.4	1.6	.5	.5	69.5	439
06009	8.6	.7	2.7	14.3	33.9	9.5	2.0	.9	.0	.2	72.9	442
12015	5.8	.8	3.5	14.2	31.6	10.6	.8	.3	.3	.0	67.8	395
18021	6.1	1.2	2.8	13.2	32.9	5.2	1.7	.2	.2	.2	63.8	423
TOT	107	17	54	258	550	133	25	13	4	4	1165	1699
PCT	6.3	1.0	3.2	15.2	32.4	7.8	1.5	.8	.2	.2	68.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1.2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.0	2.5	4.8	12.6	25.2	51.8	436
06009	2.3	2.1	7.1	13.8	30.1	44.6	435
12015	.8	2.1	4.4	16.9	34.1	41.8	390
18021	1.2	2.1	6.7	14.7	28.0	47.3	421
TOT	31	37	97	243	492	782	1682
PCT	1.8	2.2	5.8	14.4	29.3	46.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.6	12.4	37.4	33.0	29.6	436
06009	8.5	13.1	37.2	38.2	24.6	435
12015	5.9	11.8	38.7	32.1	29.2	390
18021	6.2	11.4	37.3	29.2	33.5	421
TOT	106	205	633	558	491	1682
PCT	6.2	12.2	37.6	33.2	29.2	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
50/54	.0	.0	.0	.1	.1	.0	.2	.0	7	.4
45/49	.0	.0	.0	.2	.1	.5	.3	.6	30	1.8
40/44	.0	.1	.1	.2	1.2	3.7	5.1	8.7	321	18.9
35/39	.0	.0	.1	1.2	3.7	9.5	13.8	21.2	840	49.5
30/34	.0	.0	.1	.1	.9	3.1	6.4	7.9	313	18.4
25/29	.0	.0	.1	.2	.5	1.0	1.6	4.5	134	7.9
20/24	.0	.0	.0	.0	.1	.9	1.3	.8	53	3.1
TOTAL	0	2	6	33	111	317	486	743	1698	100.0
PCT	.0	.1	.4	1.9	6.5	18.7	28.6	43.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.1	.0	.0	.1	.0	.2	.1	.0	.0	.0
45/49	.2	.1	.2	.3	.3	.4	.2	.1	.0	.0
40/44	.6	1.4	2.0	4.2	5.7	3.2	.8	.5	.0	.5
35/39	3.2	4.2	5.5	8.0	9.4	8.2	6.2	3.9	.0	.6
30/34	4.1	2.8	1.8	1.1	1.1	1.9	2.9	2.5	.0	.2
25/29	2.5	1.8	.2	.2	.2	.4	1.4	1.2	.0	.0
20/24	1.5	.6	.0	.0	.0	.1	.1	.5	.0	.0
TOTAL	216	185	166	235	282	244	197	149	0	24
PCT	12.7	10.9	9.8	13.8	16.6	14.4	11.6	8.8	.0	1.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	52	49	44	37	27	22	19	36.9	669
06009	50	45	43	37	27	21	20	35.9	642
12015	45	43	41	36	26	21	20	35.2	551
18021	48	44	42	36	26	20	20	35.5	629
TOT	52	45	42	37	27	21	19	35.9	2491

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.6	8.6	21.0	24.7	43.0	84	85	84	453
06009	.0	2.2	5.8	19.1	28.9	43.9	85	85	85	446
12015	.0	3.2	6.4	15.2	32.7	41.6	85	85	85	346
18021	.0	1.8	5.3	17.8	29.2	46.1	86	86	86	456
TOT	0	41	111	317	487	745	85	85	85	1701

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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	17	21	25	29	33	37	41	45	49	TOT	W FOG	MO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.1	.2	.0	5	.1	.2
6	.0	.0	.0	.0	.1	.2	.2	.1	.0	10	.1	.5
5	.0	.0	.0	.0	.0	.3	.8	.2	.0	24	.1	1.3
4	.0	.0	.0	.0	.0	.6	2.2	.1	.0	51	.3	2.6
3	.0	.0	.0	.0	.2	2.0	1.1	.0	.0	59	.1	3.2
2	.0	.0	.0	.1	.2	3.5	1.6	.1	.0	97	.2	5.2
1	.0	.0	.0	.0	.6	5.8	.7	.0	.0	127	.1	7.0
0	.0	.0	.1	.0	1.9	10.5	.8	.0	.0	239	.4	12.9
-1	.0	.0	.0	.1	4.9	5.9	.2	.0	.0	197	.2	10.8
-2	.0	.0	.1	.2	6.7	4.6	.2	.0	.0	211	.3	11.5
-3	.0	.0	.1	.2	4.5	2.6	.0	.0	.0	131	.2	7.1
-4	.0	.0	.1	.8	3.9	1.4	.0	.0	.0	112	.2	6.1
-5	.0	.0	.1	1.0	4.6	.6	.0	.0	.0	113	.2	6.1
-6	.0	.0	.3	1.6	2.0	.3	.0	.0	.0	74	.0	4.1
-7/-8	.0	.0	.6	3.2	1.9	.4	.0	.0	.0	110	.0	6.1
-9/-10	.0	.1	2.1	2.5	.6	.0	.0	.0	.0	93	.0	5.2
-11/-13	.0	.6	2.3	.8	.2	.0	.0	.0	.0	69	.0	3.8
-14/-16	.1	1.8	.8	.2	.0	.0	.0	.0	.0	51	.0	2.8
-17/-19	.5	.4	.0	.0	.0	.0	.0	.0	.0	16	.0	.9
-20/-22	.0	.1	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	10	52	115	188	578	697	142	11	1	1794	40	1754
PCT	.6	2.9	6.4	10.5	32.2	38.9	7.9	.6	.1	100.0	2.2	97.8

PERIOD: (PRIMARY) FEBRUARY AREA 0008 DUTCH HARBOR  
(OVER-ALL) 1963-1970 TABLE 18 51-55N 165-172W

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

HGT	N										NE			TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.2	.0	.0	.0	.0	3	.0	.1	.0	.0	.0	.0	1
1-2	.1	1.2	1.5	.0	.0	.0	28	.2	1.0	1.4	.0	.0	.0	26
3-4	.0	.6	1.5	.5	.0	.0	26	.2	.1	1.8	1.2	.0	.0	33
5-6	.0	.3	1.1	.7	.0	.0	21	.0	.2	.6	.3	.1	.0	12
7	.0	.0	1.7	1.0	.0	.0	17	.0	.0	.6	.8	.1	.0	15
8-9	.0	.1	.6	.3	.4	.0	14	.0	.1	.7	.6	.2	.0	16
10-11	.0	.0	.1	.2	.0	.0	3	.0	.0	.0	.6	.1	.1	8
12	.0	.0	.0	.1	.2	.0	3	.0	.0	.0	.2	.0	.0	2
13-16	.0	.0	.0	.2	.1	.0	3	.0	.0	.0	.2	.1	.0	3
17-19	.0	.0	.0	.1	.3	.0	4	.0	.0	.0	.1	.3	.0	4
20-22	.0	.0	.0	.2	.0	.0	2	.0	.0	.0	.1	.0	.0	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	2	24	55	33	10	0	124	4	15	51	43	10	1	124
PCT	.2	2.4	5.4	3.2	1.0	.0	12.2	.4	1.5	5.0	4.2	1.0	.1	12.2

HGT	E										SE			TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	4	.1	.3	.0	.0	.0	.0	4
1-2	.1	.9	.7	.0	.0	.0	17	.1	.3	1.3	.0	.0	.0	17
3-4	.0	.1	1.0	.3	.0	.0	14	.0	.7	2.7	.7	.0	.0	41
5-6	.0	.1	.7	.5	.2	.0	15	.0	.2	1.6	.8	.0	.0	26
7	.0	.3	.5	.4	.1	.0	13	.0	.1	1.0	.9	.1	.0	21
8-9	.0	.0	.5	.6	.0	.0	11	.0	.2	.3	1.0	.3	.0	18
10-11	.0	.0	.4	.3	.3	.0	10	.0	.0	.1	1.0	.5	.0	16
12	.0	.0	.0	.4	.3	.0	7	.0	.0	.0	.3	.2	.0	5
13-16	.0	.0	.0	.6	1.0	.1	17	.0	.0	.0	.4	.1	.0	5
17-19	.0	.0	.0	.0	.2	.0	2	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.1	.2	.0	3	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.1	.0	2
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	2	17	38	32	23	1	113	2	18	70	52	13	0	155
PCT	.2	1.7	3.7	3.1	2.3	.1	11.1	.2	1.8	6.9	5.1	1.3	.0	15.2

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

FEBRUARY  
TABLE 18

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOTAL	48+	TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47	48+	TOTAL
<1	.2	.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2
1-2	.1	.6	.6	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	11
3-4	.0	.5	1.9	.6	.0	.0	.0	.0	.0	1.4	.1	.0	.0	.0	.0	24
5-6	.0	.4	2.2	.9	.1	.0	.0	.0	.0	1.3	.9	.0	.0	.0	.0	23
7	.0	.2	.8	1.0	.0	.0	.0	.0	.0	.6	1.0	.1	.0	.0	.0	17
8-9	.0	.0	.2	1.2	.3	.0	.0	.0	.0	.3	.7	.2	.0	.0	.0	13
10-11	.0	.0	.3	.5	.2	.1	.0	.0	.0	.1	1.0	.2	.0	.0	.0	13
12	.0	.0	.0	.2	.1	.3	.0	.0	.0	.3	.4	.3	.0	.0	.0	13
13-16	.0	.0	.0	.5	.5	.7	.0	.0	.0	.2	.7	.7	.0	.0	.0	12
17-19	.0	.0	.0	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
20-22	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	2
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
TOTAL	3	20	60	50	16	1	2	17	47	19	43	19	7	135	135	
PCT	.3	2.0	5.9	4.9	1.6	.1	.2	1.7	4.6	1.9	4.2	1.9	.7	13.3	13.3	

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOTAL	48+	TOTAL	GRAND TOTAL		
	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	.2	.1	.0	.0	.0	.0	.0	.0	.0	22
1-2	.1	.7	1.0	.2	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	136
3-4	.1	.2	2.2	.6	.1	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	211
5-6	.0	.3	1.0	.9	.2	.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	165
7	.0	.0	.8	.9	.2	.0	.0	.1	.6	.0	.9	.0	.0	.0	.0	141
8-9	.0	.0	.3	.6	.3	.0	.0	.0	.0	.0	.6	.1	.0	.0	.0	108
10-11	.0	.0	.4	.5	.0	.0	.0	.0	.2	.0	.4	.2	.0	.0	.0	77
12	.0	.0	.2	.4	.2	.0	.0	.1	.3	.3	.3	.3	.0	.0	.0	48
13-16	.0	.0	.1	.5	.3	.0	.0	.0	.3	.1	.1	.2	.0	.0	.0	66
17-19	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	15
20-22	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	19
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	6
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	3
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
TOTAL	3	17	60	38	15	2	8	34	34	8	29	8	0	81	1017	
PCT	.3	1.7	5.9	3.7	1.5	.2	.8	3.3	3.3	.8	2.9	.8	.0	8.0	100.0	

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

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AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+	
<1	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	26
1-2	.7	5.4	7.2	.0	.0	.0	.0	.0	.0	.0	136
3-4	.3	3.7	12.9	3.7	.0	.0	.0	.0	.0	.0	211
5-6	.1	1.5	9.3	4.8	.5	.0	.0	.0	.0	.0	165
7	.0	1.0	5.5	6.8	.6	.0	.0	.0	.0	.0	141
8-9	.0	.4	2.8	5.5	1.9	.0	.0	.0	.0	.0	108
10-11	.0	.0	1.6	4.4	1.5	.1	.0	.0	.0	.0	77
12	.0	.1	.6	2.3	1.6	.2	.0	.0	.0	.0	48
13-16	.0	.0	.6	2.6	2.9	.3	.0	.0	.0	.0	66
17-19	.0	.0	.1	.4	.8	.2	.0	.0	.0	.0	15
20-22	.0	.0	.0	.6	1.2	.1	.0	.0	.0	.0	19
23-25	.0	.0	.0	.3	.2	.1	.0	.0	.0	.0	6
26-32	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	3
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
TOTAL	24	136	415	320	114	12	1021				
PCT	2.4	13.3	40.6	31.3	11.2	1.2	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	3-4	5-6	7	8-9	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	.2	2.6	5.9	4.6	2.9	2.2	1.2	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	225	5
6-7	.0	.2	5.0	7.1	4.8	3.4	4.0	1.8	3.5	1.3	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	353	8
8-9	.0	.1	2.0	3.6	7.2	3.3	3.2	2.0	1.3	.5	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	260	8
10-11	.0	.0	.6	1.8	1.9	3.7	2.1	1.6	2.7	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	167	9
12-13	.0	.0	.5	.0	.2	.5	.8	.5	.5	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	34	10
>13	.0	.0	.0	.0	.2	.0	.3	.5	.6	.1	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	28	16
INDET	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	0
TOTAL	29	31	153	187	188	144	127	78	97	25	19	8	8	8	0	0	0	0	0	0	1094	7
PCT	2.7	2.8	14.0	17.1	17.2	13.2	11.6	7.1	8.9	2.3	1.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	100.0	0

MARCH

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	BLWG	DUST	
N	.3	*	.2	.0	1.0	*	.0	1.5	32	.0	.2	.0	.0	.0	6.7	182
NNE	.4	*	.0	.0	.5	.0	.0	.8	18	.0	*	.0	.0	.0	2.8	80
NE	.5	*	.1	.0	.8	.0	.0	1.4	30	.0	.2	.0	.0	.0	4.0	122
ENE	.2	*	.3	.0	.9	.0	.0	1.3	29	.0	.1	.0	.0	.0	4.5	129
E	.4	.0	.2	.0	.4	.0	.0	.9	20	.0	.2	*	*	*	4.3	121
ESE	.2	.0	.5	.0	.3	*	.0	1.0	22	.0	.5	.0	.0	.0	2.7	92
SE	.6	.0	.4	.0	.6	.1	.0	1.6	34	.0	.6	.0	.0	.0	5.1	159
SSE	.4	.1	.4	.0	.1	.0	*	1.1	23	*	.3	.0	.0	.0	4.6	131
S	.8	*	.3	.0	.6	*	.0	1.7	36	.0	.7	.0	.0	.0	5.0	162
SSW	.5	.0	.2	.0	.1	.0	.0	.7	15	.0	.5	.0	.0	.0	3.5	103
SW	.5	.0	.3	.0	.7	.0	.0	1.5	32	.0	.3	.0	.0	.0	4.1	130
WSW	.2	.2	.1	.0	.6	.0	*	1.0	21	.0	.2	.0	.0	.0	6.4	166
W	.1	*	.2	.0	.8	.0	*	1.1	24	.0	.3	.0	.0	.0	7.2	188
WNW	.1	.0	*	.0	.4	.0	.0	.6	12	.0	.1	.0	.0	.0	4.9	120
NW	.2	.0	.1	.0	.9	.1	*	1.4	30	.0	*	.0	.0	.0	5.0	139
NNW	*	.0	.1	.0	.8	.0	.0	1.0	22	.0	.1	.0	.0	.0	5.1	138
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	*	1
CALM	*	.0	.0	.0	.0	.0	.0	.0	1	.0	.1	.0	.0	.0	.6	16
TOT OBS	116	13	75	1	209	7	4	*	401	1	100	9	2	1666	2179	
TOT PCT	5.3	.6	3.4	*	9.6	.3	.2	18.4		*	4.6	.4	.1	76.5	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	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	DUST	BLWG	DUST	
0003	3.4	.2	2.6	.0	9.2	.2	.2	15.0	88	.0	5.8	.5	.2	78.5	586	
0609	5.6	1.0	4.6	.0	10.1	.0	.0	19.5	101	.0	3.5	.6	.2	76.2	517	
12015	5.7	.7	2.2	.2	8.8	.4	.5	17.4	95	.2	3.1	.0	.0	79.3	547	
18021	6.6	.6	4.6	.0	10.5	.7	.0	22.1	120	.0	5.7	.6	.0	71.7	544	
TOT	116	13	76	1	211	7	4		404	1	100	9	2	1678	2194	
PCT	5.3	.6	3.5	*	9.6	.3	.2	18.4		*	4.6	.4	.1	76.5	100.0	

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PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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	00	03	06	09	12	15	18	21
N	.4	1.9	3.5	2.2	.3	.0	216	8.2	17.0	8.4	4.8	9.0	5.9	9.0	8.0	7.5	9.6
NNE	.2	1.1	1.3	.9	.1	.0	94	3.6	16.6	3.6	1.9	3.6	4.2	4.1	3.6	3.3	3.5
NE	.4	1.7	2.1	1.4	.2	.0	152	5.8	16.0	5.8	7.6	6.6	2.5	4.3	4.3	7.4	4.3
ENE	.1	1.2	2.0	1.1	.9	.0	140	5.3	20.2	4.8	10.5	4.7	5.0	6.4	2.9	5.9	2.6
E	.3	1.4	2.0	1.3	.3	*	139	5.3	17.6	5.3	2.9	5.6	5.0	5.1	2.2	6.6	4.3
ESE	.2	.8	1.8	.9	.4	.0	106	4.0	18.2	3.8	4.8	3.8	5.0	4.1	2.9	4.2	5.2
SE	.6	1.6	2.7	2.1	.2	.1	193	7.3	17.3	7.8	7.6	7.3	9.2	6.8	10.1	6.1	7.8
SSE	.2	1.6	2.7	1.1	.2	.0	152	5.8	16.4	3.1	6.7	4.1	11.8	6.8	12.3	5.1	11.3
S	.2	2.0	3.0	2.1	.3	.0	200	7.6	17.0	8.1	10.5	8.8	5.0	8.1	8.7	5.7	5.2
SSW	.2	1.1	1.9	1.3	.2	.1	125	4.8	18.2	6.4	.0	4.3	8.4	5.1	3.6	3.5	4.3
SW	.4	1.9	1.9	2.0	.6	.0	177	6.7	17.9	5.8	4.8	8.4	5.9	5.3	8.0	7.9	5.2
WSW	.1	1.6	2.5	2.2	.6	.1	189	7.2	20.1	7.4	10.5	6.6	9.2	6.8	8.0	6.1	9.6
W	.4	3.0	2.9	2.2	.7	.2	245	9.3	17.5	10.6	8.6	8.4	9.2	8.7	8.0	9.4	11.3
WNW	.1	1.5	2.5	1.1	.3	.0	144	5.5	16.3	5.6	7.6	5.3	5.9	5.1	5.1	5.5	5.2
NW	.3	1.5	2.5	1.1	.8	*	166	6.3	17.8	5.3	4.8	6.9	5.0	6.4	8.0	7.4	4.3
NNW	*	1.5	1.6	1.6	.6	.1	165	6.3	19.3	7.3	5.7	5.8	2.5	6.4	4.3	7.0	6.1
VAR	#	.0	.0	.0	.0	.0	1	#	1.0	.0	.0	.0	.0	.2	.0	.0	.0
CALM	1.0	665	995	641	178	17	25	1.0	.0	1.0	1.0	.8	.0	1.3	.0	1.5	.0
TOT OBS	133	25.3	37.8	24.4	6.8	.6	2629	100.0	17.5	606	105	533	119	469	138	544	115
TOT PCT	5.1	25.3	37.8	24.4	6.8	.6	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 SPD	00	03	06	09	12	15	18	21
N	1.7	4.5	3.9	1.7	*	310	11.8	16.9	12.0	6.7	12.6	10.1	13.0	11.6	10.8	13.0
NE	1.6	4.0	3.5	1.5	.5	292	11.1	18.0	10.6	18.1	11.3	7.6	10.7	7.2	13.2	7.0
E	1.2	3.8	2.7	1.6	.1	245	9.3	17.8	9.1	7.6	9.4	10.1	9.2	5.1	10.8	9.6
SE	1.9	4.8	4.3	1.9	.2	345	13.1	16.9	10.9	14.3	11.4	21.0	13.6	22.5	11.2	19.1
S	1.4	4.5	4.5	1.8	.2	325	12.4	17.5	14.5	10.5	13.1	13.4	13.2	12.3	9.2	9.6
SW	1.9	4.5	4.4	2.7	.5	366	13.9	19.0	13.2	15.2	15.0	15.1	12.2	15.9	14.0	14.8
W	2.3	6.2	3.6	2.4	.3	389	14.8	17.0	16.2	16.2	13.7	15.1	13.9	13.0	14.9	16.5
NW	1.3	4.9	3.9	2.1	.4	331	12.6	18.6	12.5	10.5	12.8	7.6	12.8	12.3	14.3	10.4
VAR	#	.0	.0	.0	.0	1	#	1.0	.0	.0	.0	.0	.2	.0	.0	.0
CALM	1.0	976	809	409	58	25	1.0	.0	1.0	1.0	.8	.0	1.3	.0	1.5	.0
TOT OBS	377	37.1	30.8	15.6	2.2	2629	100.0	17.5	606	105	533	119	469	138	544	115
TOT PCT	14.3	37.1	30.8	15.6	2.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1942-1970  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	WIND SPEED (KNOTS)				PCT TOTAL DBS
	22-33	34-47	48+	CALM	
00003	4.4	24.2	35.7	26.0	8.0
06009	4.0	26.4	39.0	24.2	6.4
12015	2.3	24.3	41.9	23.8	5.6
18021	5.5	26.4	36.3	23.4	6.8
TOT	107	665	995	641	178
PCT	4.1	25.3	37.9	24.4	6.8
					100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	OBSCD	8 &		
N	1.4	.5	2.7	4.9	163	6.2				
NNE	.8	.2	.9	1.9	64	5.8				
NE	.9	.4	.8	3.4	92	6.3				
ENE	1.1	.1	1.5	3.0	96	6.1				
E	.6	.2	1.9	3.0	99	6.4				
ESE	.2	.1	1.2	2.5	67	7.1				
SE	.3	.5	1.5	4.9	122	7.1				
SSE	.4	.7	.9	4.3	107	6.9				
S	.6	.4	1.6	4.5	121	6.9				
SSW	.2	.4	1.1	2.5	71	6.8				
SW	.3	.4	1.1	3.2	84	6.9				
WSW	.4	.7	3.0	3.3	127	6.5				
W	.9	.8	2.9	3.4	137	6.1				
WNW	.6	.8	2.8	2.2	108	5.9				
NW	.6	.5	2.7	2.8	113	6.2				
NNW	.6	.5	2.6	3.1	129	6.5				
VAR	.1	.0	.0	.0	1	.0				
CALM	.2	.2	.2	.2	15	4.7				
TOT OBS	172	128	501	906	1707	6.5				
TOT PCT	10.1	7.5	29.3	53.1	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												TOTAL DBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL	
N	.4	.1	.2	2.2	2.3	1.5	.4	.2	.0	.1	2.3	163	
NNE	.2	.0	.1	.8	1.1	.5	.2	.0	.0	.0	.9	64	
NE	.4	.0	.2	.9	1.3	.7	.0	.0	.0	.0	1.8	92	
ENE	.6	.1	.5	1.5	1.0	.9	.1	.1	.0	.1	1.7	96	
E	.4	.0	.1	1.2	1.6	.9	.1	.0	.0	.1	1.5	99	
ESE	.4	.1	.4	.9	1.0	.4	.1	.1	.0	.1	.6	67	
SE	1.0	.0	.2	1.6	1.6	.8	.2	.1	.2	.0	1.4	122	
SSE	.5	.0	.2	1.0	2.0	1.1	.1	.1	.0	.1	1.3	107	
S	.9	.0	.2	.9	2.7	.8	.1	.0	.0	.0	1.5	121	
SSW	.4	.1	.1	1.0	.8	.6	.1	.0	.0	.0	1.1	71	
SW	.7	.1	.4	.8	1.2	.5	.2	.0	.0	.0	1.1	84	
WSW	.2	.0	.6	1.8	2.1	.5	.1	.1	.0	.1	2.0	127	
W	.4	.1	1.1	2.2	1.3	1.1	.2	.1	.1	.0	2.6	137	
WNW	.3	.0	.2	.8	1.9	1.0	.0	.1	.0	.0	2.1	108	
NW	.5	.1	.2	1.4	1.8	1.0	.0	.0	.0	.0	1.6	113	
NNW	.4	.0	.2	1.9	1.8	.6	.4	.1	.0	.2	1.5	120	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	
CALM	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.5	15	
TOT OBS	129	10	62	344	442	223	34	14	4	8	437	1707	
TOT PCT	7.6	.6	3.6	20.2	25.9	13.1	2.0	.8	.2	.5	25.6	100.0	

PERIOD: (PRIMARY) 1942-1970  
 (OVER-ALL) 1901-1970

MARCH

AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

TABLE 7

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

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5
= OR >2000	10.9	15.4	16.3	16.6	16.6	16.6	16.6	16.6
= OR >1000	22.9	37.0	40.9	42.1	42.4	42.6	42.6	42.6
= OR >600	23.0	50.9	59.9	62.1	62.4	62.7	62.7	62.7
= OR >300	28.4	53.0	62.9	65.4	65.9	66.4	66.4	66.4
= OR >150	28.5	53.2	63.4	65.9	66.5	66.9	66.9	66.9
= OR > 0	29.9	54.4	65.8	69.3	70.9	72.8	74.4	74.4
TOTAL	494	930	1124	1185	1211	1245	1272	1272

TOTAL NUMBER OF OBS: 1709

PCT FREQ NH <5/8: 25.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)		TOTAL								
0	1	2	3	4	5	6	7	8	OBSCD	OBS
4.1	3.1	6.4	5.4	6.2	7.6	11.4	11.5	37.1	7.2	1766

MARCH

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						*
<1/2	PCP	.1	*	*	*	.1	.1	.1	*	*	.0	.1	.0	.1	.0	*	.1	.0	.0	.0	21	1.0
	NO PCP	*	.1	.1	.3	.3	.3	.3	.3	.3	.2	.2	.1	.1	*	*	*	.1	.0	.1	49	2.3
	TOTAL	4	1	4	3	5	8	10	6	4	8	6	3	5	1	2	4	0	0	2	70	3.2
1/2<1	PCP	*	.1	*	.4	.1	.1	.1	.1	.2	*	.0	*	.1	.1	.1	.0	.0	.0	.0	34	1.6
	NO PCP	.1	.0	*	.1	.1	.1	.2	.3	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	27	1.2
	TOTAL	3	3	2	10	3	5	6	9	10	1	0	1	4	2	2	0	0	0	0	61	2.8
1<2	PCP	.2	*	.1	.1	.2	.2	.2	.2	.1	*	.3	*	.1	*	.2	.1	.0	.0	.0	45	2.1
	NO PCP	.1	.0	.1	*	.1	.1	.1	.1	.4	.2	.3	.5	.2	*	.0	.1	.0	.0	.0	55	2.5
	TOTAL	7	1	5	3	7	3	7	7	11	11	13	11	8	2	4	6	0	0	0	100	4.6
2<5	PCP	.6	.1	.4	.3	.2	.3	.6	.2	.6	.3	.4	.2	.2	.1	.4	.2	.0	.0	.0	113	5.2
	NO PCP	.8	.2	.3	.2	.2	.4	.4	.6	.6	.5	.7	.3	.4	.3	.4	.6	.0	.0	.1	149	6.9
	TOTAL	30	7	16	11	15	9	21	17	24	24	24	11	14	9	17	18	0	0	2	262	12.1
5<10	PCP	.2	.3	.6	.4	.4	.3	.5	.5	.6	.1	.5	.5	.5	.2	.6	.5	.0	.0	*	143	6.6
	NO PCP	2.1	1.0	1.2	1.2	1.2	1.3	2.2	1.3	1.9	1.8	1.8	3.1	2.4	1.6	1.9	2.3	.0	.0	.3	615	28.4
	TOTAL	51	27	38	35	30	38	57	38	54	54	41	78	62	39	54	60	0	0	7	758	34.9
10+	PCP	.3	.1	.1	.1	.0	.2	.2	.1	.1	.2	.2	.1	.1	.1	.1	.1	.0	.0	.0	44	2.0
	NO PCP	3.7	1.7	2.4	2.9	1.2	2.8	2.5	2.6	2.4	1.4	1.5	2.7	4.3	3.0	2.7	2.3	*	*	.2	874	40.3
	TOTAL	86	40	55	65	27	62	58	59	53	34	37	62	95	67	60	52	1	1	5	918	42.3
TOTAL	181	79	120	127	92	120	159	130	160	102	129	166	188	120	139	140	1	1	16	2169	100.0	
PCT	8.3	3.6	5.5	5.9	4.2	5.5	7.3	6.0	7.4	4.7	5.9	7.7	8.7	5.5	6.4	6.5	*	*	.7	100.0		

MARCH

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	4	1	4	3	3	5	9	11	0	8	4	7	3	5	1	2	4	0	2	73	2.8
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	3	5	2	10	4	5	7	11	1	11	1	1	4	4	2	4	1	0	0	70	2.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	8	1	5	3	3	3	10	14	6	11	6	11	9	9	3	4	7	0	0	110	4.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	31	9	16	11	12	19	29	31	19	27	19	12	19	11	11	21	19	0	2	311	12.0
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	62	30	45	38	42	42	67	69	45	64	45	87	82	82	62	68	0	0	9	896	34.4
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	106	46	78	73	72	72	66	53	48	74	48	75	124	80	72	65	1	12	1142	43.9	
TOTAL	214	106	150	138	138	138	190	175	123	195	123	189	244	144	165	164	1	25	2602	100.0	
PCT	8.2	3.5	5.8	5.3	5.3	5.3	7.3	6.7	4.7	7.5	4.7	7.3	9.4	5.5	6.3	6.3	*	1.0	100.0		

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1901-1970

MARCH

AREA 0008 DUTCH WARDOR  
51-55N 165-1-2W

TABLE 10

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

HOUR (GMT)	060	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
00E03	5.9	.4	3.9	19.2	25.1	15.5	2.8	1.1	.4	.2	74.5	25.5	459
06E09	6.5	1.2	4.3	21.4	24.1	13.0	2.4	1.7	.2	.7	75.7	24.3	415
12E15	11.0	.2	3.3	18.4	25.1	13.1	.2	.5	.0	.5	72.3	27.7	419
18E21	7.2	.5	2.8	21.3	29.2	10.3	2.3	.0	.2	.5	74.3	25.7	428
TOT	131	10	62	345	445	224	34	14	4	8	1277	444	1721
PCT	7.6	.6	3.6	20.0	25.9	13.0	2.0	.8	.2	.5	74.2	25.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	3.9	1.3	2.4	10.3	27.3	54.8	458
06E09	2.9	1.2	3.9	14.0	27.6	50.4	413
12E15	3.4	1.7	3.6	14.0	31.4	45.9	414
18E21	4.2	1.9	5.0	10.8	33.0	45.0	424
TOT	62	26	63	209	509	840	1709
PCT	3.6	1.5	3.7	12.2	29.8	49.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00E03	6.1	11.6	35.2	40.6	24.2	458
06E09	6.5	12.6	40.4	36.8	22.8	413
12E15	11.1	14.5	39.6	33.8	26.6	414
18E21	7.1	11.1	38.9	36.6	24.5	424
TOT	131	212	657	633	419	1709
PCT	7.7	12.4	38.4	37.0	24.5	100.0

MARCH

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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				
50/54	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	4	.2
45/49	.0	.0	.1	.1	.2	.7	.6	.7	.7	.7	41	2.5
40/44	.0	.1	.0	.6	1.5	2.7	6.0	6.8	6.8	6.8	284	17.7
35/39	.0	.0	.2	1.0	3.3	8.1	19.1	22.4	22.4	22.4	871	54.1
30/34	.0	.0	.0	.4	1.1	2.2	6.9	8.4	8.4	8.4	305	19.0
25/29	.0	.0	.0	.0	.1	.7	1.9	2.6	2.6	2.6	90	5.6
20/24	.0	.0	.0	.0	.0	.2	.1	.5	.5	.5	14	.9
TOTAL	0	1	6	34	104	239	558	667	667	667	1609	100.0
PCT	.0	.1	.4	2.1	6.5	14.9	34.7	41.5	41.5	41.5		

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
50/54	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0
45/49	.2	.2	.2	.3	.6	.6	.3	.1	.1	.0	.0	.1
40/44	.6	1.2	1.9	2.0	3.5	3.7	3.0	1.4	1.4	.0	.0	.4
35/39	3.0	4.8	6.2	9.1	7.9	9.5	4.3	4.7	3.7	.0	.0	.5
30/34	3.9	3.1	1.8	1.1	.3	1.8	3.2	3.7	3.7	.0	.0	.1
25/29	1.6	1.0	.2	.1	.1	.2	.6	1.9	1.9	.0	.0	.0
20/24	.3	.3	.1	.1	.0	.0	.0	.1	.1	.0	.0	.0
TOTAL	154	173	166	207	200	254	248	190	190	0	0	17
PCT	9.6	10.8	10.3	12.9	12.4	15.8	15.4	11.8	11.8	.0	.0	1.1

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	50	47	44	38	28	23	18	37.2	707		
06009	50	45	43	37	26	23	18	36.2	653		
12015	45	43	41	36	27	21	19	35.3	604		
18021	51	45	42	36	27	23	20	35.6	658		
TOT	51	45	43	37	27	23	18	36.1	2622		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
00003	.0	3.4	8.1	19.2	35.0	34.3	83				
06009	.0	2.4	5.6	13.2	31.5	47.2	86				
12015	.0	1.2	5.8	13.8	36.9	42.4	86				
18021	.0	2.9	6.0	13.0	35.3	42.8	86				
TOT	0	41	104	241	555	670	85				

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1901-1970

MARCH

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 17

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

AIR-SEA TMP DIF	17	21	25	29	33	37	41	45	49	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.2	.2	.1	7	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.5	.4	.1	17	.1	.8
6	.0	.0	.0	.0	.0	.1	.5	.2	.0	13	.0	.7
5	.0	.0	.0	.0	.1	.6	1.2	.7	.0	48	.5	2.0
4	.0	.0	.0	.0	.1	2.2	.0	.0	.0	67	.3	3.1
3	.0	.0	.0	.0	.1	1.1	2.2	.0	.0	72	.2	3.5
2	.0	.0	.0	.0	.3	4.5	1.7	.1	.0	129	.5	6.1
1	.0	.0	.0	.0	.4	6.6	.7	.0	.0	151	.4	7.3
0	.0	.0	.0	.0	2.6	8.9	1.1	.2	.0	252	1.0	11.8
-1	.0	.0	.0	.1	4.6	5.5	.2	.1	.0	204	.5	9.9
-2	.0	.0	.0	.3	6.0	4.9	.4	.0	.0	228	.5	11.1
-3	.0	.0	.0	.6	5.4	1.6	.1	.0	.0	150	.3	7.4
-4	.0	.0	.2	1.2	5.0	1.4	.1	.0	.0	154	.1	7.8
-5	.0	.0	.3	2.0	3.2	.8	.0	.0	.0	123	.3	5.9
-6	.0	.0	.1	2.5	1.2	.3	.0	.0	.0	80	.2	3.9
-7/-8	.0	.0	1.4	3.1	1.4	.6	.0	.0	.0	128	.1	6.4
-9/-10	.0	.0	1.8	.9	.6	.2	.0	.0	.0	69	.1	3.4
-11/-13	.1	.4	1.1	.5	.4	.1	.0	.0	.0	46	.1	2.3
-14/-16	.1	.6	.3	.0	.1	.0	.0	.0	.0	21	.0	1.1
-17/-19	.2	.1	.0	.1	.0	.0	.0	.0	.0	6	.0	.3
-20/-22	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	6	22	101	219	616	769	201	33	3	1970	93	1877
PCT	.3	1.1	5.1	11.1	31.3	39.0	10.2	1.7	.2	100.0	4.7	95.3

PERIOD: (PRIMARY) MARCH AREA 0008 DUTCH HARBOR  
(OVER-ALL) 1963-1970 51-55N 165-172W

TABLE 18

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

HGT	N										TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+	TOTAL
<1	.2	.7	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	4
1-2	.3	1.4	2.1	.0	.0	.0	.0	1.5	1.6	.0	.0	.0	.0	36
3-4	.1	1.2	1.5	.6	.0	.0	.0	.7	1.3	.3	.0	.0	.0	28
5-6	.0	.3	1.0	.3	.0	.0	.0	.2	.8	.1	.0	.0	.0	14
7	.0	.1	.6	1.0	.1	.0	.0	.1	.2	.8	.0	.0	.0	13
8-9	.0	.0	.3	.6	.1	.0	.0	.0	.3	.9	.2	.0	.0	15
10-11	.0	.0	.1	.3	.0	.0	.0	.0	.1	.2	.3	.0	.0	5
12	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
13-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.2	.0	.0	3
17-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.43	.66	.37	.5	.0	.0	.32	.49	.28	.11	.0	.0	122
TOTAL	.7	3.7	5.7	3.2	.4	.0	.0	2.8	4.2	2.4	1.0	.0	.0	10.6
PCT	.6							.2						

HGT	E										TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+	TOTAL
<1	.3	1.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	7
1-2	.2	.5	1.4	.0	.0	.0	.0	.3	1.6	.0	.0	.0	.0	31
3-4	.0	.4	.3	.1	.0	.0	.0	.0	1.2	.5	.0	.0	.0	33
5-6	.0	.1	1.7	.3	.0	.0	.0	.0	1.5	.1	.0	.0	.0	32
7	.0	.1	.2	.5	.1	.0	.0	.0	1.3	.8	.0	.0	.0	30
8-9	.0	.0	.3	.8	.1	.0	.0	.0	.3	.9	.1	.0	.0	14
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.1	.6	.5	.0	.0	14
12	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2	.0	.0	.0	4
13-16	.0	.0	.0	.0	.6	.0	.0	.0	.1	.0	.0	.0	.0	1
17-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.24	.49	.29	.12	.0	.0	.42	.72	.41	.8	.0	.0	167
TOTAL	.6	2.1	4.2	2.5	1.0	.1	.1	3.6	6.2	3.5	.7	.0	.0	14.4
PCT	.5							.3						

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

HGT	S										TOTAL		SW										TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL			
<1	.1	.2	.0	.0	.0	.0	3	.0	.4	.0	.0	.0	.0	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	1.0	.0	.0	.0	27	.0	1.0	.9	.0	.0	.0	21	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	1.0	.4	.0	.0	21	.0	.3	.3	.2	.0	.0	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.3	1.6	.5	.0	.0	28	.0	.4	1.5	.5	.0	.0	28	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.3	.9	1.7	.0	.0	33	.0	.4	1.3	1.3	.0	.0	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.3	.3	.1	.0	7	.0	.0	.6	.7	.2	.0	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.3	.8	.2	.0	14	.0	.0	.0	1.0	.2	.0	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.2	.0	.0	2	.0	.1	.1	.3	.1	.0	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.2	.0	6	.0	.0	.1	.9	.4	.0	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	1	.0	.0	.1	.1	.0	.0	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.1	.0	.0	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1	.0	.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	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.4	.0	6	.0	.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	.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	.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	
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	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	1	30	57	49	5	0	142	.0	27	55	59	17	0	139	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCT	.1	2.6	4.9	4.2	.4	.0	12.3	.0	2.3	4.8	5.1	1.5	.0	13.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	

HGT	W										TOTAL		NW										TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL			
<1	.0	1.0	.0	.0	.0	.0	11	.1	.5	.0	.0	.0	.0	7	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.1	1.6	.7	.0	.0	.0	27	.1	1.6	1.3	.0	.0	.0	35	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.9	1.4	.4	.0	.0	31	.1	1.1	1.2	.3	.0	.0	31	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.1	.4	1.2	.3	.0	.0	23	.0	.3	1.4	.4	.0	.0	24	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.1	.8	.3	.1	.0	15	.0	.1	.4	.3	.1	.0	16	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.8	.6	.0	.0	16	.0	.1	.3	.7	.4	.0	18	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.1	.3	.2	.2	.1	10	.0	.1	.3	.3	.3	.0	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.1	.0	.2	.1	.1	5	.0	.0	.0	.2	.1	.0	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.1	.0	4	.0	.0	.0	.2	.3	.0	5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	2	.0	.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	
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	
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	
41-48	.0	.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	.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	
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	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	2	46	59	29	6	2	144	.3	44	58	26	13	0	144	.0	.0	.0	.0	.0	.0	.0	.0	.0	
PCT	.2	4.0	5.1	2.5	.5	.2	12.5	.3	3.8	5.0	2.2	1.1	.0	12.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	

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

MARCH

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL DBS
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+	
<1	1.4	4.5	.0	.0	.0	.0	.0	.0	.0	.0	69
1-2	1.0	9.6	10.5	.0	.0	.0	.0	.0	.0	.0	246
3-4	.3	6.2	8.1	2.8	.0	.0	.0	.0	.0	.0	204
5-6	.2	2.7	10.5	3.5	.2	.0	.0	.0	.0	.0	200
7	.1	1.3	5.6	6.3	.3	.1	.0	.0	.0	.0	160
8-9	.0	.1	3.1	5.3	1.1	.0	.0	.0	.0	.0	112
10-11	.0	.1	1.5	3.9	1.5	.1	.0	.0	.0	.0	81
12	.0	.2	.3	1.5	1.7	.1	.0	.0	.0	.0	33
13-16	.0	.0	.3	1.6	1.9	.0	.0	.0	.0	.0	44
17-19	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	6
20-22	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	2
23-25	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	2
26-32	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	7
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
TOTAL	35	288	465	298	77	3	1166				
PCT	3.0	24.7	39.9	25.6	6.6	.3	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)																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	.2	7.0	7.8	4.7	2.2	2.0	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	322	4
6-7	.0	1.1	6.4	10.8	6.6	3.3	2.4	1.3	1.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	428	6
8-9	.0	.4	2.4	3.3	5.4	4.6	2.6	1.1	1.8	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	275	7
10-11	.0	.3	.9	.7	1.0	2.6	1.6	1.1	.9	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	122	8
12-13	.0	.0	.0	.1	.2	.2	.6	.2	.6	.0	.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	32	14
>13	.0	.0	.0	.0	.6	.0	.1	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	11
INDET	5.3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	0
TOTAL	70	111	221	249	201	161	103	56	67	9	4	5	7	0	0	0	0	0	0	0	0	1264	0
PCT	5.5	8.8	17.5	19.7	15.9	12.7	8.1	4.4	5.3	.7	.3	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6

APRIL

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME		TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
		SHWR	SHWR	SHWR		FRZG PCPN	SNOW	OTHER FRZN PCPN		PCPN	PCPN			PCPN	FOG	SMOKE	DUST	BLWG	
N	.1	.0	.0	.0	.2	.0	.7	.0	.0	.0	1.0	24	.0	.1	.0	.0	.0	4.9	139
NNE	*	.1	.1	.1	.1	.0	.2	.0	.0	.0	.4	9	.0	.0	.0	.0	.0	2.4	64
NE	.2	.1	.1	.1	.2	.0	.3	.0	.0	.0	.7	17	.0	.1	.0	.0	.0	2.3	71
ENE	.1	.0	.0	.0	.3	.0	.2	.0	.0	.0	.6	14	.0	*	.0	*	1.6	52	
E	.5	.1	.1	.1	.3	*	.4	.0	.0	.0	1.2	27	.0	.2	.0	.0	2.4	88	
ESE	.5	*	*	*	.2	.0	.1	.0	.0	.0	.8	19	.0	.2	.0	.0	2.3	78	
SE	1.0	.0	.0	.0	1.0	.0	.3	.0	*	.0	2.3	53	.0	.4	.0	.0	3.0	131	
SSE	1.1	*	*	*	.6	.0	.3	.0	.0	.0	1.9	43	.0	.7	.0	.0	4.3	152	
S	1.0	.0	.0	.0	.7	.0	.2	.0	*	.0	1.9	43	.0	.4	.0	.0	5.4	186	
SSW	.7	.2	.2	.2	.5	.0	.1	.0	.0	.0	1.4	32	.0	.3	.0	.0	3.8	129	
SW	.7	.3	.3	.3	.5	.0	.1	.0	*	.0	1.6	38	.0	.1	*	.0	6.6	192	
WSW	.6	.2	.2	.2	.5	.0	.5	.0	.1	.0	2.0	45	.0	.2	.1	.0	7.4	223	
W	.5	.2	.2	.2	.4	.0	.7	.0	.0	.0	2.0	45	.0	.1	.0	.0	11.2	309	
WNW	.3	*	*	*	.3	.0	.9	*	.0	.0	1.5	34	.0	*	.0	.0	5.2	154	
NW	.2	.1	.1	.1	.2	.0	1.1	.0	.1	.0	1.6	37	.0	.1	.0	.0	5.9	175	
NNW	*	.1	.1	.1	.1	.0	.9	.0	.0	.0	1.0	24	.0	.1	.1	.0	4.8	139	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	.0	.0	.0	.0	0	0
CALM	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	1	.0	.0	.0	.0	.0	.0	23
TOT OBS	174	33	140	140	140	1	166	1	13	13	*	505	0	72	13	2	1713	2305	
TOT PCT	7.5	1.4	6.1	6.1	6.1	*	7.2	*	.6	.6	21.9	505	.0	3.1	.6	.1	74.3	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME		TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
		SHWR	SHWR	SHWR		FRZG PCPN	SNOW	OTHER FRZN PCPN		PCPN	PCPN			PCPN	FOG	SMOKE	DUST	BLWG	
00003	5.5	1.9	5.2	5.2	5.2	.0	6.8	.0	.6	.6	19.5	120	.0	4.2	.6	.0	75.6	616	
06009	7.8	1.2	6.6	6.6	6.6	.2	6.1	.0	.5	.5	20.7	122	.0	3.7	.8	.0	74.7	589	
12015	10.9	1.2	5.4	5.4	5.4	.0	6.8	.0	.5	.5	24.2	138	.0	2.5	.4	.0	73.0	571	
18021	6.5	1.3	6.8	6.8	6.8	.0	8.8	.2	.5	.5	23.2	129	.0	2.5	.4	.4	73.5	555	
TOT	178	33	140	140	140	1	166	1	13	13	*	509	0	76	13	2	1731	2331	
PCT	7.6	1.4	6.0	6.0	6.0	*	7.1	*	.6	.6	21.6	509	.0	3.3	.6	.1	74.3	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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	.5	2.1	2.7	.8	.2	.0	173	6.2	14.4	5.9	6.1	7.7	3.5	6.8	2.9	6.1	5.9
NNE	.1	.8	1.2	.5	.3	.0	79	2.8	17.8	3.3	2.6	3.5	5.3	2.0	.7	2.5	2.0
NE	.3	.9	1.4	.6	.1	.0	93	3.4	14.9	5.1	.9	4.4	2.6	1.8	3.7	2.4	3.0
ENE	.1	.8	.9	.5	.0	*	67	2.4	15.4	2.8	2.6	1.9	1.8	2.4	2.2	2.4	4.0
E	.2	1.3	1.4	.9	.2	.0	110	4.0	16.3	3.8	3.5	4.9	1.8	3.4	5.1	3.5	5.9
ESE	.1	.5	1.3	1.0	.3	.0	90	3.2	20.4	2.2	1.8	3.7	4.4	3.8	2.2	3.9	2.0
SE	.4	1.2	2.2	1.4	.5	.0	158	5.7	18.3	6.5	2.6	4.6	7.9	7.0	5.1	4.6	8.9
SSE	.1	.9	2.3	2.5	.3	.1	173	6.2	21.1	7.4	7.0	5.5	7.9	5.0	8.8	6.2	8.9
S	.4	1.8	3.0	2.6	.3	.0	222	8.0	17.3	7.4	9.6	8.9	4.4	9.1	5.1	8.4	5.0
SSW	.1	1.2	2.2	1.7	.3	.0	154	5.6	18.6	6.5	4.4	4.4	2.6	4.6	5.9	6.9	6.9
SW	.2	1.5	3.5	2.8	.4	.0	232	8.4	19.0	7.0	13.2	7.7	10.5	9.1	9.6	7.8	11.9
WSW	.1	1.4	4.2	2.9	.8	.1	268	9.7	20.2	10.4	8.8	8.3	13.2	9.5	11.0	9.4	9.9
W	.4	2.6	6.1	3.5	.5	.1	363	13.1	18.3	11.6	10.5	12.3	10.5	15.1	16.9	13.7	14.9
WNW	.0	.9	2.8	2.0	.4	*	170	6.1	20.4	6.0	12.3	5.6	7.9	6.6	5.1	5.4	4.0
NW	.2	1.5	3.1	2.1	.4	.0	204	7.4	18.3	7.1	7.0	8.3	4.4	6.4	7.4	8.6	4.0
NNW	.4	1.7	2.8	1.0	.2	.0	171	6.2	15.5	6.0	7.0	6.1	10.5	6.2	8.1	5.4	3.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	586	1140	746	142	11	47	1.7	.0	1.9	.0	2.0	.9	1.0	.0	2.9	.0
TOT OBS	149	586	1140	746	142	11	2774	100.0	17.6	632	114	587	114	497	136	593	101
TOT PCT	5.4	21.1	41.1	26.9	5.1	.4	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	1.5	3.9	2.6	1.1	.0	252	9.1	15.5	9.2	8.8	11.2	8.8	8.9	3.7	8.6	7.9
NE	1.1	2.1	2.0	.5	*	160	5.8	15.1	7.9	3.5	6.3	4.4	4.2	5.9	4.7	6.9
E	.8	2.6	2.3	1.3	.1	200	7.2	18.1	6.0	5.3	8.7	6.1	7.2	7.4	7.4	7.9
SE	1.3	3.0	4.7	2.6	.3	331	11.9	19.8	13.0	9.6	10.1	15.8	12.1	14.0	10.8	17.8
S	1.9	4.2	5.5	1.8	.1	376	13.6	17.8	13.9	14.0	13.3	7.0	13.7	11.0	15.3	11.9
SW	1.2	5.9	7.8	2.7	.4	500	18.0	19.6	17.4	21.9	16.0	23.7	18.5	20.6	17.2	21.8
W	1.3	6.8	8.0	2.7	.3	533	19.2	18.9	17.6	22.8	17.9	18.4	21.7	19.1	19.1	18.8
NW	1.5	5.1	5.1	1.7	*	375	13.5	17.0	13.1	14.0	14.5	14.9	12.7	15.4	14.0	6.9
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	935	1054	403	38	47	1.7	.0	1.9	.0	2.0	.9	1.0	.0	2.9	.0
TOT OBS	344	935	1054	403	38	2774	100.0	17.8	632	114	587	114	497	136	593	101
TOT PCT	12.4	33.7	38.0	14.5	1.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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+	MEAN	
0003	3.6	24.4	37.5	26.8	5.4	.7	17.7	746
0609	4.1	20.0	41.8	26.7	5.3	.3	17.7	701
1215	1.9	20.2	45.3	26.5	4.9	.3	18.5	633
1821	4.9	19.6	40.3	27.5	4.9	.3	17.6	694
TOT	102	586	1140	746	142	11	17.8	2774
PCT	3.7	21.1	41.1	26.9	5.1	.4	17.8	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER	
	0-2	3-4	5-7	8 &	OBSCD	8 &	9-10	11-12			
N	1.0	.8	2.4	2.0	2.0	2.0	2.0	2.0	2.0	120	5.6
NNE	.4	.2	.7	1.4	1.4	1.4	1.4	1.4	1.4	51	6.3
NE	.3	.4	.8	1.0	1.0	1.0	1.0	1.0	1.0	49	6.1
ENE	.4	.2	.4	1.2	1.2	1.2	1.2	1.2	1.2	42	6.1
E	.1	.2	.6	2.4	2.4	2.4	2.4	2.4	2.4	63	7.4
ESE	.2	.1	.6	2.9	2.9	2.9	2.9	2.9	2.9	74	7.3
SE	.2	.2	.9	4.3	4.3	4.3	4.3	4.3	4.3	107	7.4
SSE	.2	.3	1.1	5.3	5.3	5.3	5.3	5.3	5.3	132	7.4
S	.3	.4	1.8	6.3	6.3	6.3	6.3	6.3	6.3	168	7.3
SSW	.3	.3	1.9	3.5	3.5	3.5	3.5	3.5	3.5	114	6.9
SW	.4	1.1	2.3	4.4	4.4	4.4	4.4	4.4	4.4	158	6.5
WSW	.5	2.0	3.0	3.8	3.8	3.8	3.8	3.8	3.8	178	6.1
W	1.1	1.9	5.9	5.0	5.0	5.0	5.0	5.0	5.0	269	6.2
WNW	.5	.5	3.3	2.7	2.7	2.7	2.7	2.7	2.7	134	6.3
NW	.6	1.1	2.7	3.1	3.1	3.1	3.1	3.1	3.1	144	6.2
NNW	.5	.5	2.0	2.7	2.7	2.7	2.7	2.7	2.7	110	6.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	.1	.2	.4	.4	.4	.4	.4	.4	.4	21	5.6
TOT OBS	128	197	595	1014	1014	1014	1014	1014	1014	1934	6.6
TOT PCT	6.6	10.2	30.8	52.4	52.4	52.4	52.4	52.4	52.4	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	NH <5/8 ANY HGT	TOTAL OBS					
	000	149	150	299	300	599	600	999	1000	1999				2000	3499	4999	5000	6499
N	.3	.0	.0	.0	.1	1.0	1.0	2.0	2.0	2.0	.3	.3	.0	.0	.1	.0	2.2	120
NNE	.0	.0	.0	.0	.0	.5	1.2	1.2	1.2	.3	.3	.0	.0	.0	.0	.0	.6	51
NE	.1	.1	.1	.1	.3	.8	.8	.8	.8	.2	.2	.1	.1	.1	.0	.0	.9	49
ENE	.2	.1	.1	.1	.4	.6	.6	.6	.6	.1	.1	.1	.1	.0	.0	.0	.7	42
E	.2	.0	.0	.0	1.0	.9	.9	.9	.9	.4	.4	.1	.1	.0	.0	.0	.5	63
ESE	.2	.1	.1	.1	.4	.7	.7	.7	.7	.4	.4	.2	.2	.0	.0	.0	.4	74
SE	1.0	.1	.1	.1	.3	1.6	1.6	1.6	1.6	.4	.4	.1	.1	.0	.0	.0	.7	107
SSE	.9	.1	.1	.1	.7	1.8	1.8	1.8	1.8	.6	.6	.3	.3	.0	.0	.1	1.0	132
S	.9	.1	.1	.1	.7	2.3	2.3	2.3	2.3	.8	.8	.4	.4	.0	.0	.0	1.2	168
SSW	.5	.1	.1	.1	.2	1.0	1.7	1.7	1.7	1.1	1.1	.2	.2	.0	.0	.0	1.1	114
SW	.2	.1	.1	.1	.2	1.5	2.2	2.2	2.2	1.6	1.6	.2	.2	.1	.0	.0	2.2	158
WSW	.4	.1	.1	.1	.4	1.1	2.4	2.4	2.4	1.6	1.6	.1	.1	.0	.0	.0	3.2	178
W	.4	.1	.1	.1	.1	2.7	4.2	4.2	4.2	1.6	1.6	.3	.3	.2	.1	.1	4.3	269
WNW	.2	.1	.1	.1	.2	1.6	2.2	2.2	2.2	.7	.7	.3	.3	.0	.0	.0	1.8	134
NW	.1	.1	.1	.1	.3	1.4	2.4	2.4	2.4	.6	.6	.3	.3	.0	.0	.0	2.2	144
NNW	.2	.0	.0	.0	.2	.9	2.5	2.5	2.5	.5	.5	.2	.2	.0	.0	.0	1.3	110
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.1	.1	.1	.1	.1	.2	.2	.2	.2	.2	.1	.1	.0	.0	.0	.5	21
TOT OBS	111	17	74	389	576	216	576	216	576	216	576	216	576	8	5	2	479	1934
TOT PCT	5.7	.9	3.8	20.1	29.8	11.2	29.8	11.2	29.8	11.2	29.8	11.2	29.8	.4	.3	.1	24.8	100.0

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

APRIL

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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	.3	.3	.4	.4	.4	.4	.4	.4
OK >5000	.6	.7	.8	.8	.8	.8	.8	.8
OR >3500	2.3	3.3	3.7	3.7	3.8	3.8	3.8	3.8
OR >2000	8.9	13.4	14.6	14.9	14.9	14.9	14.9	14.9
OR >1000	22.8	38.1	43.1	44.3	44.6	44.6	44.6	44.6
OR >600	27.9	50.5	60.7	63.7	64.4	64.6	64.6	64.6
OR >300	28.5	52.0	63.4	67.2	68.1	68.4	68.4	68.4
OR >150	28.7	52.3	64.0	68.0	68.9	69.3	69.3	69.3
OR > 0	28.7	53.1	65.9	71.2	72.8	74.6	75.1	75.1
TOTAL	559	1032	1281	1384	1415	1450	1460	1460

TOTAL NUMBER OF OBS: 1945

PCT FREQ NH <5/8: 24.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	2.6	1.5	6.2	7.5	6.7	7.5	13.7	12.8	36.2	5.3
										2042

APRIL

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						*
<1/2	PCP	.2	.0	*	*	*	.2	.1	.1	*	*	.0	.0	*	.1	.0	.0	.0	.0	.0	19	.8
	NO PCP	*	.0	.0	.0	.1	.3	.3	.1	.4	.2	.1	.2	.1	.0	*	.0	.0	.0	*	38	1.7
	TOTAL	5	0	1	1	3	2	11	5	10	5	2	4	4	2	1	0	0	0	1	57	2.5
1/2<1	PCP	.2	*	.1	*	.3	.2	.1	.2	.0	.2	.0	.1	.1	.1	*	.0	.0	.0	.0	38	1.7
	NO PCP	.0	*	*	*	.2	*	*	.0	.1	.1	.1	.1	.0	.0	.0	*	.0	.0	.0	22	1.0
	TOTAL	5	2	3	2	10	5	3	4	3	8	3	5	2	3	1	1	0	0	0	60	2.6
1<2	PCP	.1	.1	.1	.1	.1	.3	.5	.6	.3	.1	.3	.2	.3	.4	.3	.1	.0	.0	*	90	3.9
	NO PCP	*	.0	.0	*	.1	.1	.1	.3	.1	.2	.3	.3	.1	.1	.0	.2	.0	.0	.0	46	2.0
	TOTAL	4	3	3	4	5	9	14	19	19	8	12	10	10	11	6	8	0	0	1	136	5.9
2<5	PCP	.1	.1	.2	.3	.2	.2	1.0	.7	.7	.3	.4	.6	.3	.3	.4	.3	.0	.0	.0	146	6.3
	NO PCP	.2	.1	.2	.0	.2	.5	.7	.9	1.0	.5	.4	.4	1.3	.6	.5	.3	.0	.0	*	178	7.7
	TOTAL	7	4	8	7	13	37	38	37	37	19	19	23	37	22	21	12	0	0	1	324	14.1
5<10	PCP	.3	.1	.2	*	.3	.1	.5	.3	.7	.6	.8	.8	.8	.3	.6	.5	.0	.0	.0	163	7.1
	NO PCP	1.3	1.0	.7	.5	.9	.8	.9	1.2	2.1	1.2	2.5	2.7	4.2	1.8	1.7	1.5	.0	.0	.1	577	25.1
	TOTAL	39	24	21	12	28	35	32	32	35	41	76	82	114	49	52	46	0	0	2	740	32.1
10+	PCP	*	*	.1	*	.1	.0	*	*	.1	.1	.2	.3	.3	.2	.3	.2	.0	.0	.0	47	2.0
	NO PCP	3.4	1.3	1.4	1.1	1.1	1.0	1.4	2.2	2.5	2.0	3.3	4.0	5.8	2.7	3.7	3.0	.0	.0	.8	939	40.8
	TOTAL	79	31	35	26	28	52	33	33	59	49	80	100	142	67	92	72	0	0	18	986	42.8
TOTAL	139	64	71	52	87	152	131	131	152	185	130	224	309	309	154	173	139	0	0	23	2303	100.0
PCT	6.0	2.8	3.1	2.3	3.8	6.6	5.7	5.7	6.6	8.0	5.6	9.7	13.4	13.4	6.7	7.5	6.0	.0	.0	1.0	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

AREA 00C8 DUTCH HARBDR  
51-55N 165-172W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	*
	4-10	.1	.0	.0	.0	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.4
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	22	.8
	22+	.1	.0	.0	.0	.0	.0	.2	.1	.1	.1	.0	.2	.1	.0	.0	.0	.0	.0	25	.9
	TOTAL	5	0	0	1	3	2	11	6	10	5	2	5	4	2	1	1	0	1	60	2.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	11	.4
	11-21	.1	.1	.0	.0	.0	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	28	1.0
	22+	.1	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	34	1.2
	TOTAL	7	6	3	3	11	5	3	4	4	8	4	5	2	3	1	4	0	0	73	2.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
	4-10	.1	.0	.0	.0	.0	.0	.1	*	.1	.1	.1	.1	.1	.1	.0	.1	.0	.0	29	1.1
	11-21	.1	.0	.0	.0	.0	.0	.3	.3	.1	.1	.1	.1	.1	.1	.1	.3	.0	.0	57	2.1
	22+	.0	.1	.0	.0	.0	.0	.2	.4	.3	.1	.2	.3	.1	.2	.1	.1	.0	.0	69	2.5
	TOTAL	7	4	6	5	15	10	15	20	11	9	12	12	10	11	6	14	0	1	158	5.8
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.4
	4-10	.1	.0	.0	.0	.0	.0	.2	.1	.1	.1	.1	.1	.1	.1	.2	.1	.0	.0	45	1.6
	11-21	.3	.1	.0	.0	.1	.2	.5	.5	.5	.2	.3	.5	.6	.3	.4	.3	.0	.0	142	5.2
	22+	.0	.1	.0	.0	.1	.4	.7	.9	.8	.4	.4	.4	.6	.5	.3	.1	.0	.0	164	6.0
	TOTAL	10	8	11	8	15	19	39	41	21	21	27	27	37	22	23	15	0	4	362	13.2
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	1.1
	4-10	.5	.2	.3	.1	.4	.1	.2	.1	.4	.2	.1	.2	.6	.1	.4	.4	.0	.0	123	4.5
	11-21	.9	.4	.4	.3	.4	.3	.7	.5	.9	.7	1.4	1.7	1.9	1.0	.9	.9	.0	.0	361	13.2
	22+	.3	.4	.3	.2	.4	.4	.5	.8	1.2	.8	1.6	1.6	1.9	.8	.9	.3	.0	.0	337	12.3
	TOTAL	46	27	29	16	36	25	39	40	70	47	87	100	122	54	60	46	0	6	850	31.0
10+	0-3	.4	.0	.1	.1	.0	.0	.2	*	.2	*	.2	.1	.3	.0	.1	.3	.0	1.0	84	3.1
	4-10	1.3	.4	.6	.5	.7	.3	.6	.6	1.1	.8	1.2	1.0	1.7	.6	.8	1.0	.0	.0	363	13.2
	11-21	1.3	.5	.7	.5	.5	.6	.7	.9	1.3	1.0	1.6	1.8	3.4	1.4	1.8	1.2	.0	.0	525	19.1
	22+	.5	.3	.2	.1	.1	.2	.3	.7	.4	.5	.9	1.5	1.4	.9	1.2	.7	.0	.0	268	9.8
	TOTAL	96	34	42	32	39	29	47	61	82	63	106	119	187	78	110	88	0	27	1240	45.2
	TOTAL	171	79	92	65	109	90	154	172	218	153	232	268	362	170	201	168	0	39	2743	100.0
	PCT	6.2	2.9	3.4	2.4	4.0	3.3	5.6	6.3	7.9	5.6	8.5	9.8	13.2	6.2	7.3	6.1	.0	1.4	100.0	

APRIL

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
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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
	149	299	599	999	1999	3499	4999	6499	7999				DBS
00003	4.1	1.0	4.5	18.7	27.6	11.8	3.2	.2	.2	.0	71.4	28.6	507
06009	5.1	1.0	4.1	18.9	31.1	11.9	3.1	.4	.6	.2	76.4	23.6	488
12015	9.3	.2	2.8	21.3	27.6	10.4	2.8	.2	.0	.2	75.0	25.0	460
18021	4.7	1.2	3.5	20.5	31.5	10.2	2.8	.8	.2	.0	75.4	24.6	508
TOT	113	17	74	389	579	218	58	8	5	2	1463	500	1963
PCT	5.8	.9	3.8	19.8	29.5	11.1	3.0	.4	.3	.1	74.5	25.5	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
							DBS
00003	2.8	2.4	4.8	13.9	23.1	53.0	502
06009	2.7	1.6	6.0	9.7	28.5	51.5	485
12015	2.9	.4	5.7	15.1	33.6	42.3	456
18021	1.2	2.4	5.4	15.1	28.1	47.8	502
TOT	46	24	106	262	548	949	1945
PCT	2.4	1.7	5.4	13.5	28.2	48.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL
						DBS
00003	4.2	11.4	36.9	56.9	26.3	502
06009	5.2	11.3	36.3	41.4	22.3	485
12015	10.1	13.8	41.2	35.3	23.5	456
18021	4.8	10.8	37.8	38.6	23.5	502
TOT	116	229	739	741	465	1945
PCT	6.0	11.8	38.0	38.1	23.9	100.0

APRIL

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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			
50/54	.1	.0	.0	.0	.1	.2	.1	.0	.0	.0	7	.4
45/49	.0	.0	.2	.4	1.0	1.0	1.0	.5	.5	.5	58	3.1
40/44	.0	.0	.1	.3	2.4	5.2	7.4	10.5	10.5	10.5	488	25.9
35/39	.0	.0	.1	.8	3.9	9.2	17.2	22.2	22.2	22.2	1008	53.4
30/34	.0	.0	.0	.2	.8	2.1	4.7	5.7	5.7	5.7	255	13.5
25/29	.0	.0	.0	.0	.1	.6	.7	1.6	1.6	1.6	57	3.0
20/24	.0	.0	.0	.0	.0	.3	.3	.2	.2	.2	14	.7
TOTAL	1	0	2	28	146	349	595	766	766	766	1887	100.0
PCT	.1	.0	.1	1.5	7.7	18.5	31.5	40.6	40.6	40.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
N	NE	E	SE	S	SW	W	NW	VAR	VAR	CALM
.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1
.2	.4	.1	.3	.7	.8	.4	.2	.0	.0	.1
1.2	.8	1.5	5.5	6.3	5.3	3.7	1.2	.0	.0	.4
3.8	3.2	4.7	6.6	6.7	9.8	11.9	5.9	.0	.0	.8
3.0	1.1	1.0	.3	.5	.5	2.8	3.9	.0	.0	.3
.3	.3	.1	.1	.0	.2	.5	1.3	.0	.0	.3
.4	.0	.0	.0	.0	.1	.0	.3	.0	.0	.1
169	109	139	240	271	315	366	241	0	0	37
9.0	5.8	7.4	12.7	14.4	16.7	19.4	12.8	.0	.0	2.0

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		
00003	53	48	45	39	32	26	22	39.0	748	748	
06009	51	45	43	38	30	25	22	37.7	705	705	
12015	54	45	43	37	30	26	21	37.2	640	640	
18021	46	44	43	37	30	24	21	37.2	699	699	
TOT	54	46	43	38	31	25	21	37.8	2792	2792	

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	TOTAL			
00003	.0	2.3	11.1	23.4	29.4	33.8	83	530	530		
06009	.2	1.8	5.9	19.4	31.4	41.2	85	490	490		
12015	.0	.7	5.0	14.6	33.7	45.9	86	403	403		
18021	.0	1.3	8.0	15.0	32.3	43.5	86	474	474		
TOT	1	30	146	349	599	772	85	1897	1897		

PERIOD: (PRIMARY) 1945-1970  
(OVER-ALL) 1901-1970

APRIL

AREA 0008 DUTCH HARBOR  
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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	21	25	29	33	37	41	45	49	TOT	W	WD
	24	28	32	36	40	44	48	52	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
11/13	.0	.0	.0	.0	.0	.0	*	*	2	.0	.1
9/10	.0	.0	.0	.0	*	.1	.4	.1	13	.0	.6
7/8	.0	.0	.0	.0	.1	.6	.4	*	23	*	1.0
6	.0	.0	.0	.0	.1	.8	.3	*	26	.0	1.2
5	.0	.0	.0	.0	.4	2.0	1.0	.0	72	.4	3.0
4	.0	.0	.0	*	.8	2.2	.2	.0	69	.4	2.9
3	.0	.0	.0	.1	1.1	2.9	.1	.0	89	.2	4.0
2	.0	.0	*	.2	4.7	4.1	*	.0	191	.7	8.3
1	.0	.0	.0	.5	7.7	1.5	*	.0	206	.4	9.3
0	.0	.0	.1	1.3	11.3	1.7	*	.0	307	.7	13.8
-1	.0	.0	.0	2.2	9.0	.8	.0	.0	255	.2	11.8
-2	.0	*	.0	4.8	6.9	.4	.0	.0	258	.2	12.0
-3	.0	.0	.2	3.1	2.6	.2	.0	.0	129	.0	6.1
-4	.0	*	.2	3.3	1.9	.3	.0	.0	121	*	5.7
-5	.0	.1	1.0	2.5	1.1	.1	.0	.0	103	*	4.8
-6	.0	.0	.9	.8	.5	.0	.0	.0	45	*	2.1
-7/-8	.0	.3	1.3	1.6	.7	.0	.0	.0	84	.0	4.0
-9/-10	.0	.6	1.3	.7	.4	*	.0	.0	64	.0	3.0
-11/-13	.1	.9	.4	.3	.3	.0	.0	.0	44	.0	2.1
-14/-16	.5	*	.1	.1	.0	.0	.0	.0	16	.0	.8
-17/-19	.1	.0	*	*	.0	.0	.0	.0	4	.0	.2
TOTAL	15	44	120	456	1053	374	54	6	2122	70	2052
PCT	.7	2.1	5.7	21.5	49.6	17.6	2.5	.3	100.0	3.3	96.7

APRIL  
TABLE 18  
AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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

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

HGT	N					TOTAL	48+	NE					TOTAL
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47	
<1	.1	.5	.0	.0	.0	7	.0	.1	.0	.0	.0	.0	1
1-2	.0	1.3	.9	.0	.0	25	.0	.6	.0	.0	.0	.0	14
3-4	.0	1.0	.8	.2	.0	23	.0	.3	.4	.2	.0	.0	10
5-6	.0	.2	.6	.0	.1	10	.0	.1	.5	.0	.0	.0	7
7	.0	.0	.1	.6	.0	8	.1	.1	.0	.0	.0	.0	2
8-9	.0	.0	.3	.4	.1	9	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.2	.0	.0	2	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	1	35	32	15	15	85	0	13	18	3	0	0	35
PCT	.1	3.0	2.8	1.3	1.3	7.4	.0	1.1	1.6	.3	.0	.0	3.0

HGT	E					TOTAL	48+	SE					TOTAL
	1-3	4-10	11-21	22-33	34-47			1-3	4-10	11-21	22-33	34-47	
<1	.0	.3	.0	.0	.0	3	.0	.2	.0	.0	.0	.0	2
1-2	.0	.8	.7	.0	.0	17	.0	.3	.8	.0	.0	.0	12
3-4	.1	.4	.5	.3	.0	16	.0	.3	1.0	.3	.0	.0	18
5-6	.0	.3	.7	.3	.0	14	.0	.3	1.6	.8	.2	.0	33
7	.0	.0	.3	.1	.1	6	.0	.3	1.0	2.2	.2	.0	43
8-9	.0	.0	.4	.1	.0	6	.0	.2	.4	1.6	.3	.0	29
10-11	.0	.0	.0	.4	.2	7	.0	.0	.1	.7	.3	.0	12
12	.0	.0	.2	.3	.3	8	.0	.0	.3	.4	.1	.0	9
13-16	.0	.0	.0	.2	.2	4	.0	.0	.0	.1	.0	.0	5
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	1
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	1	20	33	19	8	81	0	18	60	74	12	0	164
PCT	.1	1.7	2.9	1.6	.7	7.0	.0	1.6	5.2	6.4	1.0	.0	14.2

PERIOD: (PRIMARY) 1963-1970 APRIL AREA 0008 DUTCH HARBOR  
(OVER-ALL) 1963-1970 TABLE 18 51-55N 165-172W

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.2	.7	.0	.0	.0	.0	10	.4	.3	.0	.0	.0	.0	9							
1-2	.0	1.3	.8	.0	.0	.0	24	.0	.5	1.6	.0	.0	.0	25							
3-4	.0	.8	1.4	.5	.0	.0	31	.0	1.0	1.0	.6	.0	.0	31							
5-6	.0	.3	1.4	1.0	.1	.0	31	.0	.5	3.0	.6	.0	.0	48							
7	.0	.1	1.2	1.4	.1	.0	32	.0	.3	1.1	2.4	.1	.0	46							
8-9	.0	.0	.9	1.0	.2	.0	24	.0	.1	.6	1.5	.5	.0	31							
10-11	.0	.0	.3	1.1	.3	.0	20	.0	.0	.5	1.4	.2	.0	24							
12	.0	.0	.0	.2	.0	.0	2	.0	.0	.1	.2	.0	.0	3							
13-16	.0	.0	.0	.4	.1	.0	6	.0	.0	.0	.0	.0	.0	3							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	2	36	69	65	8	0	180	5	33	93	81	9	0	221							
PCT	.2	3.1	6.0	5.6	.7	.0	15.5	.4	2.9	8.0	7.0	.8	.0	19.1							

HGT	W										NW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.2	.5	.0	.0	.0	.0	8	.2	.3	.0	.0	.0	.0	5							
1-2	.3	1.1	1.5	.0	.0	.0	33	.0	.9	1.0	.0	.0	.0	21							
3-4	.1	.9	2.1	.2	.0	.0	37	.2	1.1	1.3	.2	.0	.0	32							
5-6	.0	.6	3.9	1.3	.1	.0	68	.0	.0	1.5	.3	.1	.0	21							
7	.0	.1	2.1	1.3	.0	.0	40	.0	.0	1.2	.6	.1	.0	10							
8-9	.0	.0	1.6	2.1	.2	.0	44	.0	.1	.3	.8	.1	.0	15							
10-11	.0	.1	.4	1.2	.4	.0	25	.0	.0	.3	.4	.0	.0	8							
12	.0	.0	.2	.2	.1	.1	6	.0	.0	.0	.1	.0	.0	1							
13-16	.0	.0	.0	.2	.1	.0	3	.0	.0	.0	.3	.0	.0	3							
17-19	.0	.0	.0	.3	.0	.0	3	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.2	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.1	.1	2	.0	.0	.0	.0	.1	.0	1							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	2							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	6	38	135	79	11	2	271	4	27	52	30	6	0	119							
PCT	.5	3.3	11.7	6.8	1.0	.2	23.4	.3	2.3	4.5	2.6	.5	.0	10.3							

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

APRIL

AREA 0008 DUTCH HARBOR  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	49-60	61-70	71-86	87+	
<1	2.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	56
1-2	.3	6.7	7.7	.0	.0	.0	.0	.0	.0	.0	171
3-4	.5	5.8	8.4	2.4	.0	.0	.0	.0	.0	.0	200
5-6	.0	2.1	13.1	4.1	.5	.0	.0	.0	.0	.0	232
7	.1	.9	5.9	8.6	.5	.0	.0	.0	.0	.0	187
8-9	.0	.3	4.4	7.4	1.4	.0	.0	.0	.0	.0	158
10-11	.0	.1	1.8	5.2	1.3	.0	.0	.0	.0	.0	98
12	.0	.0	.8	1.3	.4	.1	.0	.0	.0	.0	30
13-16	.0	.0	.0	1.8	.3	.0	.0	.0	.0	.0	25
17-19	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
23-25	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	3
26-32	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	2
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
TOTAL	33	220	492	366	56	2	1169				0
PCT	2.8	18.8	42.1	31.3	4.8	.2	100.0				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	3-4	5-6	7	8-9	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	4.6	7.1	5.2	3.4	1.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	297	4	
6-7	.0	.8	4.8	7.9	9.1	6.3	2.9	1.3	1.7	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	450	6
8-9	.0	.2	.9	3.0	7.0	5.5	4.6	1.4	3.0	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	335	8
10-11	.0	.0	.0	.3	1.3	1.4	.8	.4	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	10
12-13	.0	.0	.0	.1	.3	.5	.6	.2	.6	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	11
>13	.0	.0	.0	.0	.0	.2	.0	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	14
INDET	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	0
TOTAL	88	72	163	210	269	197	120	45	85	14	12	3	2	2	0	0	0	0	0	0	0	1280	6
PCT	6.9	5.6	12.7	16.4	21.0	15.4	9.4	3.5	6.6	1.1	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1899-1969

MAY

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG NO	SMOKE HAZE	DUST BLWG	NO SIG	WEA	
N	.2	.0	.3	.0	.4	.0	.0	1.0	23	.0	.1	.2	.0	.0	6.1	176
NNE	.3	.0	.5	.0	.1	.0	.0	.8	20	.0	.2	.0	.0	.0	2.4	82
NE	.8	.8	.8	.0	.2	.0	.0	1.6	39	.0	.6	.2	.0	.0	3.2	135
ENE	.8	.0	.5	.0	.1	.0	.0	1.3	32	.0	.3	*	.0	.0	2.5	100
E	1.0	.1	.3	.0	.1	.0	.0	1.4	33	.0	.6	*	*	3.0	123	
ESE	1.1	.1	.4	.0	*	.0	.0	1.6	38	.0	.6	*	.0	2.5	114	
SE	1.1	.0	.5	.0	.0	.0	.0	1.5	37	.0	.8	.0	.0	3.5	142	
SSE	1.2	*	.6	.0	.1	.0	*	1.9	46	.0	.6	*	.0	2.5	122	
S	.4	.1	.7	.0	.1	.0	.0	1.3	30	.0	.9	.1	.0	5.2	178	
SSW	.2	*	.5	.0	*	.0	.0	1.7	17	.0	.5	.0	.0	2.4	87	
SW	.3	.1	.8	.0	.1	.0	.0	1.4	33	.0	.8	*	.0	5.6	187	
WSW	.7	.1	.3	.0	.2	.0	*	1.2	28	.0	.4	.0	.0	5.1	161	
W	.5	.2	.4	.0	.3	.0	*	1.3	30	.0	.4	.0	*	8.6	246	
WNW	.2	*	.3	.0	.1	.0	.0	.6	14	.0	.3	.0	.0	5.3	148	
NW	.3	.2	.3	.0	.1	.0	.1	.9	21	.0	.4	.1	.0	6.4	185	
NNW	.3	.1	.3	.0	.2	.0	.1	.9	22	.0	.1	.1	.0	5.2	153	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	*	1	
CALM	.0	.0	.1	.0	*	.0	.0	.2	4	.0	.1	.1	.0	2.1	60	
TOT OBS	220	24	181	0	50	0	8	185	467	0	185	24	2	1722	2400	
TOT PCT	9.2	1.0	7.5	.0	2.1	.0	.3	19.5		.0	7.7	1.0	.1	71.8	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW PCPN	OTHER PCPN					FOG NO	SMOKE HAZE	DUST BLWG	NO SIG	WEA	
00E03	9.6	.5	7.4	.0	3.3	.0	.0	20.3	135	.0	7.1	1.2	.2	71.3	666	
06E09	8.6	1.3	7.3	.0	1.1	.0	.5	18.0	111	.0	8.8	1.5	.2	71.6	616	
12E15	9.0	1.6	6.1	.0	1.3	.0	.4	17.5	97	.0	5.6	.4	.0	76.5	553	
18E21	9.2	.8	9.3	.0	2.7	.0	.5	22.0	132	.0	8.8	.8	.0	68.3	599	
TOT	222	25	184	0	52	0	8	185	475	0	185	24	2	1748	2434	
PCT	9.1	1.0	7.6	.0	2.1	.0	.3	19.5		.0	7.6	1.0	.1	71.8	100.0	

MAY

PERIOD: (PRIMARY) 1942-1969  
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AREA 0008 DUTCH HARBOR  
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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	00	03	06	09	12	15	18	21
N	.4	2.5	3.0	1.0	.2	*	222	7.2	14.1	7.6	12.3	6.1	7.4	7.4	4.0	7.2	8.0
NNE	.2	1.3	1.4	.6	.1	.0	111	3.6	14.2	3.2	3.8	4.4	2.5	3.7	4.0	2.8	8.0
NE	.9	2.2	2.1	.5	.2	.0	183	5.9	11.9	6.4	8.5	6.3	6.2	4.3	5.9	6.2	2.7
ENE	.3	1.5	1.7	.5	.1	.0	126	4.1	13.9	4.1	8.5	3.8	3.7	3.9	3.0	3.8	5.3
E	.4	1.4	2.1	.6	.2	.0	148	4.8	14.3	7.3	4.6	5.7	.0	2.7	1.0	4.3	.0
ESE	.1	1.0	2.3	.8	.1	.0	134	4.4	16.0	3.9	6.2	3.5	9.9	4.8	6.9	4.2	2.7
SE	.5	1.9	2.0	1.2	.2	*	177	5.8	15.1	5.3	4.6	7.0	4.9	6.2	5.0	5.8	.0
SSE	.1	1.8	2.1	.8	*	.0	150	4.9	14.5	5.0	7.7	3.9	4.9	5.8	7.9	3.9	5.3
S	.8	2.6	3.1	1.0	.1	.0	235	7.6	13.3	9.1	6.2	7.6	4.9	6.8	8.9	6.6	12.0
SSW	.1	1.6	1.5	.5	.1	.0	117	3.8	14.3	3.3	3.8	4.2	6.2	3.9	2.0	3.6	5.3
SW	.9	2.7	3.0	1.0	.4	.0	248	8.1	14.1	7.7	3.8	8.2	4.9	8.3	7.9	9.4	6.7
WSW	.1	1.6	2.3	1.9	.3	*	194	6.3	18.1	7.1	3.1	4.4	9.9	7.5	7.9	6.0	9.3
W	.4	2.4	3.6	2.5	.6	.1	295	9.6	17.4	8.2	5.4	9.8	8.6	11.2	8.9	10.5	10.7
WNW	.3	2.0	2.5	1.3	.2	.0	192	6.2	15.3	5.4	5.4	6.7	7.4	6.4	8.9	5.9	9.3
NW	.6	2.3	3.8	1.7	.2	*	262	8.5	15.6	8.2	6.2	8.3	13.6	8.1	9.9	9.0	8.0
NNW	.3	1.7	2.8	1.3	.1	.1	192	6.2	16.0	5.7	10.0	6.9	3.7	5.8	7.9	6.2	4.0
VAR	*	.0	.0	.0	.0	.0	1	*	1.0	.0	.0	.0	.0	.2	.0	.0	.0
CALM	3.0	945	1213	530	91	10	91	3.0	.0	2.3	.0	3.1	1.2	3.1	.0	4.6	2.7
TOT OBS	289	30.7	39.4	17.2	3.0	.3	3078	100.0	14.5	777	130	684	81	517	101	713	75
TOT PCT	9.4	30.7	39.4	17.2	3.0	.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)															
	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	4.8	2.7	.8	*	333	10.8	14.1	10.8	16.2	10.5	9.9	11.0	7.9	10.0	16.0
NE	2.5	4.8	2.0	.6	.1	309	10.0	12.7	10.6	16.9	10.1	9.9	8.1	8.9	10.0	8.0
E	1.5	4.2	2.8	.7	.0	282	9.2	15.1	11.2	10.8	9.2	9.9	7.5	7.9	8.6	2.7
SE	2.1	4.5	3.1	.8	.1	327	10.6	14.8	10.3	12.3	11.0	9.9	12.0	12.9	9.7	5.3
S	2.6	5.3	2.5	1.0	.1	352	11.4	13.6	12.5	10.0	11.8	11.1	10.6	10.9	10.2	17.3
SW	2.9	5.5	4.2	1.7	.2	442	14.4	15.9	14.8	6.9	12.6	14.8	15.9	15.8	15.4	16.0
W	2.3	6.7	4.5	2.2	.2	487	15.8	16.5	13.6	10.8	16.5	16.0	17.6	17.8	16.4	20.0
NW	2.5	6.0	4.6	1.5	.1	454	14.7	15.8	13.9	16.2	15.2	17.3	13.9	17.8	15.1	12.0
VAR	*	.0	.0	.0	.0	1	*	1.0	.0	.0	.0	.0	.2	.0	.0	.0
CALM	3.0	1290	811	290	21	91	3.0	.0	2.3	.0	3.1	1.2	3.1	.0	4.6	2.7
TOT OBS	666	41.9	26.3	9.4	.7	3078	100.0	14.5	777	130	684	81	517	101	713	75
TOT PCT	21.6	41.9	26.3	9.4	.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

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PERIOD: (PRIMARY) 1942-1969  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)					CALM		PCT		TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ		
00003	7.1	32.0	40.9	15.1	3.0	.0	2.0	14.1	100.0	907
06009	7.3	29.7	38.6	17.8	3.5	.3	2.9	14.7	100.0	765
12015	3.1	28.2	41.3	21.1	3.7	.0	2.6	15.7	100.0	617
18021	7.4	32.2	37.1	16.1	1.8	1.0	4.4	14.0	100.0	788
TOT	197	945	1213	530	91	10	91	14.5	100.0	3077
PCT	6.4	30.7	39.4	17.2	3.0	.3	3.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	8 &	8 &		
N	.8	.5	2.1	3.5	126	6.4				
NNE	.5	.2	.9	2.0	66	6.4				
NE	.4	.4	1.1	3.1	90	6.7				
ENE	.3	.3	1.4	2.3	77	6.7				
E	.1	.2	1.2	3.5	90	7.3				
ESE	.1	.3	.9	3.2	81	7.3				
SE	.4	.2	.8	3.8	95	7.1				
SSE	.2	.3	.9	3.8	95	7.2				
S	.3	.5	1.6	4.6	128	7.0				
SSW	.2	.3	.9	2.7	75	7.0				
SW	.5	.7	2.1	4.5	144	6.8				
WSW	.4	.3	1.9	4.6	132	7.0				
W	.5	1.2	3.0	6.2	199	6.8				
WNW	.3	.3	2.1	3.5	113	6.9				
NW	.3	.5	3.0	4.3	149	6.9				
NNW	.7	.5	1.9	3.5	119	6.4				
VAR	.0	.0	.0	.1	1	8.0				
CALM	.3	.4	.6	1.1	45	5.8				
TOT OBS	111	129	484	1101	1825	6.8				
TOT PCT	6.1	7.1	26.5	60.3	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF NH <5/8										TOTAL OBS	
	000	149	150	299	300	599	600	999	1000	2000		
N	.3	.0	.0	.3	1.7	2.1	.7	.0	.0	.0	1.6	126
NNE	.2	.0	.0	.2	.4	1.0	.5	.0	.0	.0	.9	66
NE	.7	.1	.1	.7	.7	1.8	.4	.0	.0	.0	1.3	90
ENE	.4	.1	.1	.1	.5	1.6	.4	.0	.0	.0	.9	77
E	.8	.0	.0	.4	1.1	1.3	.3	.0	.0	.0	.8	90
ESE	1.0	.0	.0	.1	.9	1.0	.4	.0	.0	.0	.7	81
SE	.8	.2	.2	.4	.9	1.6	.4	.0	.0	.0	.8	95
SSE	.9	.1	.1	.2	1.1	1.2	.7	.0	.0	.0	.9	95
S	.9	.1	.1	.3	1.1	2.0	.9	.0	.0	.0	1.4	128
SSW	.4	.0	.0	.3	.8	1.0	.5	.0	.0	.0	.9	75
SW	.9	.1	.1	.3	1.5	1.9	1.0	.0	.0	.0	1.9	144
WSW	.7	.0	.0	.2	1.2	2.5	1.2	.0	.0	.0	1.0	132
W	.8	.0	.0	.5	2.2	3.2	1.5	.0	.0	.0	2.1	199
WNW	.4	.0	.0	.1	1.4	2.0	.6	.0	.0	.0	1.1	113
NW	.2	.2	.2	.5	1.4	2.4	1.9	.0	.0	.0	1.4	149
NNW	.3	.0	.0	.3	1.2	2.1	.7	.0	.0	.0	1.4	119
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1
CALM	.3	.0	.0	.1	.4	.7	.2	.0	.0	.0	.8	45
TOT OBS	181	12	79	337	537	225	2	5	7	72	364	1825
TOT PCT	9.9	.7	4.3	18.5	29.4	12.3	.3	.4	.7	3.9	19.9	100.0

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1899-1969

MAY

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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	>1/2	>1/4	>50YD	>0				
OR >6500	.5	.7	1.0	.7	.7	.7	.7	.7				
OR >5000	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0				
OR >3500	3.4	4.7	4.9	5.0	5.0	5.0	5.0	5.0				
OR >2000	9.5	15.4	17.3	17.5	17.6	17.6	17.6	17.6				
OR >1000	25.9	40.7	45.7	46.6	46.9	46.9	46.9	46.9				
OR >600	31.8	54.1	62.7	64.7	65.2	65.2	65.2	65.2				
OR >300	32.5	56.6	66.4	68.8	69.4	69.5	69.5	69.5				
OR >150	32.6	56.9	67.0	69.4	70.0	70.1	70.2	70.2				
OR > 0	33.0	58.6	70.2	74.3	75.6	77.5	79.7	79.9				
TOTAL	606	1075	1289	1363	1388	1423	1467	1467				

TOTAL NUMBER OF OBS: 1835 PCT FREQ NH <5/8: 20.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)		TOTAL								
0	1	2	3	4	5	6	7	8	OBSCD	OBS
3.3	2.4	5.4	4.0	4.7	4.9	9.4	15.2	42.6	8.1	2056

MAY

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1899-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	* * 2	.2 .0 5	.1 .1 4	.1 .1 4	.1 .3 6	.3 .2 10	.1 .3 10	.1 .5 15	.1 .4 12	.0 .4 9	.0 .3 6	* .3 9	.1 .2 7	.3 .3 8	.0 .1 3	* * 2	.0 .0 1	.0 .0 0	.0 .1 2	31 80 111	1.3 3.4 4.7	
1/2<1	* * 0	.3 .1 3	.3 .1 10	.2 .1 6	.3 .1 9	.2 .3 10	.1 .3 7	.3 .3 9	.3 * 7	.1 .1 4	.1 .1 4	* .1 3	.1 .1 3	.3 .3 3	.0 .1 2	* .1 3	.1 .0 3	.0 .0 0	.0 .0 1	* .0 1	51 36 87	2.2 1.5 3.7
1<2	* * 7	.1 .1 4	.1 .2 7	.2 .2 5	.2 * 6	.2 .3 10	.2 .3 14	.5 .3 14	.5 .2 15	.1 .3 14	.1 .1 6	.1 .3 10	.1 .2 7	.1 .2 8	.2 * 6	.2 .1 7	.2 .1 6	.1 .2 0	.0 .0 0	.0 .0 0	69 63 132	2.9 2.7 5.6
2<5	* * 23	.3 .3 12	.5 .4 22	.3 .3 16	.3 .6 20	.3 .6 21	.5 .5 25	.5 .2 17	.5 .2 17	.4 .3 11	.1 .3 11	.5 .6 28	.4 .6 24	.1 .9 24	.2 .3 13	.1 .6 17	.2 .3 13	.0 .0 0	.0 .0 0	.0 .1 2	121 190 311	5.1 8.0 13.2
5<10	* * 64	.2 .7 22	.5 1.1 38	.4 .8 27	.3 1.0 29	.7 1.1 41	.4 1.1 38	.4 1.1 35	.4 1.1 35	.2 2.4 60	.3 .6 22	.5 1.8 53	.3 1.9 52	.5 3.6 97	.1 2.2 55	.5 2.2 62	.3 2.0 54	.0 * 1	.0 .3 8	.0 .3 8	132 626 758	5.6 26.5 32.1
10+	* * 77	.1 1.4 35	.1 2.1 51	.0 1.6 37	.1 1.6 42	.0 1.1 25	.1 1.6 41	.1 1.3 34	.1 1.3 34	.1 2.4 60	* 1.6 38	.2 3.2 79	.2 2.6 66	.4 4.1 105	.1 2.8 69	* 3.9 94	.1 3.0 73	.0 .0 0	.0 1.7 40	.0 1.7 40	44 922 966	1.9 39.0 40.8
TOTAL PCT	173 7.3	81 3.4	132 5.6	97 4.1	120 5.1	114 4.8	142 6.0	120 5.1	120 5.1	176 7.4	87 3.7	182 7.7	159 6.7	245 10.4	148 6.3	185 7.8	150 6.3	1 *	53 2.2	2365 100.0	100.0	

MAY

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1899-1969

AREA 0038 DUTCH HARBOR  
51-55N 165-172W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.1	.0	.0	*	.0	.1	.0	.0	.0	*	.0	.0	.0	.0	.1	9	.3
	4-10	*	*	.1	.1	.1	.1	.1	.1	.1	.1	.2	*	*	*	*	.0	.0	.0	30	1.0
	11-21	*	.2	.1	.0	.2	.2	.2	.2	.1	.1	.1	.2	.2	.2	.1	.1	*	.0	62	2.1
	22+	.0	.0	*	*	.1	.1	.2	.1	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	18	.6
	TOTAL	2	6	4	6	11	10	16	13	9	6	10	8	8	3	3	1	0	3	119	4.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	*	.0	.1	.0	*	.0	.0	.0	.0	.0	.0	*	5	.2
	4-10	.0	*	.1	.1	.1	.0	.1	.0	.1	.1	.1	*	*	.0	.0	*	.0	.0	23	.8
	11-21	.0	*	.2	*	.2	.2	.1	.2	.1	.1	*	.1	.0	.0	.1	.1	.0	.0	44	1.5
	22+	.0	*	.1	.1	.1	.1	.0	*	.1	*	.0	.1	.1	.0	.1	.0	.0	.0	25	.8
	TOTAL	0	3	10	6	10	11	9	7	11	6	4	5	3	2	5	4	0	1	97	3.3
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	.0	*	.0	.0	5	.2
	4-10	.1	.1	.1	.1	.1	.0	.1	.0	.2	.1	.1	.0	*	.1	.1	*	.0	.0	38	1.3
	11-21	.1	*	.1	.1	.2	.2	.1	.4	.3	.1	.1	.1	.1	.1	.2	.1	.0	.0	74	2.5
	22+	.1	.1	.1	*	.1	.1	.2	.1	.1	*	.1	.2	.1	*	*	.1	.0	.0	45	1.5
	TOTAL	9	5	8	5	12	9	15	15	19	9	12	8	9	7	11	9	0	0	162	5.5
2<5	0-3	.0	.0	.2	.1	.0	.0	.1	.0	.0	.0	.1	*	*	.0	.1	.0	.0	.1	25	.8
	4-10	.2	*	.2	.1	.2	.1	.2	.1	.3	.1	.3	.3	.3	.1	.1	.2	.0	.0	88	3.0
	11-21	.5	.2	.2	.3	.2	.4	.3	.4	.4	.2	.6	.2	.2	.2	.4	.1	.0	.0	143	4.8
	22+	.2	.2	.2	.1	.3	.2	.5	.2	.3	.2	.4	.4	.5	.2	.3	.2	.0	.0	127	4.3
	TOTAL	28	15	26	17	23	23	34	20	31	14	43	25	29	14	23	14	0	4	383	12.9
5<10	0-3	.1	*	.2	.1	.1	*	.2	*	.2	.0	.2	*	.1	.1	.2	.1	*	.4	63	2.1
	4-10	.8	.3	.6	.5	.4	.4	.7	.7	.5	.5	.5	.6	.8	.7	.8	.3	.0	.0	277	9.3
	11-21	1.1	.5	.8	.5	.6	.8	.6	.3	1.4	.3	1.0	.9	1.7	.9	1.2	1.1	.0	.0	410	13.8
	22+	.6	.1	.2	.2	.3	.3	.3	.4	.3	.2	.5	.7	1.4	.5	.7	.5	.0	.0	217	7.3
	TOTAL	77	28	55	37	47	47	50	42	73	32	69	68	118	69	89	63	1	12	967	32.6
10+	0-3	.3	.1	.3	*	.2	.1	.2	.1	.4	.1	.4	*	.2	.2	.3	.1	.0	1.5	132	4.4
	4-10	1.3	.9	1.1	.6	.6	.4	.7	.7	1.3	.6	1.6	.7	1.3	1.1	1.2	1.0	.0	.0	447	15.1
	11-21	1.3	.5	.7	.8	.5	.7	.7	.7	.9	.7	1.1	1.0	1.6	1.2	1.9	1.4	.0	.0	466	15.7
	22+	.3	.2	.2	.2	.1	.3	.1	.1	.3	.1	.4	.9	1.1	.7	.9	.6	.0	.0	194	6.5
	TOTAL	96	50	69	49	48	31	53	46	86	47	101	78	125	95	126	94	0	45	1239	41.8
	TOTAL	212	107	172	120	141	131	177	143	229	114	239	192	292	190	257	185	1	65	2967	100.0
	PCT	7.1	3.6	5.8	4.0	4.8	4.4	6.0	4.8	7.7	3.8	8.1	6.5	9.8	6.4	8.7	6.2	*	2.2	100.0	

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1899-1969

MAY

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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
0000	149	299	599	999	1999	3499	4999	6499	7999				
00003	5.9	1.0	4.0	15.2	29.3	14.7	5.1	.2	.2	.8	76.4	23.6	505
06009	9.4	.4	4.8	19.6	28.1	10.2	3.5	.4	.4	.2	77.1	22.9	480
12015	15.5	.2	3.3	16.9	27.4	10.7	3.6	.5	.5	.2	78.8	21.2	420
18021	8.8	.8	4.8	20.1	29.5	13.2	3.3	.0	.4	.0	81.0	19.0	478
TOT	182	12	80	338	539	231	74	5	7	6	1474	409	1883
PCT	9.7	.6	4.2	18.0	28.6	12.3	3.9	.3	.4	.3	78.3	21.7	100.0

TABLE 11

PERCENT FREQUENCY VSE: (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	3.9	.6	2.9	9.3	28.5	54.8	484
06009	4.2	1.7	4.2	13.5	28.3	48.0	473
12015	5.3	1.9	4.6	15.7	29.2	43.2	414
18021	3.9	1.5	4.7	12.5	33.0	44.4	464
TOT	79	26	75	232	546	877	1835
PCT	4.3	1.4	4.1	12.6	29.8	47.8	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	< 600	< 1000	1000+ AND 5+	NH < 5/8	TOTAL OBS
00003	6.4	11.8	32.2	48.1	19.6	484
06009	9.3	15.4	42.5	36.4	21.1	473
12015	15.7	20.0	45.2	36.0	18.8	414
18021	8.6	14.9	42.2	41.6	16.2	464
TOT	180	282	740	747	348	1835
PCT	9.8	15.4	40.3	40.7	19.0	100.0

MAY

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1899-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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				
55/59	.0	.0	.1	.1	.1	.3	.1	.0	.0	.0	11	.6
50/54	.0	.0	.0	.0	.6	.9	1.6	.3	.3	.3	61	3.4
45/49	.0	.0	.1	.2	1.3	4.5	7.5	4.4	3.28	18.1	328	18.1
40/44	.0	.0	.1	.3	2.8	9.4	15.2	23.1	9.22	50.7	922	50.7
35/39	.0	.0	.0	.6	.9	4.3	8.2	12.1	4.74	26.1	474	26.1
30/34	.0	.0	.0	.0	.2	.3	.3	.4	.21	1.2	21	1.2
TOTAL	0	0	5	20	106	357	597	732	1817	100.0	1817	100.0
PCT	.0	.0	.3	1.1	5.8	19.6	32.9	40.3				

TABLE 14

TEMP	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
55/59	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0
50/54	.4	.2	.3	.3	.5	.3	.4	.6	.6	.6	.2	.2
45/49	1.8	2.8	2.3	2.1	2.5	2.4	1.3	1.7	.9	.9	.9	.9
40/44	4.3	5.6	5.0	5.9	6.4	7.6	7.6	6.5	1.7	1.7	1.7	1.7
35/39	4.9	2.9	1.5	1.1	1.2	2.6	4.9	6.3	.0	.0	.0	.0
30/34	.4	.2	.1	.0	.1	.1	.1	.3	.0	.0	.0	.0
TOTAL	21.6	21.1	16.8	17.4	19.4	23.7	27.1	28.1	1.1	1.1	1.1	6.4
PCT	11.9	11.6	9.2	9.6	10.7	13.0	14.9	15.5	.1	.1	.1	3.5

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		
00003	57	54	50	43	37	34	30	42.9	902		
06009	57	52	47	41	36	34	30	41.6	771		
12015	52	47	45	40	36	34	30	40.2	625		
18021	58	51	48	41	36	34	31	40.9	794		
TOT	58	52	48	41	36	34	30	41.5	3092		

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	2.3	8.0	24.8	33.7	31.3	83	576			
06009	.0	1.1	4.7	17.5	32.8	43.9	86	451			
12015	.0	.3	4.6	17.0	33.0	45.1	87	306			
18021	.0	1.2	5.1	17.3	32.0	44.4	86	491			
TOT	0	25	106	359	600	734	85	1824			

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1899-1969

MAY

AREA 008 DUTCH HAR80R  
51-55N 165-172W

TABLE 17

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

AIR-SEA TMP DIF	29	33	37	41	45	49	53	57	TOT	M	WD
	32	36	40	44	48	52	56	60	FOG	FOG	FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.1	3	.0	.2
11/13	.0	.0	.0	.0	.1	.3	.0	.1	9	.1	.4
9/10	.0	.0	.0	.0	.6	.6	.0	.0	23	.1	1.1
7/8	.0	.0	.0	.2	1.8	.5	.0	.0	46	.3	2.2
6	.0	.0	.0	.4	.9	.2	.0	.0	28	.3	1.2
5	.0	.0	.1	.9	3.1	.2	.0	.0	81	.4	3.9
4	.0	.0	.6	2.5	2.8	.1	.0	.0	114	.9	5.1
3	.0	.0	.7	.8	1.3	.1	.0	.0	84	.3	4.2
2	.0	.1	1.7	1	2.3	.0	.0	.0	211	1.3	9.9
1	.0	.1	1.8	1	.7	.0	.0	.0	170	.7	8.2
0	.1	.5	8.2	10.9	1.0	.0	.0	.0	391	1.6	19.1
-1	.0	.2	5.7	3.0	.2	.0	.0	.0	173	.4	8.8
-2	.0	.5	6.9	2.5	.2	.0	.0	.0	193	.5	9.7
-3	.0	.7	3.7	1.5	.1	.0	.0	.0	113	.3	5.7
-4	.1	1.6	2.7	1.3	.1	.0	.0	.0	109	.4	5.4
-5	.0	1.2	1.9	.4	.1	.0	.0	.0	68	.2	3.4
-6	.0	.6	.6	.2	.0	.0	.0	.0	27	.1	1.3
-7/-8	.2	.5	.8	.2	.1	.0	.0	.0	33	.2	1.6
-9/-10	.2	.3	.1	.1	.0	.0	.0	.0	11	.0	.6
-11/-13	.0	.2	.0	.1	.0	.0	.0	.0	5	.0	.3
TOTAL	9	123	666	767	287	35	2	3	1892	149	1743
PCT	.5	6.5	35.2	40.5	15.2	1.8	.1	.2	100.0	7.9	92.1

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 MAY  
 TABLE 18  
 AREA 0008 DUTCH HARBR  
 51-55N 165-172W

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOTAL	48+	TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21				22-33	34-47	48+
<1	.1	.8	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.4	.0	4
1-2	.0	.9	.9	.0	.0	.0	.0	.1	.8	.9	.0	.0	.0	.0	.0	14
3-4	.0	1.4	1.6	.5	.0	.0	.0	.0	1.2	1.6	.0	.0	.0	.0	.0	21
5-6	.0	.4	1.8	.7	.0	.0	.0	.0	.3	1.6	.4	.0	.0	.0	.0	17
7	.0	.0	.7	.7	.4	.0	.0	.0	.0	.9	.7	.0	.0	.0	.0	12
8-9	.0	.0	.1	.4	.3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	2
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.3	.0	.0	.0	.0	.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	1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
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
TOTAL	1	26	38	22	5	0	92	2	20	38	9	3	0	72	0	72
PCT	.1	3.5	5.2	3.0	.7	.0	12.5	.3	2.7	5.2	1.2	.4	.0	9.8	.0	9.8

HGT	PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)										TOTAL	48+	TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21				22-33	34-47	48+
<1	.0	.5	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	2
1-2	.0	.8	1.1	.0	.0	.0	.0	.1	.9	.7	.0	.0	.0	.0	.0	13
3-4	.0	.9	2.3	.0	.0	.0	.0	.0	.1	1.1	.5	.0	.0	.0	.0	13
5-6	.0	.1	.7	.0	.0	.0	.0	.0	.8	1.1	.9	.0	.0	.0	.0	21
7	.0	.0	.4	.4	.0	.0	.0	.0	.3	.8	.5	.0	.0	.0	.0	12
8-9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	4
10-11	.0	.0	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.1	.0	.0	.0	.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
TOTAL	0	18	34	5	3	0	60	2	17	28	18	0	0	65	0	65
PCT	.0	2.4	4.6	.7	.4	.0	8.1	.3	2.3	3.8	2.4	.0	.0	8.8	.0	8.8



MAY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AREA 0008 DUTCH HARBOR  
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TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS
<1	2.5	3.1	.0	.0	.0	.0	42
1-2	1.2	9.3	6.9	.0	.0	.0	131
3-4	.7	11.4	12.7	1.5	.0	.0	198
5-6	.0	3.3	13.0	4.8	.0	.0	159
7	.0	1.1	7.3	4.9	.5	.0	104
8-9	.0	.1	2.3	2.8	.7	.0	44
10-11	.0	.0	.7	3.2	.7	.0	34
12	.0	.0	.0	2.0	.1	.1	17
13-16	.0	.0	.3	1.2	1.1	.0	19
17-19	.0	.0	.0	.1	.1	.0	2
20-22	.0	.0	.1	.0	.0	.0	1
23-25	.0	.0	.0	.0	.1	.1	2
26-32	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	33	213	326	154	25	2	753
PCT	4.4	28.3	43.3	20.5	3.3	.3	100.0

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	
<6	1.6	9.9	12.4	7.4	2.4	.8	1.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
6-7	.0	1.3	6.0	10.0	7.2	2.4	2.2	.6	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
8-9	.0	.2	1.3	3.4	3.9	2.2	1.6	1.1	1.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
10-11	.0	.1	.3	.8	1.5	1.1	.9	.2	1.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	9
12-13	.0	.0	.1	.0	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
>13	.0	.0	.0	.0	.0	.1	.2	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	12
INDET	9.4	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	98	103	181	192	133	61	59	20	38	3	3	2	0	0	0	0	0	0	0	0	85
PCT	11.0	11.5	20.3	21.5	14.9	6.8	6.6	2.2	4.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	5

JUNE

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	HAIL PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG MD	SMOKE	HAZE	DUST	
N	.2	.0	.2	.0	.0	.0	.0	.5	12	.0	1.0	.0	.0	4.1	145
NNE	.2	* .0	.3	.0	.0	.0	.0	.5	14	.0	.0	.0	.0	3.4	116
NE	.9	* .0	.5	.0	.0	.0	.0	1.5	38	.0	.7	.0	.0	3.1	138
ENE	.6	.0	.7	.0	.0	.0	.0	1.2	32	.0	.5	*	*	2.5	111
E	1.1	.1	.6	.0	.0	.0	.0	1.7	45	.0	1.0	.0	.0	3.8	172
ESE	.8	* .0	.6	.0	.0	.0	.0	1.5	38	.0	.7	.0	.0	2.2	116
SE	1.1	.0	.6	.0	.0	.0	.0	1.7	44	.0	2.0	.0	*	4.5	220
SSE	.5	* .0	.4	.0	.0	.0	.0	.9	23	.0	1.1	.0	.0	2.6	120
S	.6	.1	1.0	.0	.0	.0	.0	1.6	42	.0	1.6	.0	.0	4.4	200
SSW	.3	.0	.3	.0	.0	.0	.0	.7	17	.0	.7	*	*	3.4	123
SW	.5	.0	.7	.0	.0	.0	.0	1.1	30	.0	.9	*	*	4.4	170
WSW	.3	.2	.5	.0	.0	.0	.0	.8	22	.0	1.0	.0	.0	5.3	187
W	.3	.1	.5	.0	.0	.0	.0	1.0	25	.0	1.0	*	*	7.7	253
WNW	.1	.1	.2	.0	.0	.0	.0	.3	9	.0	.7	*	*	4.2	138
NW	.5	.0	.5	.0	.0	.0	.0	1.0	26	.0	1.1	*	*	5.3	192
NNW	.3	* .0	.3	.0	.0	.0	.0	.6	16	.0	.6	*	*	3.1	113
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	*	1
CALM	.0	.0	.3	.0	.0	.0	.0	.3	7	.0	.8	.0	.0	2.5	94
TOT OBS	217	19	211	0	0	0	0	.3	440	0	412	21	2	1734	2609
TOT PCT	8.3	.7	8.1	.0	.0	.0	.0	16.9		.0	15.8	.8	.1	66.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	HAIL PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG MD	SMOKE	HAZE	DUST	
00003	7.5	1.1	6.3	.0	.0	.0	.0	14.9	109	.0	16.0	1.1	.0	68.0	731
06009	8.7	.2	7.5	.0	.0	.0	.0	15.9	104	.0	17.1	.5	.0	66.6	655
12015	8.3	.8	9.0	.0	.0	.0	.0	17.8	107	.0	13.7	.8	.2	67.5	600
18021	8.5	.8	9.6	.0	.0	.0	.0	18.5	120	.0	16.5	.8	.2	64.1	649
TOT	217	19	211	0	0	0	0	16.7	440	0	418	21	2	1754	2635
PCT	6.2	.7	8.0	.0	.0	.0	.0	16.7		.0	15.9	.8	.1	66.6	100.0

JUNE

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)											WIND SPEED (KNOTS)					
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	2.9	1.7	.3	.1	.0	189	5.9	10.1	5.9	6.5	7.1	5.7	5.1	3.9	5.9	3.0
NNE	.5	1.9	1.6	.3	.0	.0	136	4.2	10.7	3.9	3.6	4.2	1.9	3.8	3.1	5.1	7.9
NE	.8	2.3	2.1	.4	*	.0	179	5.6	11.0	5.9	5.0	5.2	2.8	5.3	6.3	6.1	5.9
ENE	.1	1.8	1.5	.8	.1	.0	137	4.3	14.3	3.6	10.1	4.4	5.7	4.2	3.1	3.7	5.0
E	.4	2.5	2.7	.5	.0	*	199	6.2	13.0	7.2	2.9	6.2	.0	6.6	5.5	6.5	5.9
ESE	.2	1.4	2.0	.7	.0	.0	137	4.3	14.5	3.9	5.8	4.5	5.7	5.1	3.9	3.7	2.0
SE	.8	2.5	3.6	1.4	*	.0	266	8.3	13.8	7.9	5.8	9.3	7.5	7.3	8.7	9.1	7.9
SSE	.3	1.8	2.2	.6	*	.0	157	4.9	12.9	5.4	7.2	3.5	6.6	4.0	7.1	4.5	9.9
S	.7	2.6	3.0	.8	.1	.0	232	7.2	12.3	6.4	6.5	7.1	5.7	8.9	4.7	7.5	3.0
SSW	.2	1.3	2.7	.4	.0	.0	148	4.6	13.4	4.8	5.8	3.7	8.5	5.3	4.7	3.7	6.9
SW	.5	3.1	2.0	.8	*	.0	209	6.5	11.8	6.6	7.2	6.5	7.5	6.4	7.9	6.6	2.0
WSW	.5	2.5	2.8	.9	.2	.0	220	6.8	13.4	5.9	6.5	7.2	5.7	8.9	6.3	6.2	6.9
W	.7	4.0	3.7	.9	.1	.0	299	9.3	12.5	10.4	10.1	9.2	10.4	8.7	8.3	8.3	12.9
WNW	.2	2.5	2.4	.5	.0	.0	179	5.6	12.2	5.0	5.8	5.8	7.5	5.6	8.7	4.4	9.9
NW	.6	3.6	3.2	.7	.1	*	265	8.2	12.1	8.9	4.3	8.3	9.4	6.4	10.2	9.3	6.9
NNW	.2	2.0	2.1	.2	.0	.0	144	4.5	11.7	4.4	5.8	4.4	7.5	4.4	3.9	4.5	2.0
VAR	.0	.0	.0	.0	.0	.0	1	*	4.0	.1	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	1237	1268	327	23	2	117	3.6	.0	3.7	1.4	3.5	1.9	4.0	.8	4.8	2.0
TOT OBS	357	38.5	39.5	10.2	.7	.1	3214	100.0	12.0	776	139	709	106	549	127	707	101
TOT PCT	11.1	28.5	28.5	10.2	.7	.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 SPEED (KNOTS)				
	0-6	7-15	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.1	5.6	1.2	.2	*	325	10.1	10.4	9.8	10.1	11.3	7.5	8.9	7.1	11.0	10.9
NE	2.6	4.6	2.1	.5	.0	316	9.8	12.4	9.5	15.1	9.6	8.5	9.5	9.4	9.8	10.9
E	1.9	5.4	2.7	.5	*	336	11.1	13.6	11.1	8.6	10.7	5.7	11.7	9.4	10.2	7.9
SE	2.8	6.1	3.9	.4	.0	423	13.3	13.5	13.3	12.9	12.8	14.2	11.3	15.7	13.6	17.8
S	2.6	5.7	3.3	.2	.0	380	11.2	12.8	11.2	12.2	10.7	14.2	14.2	11.2	11.2	9.9
SW	3.2	6.9	2.6	.6	*	429	12.5	12.6	12.5	13.7	13.7	13.2	15.3	14.2	12.9	8.9
W	3.0	8.4	3.1	.4	.0	478	15.5	12.4	15.5	15.8	15.0	17.9	14.4	15.0	12.7	22.8
NW	2.9	7.0	2.6	.2	*	409	13.3	11.9	13.3	10.1	12.7	17.0	10.7	14.2	13.9	8.9
VAR	.0	.0	.0	.0	.0	1	.1	4.0	.1	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	1595	688	99	4	117	3.7	.0	3.7	1.4	3.5	1.9	4.0	.8	4.8	2.0
TOT OBS	828	49.6	21.4	3.1	.1	3214	776	12.0	776	139	709	106	549	127	707	101
TOT PCT	25.8	49.6	21.4	3.1	.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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+	
0000	7.9	38.8	38.7	10.3	.8	.1	914
0600	9.1	37.4	39.4	9.9	.7	.1	815
1200	5.6	40.7	39.1	10.8	.4	.0	676
1800	6.9	37.3	40.7	9.8	.9	.0	808
TOT	240	1236	1268	327	23	2	3213
PCT	7.5	38.5	39.5	10.2	.7	.1	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	TOTAL OBS			
N	.2	.2	1.3	4.1	121	7.2			
NNE	.4	.1	1.1	3.4	104	7.0			
NE	.1	.1	1.1	3.8	106	7.5			
ENE	.1	.0	.8	3.4	90	7.5			
E	.2	*	1.0	5.2	133	7.5			
ESE	.1	.0	.9	3.2	87	7.5			
SE	.1	.1	1.9	5.8	167	7.4			
SSE	.2	.1	.6	3.8	96	7.5			
S	.1	.1	1.1	6.3	160	7.5			
SSW	.1	.1	1.1	3.5	101	7.4			
SW	.1	.1	1.5	4.4	128	7.3			
WSW	.1	.2	1.4	5.7	155	7.5			
W	.3	.7	2.1	6.6	202	7.2			
WNW	.3	.4	.9	3.7	109	7.0			
NW	.3	.2	1.3	4.9	140	7.3			
NNW	.4	*	.9	3.2	93	7.1			
VAR	.0	.0	.0	*	1	8.0			
CALM	*	.2	.5	3.2	81	7.6			
TOT OBS	70	60	405	1539	2074	7.4			
TOT PCT	3.4	2.9	19.5	74.2	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)										NH <5/8 ANY HGT	TOTAL DBS							
	000	149	150	299	300	599	630	999	1000	1999			2000	3499	3500	4999	5000	6499	7999
N	.9	.0	.0	.3	1.1	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	121
NNE	.4	.0	.0	.1	.8	1.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	104
NE	.8	*	.1	.1	.6	1.9	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	106
ENE	.6	.0	.3	.3	.6	1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	90
E	.8	*	.2	.2	1.2	2.2	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	133
ESE	.6	*	.2	.2	1.0	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	87
SE	1.5	*	.3	.3	1.4	2.2	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	167
SSE	.9	.0	.2	.5	1.0	1.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	96
S	1.5	.2	.5	.3	1.5	1.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	160
SSW	.6	.0	.3	.3	1.2	1.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	101
SW	1.0	.1	.2	.2	1.0	1.9	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	128
WSW	.7	*	.4	.4	1.4	2.3	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	155
W	.8	.0	.3	.3	1.7	3.9	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	202
WNW	.4	.0	.2	.2	1.1	1.1	1.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	109
NW	.8	*	.4	.4	1.1	1.8	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	209
NNW	.5	.1	.3	.3	.8	1.1	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	140
VAR	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	93
CALM	.9	.1	.1	.1	.7	.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
TOT OBS	287	17	97	377	614	322	56	15	13	11	265	2074	2074	2074	2074	2074	2074	.3	81
TOT PCT	13.8	.8	4.7	18.2	29.6	15.5	2.7	.7	.6	.5	12.8	100.0	100.0	100.0	100.0	100.0	100.0	.5	12.8

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TABLE 7

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

CEILING (FEET)	OR		OK		OR		OK		OR		OK		OR
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0					
OR >6500	.9	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
OR >5000	1.3	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
OR >3500	2.6	4.1	4.5	4.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
OR >2000	10.3	17.7	19.4	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
OR >1000	22.3	40.7	46.9	49.2	49.6	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
OR >600	28.2	52.5	63.0	66.5	67.3	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9
OR >300	29.8	55.0	66.8	70.8	71.8	72.3	72.5	72.5	72.5	72.5	72.5	72.5	72.5
OR >150	29.9	55.9	67.3	71.4	72.5	73.0	73.3	73.3	73.3	73.3	73.3	73.3	73.3
CR > 0	30.0	57.0	69.7	75.4	78.8	82.9	86.7	86.7	86.7	86.7	86.7	86.7	86.7
TOTAL	625	1186	1450	1569	1639	1725	1804	1804	1804	1804	1804	1804	1814

TOTAL NUMBER OF OBS: 2080

PCT FREQ NH <5/8: 12.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

		0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
												OBS
2.1	2.3	2.9	3.0	3.2	3.2	3.2	3.2	3.2	3.2	3.2	49.8	2263

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						*
<1/2	PCP	.7	.2	.3	.2	.4	.1	.1	.1	1.0	.3	.4	.3	.0	.0	.6	.3	.0	.0	.5	224	8.6
	NO PCP	20	7	12	7	16	12	31	20	26	9	12	10	16	10	17	9	0	14	248	9.5	
	TOTAL																					
1/2<1	PCP	.1	.1	.2	.1	.2	.1	.5	.3	.3	.1	.2	.1	.2	.0	.2	.1	.0	.0	.0	51	2.0
	NO PCP	.2	.1	.2	.1	.2	.1	.3	.3	.3	.2	.3	.3	.3	.1	.2	.1	.0	.2	.2	80	3.1
	TOTAL	7	4	7	6	8	5	20	9	15	6	5	10	13	2	7	2	0	4	131	5.0	
1<2	PCP	.2	.3	.3	.3	.3	.4	.1	.2	.5	.2	.3	.2	.5	.3	.3	.1	.0	.1	.0	61	2.3
	NO PCP	7	8	13	17	16	13	19	12	24	5	12	5	14	8	7	3	0	2	.0	124	4.8
	TOTAL																					
2<5	PCP	.1	.1	.3	.4	.5	.6	.3	.3	.3	.2	.2	.2	.2	.2	.4	.2	.0	.0	.4	117	4.5
	NO PCP	.3	.5	.5	.2	.7	.5	1.0	.3	.8	.5	.6	.6	.9	.6	.7	.1	.0	.4	.4	239	9.2
	TOTAL	11	15	21	17	31	25	41	15	29	18	22	19	28	17	28	9	0	10	356	13.7	
5<10	PCP	.2	.2	.6	.3	.5	.3	.3	.3	.4	.3	.5	.4	.3	.2	.2	.2	.0	.2	.2	140	5.4
	NO PCP	1.7	1.0	1.0	.9	1.6	.9	1.6	1.1	1.7	1.3	1.7	2.4	2.8	1.7	1.8	1.1	.0	.7	.7	655	25.2
	TOTAL	49	31	41	32	54	32	50	37	55	44	57	73	83	49	52	34	0	22	795	30.6	
10+	PCP	.1	.1	.1	.1	.1	.1	.1	.0	.3	.1	.1	.2	.2	.1	.3	.1	.0	.1	.1	47	1.8
	NO PCP	1.9	1.8	1.6	1.2	1.7	1.0	2.0	1.0	1.7	1.5	2.2	2.5	3.6	1.9	2.8	2.0	.1	1.6	1.6	836	32.2
	TOTAL	51	50	44	32	46	29	54	27	51	41	59	69	99	52	81	55	1	42	883	34.0	
TOTAL	145	115	138	111	171	116	215	120	200	123	167	186	253	253	138	192	113	1	94	2598	100.0	
PCT	5.6	4.4	5.3	4.3	6.6	4.5	8.3	4.6	7.7	4.7	6.4	7.2	9.7	9.7	5.3	7.4	4.3	*	3.6	100.0		

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
																					0-3
<1/2	0-3	.2	.1	.2	.0	.1	.1	.2	.0	.1	.0	*	.0	.2	.1	*	.1	.0	.4	53	1.7
	4-10	.3	*	.3	.4	.3	.2	.2	.2	.3	*	.2	.2	.3	.2	.4	.1	.0	.0	122	3.9
	11-21	.2	.2	.1	* .4	.3	.1	.4	.2	.2	.2	.2	.1	.2	*	.1	.1	.0	.0	84	2.7
	22+	.1	.0	.0	.0	.3	.1	* .3	.1	.1	.0	.0	.1	.0	.1	.0	*	.0	.0	22	.7
	TOTAL	21	8	16	15	32	27	13	32	23	27	9	13	11	21	10	17	9	0	14	281
1/2<1	0-3	.0	.0	.1	.0	.0	*	.0	*	*	.0	.1	.0	.0	*	.0	.0	.0	.1	12	.4
	4-10	.1	.1	.1	* .2	.1	*	.2	*	.1	.1	.1	.1	.3	.1	.1	.1	.0	.0	50	1.6
	11-21	.1	.1	.0	.1	.3	.2	.1	.2	.1	.1	*	.1	.1	*	.1	.1	.0	.0	59	1.9
	22+	*	.0	* .1	.1	.2	.0	.2	.0	.1	.0	*	.1	.1	.1	.0	.0	.0	.0	21	.7
	TOTAL	7	4	7	8	20	9	5	20	9	15	6	7	10	13	4	8	6	0	4	142
1<2	0-3	.0	.0	*	.0	.0	.0	.0	.0	*	.0	*	*	.0	.0	.0	.0	.0	.1	6	.2
	4-10	.2	.1	.2	.2	.1	.1	.3	.2	.1	.0	.2	.1	.2	.2	.2	.1	.0	.0	81	2.6
	11-21	.1	.1	.1	.3	.2	.2	.3	.1	.5	.1	.1	.1	.2	.1	.1	.1	.1	.0	91	2.9
	22+	.0	.0	.1	*	.1	.1	.1	.1	.2	*	.1	.1	*	.1	.1	.0	.0	.0	29	.9
	TOTAL	8	8	14	19	21	14	13	21	14	24	5	12	8	15	13	10	4	0	2	207
2<5	0-3	.1	*	.1	.0	.1	.0	.1	*	.1	.1	.1	.1	*	.0	.1	.0	.0	.4	41	1.3
	4-10	.2	.2	.3	.2	.3	.2	.4	.1	.3	.2	.4	.2	.2	.3	.4	.1	.0	.0	123	3.9
	11-21	.1	.3	.3	.2	.5	.3	.7	.3	.5	.4	.2	.3	.5	.3	.5	.2	.0	.0	170	5.4
	22+	.1	.0	.1	.2	.2	.3	.3	.1	.2	.0	.1	.1	.2	.0	.1	*	.0	.0	65	2.1
	TOTAL	12	15	25	17	35	32	29	46	15	32	19	26	21	32	18	34	10	0	13	399
5<10	0-3	.3	*	.3	.1	.1	*	.1	.1	.2	*	.0	.2	.3	*	.1	*	.0	1.0	92	2.9
	4-10	.9	.7	.8	.3	.8	.2	.4	.7	.7	.3	1.0	.9	1.5	1.0	1.0	.7	.0	.0	379	12.0
	11-21	.6	.4	.7	.5	.9	.8	.9	.6	1.0	.1	.8	1.3	1.2	1.0	1.0	.6	.0	.0	417	13.2
	22+	.2	.1	.1	.3	.3	.2	.4	.2	.2	.1	.3	.4	.3	.1	.4	*	.0	.0	114	3.6
	TOTAL	6.1	37	59	40	62	62	38	61	51	64	49	67	86	103	67	80	45	0	32	1002
10+	0-3	.3	.3	.2	.0	.2	.0	.3	.1	.3	.1	.3	.2	.2	.1	.3	.1	.0	1.5	135	4.3
	4-10	1.2	.9	.7	.6	.7	.6	.9	.4	1.2	.6	1.1	1.1	1.4	.7	1.6	.9	*	.0	459	14.5
	11-21	.8	.6	.8	.3	.8	.5	1.0	.7	.5	.9	.8	1.0	1.6	1.0	1.5	1.1	.0	.0	436	13.8
	22+	.1	.2	.1	.3	.1	*	.2	.1	.1	.2	.3	.2	.3	.3	.2	.1	.0	.0	94	3.0
	TOTAL	74	62	56	38	53	62	35	76	41	67	55	78	82	113	65	112	69	1	47	1124
TOTAL	183	134	177	137	198	198	133	256	153	229	143	203	218	297	177	261	143	1	112	3155	100.0
PCT		5.8	4.2	5.6	4.3	6.3	4.2	8.1	4.8	7.3	4.5	6.4	6.9	9.4	5.6	8.3	4.5	*	3.5	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

HR	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				OBS
00003	10.4	1.1	3.7	16.0	31.6	13.7	3.2	.7	.4	1.1	81.7	18.3	569
06009	15.8	.5	4.7	17.1	27.6	13.8	2.5	.5	.9	.5	84.0	16.0	551
12015	16.8	.8	4.0	19.5	26.7	15.3	2.5	.2	.8	.2	87.0	13.0	476
18021	12.5	.8	5.8	18.9	30.0	17.9	2.6	1.3	.4	.2	90.4	9.6	530
TOT	292	17	97	378	618	322	58	15	13	11	1821	305	2126
PCT	13.7	.8	4.6	17.8	29.1	15.1	2.7	.7	.6	.5	85.7	14.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	8.0	2.5	4.7	11.3	30.5	42.9	550
06009	9.6	5.0	5.9	12.4	27.3	39.7	539
12015	9.8	3.8	6.4	16.1	32.7	31.2	471
18021	6.9	3.1	7.3	14.4	31.5	36.9	520
TOT	178	75	126	280	632	769	2080
PCT	8.6	3.6	6.1	13.5	30.4	37.9	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	10.9	17.6	41.6	44.5	13.8	550
06009	16.0	23.9	48.8	38.4	12.8	539
12015	17.0	22.9	52.4	36.7	10.8	471
18021	12.5	20.2	49.8	42.7	7.5	520
TOT	291	439	998	847	235	2080
PCT	14.0	21.1	48.0	40.7	11.3	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			
60/64	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.1
55/59	.0	.0	.0	.1	.1	.6	.4	.4	.4	.4	27	1.5
50/54	.0	.0	.0	.2	1.2	2.6	3.9	1.8	1.8	1.8	174	9.7
45/49	.0	.0	.0	.6	1.2	7.5	18.9	20.9	20.9	20.9	880	49.1
40/44	.0	.0	.0	.0	.6	2.9	9.7	25.1	25.1	25.1	687	38.4
35/39	.0	.0	.0	.0	.0	.2	.2	.8	.8	.8	21	1.2
TOTAL	0	0	0	16	56	248	593	878	878	878	1791	100.0
PCT	.0	.0	.0	.9	3.1	13.8	33.1	49.0	49.0	49.0		

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
60/64	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
55/59	.1	.2	.2	.4	.2	.1	.1	.1	.1	.0	.0	.2
50/54	.9	1.2	1.4	1.2	.9	1.1	1.2	1.3	.0	.0	.0	.4
45/49	4.8	6.6	5.0	7.1	6.1	6.1	6.5	5.0	.0	.0	.0	2.1
40/44	4.5	3.2	3.3	4.5	3.7	5.5	5.2	6.7	.1	.1	.0	1.6
35/39	.3	.0	.0	.1	.2	.1	.2	.3	.0	.0	.0	.0
TOTAL	190	201	179	239	198	231	233	241	1	1	1	78
PCT	10.6	11.2	10.0	13.3	11.1	12.9	13.0	13.5	.1	.1	.1	4.4

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	61	57	54	46	41	39	37	46.5	918		
0609	60	55	51	45	41	38	36	45.5	811		
1205	59	51	48	44	39	37	35	43.9	677		
1801	57	54	50	45	40	39	36	44.6	806		
TOT	61	55	51	45	41	38	35	45.2	3212		

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	TOTAL			
0003	.0	1.7	5.0	19.1	36.6	37.7	86	544			
0609	.0	.2	2.1	12.6	34.7	50.3	88	475			
1205	.0	.6	1.3	11.0	28.1	59.0	89	310			
1801	.0	1.1	3.2	10.9	30.4	54.5	89	470			
TOT	0	17	56	249	594	883	88	1799			

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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	33	37	41	45	49	53	57	61	TOT	M FOG	WD FOG
14/16	.0	.0	.0	.0	.0	*	*	*	3	.0	.1
11/13	.0	.0	.0	.0	.1	.3	.2	*	15	.1	.6
9/10	.0	.0	.0	.2	.7	.3	.1	.0	29	.3	1.0
7/8	.0	.0	.1	.6	1.1	.3	*	.0	47	.4	1.8
6	.0	.0	.1	.7	.7	.1	.0	.0	37	.4	1.3
5	.0	.1	.3	2.8	1.3	.2	.0	.0	106	1.1	3.7
4	.0	.1	1.1	4.8	1.2	*	.0	.0	162	1.3	6.1
3	.0	*	1.1	3.7	.5	.1	.0	.0	120	1.0	4.4
2	.0	.1	4.0	9.1	1.0	*	*	.0	318	3.1	11.3
1	.0	.2	4.3	5.4	.4	.0	.0	.0	228	1.4	8.9
0	*	1.1	11.8	10.2	.5	*	.0	.0	525	3.3	20.5
-1	.0	.4	5.2	2.4	.3	.0	.0	.0	183	1.0	7.2
-2	.0	.8	5.5	3.1	*	.0	.0	.0	210	1.1	8.4
-3	.0	.6	2.7	.6	.0	.0	.0	.0	85	.5	3.4
-4	.0	.5	1.7	.7	.1	.0	.0	.0	67	.5	2.5
-5	*	.3	.5	.9	.0	.0	.0	.0	39	.3	1.5
-6	.0	.3	.6	.0	.0	.0	.0	.0	19	.1	.7
-7/-8	.0	.2	.5	.2	.0	.0	.0	.0	18	*	.8
-9/-10	.0	*	.0	.1	.0	.0	.0	.0	3	*	.1
TOTAL	2	105	875	1011	177	33	9	2	2214	350	1864
PCT	.1	4.7	39.5	45.7	8.0	1.5	.4	.1	100.0	15.8	84.2

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 JUNE  
 TABLE 18  
 AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

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

HGT	N					NE					TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47				
<1	.3	.7	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	8
1-2	.1	2.3	1.4	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	18
3-4	.1	2.0	1.5	.1	.0	.0	1.0	1.8	.0	.0	.0	.0	.0	20
5-6	.0	.3	1.3	.1	.0	.0	.4	1.5	.1	.0	.0	.0	.0	15
7	.0	.0	.4	.0	.0	.0	.0	.6	.4	.0	.0	.0	.0	7
8-9	.0	.0	.3	.4	.1	.0	.0	.0	.1	.1	.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	.1	.0	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.37	35	5	1	.0	.27	37	6	.0	.0	.0	.0	72
TOTAL	.4	5.2	4.9	.7	.1	.0	3.8	5.2	.8	.3	.0	.0	.0	10.1
PCT	.6													

HGT	E					SE					TOTAL	48+	TOTAL	
	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	.3	1.1	.0	.0	.0	.0	.0	.0	10
1-2	.1	2.5	1.4	.0	.0	.3	1.0	1.7	.0	.0	.0	.0	.0	21
3-4	.0	.8	1.8	.1	.0	.0	1.4	1.8	.3	.0	.0	.0	.0	25
5-6	.0	.6	1.4	.3	.1	.0	.3	2.5	.8	.0	.0	.0	.0	26
7	.0	.0	.6	.4	.0	.0	.0	1.0	1.3	.0	.0	.0	.0	16
8-9	.0	.0	.4	.3	.0	.0	.0	.0	.6	.0	.0	.0	.0	4
10-11	.0	.1	.0	.1	.0	.0	.0	.1	.3	.0	.0	.0	.0	3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.34	40	10	1	.0	.27	51	24	.0	.0	.0	.0	106
TOTAL	.2	4.8	5.6	1.4	.1	.4	3.8	7.2	3.4	.0	.0	.0	.0	14.9
PCT	.3													

PERIOD: (PRIMARY) JUNE AREA 0008 DUTCH HARBOR  
(OVER-ALL) 1963-1969 TABLE 18 51-55N 165-172W

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

HGT	S					TOTAL	SW					TOTAL	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47
<1	.1	.7	.0	.0	.0	6	.3	.7	.0	.0	.0	.0	7
1-2	.7	1.7	.8	.0	.0	23	.3	2.7	.4	.0	.0	.0	24
3-4	.0	.8	1.4	.3	.0	18	.3	.7	1.0	.0	.0	.0	14
5-6	.0	.1	2.3	.0	.0	17	.0	.4	1.4	.1	.0	.0	14
7	.0	.3	2.3	.1	.0	19	.0	.0	.7	.1	.0	.0	6
8-9	.0	.1	.3	.1	.0	4	.0	.0	.6	.0	.0	.0	4
10-11	.0	.0	.0	.1	.0	1	.0	.0	.0	.3	.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	.1	1	.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
TOTAL	6	27	50	5	1	89	6	32	29	4	0	0	71
PCT	.8	3.8	7.0	.7	.1	12.5	.8	4.5	4.1	.6	.0	.0	10.0

HGT	W					TOTAL	NW					TOTAL	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47
<1	.4	1.1	.0	.0	.0	11	.3	.4	.0	.0	.0	.0	5
1-2	.3	2.5	1.8	.0	.0	33	.0	2.3	2.1	.0	.0	.0	31
3-4	.3	2.4	2.7	.1	.0	39	.0	2.0	2.3	.0	.0	.0	30
5-6	.1	1.0	1.3	.4	.0	20	.0	.3	1.0	.1	.0	.0	10
7	.0	.1	.4	.1	.0	5	.0	.0	.7	.3	.0	.0	7
8-9	.0	.0	.3	.3	.0	4	.0	.0	.1	.4	.0	.0	4
10-11	.0	.0	.0	.1	.0	1	.0	.0	.0	.1	.0	.0	1
12	.0	.0	.0	.1	.0	1	.0	.0	.0	.1	.0	.0	1
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
TOTAL	8	51	46	9	0	114	2	35	44	8	0	0	89
PCT	1.1	7.2	6.5	1.3	.0	16.1	.3	4.9	6.2	1.1	.0	.0	12.5

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

JUNE

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	6.5	6.3	.0	.0	.0	.0	96				
1-2	1.9	15.4	10.4	.0	.0	.0	207				
3-4	.8	10.5	13.6	.9	.0	.0	194				
5-6	.1	3.2	12.0	2.0	.1	.0	131				
7	.1	.4	6.3	2.7	.0	.0	71				
8-9	.0	.1	1.9	2.1	.3	.0	33				
10-11	.0	.1	.1	1.1	.0	.0	10				
12	.0	.0	.0	.3	.1	.0	3				
13-16	.0	.0	.0	.4	.0	.0	3				
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				
TOTAL	71	270	332	71	5	0	749				
PCT	9.5	35.0	44.3	9.5	.7	.0	100.0				

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	2.8	16.9	14.6	6.7	1.4	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	3	
6-7	.0	2.2	7.9	8.7	5.2	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	219	4
8-9	.0	.4	3.0	3.2	4.6	2.5	1.1	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134	6
10-11	.0	.0	.7	.2	.7	.8	.5	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	7
12-13	.0	.0	.0	.1	.0	.4	.1	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	10
>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	0	0
INDET	9.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	0
TOTAL	102	166	223	162	101	54	18	6	10	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	847	4
PCT	12.0	19.6	26.3	19.1	11.9	6.4	2.1	.7	1.2	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

JULY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1899-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	THDR	OTHER WEATHER PHENOMENA					TOTAL			
	SHWR	SHWR		PCPN	FRZG	SNOW		OTHER	FRZN			PCPN	AT	OB	TIME	LTNG		PCPN	HAZE	BLWG
N	.1	*	.2	.0	.0	.0	.0	.0	.3	10	.0	1.0	.1	.0	.0	.0	.0	2.3		111
NNE	.1	.0	.2	.0	.0	.0	.0	.0	.2	7	.0	.5	.1	.0	.0	.0	.0	1.3		63
NE	.2	.1	.1	.0	.0	.0	.0	.0	.4	11	.0	.8	.0	.0	.0	.0	.0	2.2		99
ENE	.3	.1	.4	.0	.0	.0	.0	.0	.7	22	.0	.3	.0	.0	.0	.0	.0	1.6		78
E	.4	.0	.7	.0	.0	.0	.0	.0	1.1	34	*	.6	.0	.0	.0	.0	.0	2.6		130
ESE	.7	.0	.5	.0	.0	.0	.0	.0	1.1	34	.0	.8	.0	.0	.0	.0	.0	1.2		93
SE	.7	.0	.7	.0	.0	.0	.0	.0	1.4	41	.0	1.5	.2	.0	.0	.0	.0	2.4		163
SSE	.5	.0	.5	.0	.0	.0	.0	.0	.9	27	.0	1.5	*	*	*	*	*	2.2		139
S	.8	.0	1.0	.0	.0	.0	.0	.0	1.8	54	.0	3.1	*	.0	.0	.0	.0	3.4		251
SSW	.6	*	.8	.0	.0	.0	.0	.0	1.4	43	.0	2.0	.1	.0	.0	.0	.0	3.0		194
SW	.9	*	1.0	.0	.0	.0	.0	.0	1.9	58	.0	3.9	.1	.0	.0	.0	.0	5.0		329
WSW	.6	*	1.0	.0	.0	.0	.0	.0	1.6	48	.0	2.4	.1	*	*	*	5.9		303	
W	.6	.1	1.2	.0	.0	.0	.0	.0	1.8	55	.0	3.7	.2	.0	.0	.0	.0	8.4		428
WNW	.1	.1	.4	.0	.0	.0	.0	.0	.6	18	.0	1.3	.1	.0	.0	.0	.0	4.7		202
NW	.2	*	.1	.0	.0	.0	.0	.0	.4	11	.0	2.2	.2	.0	.0	.0	.0	3.9		199
NNW	.1	*	.1	.0	.0	.0	.0	.0	.2	6	.0	.8	.0	.0	.0	.0	.0	2.9		117
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.1		2
CALM	.1	.0	.2	.0	.0	.0	.0	.0	.3	8	.0	1.3	.0	.0	.0	.0	.0	2.4		119
TOT OBS	203	15	274	0	0	0	0	0	.3	487	1	826	32	2	2	2	1672		3020	
TOT PCT	6.7	.5	9.1	.0	.0	.0	.0	.0	16.1		*	27.4	1.1	.1	.1	.1	55.4		100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ		TOTAL	THDR	OTHER WEATHER PHENOMENA					TOTAL			
	SHWR	SHWR		PCPN	FRZG	SNOW		OTHER	FRZN			PCPN	AT	OB	TIME	LTNG		PCPN	HAZE	BLWG
00003	5.2	.9	7.3	.0	.0	.0	.0	.0	13.1	108	.1	25.8	1.6	.1	.1	.1	.1	59.2		822
06009	5.5	.3	8.0	.0	.0	.0	.0	.0	13.9	104	.0	27.5	1.1	.0	.0	.0	.0	57.5		746
12015	7.4	.3	11.3	.0	.0	.0	.0	.0	18.6	134	.0	22.9	.6	.1	.1	.1	.1	57.7		719
18021	9.1	.5	10.1	.0	.0	.0	.0	.0	19.4	147	.0	32.5	.9	.0	.0	.0	.0	47.1		756
TOT	206	15	277	0	0	0	0	0	16.2	493	1	828	32	2	2	2	1687		3043	
PCT	6.8	.5	9.1	.0	.0	.0	.0	.0	16.2		*	27.2	1.1	.1	.1	.1	55.4		100.0	

JULY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1899-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOURLY (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	1.8	1.0	.2	.0	.0	129	3.6	9.5	3.5	2.5	4.1	2.7	1.9	3.0	4.9	5.2
NNE	.3	1.2	.6	.1	*	.0	84	2.4	10.3	2.8	3.3	2.3	2.7	2.0	3.0	2.0	1.7
NE	.6	2.0	1.4	*	.0	.0	142	4.0	9.2	3.8	7.4	4.8	5.4	2.9	5.2	3.1	4.3
ENE	.3	1.1	1.2	.2	.0	.0	99	2.8	11.7	3.3	.8	2.5	5.4	2.0	2.2	2.9	4.3
E	.3	1.9	1.7	.3	.1	.0	152	4.3	12.0	5.0	2.5	4.4	3.6	4.6	2.2	4.0	1.7
ESE	.3	1.2	1.4	.4	.0	.0	117	3.3	12.8	3.0	.0	3.3	2.7	3.7	4.5	3.5	3.5
SE	.6	1.6	2.7	.6	*	.0	197	5.5	13.0	6.6	3.3	5.3	4.5	4.9	6.7	5.2	6.1
SSE	.3	1.5	1.8	.6	.1	.0	156	4.4	13.5	4.1	2.5	3.7	11.6	3.2	4.5	5.0	7.8
S	.4	2.8	3.6	1.3	.1	*	290	8.1	14.4	8.3	9.0	8.0	8.0	8.5	6.7	8.6	3.5
SSW	.1	1.7	3.4	.7	.1	.0	214	6.0	14.8	5.0	1.6	6.7	8.0	6.0	8.2	6.3	6.1
SW	.6	3.0	5.2	1.7	.2	.0	380	10.6	14.6	11.9	14.8	12.2	8.0	9.4	6.7	9.6	7.8
WSW	.3	3.3	4.4	1.5	.2	.0	344	9.6	14.8	7.9	11.5	8.6	7.1	13.8	9.7	9.4	7.8
W	.8	4.6	6.3	1.7	.1	.0	481	13.5	13.7	14.4	13.9	13.2	13.4	14.4	10.4	11.6	14.8
WNW	.4	2.7	3.0	.6	*	.0	239	6.7	12.6	6.8	13.1	5.2	5.4	7.9	10.4	6.0	4.3
NW	.6	2.8	2.9	.6	*	.0	249	7.0	11.8	7.0	9.0	6.1	8.0	6.0	6.0	7.4	13.0
NNW	.2	1.8	1.7	.3	.0	.0	145	4.1	11.5	2.8	4.1	4.8	2.7	4.0	5.2	4.4	6.1
VAR	.1	.0	.0	.0	.0	.0	2	.1	1.5	.0	.0	.1	.0	.0	.0	.1	.0
CALM	4.3	1248	1511	385	32	1	152	4.3	.0	3.8	.8	4.6	.9	4.6	1.5	5.9	1.7
TOT OBS	395	42.3	385	10.8	.9	*	3572	100.0	12.5	859	122	788	112	647	134	795	115
TOT PCT	11.1	34.9	42.3	10.8	.9	*	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)										HOURLY (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	2.1	3.1	.8	.1	.0	213	6.0	9.8	6.3	5.7	6.3	5.4	3.9	6.0	6.9	7.0
NE	2.4	3.2	1.1	.0	.0	241	6.7	10.2	7.1	8.2	7.4	10.7	4.9	7.5	6.0	8.7
E	1.8	3.6	2.1	.1	.0	269	7.5	12.4	8.0	2.5	7.7	6.3	8.3	6.7	7.5	5.2
SE	2.1	4.7	2.7	.4	*	353	9.9	13.2	10.7	5.7	9.0	16.1	8.2	11.2	10.2	13.9
S	2.0	7.4	3.8	.9	*	504	14.1	14.5	13.3	10.7	14.7	16.1	14.5	14.9	14.8	9.6
SW	3.4	9.0	6.8	1.0	.1	724	20.3	14.7	19.8	26.2	20.8	15.2	23.2	16.4	19.0	15.7
W	3.4	10.6	5.3	.8	.0	720	20.2	13.3	21.2	27.0	18.4	18.8	22.3	24.6	17.6	19.1
NW	2.7	6.3	1.9	.2	.0	394	11.0	11.7	9.8	13.1	10.9	10.7	10.0	11.2	11.8	19.1
VAR	.1	.0	.0	.0	.0	2	.1	1.5	.0	.0	.1	.0	.0	.0	.1	.0
CALM	4.3	1709	873	124	5	152	4.3	.0	3.8	.8	4.6	.9	4.6	1.5	5.9	1.7
TOT OBS	861	24.4	24.4	3.5	.1	3572	100.0	12.5	859	122	788	112	647	134	795	115
TOT PCT	24.1	47.8	24.4	3.5	.1	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) 1944-1969  
(OVER-ALL) 1899-1969

AREA 0008 DUTCH HARBOR  
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TABLE 4

WIND DIR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN	PCT FREQ	TOTAL	
00003	7.8	34.6	41.8	11.1	1.2	.0	3.5	12.5	100.0	981	
06009	6.1	36.4	42.3	10.5	.7	.0	4.1	12.4	100.0	899	
12015	4.0	34.8	44.6	11.3	1.3	.0	4.1	13.3	100.0	781	
18021	8.6	34.1	41.0	10.3	.4	.1	5.4	12.0	100.0	909	
TOT	241	1248	1511	395	32	1	152	12.5		3570	
PCT	6.8	35.0	42.3	10.8	.9	*	4.3		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	6.6			
N	.1	.2	.5	2.9	86	7.4			
NNE	.0	.1	.5	1.7	54	7.5			
NE	.2	.1	.3	2.6	77	7.3			
ENE	.0	.1	.3	2.3	63	7.7			
E	.0	*	.5	3.7	102	7.8			
ESE	.0	.0	.2	3.0	77	7.9			
SE	.1	.2	.5	4.2	119	7.6			
SSE	*	.1	.4	4.1	109	7.7			
S	.1	.1	.8	7.3	198	7.7			
SSW	.1	.0	.6	6.4	169	7.8			
SW	.1	*	.9	8.8	236	7.8			
WSW	.1	.2	1.1	8.7	237	7.7			
W	.2	.1	2.0	11.8	335	7.7			
WNW	*	.1	1.3	5.6	167	7.6			
NW	*	.3	1.7	4.7	159	7.4			
NNW	.3	*	.9	2.8	97	7.2			
VAR	.0	*	.0	*	2	5.5			
CALM	*	*	.4	3.4	92	7.7			
TOT OBS	37	39	306	1997	2379	7.6			
TOT PCT	1.6	1.6	12.9	83.9	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)										TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	
N	.5	*	.0	.7	.8	.7	.1	.0	*	.7	86
NNE	.3	.0	.1	.3	.9	.3	.1	.0	.0	.2	54
NE	.3	*	.1	.5	1.1	.5	*	.0	*	.5	77
ENE	.4	.1	.2	.4	1.1	.2	.1	.0	*	.3	63
E	.8	.1	.2	.9	1.3	.5	.1	*	.0	.3	102
ESE	1.0	.2	.4	.6	.5	.3	.0	.0	.0	.2	77
SE	1.4	*	.2	.8	1.1	.7	.2	*	.0	.6	119
SSE	1.3	.0	.3	1.4	.8	.5	.0	.0	.0	.3	109
S	3.2	.2	.6	1.6	1.0	.8	.3	*	*	.5	198
SSW	2.4	*	.5	1.3	1.7	.4	.1	.0	.0	.6	169
SW	3.1	.3	.4	1.7	2.7	.9	.3	.0	.0	.6	236
WSW	1.7	.3	.8	2.3	2.7	1.3	.3	.0	.0	.6	237
W	2.9	.1	.5	2.7	3.8	2.2	.6	*	.0	.6	335
WNW	1.1	.0	.3	1.1	2.5	1.2	.3	.1	.0	.5	167
NW	1.2	.1	.3	.8	2.0	1.2	.3	.1	.0	.7	159
NNW	.4	*	.1	.7	1.3	.9	.2	.0	.0	.5	97
VAR	.0	.0	*	.0	.0	.0	.0	.0	.0	*	2
CALM	1.1	.0	.1	.5	1.1	.4	.1	.0	.0	.4	92
TOT OBS	547	36	120	436	622	313	73	13	6	205	2379
TOT PCT	23.0	1.5	5.0	18.3	26.1	13.2	3.1	.5	.3	8.6	100.0

JULY

PERIOD: (PRIMARY) 1944-1969  
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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	.3	.4	.5	.5	.5	.6	.6	.6
OR >5000	.7	.9	1.1	1.1	1.1	1.1	1.1	1.1
OR >3500	2.8	3.7	4.2	4.2	4.2	4.3	4.3	4.3
OR >2000	9.2	14.8	16.8	17.2	17.3	17.5	17.6	17.6
OR >1000	19.2	33.3	41.1	42.4	42.8	43.5	43.7	43.7
OR >600	24.0	45.0	57.3	59.6	60.6	61.6	62.0	62.0
OR >300	24.8	47.4	61.3	64.0	65.3	66.5	66.9	66.9
OR >150	24.9	47.9	62.2	64.9	66.4	68.0	68.4	68.4
OR > 0	25.1	49.3	66.0	71.0	75.4	83.3	90.4	91.3
TOTAL	597	1171	1568	1686	1791	1979	2147	2169

TOTAL NUMBER OF OBS: 2375 PCT FREQ NH <5/8: 8.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

C	1	2	3	4	5	6	7	8	TOTAL
.8	1.2	2.5	2.0	2.0	2.9	6.6	8.2	52.7	21.0
									2482

JULY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1899-1969

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TABLE 8

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

VSBY (NM)	N	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
PCP	.0	*	.1	.1	.0	.2	.1	.2	.0	.2	.1	.2	*	.0	*	.0	.0	.0	36	1.2
NO PCP	.4	.2	.2	.3	.5	.8	.8	2.0	1.2	1.8	1.3	1.8	.6	1.0	.4	.0	.0	.8	436	14.5
TOTAL	12	6	10	12	14	30	27	66	35	61	42	60	18	30	13	0	24	472	15.7	
PCP	*	.0	.1	.2	*	.2	*	.2	.2	.2	.1	.2	.0	*	.0	.0	.0	.0	43	1.4
NO PCP	.2	.0	.3	.1	.2	.2	.3	.5	.3	.5	.3	.5	.4	.3	.1	.0	.1	.1	126	4.2
TOTAL	7	0	9	8	6	12	9	20	15	20	11	21	11	10	3	0	3	169	5.6	
PCP	.1	.1	.2	.2	.1	.1	.2	.1	.3	.3	.2	.2	.1	*	.0	.0	.0	.0	65	2.2
NO PCP	.2	.1	.1	.1	*	.3	.1	.4	.5	.6	.3	.6	.1	.3	.1	.0	.1	.1	117	3.9
TOTAL	9	5	3	4	4	12	7	14	25	27	15	22	6	10	2	0	3	182	6.1	
PCP	.2	.1	.1	.6	.6	.4	.3	.6	.4	.5	.4	.6	.2	*	.1	.0	.2	.2	165	5.5
NO PCP	.4	.4	.3	.4	.1	.6	.5	.8	.8	1.9	1.4	1.8	.6	.7	.4	.0	.4	.4	353	11.7
TOTAL	17	13	11	30	22	30	23	43	37	72	54	74	25	21	14	0	19	518	17.2	
PCP	.0	.1	.2	.1	.4	.4	.2	.4	.5	.5	.7	.5	.2	.2	.1	.0	.1	.1	141	4.7
NO PCP	.7	.5	1.1	1.0	.7	.8	1.3	1.4	1.1	2.4	2.7	3.8	2.0	1.6	.9	.0	.8	.8	699	23.2
TOTAL	20	18	38	32	33	34	47	56	49	88	103	127	66	54	30	0	26	840	27.9	
PCP	*	.0	.1	*	*	.1	.1	.3	*	.1	.1	.2	*	.1	.0	.0	.0	.0	34	1.1
NO PCP	1.5	.6	.9	1.2	.4	1.4	.7	1.4	1.0	1.8	2.4	3.9	2.5	2.4	1.8	.1	1.5	792	26.3	
TOTAL	46	19	26	37	14	45	25	51	32	57	74	124	76	73	55	2	44	826	27.5	
TOTAL PCT	111 3.7	63 2.1	59 3.3	129 4.3	93 3.1	163 5.4	138 4.6	250 8.3	193 6.4	325 10.8	299 9.9	428 14.2	202 6.7	198 6.6	117 3.9	2 .1	119 4.0	3007 100.0	100.0	

JULY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1899-1969

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR C	LM TOTAL	PCT		
<1/2	0-3	.1	.1	.0	*	*	.0	*	*	.1	*	.1	.1	*	.1	.1	*	.0	.7	57	1.6	
	4-10	.2	.1	.3	.1	.3	.3	.7	.3	.5	.7	.7	.5	.8	.2	.5	.1	.0	.0	192	5.4	
	11-21	*	*	.1	.1	.4	.6	.7	.6	.9	.6	.7	.6	.7	.2	.3	.3	.0	.0	204	5.8	
	TOTAL	.0	.0	.0	*	.1	.1	.3	.1	.4	.1	.3	.1	.2	*	.3	.0	.0	26	45	1.3	
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	.0	.0	.1	10	.5	
	4-10	.1	.0	.1	.1	.1	.1	.1	.1	.2	.3	.5	.2	.2	.2	.1	.1	.0	.0	58	1.6	
	11-21	.1	.0	.1	*	.1	.1	.1	.1	.3	.3	.5	.1	.4	.1	.1	*	.0	.0	90	2.5	
	TOTAL	.0	.0	.0	.0	.1	.1	.1	*	.1	.1	.1	*	.1	*	.1	.0	.0	3	175	5.0	
1<2	0-3	*	.0	.0	.0	*	.0	*	*	.0	.0	*	.0	.1	.0	*	.0	.0	.1	12	.3	
	4-10	.1	*	.1	.1	.1	.0	.1	.1	.1	.2	.2	.1	.3	.1	.1	*	.0	.0	63	1.8	
	11-21	.1	.1	*	.1	.1	.1	.2	.1	.3	.4	.5	.3	.3	*	.2	*	.0	.0	101	2.9	
	TOTAL	.0	*	.0	*	.1	.1	*	*	.1	.1	.1	.1	.1	*	.1	.0	.0	4	26	.7	
2<5	0-3	.2	.1	.0	.1	.1	.1	.2	.0	.1	.0	.1	.0	.1	.1	.1	.2	.0	.6	61	1.7	
	4-10	.2	.3	.4	.1	.4	.2	.2	.3	.4	.3	.5	.4	.6	.4	.3	.3	.3	.0	187	5.3	
	11-21	.1	.1	.1	.2	.3	.4	.4	.3	.7	.7	1.1	.7	1.0	.3	.3	.2	.0	238	6.7		
	TOTAL	.1	*	*	*	.1	.1	.1	.1	.3	.2	.5	.6	.4	.1	.1	.1	.0	22	589	16.7	
5<10	0-3	.1	.1	.3	.1	.1	.2	.2	.2	.1	*	.1	.1	.2	.2	.2	.0	.0	.9	109	3.1	
	4-10	.4	.3	.4	.3	.6	.4	.4	.3	.8	.5	.7	.9	1.3	.8	.6	.4	.0	.0	317	9.0	
	11-21	.1	.2	.6	.3	.7	.5	.5	.7	.8	.7	1.5	1.8	1.9	.9	.8	.5	.0	.0	426	12.1	
	TOTAL	*	.1	.0	.1	.1	.1	.2	.2	.3	.3	.6	.6	.7	.1	.2	.1	.0	33	129	3.7	
10+	0-3	.2	.2	.4	.2	.4	.4	.5	.5	.6	.5	.7	.6	.7	.1	.2	.1	.0	.0	33	981	27.8
	4-10	.8	.5	.7	.4	.7	.3	.4	.3	.8	.4	.6	.6	1.4	.7	.6	.3	.0	1.8	146	4.1	
	11-21	.6	.3	.5	.5	.3	.2	.7	.3	.9	.7	.9	1.0	1.9	.8	1.3	.7	.0	.0	415	11.8	
	TOTAL	.1	*	.0	.1	.1	.1	.2	.1	.3	*	.2	.3	.4	.4	.2	.1	.0	64	1085	30.7	
TOTAL	PCT	129	83	142	99	151	117	196	155	288	212	373	335	476	233	246	141	2	152	3530	100.0	
		3.7	2.4	4.0	2.8	4.3	3.3	5.6	4.4	3.2	6.0	10.6	9.5	13.5	6.6	7.0	4.0	.1	4.3	100.0		

JULY

PERIOD: (PRIMARY) 1944-1969  
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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 ANY HGT OBS		
	000	150	300	600	1000	2000	3500	5000	6500	8000+		TOTAL	
00003	18.1	1.4	4.2	18.8	25.5	14.6	3.2	1.1	.5	.5	88.0	12.0	623
06009	21.7	1.5	4.1	19.3	26.9	13.2	4.4	.3	.2	.2	91.9	8.1	590
12015	27.7	1.1	3.9	16.3	28.8	12.9	1.9	.2	.2	.4	93.3	6.7	565
18021	24.5	2.0	7.9	18.5	23.2	12.1	2.8	.5	.2	.3	92.0	8.0	611
TOT	548	36	120	436	623	316	74	13	6	8	2180	210	2390
PCT	22.9	1.5	5.0	18.2	26.1	13.2	3.1	.5	.3	.3	91.2	8.8	100.0

TABLE 11

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL				
00003	13.0	4.5	5.3	15.4	22.7	39.1	617				
06009	14.8	4.4	3.9	17.9	25.7	33.2	587				
12015	17.4	4.4	5.2	19.7	28.8	24.5	563				
18021	19.1	4.6	5.8	15.5	25.0	30.1	608				
TOT	381	107	120	405	605	757	2375				
PCT	16.0	4.5	5.1	17.1	25.5	31.9	100.0				

TABLE 12

HOUR (GMT)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR					TOTAL OBS
	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	
00003	18.2	26.3	53.5	35.3	11.2	617
06009	22.0	29.6	56.6	35.6	7.8	587
12015	27.9	34.6	62.2	31.8	6.0	563
18021	24.7	37.7	62.7	30.4	6.9	608
TOT	548	760	1393	791	191	2375
PCT	23.1	32.0	58.7	33.3	8.0	100.0

JULY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1895-1969

AREA 0008 DUTCH HARBR  
51-55N 165-12W

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				
65/69	.0	.0	.0	.0	.0	.1	.2	.3			9	.5
60/64	.0	.0	.0	.1	.2	.5	.6	.6			35	1.8
55/55	.0	.0	.0	.1	.2	1.8	4.0	2.5			166	8.5
50/54	.0	.0	.0	.0	.5	1.8	14.0	16.8			645	33.1
45/49	.0	.0	.0	.0	.2	2.6	15.2	31.0			954	49.0
40/44	.0	.0	.0	.0	.0	.0	1.2	5.8			136	7.0
35/39	.0	.0	.0	.0	.0	.0	.0	.1			1	.1
TOTAL	0	0	0	2	20	131	685	1108			1946	100.0
PCT	.0	.0	.0	.1	1.0	6.7	35.2	56.9				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.0	.0	.1	.2	.1	.0	.1	.0	.0	.1		
	.2	.1	.1	.3	.2	.4	.1	.1	.0	.4		
	.6	1.2	.6	1.2	1.4	.8	.7	.7	.0	.8		
	1.6	2.5	3.0	3.4	5.4	7.7	4.9	2.9	.0	1.6		
	2.8	3.0	4.2	4.1	6.2	10.7	10.6	5.7	.0	1.8		
	.4	.2	.6	.8	.7	.9	1.8	1.2	.0	.4		
	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0		
	107	137	167	193	270	410	355	208	.0	99		
	5.5	7.0	8.6	9.9	13.9	21.1	18.2	10.7	.0	5.1		

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0003	66	62	58	50	45	43	39	50.2			985
0609	66	60	56	49	44	42	40	49.2			897
1205	65	55	53	47	43	41	39	47.6			783
1801	63	57	54	48	43	42	40	48.4			910
TOT	66	60	55	48	44	42	39	48.9			3575

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		
0003	.0	.0	.0	.2	.9	10.4	43.4	45.2	89		
0609	.0	.0	.0	.2	1.6	7.5	35.2	55.5	90		
1205	.0	.0	.0	.0	.8	2.7	29.9	66.6	92		
1801	.0	.0	.0	.0	.7	4.8	31.0	63.4	92		
TOT	0	2	20	20	131	694	1114	90	1961		

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1899-1/69

JULY

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 17

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

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	TOT	W	WU
	40	44	48	52	56	60	64	68	FOG	FOG	FOG
17/19	.0	.0	.0	.0	.0	.1	*	*	4	*	.1
14/16	.0	.0	.0	.1	.4	.3	.1	.1	10	*	.4
11/13	.0	.0	.0	.1	.4	.4	*	*	23	*	.6
9/10	.0	.0	.0	.2	.7	1.3	*	*	26	.1	.9
7/8	.0	.0	.2	.7	1.3	.3	*	*	66	.7	1.9
6	.0	.0	.3	1.0	.9	.1	.0	.0	59	.9	1.4
5	.0	.0	.9	2.0	1.2	.4	.0	.0	113	1.1	3.3
4	.0	.2	2.1	4.6	1.5	.2	.0	.0	219	2.7	5.9
3	.0	.1	1.6	3.8	.8	*	.0	.0	162	2.3	4.1
2	.0	.3	8.5	6.2	1.5	*	.0	.0	421	5.0	11.6
1	.0	.4	4.4	3.7	.6	.0	.0	.0	230	2.3	6.7
0	.0	.8	12.5	5.8	1.0	.0	.0	.0	512	5.5	14.6
-1	*	.7	4.6	2.4	.2	.0	.0	.0	201	2.0	5.9
-2	.0	1.7	5.1	1.6	.0	.0	.0	.0	214	2.4	6.1
-3	.0	.8	2.0	1.1	.0	.0	.0	.0	98	.7	3.1
-4	*	1.3	1.9	.4	*	.0	.0	.0	93	1.0	2.7
-5	*	.9	.9	.1	*	.0	.0	.0	49	.7	1.3
-6	.0	.1	.4	.1	.0	.0	.0	.0	17	.2	.5
-7/-8	.1	.2	.6	.0	.0	.0	.0	.0	21	.2	.6
-9/-10	.0	.1	.1	.0	.0	.0	.0	.0	5	.1	.1
TOTAL	5	192	1176	858	254	46	7	5	2543	718	1825
PCT	.2	7.6	46.2	33.7	10.0	1.8	.3	.2	100.0	28.2	71.8

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 JULY  
 TABLE 18  
 AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

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

HGT	N										TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.5	.5	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	8
1-2	.1	1.3	.1	.0	.0	.0	.0	1.2	.5	.0	.0	.0	13
3-4	.0	.5	.9	.0	.0	.0	.0	.4	1.1	.1	.0	.0	12
5-6	.0	.2	.6	.2	.0	.0	.1	.0	.8	.0	.0	.0	9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.1	.0	.0	.0	.0	.0	.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
TOTAL	5	21	14	3	0	0	2	14	20	1	0	0	43
PCT	.6	2.5	1.7	.4	.0	.0	.2	1.7	2.4	.1	.0	.0	5.1

HGT	E										TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.6	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0	7
1-2	.1	1.1	.9	.0	.0	.0	.0	.9	.7	.0	.0	.0	14
3-4	.0	1.3	2.2	.4	.0	.0	.0	.5	2.5	.2	.0	.0	27
5-6	.0	.2	.7	.2	.0	.0	.0	.4	1.7	.4	.0	.0	20
7	.0	.0	.5	.4	.0	.0	.0	.1	.9	.6	.0	.0	14
8-9	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	.0	.0	3
10-11	.0	.0	.0	.0	.2	.0	.0	.0	.1	.2	.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
TOTAL	1	27	38	11	2	0	2	21	52	14	0	0	89
PCT	.1	3.2	4.5	1.3	.2	.0	.2	2.5	6.1	1.7	.0	.0	10.5

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 JULY  
 TABLE 18  
 AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

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

HGT	S										TOTAL	48+	SW				TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47	48+	1-3	4-10		11-21	22-33	34-47
<1	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.2	.0	.0	.0	.0	.0	.0
1-2	.1	2.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.7	.0	.0	.0	.0	.0
3-4	.0	1.9	3.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.9	3.5	.4	.0	.0	.0	.0
5-6	.0	.0	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.2	1.1	.0	.0	.0	.0
7	.0	.0	2.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.9	1.3	.0	.0	.0	.0
8-9	.0	.0	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.9	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.4	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.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
TOTAL	3	48	81	20	1	0	153	3	45	125	50	0	3	45	125	50	0	0	229	0
PCT	.4	5.7	9.6	2.4	.1	.0	18.0	.4	5.3	14.7	5.9	.7	.4	5.3	14.7	5.9	.7	.0	27.0	.0

HGT	M										TOTAL	48+	NW				TOTAL	GRAND TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47	48+	1-3	4-10			11-21	22-33
<1	.4	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	.0
3-4	.2	2.2	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.1	.0	.0	.0	.0
5-6	.0	.2	3.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.6	.0	.0	.0	.0	.0
7	.0	.2	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
8-9	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.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
TOTAL	5	62	83	16	0	0	156	1	28	21	2	0	1	28	21	2	0	0	52	843
PCT	.6	7.3	9.8	1.9	.0	.0	19.6	.1	3.3	2.5	.2	.0	.1	3.3	2.5	.2	.0	.0	6.1	100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

JULY

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	7.2	5.9	.0	.0	.0	.0	.0	.0	118
1-2	.7	11.8	5.4	.0	.0	.0	.0	.0	161
3-4	.3	9.0	17.1	1.6	.0	.0	.0	.0	252
5-6	.2	2.4	14.5	3.1	.1	.0	.0	.0	184
7	.0	.4	8.5	3.0	.0	.0	.0	.0	108
8-9	.0	.0	1.8	3.0	.0	.0	.0	.0	43
10-11	.0	.0	.4	1.1	.0	.0	.0	.0	14
12	.0	.0	.2	.4	.0	.0	.0	.0	11
13-16	.0	.0	.1	.8	.3	.0	.0	.0	11
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
TOTAL	76	266	434	117	9	0	0	0	902
PCT	8.4	29.5	48.1	13.0	1.0	.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	3-4	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+		
<6	1.5	7.8	14.7	8.0	2.7	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	379	3
6-7	.1	1.7	8.9	8.1	6.4	2.6	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	310	5
8-9	.0	.7	1.7	5.0	4.5	2.0	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166	6
10-11	.0	.0	.4	.6	1.6	1.1	.4	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	7
12-13	.0	.0	.0	.3	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	12.0	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	0
TOTAL	142	107	271	233	164	68	27	12	20	2	0	0	0	0	0	0	0	0	0	0	0	1046	0
PCT	13.6	10.2	25.9	22.3	15.7	6.5	2.6	1.1	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW					OTHER	FRZN PCPN	PCPN	SMOKE	
N	.3	*	.3	.0	.0	.0	.0	.5	12	.0	.5	*	.0	2.7	98
NNE	.3	.0	.2	.0	.0	.0	.0	.4	10	.0	.2	.1	.0	1.1	48
NE	.2	.0	.1	.0	.0	.0	.0	.3	9	.0	.2	*	.0	1.0	43
ENE	.2	*	.3	.0	.0	.0	.0	.5	13	.0	.3	*	.0	.8	43
E	.5	.0	.2	.0	.0	.0	.0	.6	17	.0	.3	.1	.0	2.1	84
ESE	.6	.0	.2	.0	.0	.0	.0	.8	20	.0	.5	.0	.0	1.3	68
SE	.7	*	.5	.0	.0	.0	.0	1.3	33	.0	1.2	.2	.0	2.2	128
SSE	.4	.0	.5	.0	.0	.0	.0	.7	18	.0	1.8	.0	.0	2.2	124
S	1.1	.1	1.0	.0	.0	.0	.0	2.1	55	.0	3.2	.1	.0	4.1	250
SSW	.5	.1	.5	.0	.0	.0	.0	1.0	26	.0	3.0	.1	.0	3.3	193
SW	.7	*	1.3	.0	.0	.0	.0	2.0	52	.0	4.0	.1	.0	5.6	306
WSW	.5	.1	1.0	.0	.0	.0	.0	1.3	34	.0	2.4	.2	.0	6.5	272
W	.8	.1	1.0	.0	.0	.0	.0	1.8	47	.0	2.4	.1	.0	12.6	443
WNW	.2	.0	.3	.0	.0	.0	.0	.5	12	.0	1.1	.0	.0	5.9	195
NW	.3	.0	.1	.0	.0	.0	.0	.3	9	.0	.8	.1	.0	5.4	173
NNW	.1	.0	.2	.0	.0	.0	.0	.3	7	.0	.6	*	.0	2.2	83
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	*	1
CALM	*	.0	.2	.0	.0	.0	.0	.2	5	.0	1.1	*	.0	1.4	73
TOT OBS	194	14	199	0	0	0	0	.2	379	0	623	30	0	1593	2625
TOT PCT	7.4	.5	7.6	.0	.0	.0	.0	14.4		.0	23.7	1.1	.0	60.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				PCPN	FRZG	SNOW					OTHER	FRZN PCPN	PCPN	SMOKE	
0003	5.9	.6	6.1	.0	.0	.0	.0	12.0	84	.0	23.0	1.4	.0	63.6	700
0609	6.9	.3	5.5	.0	.0	.0	.0	12.3	80	.0	24.0	.8	.0	62.9	649
12015	7.7	.8	8.5	.0	.0	.0	.0	15.6	101	.0	20.9	1.1	.0	62.4	647
18021	8.9	.5	10.1	.0	.0	.0	.0	17.6	115	.0	27.0	1.2	.0	54.2	655
TOT	194	14	200	0	0	0	0	.2	380	0	629	30	0	1612	2651
PCT	7.3	.5	7.5	.0	.0	.0	.0	14.3		.0	23.7	1.1	.0	60.8	100.0

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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	00	03	06	09	12	15	18	21
N	.6	1.7	.9	.6	.0	.0	121	3.9	11.7	4.0	4.7	3.4	5.6	3.6	3.6	4.1	4.2
NNE	.2	.8	.6	.3	.0	.0	58	1.8	12.5	1.8	.0	2.0	1.4	1.0	4.5	2.0	4.2
NE	.4	1.0	.4	.1	.0	.0	57	1.8	8.6	2.5	3.5	1.4	1.4	2.0	.0	1.7	4.2
ENE	.2	.9	.4	.1	*	.0	51	1.6	10.5	2.2	2.3	.7	2.8	1.3	3.6	1.4	3.2
E	.3	1.4	.4	.4	*	.0	106	3.4	11.9	2.9	2.3	5.1	1.4	3.6	1.8	2.7	2.1
ESE	.1	.8	1.1	.6	*	.0	82	2.6	15.2	2.6	2.3	1.5	1.4	2.8	5.5	2.6	7.4
SE	.4	2.1	1.8	.6	.2	.0	159	5.1	12.7	4.7	3.5	5.3	7.0	5.4	1.8	5.7	2.1
SSE	.2	1.2	2.2	.8	.1	*	140	4.5	15.2	4.2	4.7	4.4	.0	4.3	5.5	5.0	6.3
S	.7	3.2	3.8	1.4	.3	.0	293	9.3	13.8	9.1	11.6	8.7	5.6	9.9	4.5	10.7	8.4
SSW	.2	2.3	3.3	1.6	.0	.0	234	7.5	15.3	6.9	5.8	7.0	15.5	7.6	9.1	7.4	8.4
SW	.7	3.4	5.8	2.1	.1	.0	382	12.2	14.7	14.4	12.8	11.8	12.7	11.2	10.9	11.6	8.4
WSW	.4	2.6	4.9	1.9	.2	.0	312	9.9	15.8	10.2	10.5	9.0	9.9	9.4	15.5	14.7	13.7
W	.7	5.2	7.2	2.7	.4	.0	507	16.2	14.7	16.1	14.0	16.6	21.1	17.8	15.5	14.7	12.6
WNW	.2	2.3	3.7	1.0	.1	.0	231	7.4	14.4	5.0	7.0	8.6	5.6	8.9	10.0	6.7	10.5
NW	.4	2.7	2.9	.8	*	.0	213	6.8	13.4	7.3	8.1	7.5	7.0	5.4	6.4	7.3	2.1
NNW	.1	1.3	1.0	.6	.0	.0	94	3.0	13.4	3.0	4.7	3.4	1.4	2.6	1.8	3.0	3.2
VAR	*	.0	.0	.0	.0	.0	1	*	2.0	.1	.0	.0	.0	.0	.0	.0	.0
CALM	3.1	1029	1298	487	46	1	96	3.1	13.7	2.9	2.3	3.7	1.4	3.0	.0	3.6	2.1
TOT OBS	276	32.8	41.4	15.5	1.5	*	3137	100.0		758	86	711	71	606	110	700	95
TOT PCT	8.8									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	00	03	06	09	12	15	18	21
N	1.6	2.5	1.4	.2	.0	179	5.7	12.0	5.8	4.7	5.3	7.0	4.6	8.2	6.1	8.4
NE	1.5	1.4	.5	*	.0	108	3.4	9.5	4.7	5.8	2.1	2.8	3.3	3.6	3.1	4.2
E	1.4	2.8	1.5	.3	.0	188	6.0	13.4	5.5	4.7	6.6	2.8	6.4	7.3	5.3	9.5
SE	2.2	4.2	2.7	.4	*	299	9.5	13.9	9.0	8.1	9.7	7.0	9.7	7.3	10.7	8.4
S	2.5	8.8	4.3	1.1	*	527	16.8	14.5	16.0	17.4	15.8	21.1	17.5	13.6	18.1	16.8
SW	3.3	9.4	7.6	1.8	.1	694	22.1	15.2	24.5	23.3	20.8	22.5	20.6	26.4	21.3	22.1
W	3.7	11.4	6.9	1.5	*	738	23.5	14.6	21.1	20.9	25.2	26.8	26.7	25.5	21.4	23.2
NW	1.9	4.8	2.8	.3	.0	307	9.8	13.4	10.3	12.8	10.8	8.5	8.1	8.2	10.3	5.3
VAR	*	.0	.0	.0	.0	1	*	2.0	.1	.0	.0	.0	.0	.0	.0	.0
CALM	3.1	1421	869	177	5	96	3.1	13.7	2.9	2.3	3.7	1.4	3.0	.0	3.6	2.1
TOT OBS	665	45.3	27.7	5.6	.2	3137	100.0		758	86	711	71	606	110	700	95
TOT PCT	21.2								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)					TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	
00003	6.0	33.5	40.5	15.8	1.4	843
06009	6.4	30.7	42.2	16.0	1.3	782
12015	3.9	33.2	44.7	14.4	1.1	716
18021	6.3	33.8	38.6	15.8	2.0	795
TOT	179	1029	1298	487	46	3136
PCT	5.7	32.8	41.4	15.5	1.5	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	8-6	OBSCD	TOTAL OBS		
N	.2	.4	.7	2.5	75	7.0				
NNE	.1	.1	.2	1.3	33	7.1				
NE	.1	.0	.4	1.3	34	7.3				
ENE	.1	.0	.3	.9	23	7.4				
E	.1	.1	.6	2.8	72	7.4				
ESE	.0	.1	.3	2.2	51	7.8				
SE	.2	.2	.8	3.3	86	7.3				
SSE	.0	.2	.6	3.9	91	7.7				
S	.1	.1	1.3	7.6	179	7.7				
SSW	.2	.1	.7	6.1	139	7.6				
SW	.2	.2	2.0	8.1	207	7.5				
WSW	.3	.5	1.5	7.7	196	7.4				
W	.8	.6	4.0	13.3	368	7.3				
WNW	.2	.6	1.9	4.9	150	7.1				
NW	.5	.5	2.3	4.3	149	6.7				
NNW	.3	.3	.7	2.1	66	6.8				
VAR	.0	.0	.0	.1	1	8.0				
CALM	.2	.2	.5	1.7	51	6.7				
TOT OBS	65	76	369	1461	1971	7.3				
TOT PCT	3.3	3.9	18.7	74.1	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 TOTAL OBS									
	000	149	150	299	300	599	600	999	1000	1999		2000	3499	3500	4999	5000	6499	7999	8000+	ANY HGT
N	.6	.1	.1	.2	.2	.8	1.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	75
NNE	.1	.0	.0	.2	.2	.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	33
NE	.3	.1	.1	.2	.4	.4	.4	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.3	34
ENE	.2	.0	.0	.0	.0	.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	23
E	.6	.1	.1	.3	.5	.5	1.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	72
ESE	.6	.1	.1	.2	.4	.4	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	51
SE	1.3	.1	.1	.2	.8	.8	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	86
SSE	1.6	.0	.0	.6	.9	.9	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	91
S	3.7	.1	.1	.7	1.5	1.5	1.5	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	179
SSW	2.6	.3	.3	.6	1.5	1.5	1.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	139
SW	2.8	.3	.3	.6	2.2	2.2	2.1	.3	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.8	207
WSW	2.0	.2	.2	.8	2.0	2.0	2.5	.9	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.8	196
W	2.4	.2	.2	1.3	4.5	4.5	4.0	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.3	368
WNW	1.0	.0	.0	.2	1.4	1.4	2.5	1.1	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	2.4	150
NW	.8	.2	.2	.3	1.2	1.2	1.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	149
NNW	.6	.1	.1	.1	.7	.7	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	66
VAR	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
CALM	.8	.0	.0	.1	.1	.1	.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	51
TOT OBS	434	31	123	375	441	238	61	10	9	4	245	1971								
TOT PCT	22.0	1.6	6.2	19.0	22.4	12.1	3.1	.5	.2	.1	12.4	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 >10		= OR >5		= OR >2		VSBY (NM) = OR >1		= OR >1/2		= OR >1/4		= OR >0	
= OR >6500	.5	.6	1.1	.6	1.2	.6	.7	.7	1.2	.7	1.2	.7	.7	.7
= OR >5000	.9	1.1	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 >3500	2.6	4.0	4.0	4.2	4.2	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	8.8	14.3	14.3	15.6	15.6	16.0	16.0	16.0	16.2	16.2	16.2	16.2	16.2	16.2
= OR >1000	17.4	31.8	31.8	36.5	36.5	37.7	38.2	38.2	38.5	38.5	38.7	38.7	38.7	38.7
= OR >600	23.6	44.5	44.5	53.7	53.7	55.9	56.6	56.6	57.3	57.3	57.6	57.6	57.7	57.7
= OR >300	24.5	47.7	47.7	58.3	58.3	61.5	62.2	62.2	63.3	63.3	63.9	63.9	63.9	63.9
= OR >150	24.6	48.2	48.2	59.1	59.1	62.4	63.5	63.5	64.7	64.7	65.3	65.3	65.4	65.4
= OR > 0	24.8	49.8	49.8	62.4	62.4	67.9	70.6	70.6	78.0	78.0	85.8	85.8	87.5	87.5
TOTAL	489	982	1230	1230	1337	1391	1536	1690	1723	1723	1723	1723	1723	1723

TOTAL NUMBER OF OBS: 1970

PCT FREQ NH <5/8: 12.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	1.7	1.9	3.3	2.6	3.1	3.7	6.5	11.9	45.3	20.1
										2108

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.0	.0	.0	*	*	.0	*	.1	.4	.2	.3	.1	.4	*	.0	.0	.0	.0	44	1.7
	NO PCP	.3	*	.1	.2	.4	.7	.7	1.1	2.4	2.0	2.2	1.4	1.3	.5	.5	.3	.0	.0	371	14.2
	TOTAL	7	1	2	5	5	11	20	30	30	72	58	67	40	44	15	14	9	0	15	415
1/2<1	PCP	*	.0	*	.1	.1	.1	.1	.0	.3	.2	.1	.1	.1	*	*	.0	.0	.0	31	1.2
	NO PCP	.2	*	.1	.1	.1	.4	.7	.1	.3	.2	.7	.4	.2	.2	.1	.1	.0	.0	87	3.3
	TOTAL	5	1	3	4	4	13	13	3	17	10	20	13	6	6	3	3	0	4	118	4.5
1<2	PCP	*	.1	.1	.1	.2	.2	.2	.2	.3	.1	.3	.3	.2	.1	.0	*	.0	.0	61	2.3
	NO PCP	*	.1	.1	.1	*	.2	.3	.3	.3	.3	.8	.5	.6	.2	.1	*	*	.3	108	4.1
	TOTAL	2	5	5	5	6	13	9	13	15	11	29	20	20	9	3	2	1	9	169	6.5
2<5	PCP	.1	.2	.1	.1	.2	.3	.5	.2	.6	.2	.6	.2	.5	.2	.2	.1	.0	.0	114	4.4
	NO PCP	.1	.2	.1	.1	.2	.3	.3	.7	.7	1.1	1.2	1.0	1.8	.8	.7	.2	.0	*	248	9.5
	TOTAL	6	10	4	5	13	20	20	23	34	34	48	33	60	26	22	6	0	6	362	13.9
5<10	PCP	.2	*	.1	.1	.2	.4	.4	.2	.5	.3	.5	.5	.5	*	.1	.1	.0	.0	99	3.8
	NO PCP	.9	.5	.2	.3	.7	1.0	1.0	.8	2.2	1.9	2.7	3.1	5.9	2.1	2.1	1.1	.0	.3	698	26.7
	TOTAL	30	13	8	12	22	26	36	27	71	56	82	95	165	57	57	31	0	9	797	30.5
10+	PCP	*	.0	.1	.0	.1	.1	.1	.0	*	.1	.1	.1	.3	*	.0	*	.0	.0	23	.9
	NO PCP	1.8	.7	.7	.4	1.2	.3	1.1	1.0	1.5	.8	2.1	2.6	5.4	3.0	2.8	1.2	.0	1.1	726	27.8
	TOTAL	47	18	21	11	34	9	30	25	41	24	57	70	147	80	73	32	0	30	749	28.7
TOTAL PCT		97	48	43	43	82	67	128	121	250	193	303	271	442	193	172	83	1	73	2610	100.0
		3.7	1.8	1.6	1.6	3.1	2.6	4.9	4.6	9.6	7.4	11.6	10.4	16.9	7.4	6.6	3.2	*	2.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0008 DIJICH HARBOR  
51-55N 165-172W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	* .1	* .0	* .0	* .1	* .0	* .0	* .1	* .0	.1	.0	* .8	.1	.0	.0	* .2	.0	.0	.5	27	.9
	4-10	.1	* .0	* .1	.1	.1	.1	.4	.2	.8	.8	.8	.5	.6	.3	.2	.1	.0	.0	158	5.2
	11-21	* .0	* .0	* .1	.1	.1	.1	.2	.6	1.1	.7	1.1	.6	.8	.2	.2	.2	.0	.0	181	5.9
	22+	* .0	* .0	* .0	.0	.1	.1	.2	.1	.5	.1	.3	.1	.2	.0	* .0	* .0	* .0	.0	60	2.1
TOTAL	7	1	2	5	5	5	11	23	31	76	60	67	40	46	15	15	10	0	15	429	14.0
1/2<1	0-3	* .1	* .0	* .0	* .0	* .0	* .0	* .0	* .0	.0	.0	.0	.0	.0	* .0	.0	.0	.0	.1	8	.3
	4-10	.0	* .0	.0	.0	.1	.0	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.0	.0	39	1.3
	11-21	* .0	* .0	.0	.1	.0	.0	.1	.0	.2	.1	.5	.3	.2	.0	* .0	* .0	.0	.0	53	1.7
	22+	* .0	* .0	.0	.1	.0	.1	.1	* .0	.1	.1	.1	.1	.1	* .0	.0	* .0	* .0	.0	26	.8
TOTAL	5	1	3	5	4	4	2	13	3	17	11	22	15	9	6	3	3	0	4	126	4.1
1<2	0-3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	.1	.0	* .0	* .0	* .0	.0	* .0	.0	* .0	.3	18	.6
	4-10	.1	* .1	.1	.1	.1	.1	.2	.3	.2	.1	.2	.1	.2	.1	.1	.1	.0	.0	38	1.2
	11-21	* .0	* .0	* .0	.1	.1	.1	.2	.1	.2	.1	.4	.3	.3	.0	* .0	* .0	.0	.0	72	2.3
	22+	* .0	* .0	* .0	.1	.1	.1	.1	.1	.2	.1	.4	.3	.1	.1	.0	* .0	* .0	.0	50	1.6
TOTAL	3	5	5	5	6	5	6	10	14	15	13	30	20	21	10	3	3	1	9	178	5.8
2<5	0-3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	.0	.0	.1	* .0	.1	.0	.1	.1	.0	.2	21	.7
	4-10	.1	.1	.1	.2	.2	.1	.3	.1	.4	.2	.2	.4	.3	.3	.2	.2	.1	.0	90	2.9
	11-21	* .0	* .0	.1	.0	.2	.2	.2	.6	.7	.5	.7	.4	1.1	.4	.4	.0	.0	.0	171	5.6
	22+	* .0	* .0	* .0	.0	.1	.1	.2	.1	.4	.4	.7	.5	.6	.2	.2	.1	.0	.0	109	3.6
TOTAL	6	11	4	6	13	13	13	21	24	35	37	53	38	63	29	23	6	6	391	12.8	
5<10	0-3	* .2	* .2	* .3	* .3	* .1	* .2	* .2	* .1	.2	.1	.3	.1	.2	.1	.1	.1	.0	.6	73	2.4
	4-10	.5	.2	.2	.3	.3	.4	.5	.3	.8	.7	.9	.7	2.0	.4	.9	.3	.0	.0	289	9.4
	11-21	.2	.3	.1	.2	.3	.5	.5	.3	1.2	1.6	1.6	1.9	2.4	1.2	1.0	.4	.0	.0	410	13.4
	22+	.3	.1	.0	.0	.2	.2	.2	.4	.3	.4	.5	.8	1.3	.4	.3	.3	.0	.0	170	5.5
TOTAL	40	17	11	17	31	31	42	42	34	78	67	107	107	183	66	68	34	0	17	942	30.7
10+	0-3	* .3	* .1	* .3	* .3	* .2	* .0	* .1	* .0	.3	.1	.2	.1	.4	.1	.1	.0	.0	1.4	119	3.9
	4-10	.8	.5	.6	.3	.7	.1	.8	.5	.9	.5	1.2	.8	2.1	.4	1.3	.7	.0	.0	388	12.7
	11-21	.6	.1	.1	.1	.6	.2	.5	.4	.7	.7	1.5	1.5	2.5	1.6	1.3	.4	.0	.0	394	12.9
	22+	.2	.1	.0	.0	.1	.1	.1	.1	.1	.1	.4	.4	.8	.4	.4	.1	.0	.0	99	3.2
TOTAL	58	23	30	13	46	12	45	45	29	63	41	98	89	178	100	95	37	0	44	1000	32.6
TOTAL	119	58	55	51	100	75	154	154	135	285	231	373	308	500	226	207	93	1	95	3066	100.0
PCT	3.9	1.9	1.8	1.7	3.3	2.4	5.0	5.0	4.4	9.3	7.5	12.2	10.0	16.3	7.4	6.8	3.0	*	3.1	100.0	

AUGUST

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0006 DUTCH HARBOR  
51-55N 165-172W

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 PCT	TOTAL OBS
00003	17.8	1.9	6.8	16.8	23.2	11.4	3.3	1.0	.2	.4	82.8	17.2	517
06009	19.6	2.0	4.9	22.2	23.8	11.0	2.8	.4	.4	.0	87.0	13.0	509
12015	28.3	.4	6.1	16.6	20.1	12.2	2.9	.4	.8	.0	97.8	12.2	477
18021	22.3	1.8	6.8	19.5	21.1	13.3	3.2	.4	.4	.4	89.3	10.7	497
TOT	438	31	123	376	442	249	61	11	9	4	1734	266	2000
PCT	21.9	1.6	6.2	19.8	22.1	12.6	3.1	.6	.5	.2	86.7	13.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	14.0	3.9	5.1	11.8	27.6	37.6	508
06009	16.3	2.8	5.0	12.9	28.2	34.9	504
12015	19.7	2.8	6.2	13.8	31.4	26.1	471
18021	18.3	1.8	6.0	13.3	27.1	33.5	487
TOT	335	56	109	255	562	653	1970
PCT	17.0	2.8	5.5	12.9	28.5	33.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	18.7	29.9	51.2	33.7	15.2	508
06009	20.2	29.0	57.1	30.8	12.1	504
12015	28.5	36.7	59.7	29.3	11.0	471
18021	22.8	32.0	58.1	33.1	8.8	487
TOT	442	627	1112	625	233	1970
PCT	22.4	31.8	56.4	31.7	11.8	100.0

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AREA 0008 DUTCH HARBOR  
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PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

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	VAR					
65/69	.0	.0	.0	.1	.1	.2	.1	.1	.1	.2	.1	.0	.0	.0
60/64	.0	.0	.0	.1	.2	.2	.6	1.0	.3	.4	.5	.2	.0	.3
55/59	.0	.0	.0	.0	.2	2.7	5.6	7.5	3.2	3.2	4.0	.7	.0	.8
50/54	.0	.0	.0	.0	.5	3.9	21.4	29.8	10.9	13.6	11.6	4.4	.0	1.2
45/49	.0	.0	.0	.0	.1	.9	5.8	18.2	2.6	5.1	7.0	2.9	.0	1.0
40/44	.0	.0	.0	.0	.0	.0	.0	.9	.1	.2	.4	.1	.0	.0
TOTAL	0	0	0	2	20	147	620	1065	320	436	402	152	0	61
PCT	.0	.0	.0	.1	1.1	7.9	33.4	57.4	17.3	23.5	21.7	8.2	.0	3.3

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.2	.1	.2	.1	.0	.0	.0			
.1	.0	.2	.3	.4	.5	.1	.2	.0	.3			
.6	.5	1.3	2.3	3.2	4.0	2.6	.7	.0	.8			
3.2	1.9	3.3	5.6	10.9	13.6	11.6	4.4	.0	1.2			
1.9	1.2	1.3	2.0	2.6	5.1	7.0	2.9	.0	1.0			
.0	.0	.2	.1	.1	.2	.4	.1	.0	.0			
108	67	116	192	320	436	402	152	0	61			
5.8	3.6	6.3	10.4	17.3	23.5	21.7	8.2	.0	3.3			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	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
MAX	69	63	59	52	47	45	43	52.4	852	
99%	61	57	55	50	46	44	43	50.2	795	
95%	57	55	50	46	44	44	43	51.0	795	
50%	51	51	51	51	51	45	43	51.3	3158	
MIN	43	43	43	43	43	43	43	51.6	791	
1%	45	45	45	45	45	45	43	52.4	852	
TOTAL	0	2	2	20	150	624	1070	89	1866	
MEAN	89	90	92	91	90	91	90	90	90	
50%	51	51	51	51	51	45	43	51.6	791	
95%	57	55	50	46	44	44	43	50.2	795	
99%	61	57	55	50	46	44	43	51.0	795	
TOTAL	0	2	20	150	624	1070	89	1866	1866	

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										
HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.2	1.4	1.4	11.8	38.8	47.8	89	508	
06009	.0	.2	1.0	6.6	36.1	56.1	90	488		
12015	.0	.0	.3	6.1	31.0	62.7	92	378		
18021	.0	.0	1.4	7.1	27.2	64.2	91	492		
TOT	0	2	20	150	624	1070	89	1866		

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

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AREA 0000 DUTCH HARBOR  
51-55N 165-172W

TABLE 17

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

AIR-SEA TMP DIF	41	45	49	53	57	61	65	TOT	W	WG
	44	48	52	56	60	64	68	FOG	FOG	FOG
17/19	.0	.0	.0	.0	.0	.0	*	1	.0	*
14/16	.0	.0	.0	.2	.1	*	.0	7	.1	.2
11/13	.0	.0	*	.2	.3	*	*	13	.3	.3
9/10	.0	.0	.4	.1	.1	*	*	18	.2	.6
7/8	.0	.1	.5	.9	.8	*	.0	54	.8	1.6
6	.0	.1	.4	.8	.1	.1	.0	36	.5	1.1
5	.0	.8	1.2	2.3	1.0	.1	.0	125	1.7	3.7
4	.0	1.0	2.2	3.4	.6	.1	.0	169	2.6	4.7
3	.0	.6	2.4	2.5	.4	.0	.0	135	2.0	3.8
2	.1	1.8	6.1	4.1	.5	*	.0	292	3.8	8.8
1	.1	1.6	4.8	3.0	*	.0	.0	221	2.4	7.2
0	.2	4.7	9.8	4.0	.3	.0	.0	438	4.1	14.8
-1	.2	2.2	5.8	1.9	*	.0	.0	236	1.9	8.3
-2	.0	3.5	5.6	.7	.1	.0	.0	229	1.6	3.3
-3	.0	1.7	3.0	.4	.0	.0	.0	118	.8	4.3
-4	*	1.9	2.7	.2	.0	.0	.0	111	1.2	3.6
-5	.1	1.4	1.2	.1	.0	.0	.0	65	.6	2.2
-6	.1	.3	.1	.0	.0	.0	.0	14	*	.6
-7/-8	.2	.6	.2	.1	.0	.0	.0	24	.2	.9
-9/-10	.0	.3	.2	.0	.0	.0	.0	11	.1	.4
TOTAL	24	524	1078	575	102	11	3	2317	574	1743
PCT	1.0	22.6	46.5	24.8	4.4	.5	.1	100.0	24.8	75.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AUGUST  
TABLE 18

AREA 0008 DUTCH HARBDR  
51-55N 165-172W

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

HGT	N					NE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.4	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0	8
1-2	.2	1.0	.5	.0	.0	.0	.0	.4	.1	.0	.0	.0	5
3-4	.0	.2	.4	.0	.0	.0	.0	.2	.5	.0	.0	.0	8
5-6	.0	.1	.7	.2	.0	.0	.0	.0	.1	.0	.0	.0	1
7	.0	.2	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	1
8-9	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.1	.3	.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	.1	.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
TOTAL	2	24	14	9	0	0	3	12	8	0	0	0	23
PCT	.2	2.6	1.5	1.0	.0	.0	.3	1.3	.9	.0	.0	.0	2.5

HGT	E					SE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.1	.7	.0	.0	.0	.0	.3	.8	.0	.0	.0	.0	10
1-2	.1	1.1	.4	.0	.0	.0	.0	.9	.4	.0	.0	.0	12
3-4	.0	.8	1.1	.0	.0	.0	.0	1.1	.9	.4	.0	.0	22
5-6	.0	.0	.9	.5	.1	.0	.0	.0	2.2	.2	.1	.0	23
7	.0	.0	.4	.2	.0	.0	.0	.0	1.1	.4	.0	.0	14
8-9	.0	.0	.3	.1	.1	.0	.0	.0	.1	.0	.0	.0	1
10-11	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	.0	.0	3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2
13-16	.0	.0	.0	.3	.0	.0	.0	.0	.1	.2	.0	.0	3
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
TOTAL	2	23	29	13	2	0	3	25	44	16	1	1	90
PCT	.2	2.5	3.2	1.4	.2	.0	.3	2.7	4.8	1.7	.1	.1	9.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AUGUST  
TABLE 18

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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

HGT	S										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.3	.1	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.8
1-2	.1	2.2	.8	.0	.0	.0	28	.0	2.4	1.7	.0	.0	.0	41
3-4	.2	1.6	2.1	.4	.0	.0	40	.0	1.3	3.8	.0	.0	.0	47
5-6	.0	.7	2.1	.3	.0	.0	28	.0	.9	2.5	.8	.1	.0	39
7	.0	.3	1.1	.3	.0	.0	16	.0	.2	2.3	1.3	.0	.0	35
8-9	.0	.0	.1	.5	.0	.0	6	.0	.0	.9	.4	.2	.0	14
10-11	.0	.0	.0	.5	.2	.0	7	.0	.1	.2	.0	.0	.0	3
12	.0	.0	.2	.2	.1	.0	5	.0	.0	.0	.2	.2	.0	4
13-16	.0	.0	.0	.1	.0	.0	1	.0	.0	.1	.3	.1	.0	5
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.2	.0	.0	3
20-22	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.1	.0	.0	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.2	.0	3
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	3
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	6	45	58	24	3	0	136	0	53	107	32	8	0	203
PCT	.7	4.9	6.3	2.6	.3	.0	14.9	.0	5.8	11.7	3.5	.9	.0	22.2

HGT	W										TOTAL	48+	TOTAL	GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33					34-47
<1	.2	2.1	.0	.0	.0	.0	21	.0	.9	.0	.0	.0	.0	10	72
1-2	.3	2.7	1.5	.0	.0	.0	42	.0	2.0	.1	.0	.0	.0	19	174
3-4	.2	1.7	4.0	.4	.0	.0	63	.0	1.4	1.1	.1	.0	.0	24	234
5-6	.0	.8	4.0	.3	.2	.0	49	.0	.7	2.2	.5	.0	.0	31	192
7	.0	.0	1.6	1.4	.0	.0	28	.0	.1	.4	.1	.0	.0	6	110
8-9	.0	.2	.4	.7	.0	.0	12	.0	.1	.5	.4	.1	.0	11	53
10-11	.0	.0	.7	.7	.3	.0	15	.0	.0	.0	.1	.0	.0	1	35
12	.0	.0	.2	.1	.2	.0	5	.0	.0	.0	.2	.0	.0	0	16
13-16	.0	.0	.0	.4	.0	.0	4	.0	.0	.0	.0	.0	.0	2	19
17-19	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0	4
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	2
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	3
26-32	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0	1
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
TOTAL	7	69	119	38	8	0	241	0	47	40	14	1	0	104	915
PCT	.8	7.5	13.0	4.2	.9	.0	26.3	.0	5.1	4.4	1.5	.1	.0	11.4	100.0

AUGUST

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	TOTAL DBS
<1	5.4	6.2	.0	.0	.0	.0	111
1-2	1.1	12.1	5.0	.0	.0	.0	175
3-4	.6	8.7	13.9	1.4	.0	.0	235
5-6	.0	2.9	13.9	2.8	.5	.0	193
7	.0	.8	7.0	3.7	.0	.0	110
8-9	.0	.3	2.4	2.4	.4	.0	53
10-11	.0	.1	.9	2.1	.5	.0	35
12	.0	.0	.4	.6	.5	.1	16
13-16	.0	.0	.2	1.7	.1	.0	19
17-19	.0	.0	.1	.2	.1	.0	4
20-22	.0	.0	.0	.2	.0	.0	2
23-25	.0	.0	.0	.1	.2	.0	3
26-32	.0	.0	.0	.1	.0	.0	1
33-40	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0
TOTAL	69	298	420	146	23	1	957
PCT	7.2	31.1	43.9	15.3	2.4	.1	100.0

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.2	10.9	13.8	7.6	2.6	.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	399	3
6-7	.0	1.4	4.7	11.3	6.2	2.4	1.4	.6	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	307	5
8-9	.0	.5	.9	3.6	5.1	2.9	1.2	.9	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	174	7
10-11	.0	.0	.3	.4	1.0	2.1	.9	.8	.4	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	66	9
12-13	.0	.0	.0	.0	.0	.7	1.2	.2	.9	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	11
>13	.0	.0	.0	.2	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	12
INDET	6.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	0
TOTAL	76	138	209	245	159	94	54	28	40	5	4	4	2	0	0	0	0	0	0	0	1058	0
PCT	7.2	13.0	19.8	23.2	15.0	8.9	5.1	2.6	3.8	.5	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0	5

SEPTEMBER

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FRZG	PCT SNOW	PCT OTHER	PCT FRZN	PCT PCPN	TOTAL PCPN	TOTAL OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
				FRZG	SNOW	OTHER										FOG	SMOKE	DUST	NO		SIG
N	.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.0	23	.0	.0	.2	.0	.0	.0	5.0	143
NNE	.4	*	.2	.0	.0	.0	.0	.0	.0	.0	.0	.7	15	.0	.0	*	.0	.0	.0	2.4	72
NE	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.0	23	.0	.0	.3	.0	*	.0	2.9	97
ENE	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	27	.0	.0	.3	.0	.0	.0	1.5	68
E	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.5	34	.0	.0	.5	*	.0	.0	2.4	101
ESE	.7	*	.3	.0	.0	.0	.0	.0	.0	.0	.0	.9	20	.0	.0	.3	.0	.0	.0	1.8	69
SE	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.3	29	.0	.0	.6	.0	.0	.0	2.8	108
SSE	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.8	19	.0	.0	1.1	.0	.0	.0	2.4	100
S	.6	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	1.7	39	.0	.0	1.4	.0	.0	.0	3.8	161
SSW	.5	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.8	19	.0	.0	.7	.0	.0	.0	2.7	96
SW	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.2	27	.0	.0	.9	*	.0	.0	4.8	158
WSW	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.9	21	.0	.0	.6	.0	.0	.0	5.8	167
W	.7	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.5	34	.0	.0	.7	*	.0	*	11.8	323
WNW	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7	16	.0	.0	.5	.0	.0	.0	8.5	221
NW	.6	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.0	22	.0	.0	.4	.0	.0	.0	8.2	220
NNW	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	8	.0	.0	.2	*	.0	.0	6.1	152
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.0	.0	.3	*	.0	.0	.9	30
TOT OBS	207	23	154	0	0	0	0	0	0	0	0	16.5	378	0	0	210	8	2	1688	2286	
TOT PCT	9.1	1.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	16.5	100.0	.0	.0	9.2	.3	.1	73.8	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FRZG	PCT SNOW	PCT OTHER	PCT FRZN	PCT PCPN	TOTAL PCPN	TOTAL OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
				FRZG	SNOW	OTHER										FOG	SMOKE	DUST	NO		SIG
00003	7.4	.9	6.5	.0	.0	.0	.0	.0	.0	.0	.0	14.4	93	.0	.0	9.3	.2	.2	.0	76.1	648
06009	8.5	1.1	6.2	.0	.0	.0	.0	.0	.0	.0	.0	15.6	86	.0	.0	10.0	.7	.2	.0	73.5	550
12015	10.6	.7	6.4	.0	.0	.0	.0	.0	.0	.0	.0	17.6	96	.0	.0	6.8	.4	.0	.0	75.3	547
18021	9.9	1.3	7.8	.0	.0	.0	.0	.0	.0	.0	.0	18.8	104	.0	.0	10.8	.2	.0	.0	70.2	554
TOT	208	23	154	0	0	0	0	0	0	0	0	16.5	379	0	0	212	8	2	1698	2299	
PCT	9.0	1.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	16.5	100.0	.0	.0	9.2	.3	.1	.1	73.9	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HAR80R  
51-55N 165-172W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND SPEED (KNOTS)						
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.8	2.1	1.4	.2	.0	166	5.9	16.1	7.2	6.0	5.8	6.9	4.8	2.3	6.4	1.5
NNE	.2	1.1	1.4	.6	.1	.0	96	3.4	14.8	3.5	7.1	3.5	3.4	2.1	3.5	4.0	2.9
NE	.2	1.7	1.6	.8	.1	.0	123	4.4	14.2	4.5	2.4	4.6	3.4	4.4	2.3	5.2	1.5
ENE	.1	.5	1.3	.5	.1	.0	173	2.6	16.3	2.6	1.2	1.9	.0	3.1	3.5	3.1	4.4
E	.3	1.5	1.8	.6	.3	.0	123	4.4	14.7	3.9	4.8	5.3	3.4	3.9	1.2	5.3	1.5
ESE	.1	1.0	1.0	.7	*	*	82	2.9	15.4	3.2	6.0	2.7	5.2	2.5	3.5	2.7	1.5
SE	.1	1.6	2.0	1.0	.4	.0	144	5.2	17.0	6.0	2.4	4.7	3.4	5.2	7.0	4.8	5.9
SSE	.1	1.2	2.1	1.3	.1	.0	132	4.7	16.5	3.5	4.8	5.7	1.7	5.8	1.2	5.0	4.4
S	.1	2.5	2.9	1.1	.5	.0	198	7.1	15.8	7.1	4.8	9.0	3.4	7.7	9.3	5.0	7.4
SSW	.3	1.3	1.6	.7	.1	.0	115	4.1	14.9	3.8	3.6	4.1	3.4	4.0	1.2	5.3	2.9
SW	.5	2.4	3.1	1.1	.1	*	203	7.3	14.0	7.1	4.8	7.1	8.6	7.3	11.6	7.1	8.8
WSW	.2	1.8	4.0	1.0	.1	*	199	7.1	15.6	4.9	11.9	7.2	10.3	7.5	14.0	7.6	5.9
W	.4	4.0	5.9	2.8	.5	.0	382	13.7	15.8	13.5	14.3	13.1	15.5	15.8	18.6	11.9	13.2
WNW	.2	2.2	4.9	1.8	.2	.0	259	9.3	16.7	10.9	8.3	8.0	8.6	10.0	9.3	8.1	11.8
NW	.3	2.5	4.7	1.9	.7	*	279	10.0	17.2	10.2	9.5	10.7	12.1	7.9	8.1	10.0	19.1
NNW	.1	1.8	2.6	1.3	.4	.1	175	6.3	17.5	7.0	8.3	4.9	10.3	6.4	3.5	6.4	7.4
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	808	1207	517	111	8	41	1.5	.0	1.1	.0	1.9	.0	1.5	.0	2.1	.0
TOT OBS	139	29.0	43.3	18.5	4.0	.3	2790	100.0	15.7	718	84	636	58	519	86	621	68
TOT PCT	5.0	29.0	43.3	18.5	4.0	.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)										WIND SPEED (KNOTS)					
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	3.8	2.7	1.1	.1	262	9.4	15.6	10.7	13.1	9.3	10.3	6.9	5.8	10.5	4.4
NE	1.5	2.7	2.3	.5	.1	196	7.0	15.0	7.1	3.6	6.4	3.4	7.5	5.8	8.2	5.9
E	1.4	3.2	2.2	.5	.1	205	7.3	15.0	7.1	10.7	8.0	8.6	6.4	4.7	8.1	2.9
SE	1.2	4.1	3.4	1.1	.1	276	9.9	16.7	9.6	7.1	10.4	5.2	11.0	8.1	9.8	10.3
S	1.6	5.1	3.3	1.0	.1	313	11.2	15.4	10.9	8.3	13.1	6.9	11.8	10.5	10.3	10.3
SW	1.9	7.4	4.1	.9	.1	402	14.4	14.8	12.0	16.7	14.3	19.0	14.8	25.6	14.7	14.7
W	2.4	10.9	7.2	2.3	.2	641	23.0	16.1	24.4	22.6	21.1	24.1	25.8	27.9	20.0	25.0
NW	1.8	7.3	4.7	2.1	.4	454	16.3	17.3	17.1	17.9	15.6	22.4	14.3	11.6	16.4	26.5
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	1242	833	267	30	41	1.5	.0	1.1	.0	1.9	.0	1.5	.0	2.1	.0
TOT OBS	418	44.5	29.9	9.6	1.1	2790	100.0	15.7	718	84	636	58	519	86	621	68
TOT PCT	15.0	44.5	29.9	9.6	1.1	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

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)					PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47		
0000	4.1	27.3	44.3	18.1	5.0	.2	802
0600	4.0	30.3	41.4	18.9	3.3	.4	694
1200	2.0	30.2	44.0	17.9	4.5	.2	605
1800	3.6	28.4	43.4	19.3	3.0	.3	689
TOT	98	808	1207	517	111	.8	2790
PCT	3.5	29.0	43.3	18.5	4.0	.3	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD	9-10	11-12	13-14	15-16		
N	.5	.2	2.1	3.0	117	6.5				
NNE	.1	.2	1.0	1.9	61	7.1				
NE	.2	.3	.7	2.9	79	7.1				
ENE	.1	.1	.3	2.3	53	7.5				
E	.1	.2	.5	3.3	80	7.4				
ESE	.0	.1	.7	2.0	53	7.6				
SE	.1	.2	.8	3.1	81	7.4				
SSE	.2	.1	.8	3.7	91	7.4				
S	.4	.4	1.4	5.5	147	7.1				
SSW	.1	.1	.5	3.3	77	7.5				
SW	.2	.5	1.7	4.3	127	7.1				
WSW	.6	.4	1.7	4.1	130	6.8				
W	.7	1.3	5.3	6.9	275	6.5				
WNW	.7	1.4	4.1	3.6	187	6.1				
NW	.7	1.4	4.1	3.7	189	6.2				
NNW	.3	1.0	2.5	3.3	134	6.5				
VAR	.0	.0	.0	.0	0	.0				
CALM	.0	.2	.3	1.1	30	7.3				
TOT OBS	97	157	542	1115	1911	6.8				
TOT PCT	5.1	8.2	28.4	58.3	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)												TOTAL OBS								
	000	149	150	299	300	599	600	999	1000	1999	2000	3499		3500	4999	5000	6499	7999	8000 - ANY HGT	<5/8 ANY HGT	TOTAL OBS
N	.5	.1	.1	.1	.1	.1	1.4	1.5	.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	117
NNE	.1	.1	.1	.1	.1	.1	.8	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61
NE	.4	.1	.3	.3	.3	.3	1.2	.9	.4	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	79
ENE	.4	.2	.2	.1	.1	.1	.5	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53
E	.6	.2	.3	.3	.3	.3	.8	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60
ESE	.5	.2	.2	.1	.1	.1	.6	.9	.4	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	53
SE	1.2	.0	.1	.1	.1	.1	.5	1.4	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	81
SSE	1.4	.1	.2	.2	.2	.2	.7	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91
S	1.6	.3	.3	.3	.3	.3	1.7	2.0	.6	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	147
SSW	.8	.0	.0	.0	.0	.0	1.1	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77
SW	.9	.1	.2	.2	.2	.2	1.0	2.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127
WSW	.9	.0	.3	.3	.3	.3	1.5	2.0	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130
W	.9	.1	.7	.7	.7	.7	2.7	3.6	2.8	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	275
WNW	.6	.0	.3	.3	.3	.3	1.4	2.7	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187
NW	.4	.0	.4	.4	.4	.4	1.4	2.7	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189
NNW	.3	.1	.3	.3	.3	.3	1.0	2.4	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	134
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.4	.1	.0	.0	.0	.0	.2	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	30
TOT OBS	216	23	78	357	532	234	357	532	234	47	8	47	8	47	8	47	8	47	8	47	1911
TOT PCT	11.3	1.2	4.1	18.7	27.8	12.2	18.7	27.8	12.2	2.5	.4	2.5	.4	2.5	.4	2.5	.4	2.5	.4	2.5	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	= OR >0
OR >6500	.5	.6	.7	.8	.8	.8	.8	.8
OR >5000	.7	.9	1.1	1.2	1.3	1.3	1.3	1.3
OR >3500	2.5	3.3	3.5	3.7	3.7	3.7	3.7	3.7
OR >2000	9.7	14.1	15.4	15.7	15.8	15.9	15.9	16.0
OR >1000	22.8	36.6	42.3	43.4	43.5	43.7	43.8	43.9
OR >600	28.6	50.2	59.4	61.4	62.1	62.4	62.5	62.6
OR >300	29.9	52.8	63.1	65.3	66.1	66.5	66.6	66.7
OR >150	30.1	53.5	64.1	66.4	67.3	67.7	67.8	67.9
OR > 0	30.5	55.7	68.2	72.1	74.3	77.0	78.8	79.1
TOTAL	581	1061	1299	1374	1417	1467	1501	1507

TOTAL NUMBER OF OBS: 1906 PCT FREQ NH <5/8: 20.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)										
	0	1	2	3	4	5	6	7	8	TOTAL
	1.6	2.8	5.5	6.2	5.3	6.4	9.7	13.3	38.7	10.6
										1979

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TABLE 8

IND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION  
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	PER CENT																VAR	C	LM	TOTAL	PCT
	N	NNE	NE	ENE	E	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW						
<1/2	PCP	* .0	* .0	* .0	* .1	* .0	* .0	* .1	* .1	* .0	* .0	* .3	* .0	* .0	* .0	* .0	.0	.0	.13	.6	
	NO PCP	.1	.0	.1	.1	.2	.6	.8	.3	.4	.4	.3	.2	.2	.2	.2	.2	.2	.2	.103	4.5
	TOTAL	4	0	3	4	6	9	14	21	9	11	9	8	5	5	1	1	0	4	116	5.1
1/2<1	PCP	.2	.0	* .0	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .1	* .0	* .0	.26	1.1	
	NO PCP	* .1	.0	.1	.0	* .1	.1	.1	.3	.1	.3	.3	.2	.2	.1	.0	.0	.0	.44	1.9	
	TOTAL	6	2	1	3	6	3	3	7	8	5	9	5	5	3	1	0	0	70	3.1	
1<2	PCP	.1	* .2	* .1	.2	.2	.1	.2	.1	.1	.1	* .1	* .1	* .1	* .1	* .0	* .0	* .0	.46	2.0	
	NO PCP	* .3	* .1	.1	.1	.1	.1	.2	.1	* .0	.3	.3	.2	.5	.2	* .1	* .0	.2	.51	2.2	
	TOTAL	3	2	8	7	8	5	9	4	4	2	8	5	5	8	1	0	5	97	4.3	
2<5	PCP	.2	.3	.4	.4	.2	.4	.6	.3	.6	.6	.4	.2	.2	.4	.1	.0	.0	.123	5.4	
	NO PCP	.3	.2	.5	.1	.2	.4	.9	.8	.7	.7	1.1	.7	.7	.7	.6	.0	.0	.193	8.5	
	TOTAL	11	11	21	12	15	21	34	25	29	29	35	19	19	24	16	0	1	316	13.9	
5<10	PCP	.3	.3	.3	.4	.4	.4	.7	.3	.3	.3	.7	.4	.4	.3	.1	.0	.0	.138	6.1	
	NO PCP	1.8	.9	1.1	.4	.5	1.0	1.3	.9	1.7	2.3	4.4	2.8	3.0	2.0	.0	.0	.3	598	26.3	
	TOTAL	47	27	31	19	37	32	44	27	45	64	117	72	75	48	0	0	6	736	32.4	
10+	PCP	.1	* .0	* .0	* .1	* .1	* .1	* .2	.0	.1	.1	.2	.1	.1	.1	* .0	* .0	.0	.32	1.4	
	NO PCP	3.0	1.3	1.4	.9	1.1	1.2	2.0	1.1	2.6	2.8	6.2	5.0	4.6	3.6	.0	.0	.6	908	39.9	
	TOTAL	71	30	32	22	29	31	50	24	61	66	145	115	107	84	0	0	14	940	41.3	
TOTAL PCT	142	72	96	67	100	98	161	96	158	166	322	221	218	151	0	0	30	2275	100.0		
	6.2	3.2	4.2	2.9	4.4	4.3	7.1	4.2	6.9	7.3	14.2	9.7	9.6	6.6	.0	.0	1.3	100.0			

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
<1/2	0-3	.0	.0	*	*	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	.0	.0	.0	.1	9	.3
	4-10	.1	.0	.1	.1	.1	.1	*	.2	.3	.1	.2	.1	.1	.1	*	.0	.0	.0	46	1.7
	11-21	*	.0	.0	.0	.1	.1	.3	.1	.4	.1	.1	.1	.1	.1	.0	*	.0	.0	49	1.8
	22+	*	.0	.0	*	.1	.0	.1	.1	*	.1	*	.1	.1	.0	.0	.0	.0	.0	18	.7
TOTAL	4	0	4	4	4	8	5	11	15	22	9	11	9	9	5	1	1	0	4	122	4.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	*	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1	.1	.1	.0	*	.0	.0	.0	20	.7
	11-21	.0	*	.0	.1	.1	.0	.1	.1	.1	*	.1	.1	.1	.1	.1	.0	.0	.0	28	1.0
	22+	.2	.0	*	*	*	.0	.1	.0	*	.1	*	*	.2	.1	*	.0	.0	.0	28	1.0
TOTAL	6	2	1	3	6	6	2	6	3	3	7	8	6	11	6	4	2	0	0	76	2.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	5	.2
	4-10	*	.0	*	.0	.1	.0	.1	*	.1	.0	.1	*	.0	*	.0	*	.0	.0	18	.7
	11-21	.0	.1	.2	.1	*	.2	.2	*	.2	.1	*	.1	.1	.1	.1	.0	.0	.0	41	1.5
	22+	.1	.0	.1	.2	.1	.1	.2	.2	.1	.1	*	.0	.1	.1	.3	.0	.0	.0	45	1.6
TOTAL	3	3	8	7	6	6	9	14	7	10	4	5	3	8	6	10	1	0	5	109	3.9
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	4	.1
	4-10	.1	.2	.2	.1	.2	.1	.3	.1	.5	.3	.2	.1	.4	.1	.1	.2	.0	.0	86	3.1
	11-21	.1	.2	.3	.2	.3	.1	.4	.3	.3	.5	.4	.5	.5	.3	.2	.2	.0	.0	132	4.8
	22+	.2	.1	.4	.2	.1	.1	.3	.2	.6	.1	.5	.2	.6	.3	.6	.6	.2	.0	127	4.6
TOTAL	14	14	23	13	15	15	9	25	16	39	26	29	24	40	19	25	17	0	1	349	12.6
5<10	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	41	1.5
	4-10	.3	.3	.5	.1	.3	.1	.4	.2	.6	.3	.5	.6	2	.2	.6	.6	.8	.0	204	7.4
	11-21	.7	.4	.6	.4	.7	.4	.3	.7	.7	.5	1.0	1.4	2.1	1.4	1.9	.8	.0	.0	386	14.0
	22+	.7	.3	.3	.2	.4	.5	.4	.5	.7	.3	.4	.4	1.1	.8	.9	.7	.0	.0	232	8.4
TOTAL	51	31	37	20	41	41	25	33	39	54	32	57	68	128	80	96	60	0	11	863	31.2
10+	0-3	.2	.1	.2	*	.2	*	.1	*	*	.1	.4	.1	.3	*	.2	.1	.0	.7	77	2.8
	4-10	1.3	.5	.9	.3	.8	.6	.8	.6	1.0	.8	1.3	.8	2.1	1.4	1.7	1.0	.0	.0	428	15.5
	11-21	1.2	.7	.5	.5	.5	.7	.7	.8	1.3	.6	1.4	1.7	2.9	3.0	2.3	1.6	.0	.0	560	20.2
	22+	.5	.3	.1	*	.2	.1	.4	.3	.2	.2	.3	.4	1.2	.8	.9	.8	.0	.0	183	6.6
TOTAL	87	46	49	25	46	46	32	55	48	70	35	93	86	181	142	141	93	0	19	1248	45.1
TOTAL	165	96	122	72	122	122	82	144	128	198	113	203	196	377	258	277	174	0	40	2767	100.0
PCT	6.0	3.5	4.4	2.6	4.4	4.4	3.0	5.2	4.6	7.2	4.1	7.3	7.1	13.6	9.3	10.0	6.3	.0	1.4	100.0	

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
0000	149	299	599	999	1999	3499	4999	6499	7999				
0000	8.6	1.3	3.3	16.7	25.3	11.4	4.0	.4	.6	1.1	72.7	27.3	545
0600	12.2	1.1	4.6	17.7	30.9	12.6	2.1	.4	.2	.4	82.3	17.7	475
1200	13.4	.7	3.2	22.3	25.7	11.6	1.6	.2	.0	.0	78.6	21.4	440
1800	11.3	1.7	5.2	17.7	27.9	12.7	1.9	.6	.4	.8	80.2	19.8	480
TOT	218	23	79	358	532	234	48	8	6	12	1518	422	1940
PCT	11.2	1.2	4.1	18.5	27.4	12.1	2.5	.4	.3	.6	78.2	21.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
0000	4.7	2.6	5.3	11.1	21.3	55.0	531
0600	5.0	1.7	3.4	13.1	31.7	45.0	464
1200	3.7	2.1	4.6	14.1	37.3	38.2	434
1800	5.5	2.5	3.4	14.3	27.0	47.4	477
TOT	90	43	80	249	551	893	1906
PCT	4.7	2.3	4.2	13.1	28.9	46.9	100.0

TABLE 12

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

HOUR (GMT)	< 150 < 50YD	< 600 < 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
0000	9.4	14.9	39.0	35.8	25.2
0600	12.1	18.5	42.9	41.4	15.7
1200	13.6	18.9	47.5	32.3	20.3
1800	11.5	19.7	44.7	36.9	18.4
TOT	220	341	825	698	383
PCT	11.5	17.9	43.3	36.6	20.1

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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				
65/69	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
60/64	.0	.0	.1	.1	.2	.4	.5	.1	.1	.1	23	1.4
55/59	.0	.0	.1	.1	.5	2.8	3.0	2.2	2.2	2.2	143	8.6
50/54	.0	.0	.0	.2	3.0	6.2	16.9	15.3	15.3	15.3	695	41.6
45/49	.0	.0	.0	.2	.8	7.8	14.7	18.9	18.9	18.9	708	42.4
40/44	.0	.0	.0	.0	.5	.8	2.0	2.5	2.5	2.5	98	5.9
35/39	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	2	.1
TOTAL	0	0	2	9	84	301	622	652	652	652	1670	100.0
PCT	.0	.0	.1	.5	5.0	18.0	37.2	39.0	39.0	39.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.1	.2	.4	.2	.2	.2	.1	.0	.0	.0	.0
	.4	.1	1.1	1.5	1.8	1.9	1.0	.6	.0	.0	.0	.1
	3.0	3.0	3.2	5.3	6.4	7.5	8.2	4.1	.0	.0	.0	.8
	5.0	3.2	3.5	2.2	2.6	4.4	11.1	9.7	.0	.0	.0	.7
	.8	.6	.4	.2	.0	.5	1.9	1.4	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
	156	118	141	161	184	243	374	267	.0	.0	.0	26
	9.3	7.1	8.4	9.6	11.0	14.6	22.4	16.0	.0	.0	.0	1.6

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 OBS		
00003	65	60	57	51	45	43	39	50.8	801	84	499
06009	63	58	55	49	45	43	41	49.5	693	87	437
12015	59	56	54	48	44	42	38	48.6	604	88	327
18021	64	57	55	49	44	42	39	49.1	688	87	412
TOT	65	59	55	50	45	42	38	49.6	2786	86	1675

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		
00003	65	60	57	51	45	43	39	50.8	801	84	499
06009	63	58	55	49	45	43	41	49.5	693	87	437
12015	59	56	54	48	44	42	38	48.6	604	88	327
18021	64	57	55	49	44	42	39	49.1	688	87	412
TOT	65	59	55	50	45	42	38	49.6	2786	86	1675

PERIOD: (PRIMARY) 1943-1969  
 (OVER-ALL) 1900-1969

SEPTEMBER

AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

TABLE 17

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

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.2	.0	5	.1	.2
11/13	.0	.0	.0	.0	.1	.2	.1	6	.1	.2
9/10	.0	.0	.0	.2	.3	.2	.2	15	.2	.7
7/8	.0	.0	.1	.5	.6	.2	.0	25	.0	1.4
6	.0	.0	.3	.5	.7	.4	.0	35	.4	1.5
5	.0	.0	.3	.8	.9	.6	.0	47	.3	2.3
4	.0	.2	.8	1.6	2.0	.1	.0	86	.8	3.9
3	.0	.1	.6	2.5	1.8	.0	.0	90	.4	4.5
2	.0	.1	2.5	5.4	2.6	.2	.0	198	1.8	9.0
1	.0	.0	4.0	4.3	1.7	.1	.0	184	1.2	8.8
0	.0	.3	5.9	9.2	1.7	.0	.0	315	2.1	15.1
-1	.0	.8	4.3	5.3	.4	.0	.0	198	.5	10.3
-2	.0	.8	5.8	6.3	.8	.0	.0	250	.8	12.8
-3	.0	.5	2.2	2.1	.4	.0	.0	95	.5	4.7
-4	.1	.7	4.0	2.3	.1	.0	.0	132	.4	6.8
-5	.0	.6	2.2	.7	.1	.0	.0	66	.1	3.5
-6	.0	.1	1.0	.1	.0	.0	.0	23	.1	1.1
-7/-8	.1	.8	1.1	.2	.1	.0	.0	42	.1	2.2
-9/-10	.0	.5	.2	.2	.0	.0	.0	17	.0	.9
-11/-13	.1	.0	.1	.1	.0	.0	.0	4	.0	.2
TOTAL	3	99	650	776	261	40	4	1833	180	1653
PCT	.2	5.4	35.5	42.3	14.2	2.2	.2	100.0	9.8	90.2

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969

SEPTEMBER  
 TABLE 18

AREA 0009 DUTCH HARBOR  
 51-55N 165-172W

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.2	.4	.0	.0	.0	.0	.5	.0	.4	.0	.0	.0	.0	3	
1-2	.2	1.0	.6	.0	.0	.0	15	.0	.7	.7	.0	.0	.0	12	
3-4	.2	1.2	1.1	.0	.0	.0	21	.0	.2	.4	.0	.0	.0	7	
5-6	.0	.4	1.2	.7	.0	.0	19	.0	.6	.6	.2	.0	.0	7	
7	.0	.0	1.0	.6	.1	.0	14	.0	.1	.7	.1	.1	.0	9	
8-9	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.1	.0	.0	1	
10-11	.0	.0	.0	.1	.1	.0	2	.0	.0	.0	.2	.1	.0	3	
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.1	.0	.0	1	
17-19	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.1	.0	.0	1	
20-22	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	6	24	32	15	4	0	81	0	12	20	10	2	0	44	
PCT	.7	2.9	3.9	1.8	.5	.0	9.8	.0	1.5	2.4	1.2	.2	.0	5.3	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.0	.1	.0	.0	.0	.0	1	.0	.1	.0	.0	.0	.0	1	
1-2	.1	.6	.4	.0	.0	.0	9	.0	.7	.1	.0	.0	.0	7	
3-4	.0	.8	.7	.1	.0	.0	14	.0	1.5	.6	.1	.0	.0	18	
5-6	.0	.5	1.5	.6	.0	.0	21	.0	.5	1.2	.6	.0	.0	19	
7	.0	.1	.2	.0	.2	.0	5	.0	.0	.8	.4	.0	.0	10	
8-9	.0	.0	.4	.1	.1	.0	5	.0	.0	.0	.6	.4	.0	8	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	1	
12	.0	.1	.0	.0	.0	.0	1	.0	.0	.0	.1	.0	.0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.0	.0	.0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	2	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	19	26	7	3	0	56	0	23	26	17	3	0	69	
PCT	.1	2.3	3.2	.8	.4	.0	6.8	.0	2.8	3.2	2.1	.4	.0	8.4	

SEPTEMBER

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

TABLE 18

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

HGT	S					SW					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	4
1-2	.0	.6	.2	.0	.0	.0	.0	.6	1.3	.0	.0	.0	16
3-4	.0	1.2	1.5	.0	.0	.0	.1	1.6	2.5	.0	.0	.0	36
5-6	.0	.5	1.5	.1	.0	.0	.0	.5	2.4	.0	.0	.0	24
7	.0	.0	1.0	.8	.0	.0	.0	.0	1.0	.6	.0	.0	13
8-9	.0	.0	.1	.2	.1	.0	.0	.0	.6	.4	.0	.0	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1
12	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	2
17-19	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1
23-25	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1
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
TOTAL	.0	2.8	4.5	1.2	.5	.0	.1	3.2	7.9	1.8	.0	.0	107
PCT	.0	2.8	4.5	1.2	.5	.0	.1	3.2	7.9	1.8	.0	.0	13.0

HGT	M					NW					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.2	.8	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	3
1-2	.1	3.3	3.2	.0	.0	.0	.1	1.8	1.1	.0	.0	.0	25
3-4	.0	1.7	4.9	.7	.0	.0	.0	1.9	3.5	.4	.0	.0	48
5-6	.0	.7	4.9	.8	.0	.0	.0	.4	2.8	.6	.0	.0	31
7	.0	.0	1.7	.7	.0	.0	.0	.0	1.3	.6	.2	.0	18
8-9	.0	.0	.8	1.6	.1	.0	.0	.0	.5	1.0	.1	.0	13
10-11	.0	.0	.0	.4	.1	.0	.0	.1	.5	.2	.0	.0	7
12	.0	.0	.1	.2	.0	.0	.0	.0	.0	.4	.0	.0	5
13-16	.0	.0	.0	.4	.1	.0	.0	.0	.0	.6	.1	.0	13
17-19	.0	.0	.0	.4	.1	.0	.0	.1	.0	.0	.1	.0	6
20-22	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	2
23-25	.0	.0	.0	.1	.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
TOTAL	.3	5.4	12.8	4.4	.6	.0	.1	3.9	8.0	3.1	.7	.0	158
PCT	.4	6.6	15.5	5.3	.7	.0	.1	4.7	9.7	3.8	.8	.0	19.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

SEPTEMBER

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+	
<1	1.4	3.1	.0	.0	.0	.0	.0	.0	.0	.0	38
1-2	.7	9.2	7.6	.0	.0	.0	.0	.0	.0	.0	146
3-4	.5	10.1	15.0	1.7	.0	.0	.0	.0	.0	.0	227
5-6	.0	3.4	15.8	3.7	.0	.0	.0	.0	.0	.0	191
7	.0	.2	7.7	3.8	.7	.0	.0	.0	.0	.0	104
8-9	.0	.0	2.4	4.0	1.0	.0	.0	.0	.0	.0	61
10-11	.0	.1	.6	1.1	.4	.0	.0	.0	.0	.0	18
12	.0	.1	.2	.8	.4	.0	.0	.0	.0	.0	13
13-16	.0	.0	.2	1.4	.2	.0	.0	.0	.0	.0	16
17-19	.0	.1	.1	.7	.2	.0	.0	.0	.0	.0	10
20-22	.0	.0	.0	.5	.4	.0	.0	.0	.0	.0	7
23-25	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	2
26-32	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1
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
TOTAL	22	220	414	149	29	0	0	0	0	0	834
PCT	2.6	26.4	49.6	17.9	3.5	.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)															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	1.0	6.3	14.6	8.7	2.7	.8	1.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	327	3
6-7	.0	1.2	6.0	10.1	7.8	3.2	2.3	.4	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	295	6
8-9	.0	.3	.9	2.8	4.7	3.2	1.2	1.0	1.8	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	153	8
10-11	.0	.1	.1	.2	1.4	2.5	.8	.4	.8	.3	.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	69	10
12-13	.0	.0	.2	.1	.1	.5	.3	.5	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	10
>13	.0	.0	.0	.0	.4	.1	.0	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
INDET	3.5	.1	.0	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	1
TOTAL	41	74	200	205	161	96	51	26	37	13	12	2	1	0	0	0	0	0	0	0	0	919	5
PCT	4.5	8.1	21.8	22.3	17.5	10.4	5.5	2.8	4.0	1.4	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0006 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG WO	SMOKE HAZE	DUST BLWG	DUST SNOW	SIG WEA	
N	.2	.0	.5	.0	.1	.0	.0	.7	12	.0	.1	.1	.0	.1	5.8	114
NNE	.1	.1	.1	.0	.0	.0	.0	.3	5	.0	.1	.2	.0	.0	2.8	59
NE	.3	.1	.4	.0	.1	.0	.0	1.0	17	.0	.0	.1	.0	.0	1.8	50
E:NE	.5	.1	.2	.0	.0	.0	.0	.7	13	.0	.0	.0	.0	.0	1.7	43
E	.8	.0	.5	.0	.1	.0	.0	1.4	24	.0	.1	.1	.0	.0	1.6	55
ESE	.9	.0	.2	.0	.0	.0	.0	1.0	18	.0	.0	.0	.0	.0	1.4	42
SE	1.0	.0	.4	.0	.0	.0	.0	1.4	25	.0	.1	.2	.0	.0	1.5	56
SSE	.4	.0	.5	.0	.0	.0	.0	.9	15	.0	.1	.1	.0	.0	1.6	45
S	1.0	.1	.4	.0	.0	.0	.0	1.5	26	.0	.3	.1	.1	.1	3.0	86
SSW	1.2	.1	.4	.0	.0	.0	.0	1.6	28	.0	.1	.0	.1	.1	2.4	72
SW	.9	.4	1.2	.0	.0	.0	.0	2.3	40	.0	.3	.1	.0	.0	5.3	140
WSW	.3	.5	.3	.0	.0	.0	.0	1.3	22	.0	.1	.1	.0	.0	5.8	125
W	1.6	.7	.7	.0	.1	.0	.1	3.1	53	.0	.3	.1	.1	.1	15.3	327
WNW	.6	.4	.2	.0	.3	.1	.1	1.7	30	.0	.2	.0	.0	.1	10.1	208
NW	.7	.3	.2	.0	.0	.0	.1	1.3	23	.0	.2	.0	.1	.1	9.0	184
NNW	.3	.2	.0	.0	.1	.0	.0	.6	11	.0	.1	.0	.0	.0	6.2	120
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.1	.0	.0	.0	.0	.0	.1	2	.0	.0	.1	.0	.0	.4	10
TOT OBS	191	48	105	0	11	2	14	.1	364	0	36	18	4	1314	1736	
TOT PCT	11.0	2.8	6.0	.0	.6	.1	.8	21.0	.0	2.1	1.0	.2	.2	75.7	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OBS TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG WO	SMOKE HAZE	DUST BLWG	DUST SNOW	SIG WEA	
0000	10.8	3.7	7.1	.0	.2	.2	.4	21.4	105	.0	3.1	1.4	.0	.0	74.1	490
0600	13.9	1.9	4.7	.0	.2	.0	1.2	21.9	93	.0	2.8	.9	.9	.0	73.4	425
1200	9.7	1.7	5.2	.0	.7	.2	.7	17.9	76	.0	.7	.7	.0	.0	80.7	424
1800	9.6	3.7	6.9	.0	1.5	.0	1.0	22.3	91	.0	1.7	1.0	.0	.0	75.0	408
TOT	192	48	105	0	11	2	14	20.9	365	0	37	18	4	1323	1747	
PCT	11.0	2.7	6.0	.0	.6	.1	.8	20.9	.0	2.1	1.0	.2	.2	75.7	100.0	

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										48+	TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY HOUR						
	0-3	4-10	11-21	22-33	34-47	HOURLY (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	.3	1.7	2.2	2.0	.7	* .7	164	6.8	18.8	5.7	4.0	7.5	7.0	7.0	9.1	6.5	11.8				
NNE	.1	.7	1.2	1.0	.3	* .3	81	3.4	19.7	3.1	1.3	2.9	.0	3.5	4.0	4.0	8.2				
NE	.2	.7	1.1	.9	.3	.0	74	3.1	18.5	2.9	6.7	3.5	7.0	2.5	4.0	2.3	1.2				
ENE	.0	.6	.6	.6	.3	.0	51	2.1	20.8	1.5	2.7	1.9	1.2	3.5	1.0	2.5	1.2				
E	.#	.5	.7	.8	.7	.1	69	2.9	24.3	2.6	4.0	3.3	1.2	2.0	6.1	2.9	3.5				
ESE	.0	.6	.5	.7	.3	.1	55	2.3	23.1	2.0	12.0	1.3	3.5	2.0	2.0	2.3	2.4				
SE	.2	.9	.9	1.1	.4	.0	85	3.5	18.5	4.2	1.3	4.4	4.7	2.5	2.0	2.9	4.7				
SSE	.#	.4	.9	.7	.1	.0	51	2.1	19.1	2.3	2.7	2.9	2.3	2.2	1.0	1.5	.0				
S	.1	1.3	1.7	.9	.4	.1	109	4.5	17.8	3.3	6.7	4.2	2.3	6.5	1.0	5.7	3.5				
SSW	.3	1.4	1.6	1.1	.3	.0	114	4.7	16.8	5.2	1.3	4.0	2.3	4.2	4.0	5.7	8.2				
SW	.6	1.8	4.3	2.1	.5	* .5	228	9.5	17.4	11.4	10.7	9.8	4.7	8.0	6.1	9.9	5.9				
WSW	.1	1.5	2.9	1.2	.5	.2	180	7.5	20.5	19.8	16.0	16.0	8.1	7.2	11.1	7.4	10.6				
W	.5	2.4	7.8	4.5	1.1	.2	409	17.0	19.8	19.8	16.0	16.0	15.1	16.9	15.2	16.5	11.8				
WNW	.3	1.5	4.4	3.6	1.0	.3	269	11.2	20.8	10.8	9.3	11.6	14.0	11.4	12.1	11.2	8.2				
NW	.3	2.4	4.7	4.5	.5	* .5	298	12.4	19.0	11.1	12.0	12.5	16.3	12.9	13.1	12.4	14.1				
NNW	.#	1.1	2.6	1.7	.6	.1	148	6.2	20.7	6.5	6.7	5.6	9.3	7.0	8.1	5.1	3.5				
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.8	468	919	693	195	32	19	.8	.0	.5	.0	.0	1.2	.7	.0	1.3	1.2				
TOT OBS	97	468	919	693	195	32	2404	.8	19.4	612	75	519	86	402	99	526	85				
TOT PCT	4.0	19.5	38.2	28.8	8.1	1.3	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 OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY HOUR						
	0-6	7-16	17-27	28-40	41+	HOURLY (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	1.2	3.7	3.0	2.2	.1	245	10.2	19.1	8.8	5.3	10.4	7.0	10.4	13.1	10.5	20.0				
NE	.6	1.9	1.2	1.2	.2	125	5.2	19.4	4.4	9.3	5.4	8.1	6.0	5.1	4.8	2.4				
E	.3	1.7	1.2	1.4	.6	124	5.2	23.8	4.6	16.0	4.6	4.7	4.0	8.1	5.1	5.9				
SE	.7	2.0	1.9	1.0	.1	136	5.7	18.8	6.5	4.0	7.3	7.0	4.7	3.0	4.4	4.7				
S	1.2	3.6	2.8	1.5	.2	223	9.3	17.3	8.5	8.0	8.3	4.7	10.7	5.1	11.4	11.9				
SW	2.1	5.7	6.0	2.3	.8	408	17.0	18.8	18.5	13.3	17.5	12.8	15.2	17.2	17.3	16.5				
W	1.9	8.4	12.2	4.9	.8	678	28.2	20.2	30.6	25.3	27.6	29.1	28.4	27.3	27.8	20.0				
NW	1.3	6.2	7.2	3.5	.4	446	18.6	19.6	17.6	18.7	18.1	25.0	19.9	21.2	17.5	17.6				
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.8	794	854	430	81	19	.8	.0	.5	.0	.8	1.2	.7	.0	1.3	1.2				
TOT OBS	245	794	854	430	81	2404	.8	19.4	612	75	519	86	402	99	526	85				
TOT PCT	10.2	33.0	35.5	17.9	3.4	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)					PCT TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	48+ CALM MEAN	FREQ OBS
00003	2.9	19.2	38.1	30.0	8.0	1.3	.4	19.4 100.0 687
06009	4.0	19.2	39.0	28.6	7.3	1.2	.8	19.0 100.0 605
12015	.8	17.2	40.3	29.9	9.2	2.0	.6	20.7 100.0 501
18021	4.9	21.9	35.8	26.8	8.2	1.0	1.3	18.5 100.0 611
TOT	78	468	919	693	195	32	19	19.4 2404
PCT	3.2	19.5	38.2	28.8	8.1	1.3	.8	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	8 &	8 &	8 &		
N	.8	.9	2.5	2.5	92	6.0			
NNE	.1	.3	1.2	1.4	42	6.5			
NE	.1	.1	.8	1.4	34	6.8			
ENE	.1	.1	.5	1.7	35	6.9			
E	.1	.1	.6	2.3	43	7.4			
ESE	.0	.0	.6	2.0	36	7.8			
SE	.1	.1	.6	2.4	44	7.3			
SSE	.0	.1	.5	1.7	33	7.4			
S	.2	.7	.9	2.0	65	6.8			
SSW	.2	.1	.9	2.8	57	7.2			
SW	.9	.6	2.0	3.8	100	6.4			
WSW	.4	.8	3.3	2.8	101	6.4			
W	1.7	3.4	7.5	6.3	262	5.9			
WNW	1.0	3.1	5.0	3.3	172	5.6			
NW	1.0	2.4	5.1	3.4	165	5.7			
NNW	.9	1.3	3.4	1.2	95	5.5			
VAR	.0	.0	.0	.0	0	.C			
CALM	.1	.0	.3	.2	8	6.6			
TOT OBS	110	195	492	587	1384	6.2			
TOT PCT	7.9	14.1	35.5	42.4	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)										NH <5/8 ANY HGT	TOTAL OBS					
	000	149	150	299	300	600	999	1000	1999	3499			3500	4999	5000	6499	7999
N	.1	.0	.0	.0	.2	1.2	2.4	.9	.1	.0	.0	.0	.0	.0	.0	1.9	92
NNE	.2	.1	.1	.0	.1	.4	1.4	.4	.0	.1	.0	.0	.0	.0	.0	.4	42
NE	.1	.0	.0	.0	.1	.4	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.4	34
ENE	.1	.1	.1	.0	.1	.8	.4	.4	.2	.0	.0	.0	.0	.0	.0	.5	35
E	.5	.0	.0	.0	.0	.9	.8	.4	.0	.0	.0	.0	.0	.0	.0	.6	43
ESE	.3	.0	.0	.0	.1	.7	.8	.4	.1	.0	.0	.0	.0	.0	.0	.2	36
SE	.4	.0	.0	.0	.1	1.1	.7	.4	.0	.0	.0	.0	.0	.0	.0	.4	44
SSE	.4	.0	.0	.0	.4	.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.2	33
S	.5	.0	.0	.0	.6	.7	1.1	.5	.1	.0	.0	.0	.0	.0	.1	.2	65
SSW	.7	.0	.0	.0	.7	.9	.4	.4	.2	.0	.0	.0	.0	.0	.1	.5	57
SW	.6	.0	.0	.0	.4	.9	.4	.8	.3	.0	.0	.0	.0	.0	.0	.4	100
WSW	.6	.0	.0	.0	.4	1.4	1.4	.8	.3	.0	.0	.0	.0	.0	.0	.4	101
W	.8	.1	.1	.0	.4	1.0	2.2	.9	.2	.1	.0	.0	.0	.0	.0	.2	262
WNW	.8	.1	.7	.0	.7	2.9	4.6	1.9	.6	.1	.0	.0	.0	.0	.0	.7	172
NW	.1	.1	.5	.0	.5	2.7	2.9	.7	.3	.0	.0	.0	.0	.0	.0	.1	165
NNW	.2	.0	.7	.0	.7	1.7	3.0	1.2	.3	.1	.0	.0	.0	.0	.0	.4	165
VAR	.1	.0	.0	.0	.2	1.1	1.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	95
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	73	6	68	255	359	148	34	5	3	2	43	1	1	1	1	1384	
TOT PCT	5.3	.4	4.9	18.4	25.9	10.7	2.5	.4	.2	.1	31.1	.1	.1	.1	.1	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)	>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	.3	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.6	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
= OR >3500	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
= OR >2000	8.4	12.6	13.7	13.7	13.7	13.7	13.7	13.7	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
= OR >1000	20.8	35.1	38.8	38.8	38.8	38.8	38.8	38.8	39.7	39.9	39.9	39.9	39.9	40.0	40.0	40.0
= OR >600	26.6	49.0	56.1	56.1	56.1	56.1	56.1	56.1	57.9	58.2	58.2	58.2	58.2	58.5	58.5	58.5
= OR >300	27.6	52.1	60.6	60.6	60.6	60.6	60.6	60.6	62.6	63.1	63.1	63.1	63.1	63.3	63.3	63.3
= OR >150	27.6	52.3	60.9	60.9	60.9	60.9	60.9	60.9	63.0	63.5	63.5	63.5	63.5	63.7	63.7	63.7
= OR > 0	27.8	54.2	64.1	64.1	64.1	64.1	64.1	64.1	67.0	68.2	68.2	68.2	68.2	68.7	68.7	68.7
TOTAL	386	754	890	890	890	890	890	890	931	947	947	947	947	957	957	957

TOTAL NUMBER OF OBS: 1389 PCT FREQ NH <5/8: 31.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
1.1	3.7	7.6	7.6	9.9	8.2	8.1	13.3	13.7	30.1	4.4
										1440

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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	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	VAR	CALM	TOTAL	PCT
PCP	.0	.0	.0	.0	.0	.0	.2	.1	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	9	.5
NO PCP	.1	.0	.0	.0	.1	.0	.0	.0	.3	.1	.2	.1	.1	.0	.0	.0	.0	.0	16	.9
TOTAL	1	0	0	0	1	0	3	1	6	3	4	2	3	1	0	0	0	0	25	1.4
PCP	.0	.0	.1	.0	.1	.0	.2	.1	.1	.1	.1	.1	.2	.0	.0	.0	.0	.0	17	1.0
NO PCP	.1	.0	.1	.0	.1	.0	.1	.0	.1	.0	.1	.1	.2	.1	.1	.0	.0	.0	13	.8
TOTAL	1	0	3	0	3	0	5	1	2	1	2	3	7	1	1	0	0	0	30	1.7
PCP	.1	.1	.0	.1	.3	.2	.1	.1	.2	.3	.2	.1	.3	.1	.2	.1	.0	.1	46	2.7
NO PCP	.0	.1	.0	.0	.0	.1	.0	.1	.1	.1	.1	.3	.1	.1	.2	.1	.0	.0	20	1.2
TOTAL	1	2	0	2	6	5	2	3	5	7	4	7	7	4	6	3	0	2	66	3.8
PCP	.3	.0	.3	.3	.2	.4	.5	.5	.4	.5	.5	.3	.8	.3	.2	.1	.0	.0	96	5.5
NO PCP	.5	.1	.1	.1	.2	.2	.3	.2	.4	.3	.8	.6	1.2	.8	.3	.7	.0	.0	116	6.7
TOTAL	14	2	7	7	7	11	13	11	14	14	21	15	34	18	10	14	0	0	212	12.2
PCP	.2	.2	.4	.3	.5	.5	.3	.1	.5	.6	1.1	.6	1.2	1.0	.5	.2	.0	.0	141	8.1
NO PCP	2.0	1.6	.8	.9	.8	.5	.9	.6	1.4	.9	2.4	2.1	6.9	3.2	3.2	2.0	.0	.1	526	30.4
TOTAL	39	31	21	22	23	17	20	12	34	26	61	47	139	72	64	37	0	2	667	38.5
PCP	.1	.1	.2	.0	.2	.0	.2	.1	.2	.0	.5	.1	.6	.3	.5	.2	.0	.0	56	3.2
NO PCP	3.3	1.3	.9	.7	.7	.5	.5	.9	1.2	1.2	2.3	2.8	7.3	6.1	5.4	3.6	.0	.3	677	39.1
TOTAL	58	25	19	12	15	9	12	17	25	21	48	50	137	112	102	65	0	6	733	42.3
TOTAL	114	60	50	43	55	42	55	45	86	72	140	124	327	208	183	119	0	10	1733	100.0
PCT	6.6	3.5	2.9	2.5	3.2	2.4	3.2	2.6	5.0	4.2	8.1	7.2	18.9	12.0	10.6	6.9	.0	.6	100.0	

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PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	*	.0	.0	.0	.0	.0	.1	.0	.1	*	*	.0	*	.0	.0	.0	.0	.0	8	.3
	11-21	.0	*	.0	.0	.0	.0	*	.0	.2	.0	.1	*	*	.0	.0	.0	.0	.0	10	.4
	22+	.0	.0	.0	.0	*	.0	*	*	.0	.1	*	*	*	.0	.0	.0	.0	.0	9	.4
	TOTAL	1	1	0	0	1	0	4	1	6	3	4	2	3	1	0	0	0	0	27	1.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	7	.3
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	*	.0	*	.1	.2	.0	.0	.0	.0	.0	13	.5
	22+	.0	.0	.0	.0	*	.0	.2	*	*	.0	*	*	.1	*	.0	*	.0	.0	13	.5
	TOTAL	1	0	3	1	3	0	5	1	2	1	2	3	7	1	2	1	0	0	33	1.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.1	.0	.0	.1	7	.3
	4-10	*	*	.0	*	.0	*	.0	.0	.1	.0	*	.0	.0	.1	.0	.0	.0	.0	10	.4
	11-21	.0	*	.0	.0	.0	*	.1	.0	.1	.1	.1	.1	.1	.1	*	.1	.0	.0	20	.8
	22+	.0	.0	.0	*	.3	.1	*	.1	.1	.3	.1	.2	.2	.2	.2	.1	.0	.0	44	1.9
	TOTAL	1	2	0	2	6	5	3	3	6	10	5	8	8	9	7	4	0	2	81	3.4
2<5	0-3	*	*	.0	.0	.0	.0	*	.0	*	*	.1	.0	.1	.2	.0	*	.0	.1	17	.7
	4-10	.2	.0	.2	.1	.0	.0	*	.1	.1	.3	.1	.1	.2	.1	.3	.1	.0	.0	41	1.7
	11-21	.1	*	.2	*	.1	.2	.2	.2	.2	.2	.4	.2	.8	.3	.2	.2	.0	.0	84	3.5
	22+	.4	.0	.2	.2	.2	.3	.4	.3	.3	.2	.7	.6	.8	.5	.4	.4	.0	.0	139	5.9
	TOTAL	19	2	9	7	8	11	15	12	17	16	30	22	46	26	21	17	0	2	281	11.8
5<10	0-3	.1	.0	*	.0	*	.0	.1	.0	.1	.2	.1	*	.2	*	.1	.0	.0	.2	29	1.2
	4-10	.4	.3	.2	.3	.2	.2	.3	.1	.4	.7	.7	.6	.9	.4	.7	.4	.0	.0	150	6.3
	11-21	.5	.5	.5	.3	.3	.2	.3	.3	.7	.7	1.4	.8	3.0	1.4	1.3	.7	.0	.0	303	12.8
	22+	1.3	.8	.6	.5	.7	.4	.6	.1	.6	.5	1.3	1.2	2.9	2.0	1.9	1.0	.0	.0	392	16.5
	TOTAL	54	40	31	24	30	19	32	12	42	38	86	61	165	92	96	48	0	4	874	36.8
10+	0-3	.2	*	.1	.0	.0	.0	.1	*	.0	.1	.4	.1	.1	*	.1	.0	.0	.5	44	1.9
	4-10	.9	.3	.4	.2	.3	.3	.4	.2	.6	.8	1.0	.8	1.3	.9	1.4	.7	.0	.0	249	10.5
	11-21	1.6	.6	.4	.3	.2	.1	.3	.5	.5	.5	2.1	1.6	3.8	2.7	3.1	1.6	.0	.0	474	20.0
	22+	1.0	.5	.4	.3	.3	.4	.3	.2	.3	.2	.5	.8	2.4	2.2	2.4	.9	.0	.0	309	13.0
	TOTAL	88	36	31	17	19	18	25	21	35	39	95	79	179	138	168	77	0	11	1076	45.4
	TOTAL	163	81	74	51	67	53	84	50	108	109	222	175	408	267	294	147	0	19	2372	100.0
	PCT	6.9	3.4	3.1	2.2	2.8	2.2	3.5	2.1	4.6	4.6	9.4	7.4	17.2	11.3	12.4	6.2	.0	.8	100.0	

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PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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)										OCCURRENCE OF NH <5/8 BY HOUR		TOTAL NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	8000+	8000+		
00003	4.3	.8	4.3	16.3	29.1	11.0	3.1	.5	.3	.3	.3	69.9	30.1	392
06009	7.8	.3	4.2	18.0	24.6	11.4	2.1	.3	.6	.0	.0	69.4	30.6	333
12015	4.8	.0	6.0	18.9	23.4	8.7	1.8	.0	.0	.3	.3	64.0	36.0	333
18021	4.4	.6	5.0	20.8	25.7	11.4	2.6	.6	.0	.0	.0	71.1	28.9	342
TOT	74	6	68	258	362	149	34	5	3	2	961	439	1400	
PCT	5.3	.4	4.9	18.4	25.9	10.6	2.4	.4	.2	.1	68.0	31.4	100.0	

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	10+	10+	10+	10+	
00003	1.5	1.8	3.3	10.0	26.4	55.0	391				391
06009	1.2	.9	4.3	12.2	39.6	41.8	328				328
12015	.9	1.8	2.4	11.2	38.2	45.5	330				330
18021	.0	.9	1.8	12.9	32.4	52.1	340				340
TOT	13	19	41	160	477	679	1389				1389
PCT	.9	1.4	3.0	11.5	34.3	48.9	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)	CEILING HGT (FEET, NH >4/8)				VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8)	
	<150	<50YD	<1000	<1000 AND 5+	<1000 AND 5+	>1000 AND 5+
00003	4.3	10.5	32.2	39.9	27.9	391
06009	7.6	12.8	37.5	34.5	28.0	328
12015	4.8	12.4	38.2	28.5	33.3	330
18021	4.4	10.3	36.8	36.5	26.8	340
TOT	73	159	500	487	402	1389
PCT	5.3	11.4	36.0	35.1	28.9	100.0

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PERIOD: (PRIMARY) 1942-1969  
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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				
55/59	.0	.0	.0	.0	.1	.2	.2	.0			7	.4
50/54	.0	.0	.0	.1	1.3	1.3	3.1	1.8			124	7.6
45/49	.0	.0	.1	.4	2.4	11.9	18.6	14.2			779	47.6
40/44	.0	.0	.1	.5	3.4	10.2	11.7	10.9			603	36.8
35/39	.0	.0	.0	.0	.3	1.6	2.3	2.1			117	7.1
30/34	.0	.0	.0	.0	.1	.1	.1	.2			7	.4
TOTAL	0	0	3	23	133	414	587	477			1637	100.0
PCT	.0	.0	.2	1.4	8.1	25.3	35.9	29.1				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.1	.0	.0	.0	.1	.1	.1	.0	.0
	.2	.4	.6	.9	.9	2.4	1.8	.3	.0	.0
	3.7	2.4	2.4	2.9	5.9	9.6	13.0	7.5	.0	.2
	4.3	2.1	1.9	2.0	2.1	4.9	10.2	8.8	.0	.4
	1.2	.8	.4	.1	.2	.2	2.1	2.0	.0	.2
	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0
	160	94	87	97	149	284	445	308	0	13
	9.8	5.7	5.3	5.9	9.1	17.3	27.2	18.8	.0	.8

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	58	54	52	46	40	36	34	45.8			684
06009	56	54	51	45	38	36	32	44.8			606
12015	52	51	49	45	38	34	32	44.3			502
18021	54	52	50	45	38	36	34	44.3			610
TOT	58	54	50	45	39	36	32	44.9			2402

TABLE 16

HOURL (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		
00003	.0	1.9	11.3	25.1	35.7	26.1	26.1	82			479
06009	.0	1.9	7.0	26.1	33.6	31.4	84				417
12015	.0	1.6	6.5	24.4	38.1	29.3	84				307
18021	.0	.9	6.8	25.6	36.3	30.4	84				438
TOT	0	26	133	416	587	479	83				1641

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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	29	33	37	41	45	49	53	TOT	M	WD
	32	36	40	44	48	52	56		FOG	FDG
7/8	.0	.0	.0	.1	.3	.0	.1	6	.0	.4
6	.0	.0	.0	.0	.4	.1	.1	9	.0	.6
5	.0	.0	.0	.0	.1	.6	.3	16	.0	1.0
4	.0	.0	.0	.4	.8	1.1	.1	37	.1	2.2
3	.0	.0	.2	.3	1.5	1.3	.1	54	.1	3.4
2	.0	.0	.0	.6	5.2	2.8	.1	138	.4	8.3
1	.0	.0	.1	1.0	5.1	1.2	.0	117	.3	7.1
0	.0	.0	.3	3.7	9.3	1.9	.1	242	.4	14.9
-1	.0	.0	.3	4.0	4.9	1.5	.0	170	.1	10.7
-2	.0	.1	.6	5.4	5.9	.5	.0	198	.3	12.3
-3	.0	.1	.4	3.1	2.1	.1	.0	193	.1	5.8
-4	.0	.0	.5	4.1	4.2	.1	.0	141	.1	8.8
-5	.0	.1	1.8	4.2	2.2	.1	.0	135	.1	8.5
-6	.0	.1	1.1	2.0	.6	.0	.0	62	.0	3.9
-7/-8	.1	.4	2.7	2.3	1.0	.0	.0	102	.1	6.4
-9/-10	.0	.4	.9	.8	.1	.0	.0	35	.0	2.2
-11/-13	.1	.3	.5	.4	.0	.0	.0	21	.0	1.3
-14/-16	.0	.3	.1	.0	.0	.0	.0	6	.1	.3
TOTAL	2	28	152	512	694	180	14	1582	31	1551
PCT	.1	1.8	9.6	32.4	43.9	11.4	.9	100.0	2.0	98.0

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
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 TABLE 18  
 AREA 0008 DUTCH HARBOR  
 51-55N 165-172W

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

HGT	N					NE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.1	.3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1
1-2	.0	.3	.1	.0	.0	.0	.0	.0	.3	.0	.0	.0	2
3-4	.0	.9	1.2	.7	.0	.0	.0	.4	.3	.7	.0	.0	10
5-6	.1	.3	.6	.6	.1	.0	.0	.0	.6	.3	.0	.0	6
7	.0	.1	1.0	.7	.0	.0	.0	.0	.3	.4	.3	.0	7
8-9	.0	.0	.4	.3	.0	.0	.0	.0	.0	.1	.0	.0	1
10-11	.0	.0	.3	.3	.1	.0	.0	.0	.0	.1	.0	.0	1
12	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2
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
TOTAL	2	13	25	19	3	0	0	4	10	12	6	0	32
PCT	.3	1.9	3.7	2.8	.4	.0	.0	.6	1.5	1.8	.9	.0	4.7

HGT	E					SE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.1	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	4
1-2	.0	.0	.4	.0	.0	.0	.0	.1	.3	.0	.0	.0	3
3-4	.0	.3	.4	.3	.0	.0	.0	.0	.4	.3	.0	.0	5
5-6	.0	.0	.0	.1	.1	.0	.0	.0	.9	1.2	.1	.0	15
7	.0	.0	.1	.4	.0	.0	.0	.0	.0	.6	.0	.0	4
8-9	.0	.0	.0	.4	.0	.0	.0	.0	.1	.6	.3	.0	7
10-11	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	1
12	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	1
13-16	.0	.0	.0	.0	.6	.4	.0	.0	.1	.0	.1	.0	2
17-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.1	.0	1
23-25	.0	.0	.0	.1	.0	1	.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
TOTAL	1	2	8	14	9	3	0	5	13	19	6	0	43
PCT	.1	.3	1.2	2.1	1.3	.4	.0	.7	1.9	2.8	.9	.0	6.4

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TABLE 18  
PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AREA 0008  
51-55N  
DUTCH HARBOR  
165-172W

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0							
1-2	.1	.3	1.0	.0	.0	.0	10	.0	.1	1.5	.0	.0	.0	17							
3-4	.0	.4	1.0	.6	.0	.0	14	.0	.6	1.8	.4	.0	.0	19							
5-6	.0	.1	1.0	.3	.1	.0	11	.0	.1	1.9	1.0	.0	.0	21							
7	.0	.0	.3	.4	.0	.0	5	.0	.1	1.3	.7	.0	.0	15							
8-9	.0	.0	.0	.4	.1	.0	4	.0	.0	.4	.4	.0	.0	6							
10-11	.0	.0	.1	.0	.0	.0	1	.0	.0	.1	.3	.0	.0	5							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.3	.0	.0	3							
13-16	.0	.0	.0	.3	.0	.0	2	.0	.0	.0	.7	.0	.0	5							
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							
TOTAL	1	6	24	14	2	0	47	0	10	49	27	3	0	89							
PCT	.1	.9	3.5	2.1	.3	.0	6.9	.0	1.5	7.2	4.0	.4	.0	13.1							

HGT	M										NW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	1							
1-2	.0	1.0	2.2	.0	.0	.0	22	.0	1.3	1.8	.0	.0	.0	21							
3-4	.0	1.2	4.0	.6	.0	.0	39	.0	.1	2.2	.3	.0	.0	75							
5-6	.0	.6	4.6	1.3	.0	.0	44	.0	.3	2.7	2.4	.1	.0	131							
7	.0	.1	4.6	3.0	.3	.0	54	.0	.0	1.8	1.0	.3	.0	148							
8-9	.0	.1	1.0	1.6	.0	.0	19	.0	.3	.6	1.3	.0	.0	126							
10-11	.0	.0	1.2	1.8	.0	.0	20	.0	.1	.1	.9	.0	.0	60							
12	.0	.0	.1	.6	.3	.0	7	.0	.0	.0	.9	.0	.0	43							
13-16	.0	.0	.4	.7	.3	.1	11	.0	.0	.1	1.0	.1	.0	21							
17-19	.0	.0	.0	.1	.3	.0	3	.0	.0	.0	.0	.0	.0	8							
20-22	.0	.0	.0	.0	.3	.0	2	.0	.0	.0	.1	.0	.0	5							
23-25	.0	.0	.0	.3	.1	.0	3	.0	.0	.0	.3	.1	.0	6							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	3							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	23	123	68	11	1	226	0	16	63	57	5	0	677							
PCT	.0	3.4	18.2	10.0	1.6	.1	33.4	.0	2.4	9.3	8.4	.7	.0	141							
														20.8							
														100.0							

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	.6	1.9	.0	.0	.0	.0	.0	.0	17
1-2	.1	3.2	7.7	.0	.0	.0	.0	.0	75
3-4	.0	4.0	11.3	4.0	.0	.0	.0	.0	131
5-6	.1	1.5	12.2	7.2	.7	.0	.0	.0	148
7	.0	.4	9.4	7.8	.9	.0	.0	.0	126
8-9	.0	.4	2.7	5.3	.4	.0	.0	.0	60
10-11	.0	.1	1.9	3.5	.7	.0	.0	.0	43
12	.0	.0	.4	2.1	.6	.0	.0	.0	21
13-16	.0	.0	.7	2.8	1.3	.6	.0	.0	37
17-19	.0	.0	.0	.1	.6	.0	.0	.0	5
20-22	.0	.0	.0	.1	.7	.0	.0	.0	6
23-25	.0	.0	.0	.7	.3	.0	.0	.0	7
26-32	.0	.0	.0	.1	.3	.0	.0	.0	3
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
TOTAL	.6	79	315	230	45	4	679		
PCT	.9	11.6	46.4	33.9	6.6	.6	100.0		

TABLE 19

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	.4	3.3	9.7	6.0	4.0	1.2	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	206	4
6-7	.0	.8	3.6	8.5	7.7	5.2	3.0	.8	1.7	.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	242	7
8-9	.0	.1	.7	2.8	5.6	3.9	3.2	.5	1.9	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	150	8
10-11	.0	.0	.3	.3	1.6	2.8	2.0	1.6	1.2	.5	.0	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	85	11
12-13	.0	.0	.0	.0	.1	.5	1.2	.7	.3	.1	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	31	13
>13	.0	.0	.0	.1	.0	.3	.0	.4	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	9	12
INDET	2.3	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	1
TOTAL	20	33	107	132	144	104	81	35	44	15	9	13	7	0	0	0	0	0	0	0	744	7	
PCT	2.7	4.4	14.4	17.7	19.4	14.0	10.9	4.7	5.9	2.0	1.2	1.7	.9	.0	.0	.0	.0	.0	.0	.0	100.0		

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG MO	SMOKE	DUST	BLWG	
N	.8	.1	.6	.0	.8	.0	.1	2.1	30	.0	.0	.0	.0	4.4	92
NNE	.4	.0	.4	.0	.0	.0	.0	.8	11	.0	.0	.0	.0	2.1	40
NE	.4	.1	.6	.0	.3	.0	.1	1.6	22	.0	.1	.0	.0	2.8	63
ENE	.4	.0	.1	.0	.1	.0	.0	.7	10	.0	.0	.0	.0	2.4	44
E	.4	.0	.4	.0	.2	.0	.0	.9	13	.0	.0	.0	.0	3.0	59
ESE	.4	.0	.4	.0	.1	.0	.0	.8	12	.0	.1	.0	.0	1.3	33
SE	.9	.0	.8	.0	.1	.0	.0	1.8	25	.0	.5	.0	.0	2.7	70
SSE	.5	.1	.7	.0	.0	.0	.1	1.3	19	.0	.1	.0	.0	3.4	69
S	1.1	.1	.9	.0	.0	.0	.0	2.2	31	.0	.2	.0	.0	5.3	109
SSW	.7	.1	.3	.0	.1	.0	.0	1.1	16	.0	.3	.0	.0	4.6	85
SW	.9	.0	.5	.0	.2	.0	.0	1.6	22	.0	.0	.0	.0	5.3	97
WSW	.8	.1	.1	.0	.4	.0	.1	1.4	20	.1	.4	.0	.0	7.0	125
W	.6	.8	.4	.0	.6	.0	.1	2.3	32	.0	.4	.0	.0	13.3	225
WNW	.2	.3	.1	.0	.3	.1	.0	.9	13	.0	.1	.0	.0	6.1	100
NW	.2	.1	.4	.0	.4	.0	.0	1.0	14	.1	.1	.0	.0	7.0	115
NNW	.3	.2	.3	.0	.2	.0	.2	1.1	16	.0	.1	.0	.0	4.3	78
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.0	.0	.0	.1	1	.0	.0	.0	.0	.5	8
TOT OBS	129	29	97	0	56	1	11	21.7	307	2	33	3	0	1067	1412
TOT PCT	9.1	2.1	6.9	.0	4.0	.1	.8			.1	2.3	.2	.0	75.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG MO	SMOKE	DUST	BLWG	
0003	9.1	2.5	5.8	.0	4.5	.3	1.0	22.2	88	.0	2.0	.3	.0	75.6	397
0609	8.6	1.1	5.1	.0	4.0	.0	.6	19.1	67	.3	2.9	.3	.0	77.4	350
1205	7.6	1.8	6.7	.0	2.9	.0	.6	18.7	64	.0	2.9	.0	.0	78.4	342
18021	11.7	2.7	9.9	.0	4.2	.0	.9	27.0	90	.3	1.8	.3	.0	70.6	333
TOT	131	29	97	0	56	1	11	21.7	309	2	34	3	0	1074	1422
PCT	9.2	2.0	6.8	.0	3.9	.1	.8			.1	2.4	.2	.0	75.5	100.0

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.1	1.3	2.7	1.5	.5	.3	119	6.3	20.7	7.1	7.4	7.2	2.0	6.4	4.2	4.8	10.9								
NNE	.3	.5	1.1	.6	.3	.0	51	2.7	18.0	2.7	.0	2.6	6.1	1.9	4.2	3.1	4.3								
NE	.3	1.0	1.3	1.3	.4	.0	81	4.3	18.8	5.3	3.7	5.8	.0	3.2	1.4	4.0	.0								
ENE	.1	.5	1.2	1.1	.2	.1	57	3.0	20.3	2.7	3.7	3.0	6.1	2.2	.0	4.3	2.2								
E	.2	.9	1.9	.6	.2	.0	71	3.8	16.5	3.9	3.7	4.0	4.1	4.5	4.2	2.9	4.3								
ESE	.2	.5	.7	.6	.3	.0	44	2.3	19.2	2.9	1.9	2.1	.0	1.9	4.2	2.4	2.2								
SE	.2	1.2	2.2	1.1	.3	.1	94	5.0	17.8	4.9	7.4	5.3	8.2	4.8	1.4	5.2	2.2								
SSE	.1	1.4	1.7	1.3	.5	.1	94	5.0	19.2	4.1	1.9	4.7	2.0	6.7	6.9	5.7	4.3								
S	.3	1.7	3.0	2.0	.7	.1	145	7.7	18.9	8.2	9.3	7.4	.0	8.6	7.9	7.9	6.5								
SSH	.1	1.2	2.1	1.2	1.0	.0	104	5.5	20.2	4.7	7.4	5.8	2.0	6.1	2.8	6.2	8.7								
SW	.6	2.0	2.6	2.1	.9	.1	156	8.3	18.7	8.2	7.4	9.5	10.2	7.0	15.3	6.9	8.7								
WSW	.1	1.3	2.6	2.6	1.3	.1	154	8.2	22.7	9.6	7.4	7.4	12.2	8.0	9.7	6.7	10.9								
W	.5	2.5	4.4	5.1	1.9	.2	273	14.6	21.7	13.5	9.3	14.2	12.2	17.2	15.3	15.2	13.0								
WNW	.2	1.3	2.8	2.4	.9	.0	142	7.6	21.1	6.7	5.6	7.0	16.3	7.0	11.1	8.3	6.5								
NW	.3	2.0	3.1	2.1	1.5	.1	182	9.7	20.2	10.4	11.1	9.8	14.3	8.6	5.6	9.8	8.7								
NNW	.0	1.0	1.7	1.6	.7	.0	94	5.0	21.4	4.5	9.3	3.7	4.1	5.7	6.9	5.7	4.3								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	.7	376	662	524	215	20	14	.7	.0	.8	3.7	.5	.0	.3	.0	1.0	2.2								
TOT OBS	78	376	662	524	279	20	1875	19.9	19.9	490	54	430	49	314	72	420	46								
TOT PCT	4.2	20.1	35.3	27.9	11.5	1.1	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)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	1.1	2.8	3.0	1.7	.4	170	9.1	19.9	9.8	7.4	9.8	8.2	8.3	8.3	7.9	15.2									
NE	1.0	2.0	2.8	1.5	.1	138	7.4	19.4	8.0	7.4	8.8	6.1	5.4	1.4	8.3	2.2									
E	.9	2.2	2.0	1.0	.1	115	6.1	17.5	6.7	5.6	6.0	4.1	6.4	8.3	5.2	6.5									
SE	1.1	4.1	2.7	1.8	.4	188	10.0	18.5	9.0	9.3	10.0	10.2	11.5	8.3	11.0	6.5									
S	1.1	5.2	3.8	2.6	.6	249	13.3	19.5	12.9	16.7	13.3	2.0	14.6	9.7	14.0	15.2									
SW	1.9	4.3	5.3	4.3	.7	310	16.5	20.7	17.8	14.8	17.0	22.4	15.0	25.0	13.6	19.6									
W	2.1	5.8	7.6	5.4	1.2	415	22.1	21.5	20.2	14.8	21.2	28.6	24.2	26.4	23.6	19.6									
NW	1.1	5.3	4.2	3.7	.4	276	14.7	20.6	14.9	20.4	13.5	18.4	14.3	12.5	15.5	13.0									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	.7	595	589	412	74	14	.7	.0	.8	3.7	.5	.0	.3	.0	1.0	2.2									
TOT OBS	205	595	589	412	314	14	1875	19.9	19.9	490	54	430	49	314	72	420	46								
TOT PCT	10.9	31.7	31.4	22.0	3.9	14	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)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										PCT TOTAL OBS		
	0000	0300	0600	0900	1200	1500	1800	2100	2400	2700		3000	
00-03	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	100.0	544
04-09	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	100.0	479
10-15	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	100.0	386
16-21	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	100.0	466
TOT	20	20	20	20	20	20	20	20	20	20	20	100.0	1875
PCT	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	8-6	OBSCD	TOTAL OBS		
N	.4	.4	.4	.4	.4	.4	.4	.4	60	6.5
NNE	.2	.2	.2	.2	.2	.2	.2	.2	34	6.7
NE	.2	.3	.3	.3	.3	.3	.3	.3	43	6.6
ENE	.4	.4	.4	.4	.4	.4	.4	.4	36	6.4
E	.4	.4	.4	.4	.4	.4	.4	.4	42	6.5
ESE	.2	.1	.1	.1	.1	.1	.1	.1	22	7.0
SE	.5	.0	.0	.0	.0	.0	.0	.0	37	6.8
SSE	.7	.5	.5	.5	.5	.5	.5	.5	59	6.5
S	.6	.6	.6	.6	.6	.6	.6	.6	73	6.7
SSW	.8	.8	.8	.8	.8	.8	.8	.8	66	6.2
SW	.4	.7	.7	.7	.7	.7	.7	.7	67	6.3
WSW	1.0	2.4	3.3	3.3	3.3	3.3	3.3	3.3	100	5.5
W	2.3	3.1	7.7	4.1	4.1	4.1	4.1	4.1	186	5.5
WNW	.8	1.6	3.8	2.2	2.2	2.2	2.2	2.2	91	5.7
NW	.6	1.7	3.4	3.1	3.1	3.1	3.1	3.1	94	6.0
NNW	.5	.7	2.0	2.6	2.6	2.6	2.6	2.6	63	6.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
CALM	.2	.1	.2	.2	.2	.2	.2	.2	7	4.9
TOT OBS	108	150	375	447	447	447	447	447	1080	6.1
TOT PCT	10.0	13.9	34.7	41.4	41.4	41.4	41.4	41.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
	0000	0300	0600	0900	1200	1500	1800	2100	2400	2700			
N	.6	.3	1.1	1.1	1.7	.6	.6	.6	.6	.6	.6	.6	60
NNE	.4	.1	.7	.7	1.1	.1	.1	.1	.1	.1	.1	.1	34
NE	.0	.1	.6	.6	1.6	.5	.5	.5	.5	.5	.5	.5	43
ENE	.1	.3	.8	.8	.6	.6	.6	.6	.6	.6	.6	.6	36
E	.3	.0	.9	.9	1.4	.4	.4	.4	.4	.4	.4	.4	42
ESE	.3	.3	.3	.3	.6	.2	.2	.2	.2	.2	.2	.2	22
SE	.6	.3	.5	.5	.9	.3	.3	.3	.3	.3	.3	.3	37
SSE	1.1	.4	1.0	1.0	.9	.5	.5	.5	.5	.5	.5	.5	59
S	1.2	.4	1.8	1.8	1.6	.4	.4	.4	.4	.4	.4	.4	73
SSW	.8	.2	1.6	1.6	1.5	.4	.4	.4	.4	.4	.4	.4	66
SW	.5	.2	1.5	1.5	1.8	.4	.4	.4	.4	.4	.4	.4	67
WSW	.5	.3	1.0	1.0	2.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	100
W	.2	.8	2.8	2.8	4.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	186
WNW	.3	.1	.7	.7	2.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	91
NW	.2	.0	1.9	1.9	2.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	94
NNW	.3	.2	1.0	1.0	1.6	.6	.6	.6	.6	.6	.6	.6	63
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	7
TOT OBS	77	10	189	189	281	120	120	120	120	120	120	120	1080
TOT PCT	7.1	.9	17.5	17.5	26.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1	100.0

PERIOD: (PRIMARY) 1942-1969  
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TABLE 7

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

CEILING (FEET)	VSBY (NM)									
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0		
= OR >6500	.3	.5	.5	.5	.5	.5	.5	.5		
= OR >5000	.6	.9	.9	.9	.9	.9	.9	.9		
= OR >3500	1.3	2.2	2.2	2.3	2.3	2.3	2.3	2.3		
= OR >2000	7.0	12.6	13.3	13.3	13.4	13.5	13.5	13.5		
= OR >1000	16.4	34.7	38.6	39.3	39.7	39.8	39.8	39.8		
= OR >600	24.5	47.9	54.6	56.0	56.8	56.9	56.9	56.9		
= OR >300	25.0	50.3	57.9	59.5	60.4	60.5	60.5	60.5		
= OR >150	25.2	50.9	58.8	60.4	61.4	61.4	61.4	61.4		
= OR > 0	25.3	52.5	62.7	65.6	67.4	68.2	68.5	68.5		
TOTAL	273	566	677	708	727	736	739	739		

TOTAL NUMBER OF OBS: 1079 PCT FREQ NH <5/8: 31.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)										
	0	1	2	3	4	5	6	7	8	TOTAL
	2.6	3.9	7.5	8.5	8.8	10.1	11.7	12.4	27.8	6.8
										1123

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT		
																						PCP	NO PCP
<1/2	.1 .0 1	.0 .0 1	.0 .0 0	.1 .0 1	.0 .0 0	.0 .1 2	.0 .1 1	.1 .1 4	.0 .1 1	.1 .0 3	.1 .1 3	.0 .1 1	.0 .1 1	.1 .0 1	.0 .0 0	.0 .0 0	.0 .1 1	.0 .0 0	.0 .0 0	.0 .0 0	8 10 18	.6 .7 1.3	
1/2<1	.3 .0 4	.0 .0 0	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.2 .1 4	.2 .1 4	.1 .1 4	.1 .2 5	.1 .1 3	.1 .1 2	.1 .4 7	.1 .1 4	.0 .0 0	.0 .0 0	.1 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	19 15 38	1.4 1.4 2.7
1<2	.3 .1 5	.0 .0 0	.3 .0 4	.1 .0 1	.2 .0 2	.1 .0 2	.2 .1 4	.1 .1 4	.2 .2 6	.4 .1 7	.1 .1 2	.1 .1 3	.1 .3 6	.1 .1 2	.0 .1 2	.0 .1 1	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	31 19 50	2.2 1.4 3.6
2<5	.2 .4 9	.3 .4 9	.8 .3 15	.3 .3 8	.3 .1 7	.4 .1 7	.3 .1 6	.7 .3 14	.4 .1 8	.7 .5 17	.4 .7 15	.6 .6 17	.4 .6 14	.4 1.0 19	.4 .5 12	.2 .5 10	.1 .4 8	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	90 98 188	6.4 7.0 13.4
5<10	.9 1.9 39	.4 .6 14	.5 .9 20	.2 .8 14	.2 .5 11	.3 .5 11	.3 .5 11	.3 1.3 22	.4 1.5 26	.6 2.0 37	.4 2.1 34	.7 1.9 36	.6 2.5 44	1.0 5.8 95	.4 2.6 43	.7 2.6 46	.6 1.2 25	.0 .0 0	.0 .0 0	.1 .0 1	.1 .0 1	116 416 532	8.3 29.6 37.9
10+	.4 2.0 34	.1 1.1 16	.1 1.7 26	.1 1.4 21	.1 1.4 22	.1 1.4 22	.1 1.2 20	.2 1.2 20	.1 1.5 23	.1 2.7 40	.1 1.7 26	.1 2.6 38	.1 3.6 53	.6 6.6 101	.2 2.9 44	.1 4.0 58	.3 2.6 41	.0 .0 0	.0 .5 7	.0 .0 0	.0 .0 0	44 535 579	3.1 38.1 41.2
TOTAL PCT	92 6.5	39 2.8	67 4.8	44 3.1	33 2.3	58 4.1	68 4.8	68 4.8	68 4.8	107 7.6	83 5.9	97 6.9	125 8.9	222 15.8	101 7.2	115 8.2	78 5.6	0 .0	8 .6	8 100.0	1405 100.0		

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PERIOD: (PRIMARY) 1942-1969  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	7	.4
	11-21	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.2
	22+	.0	.0	.1	.0	.1	.0	.1	.1	.0	.2	.1	.1	.1	.1	.0	.0	.0	.0	10	.5
	TOTAL	1	0	1	1	2	1	4	2	3	3	1	1	1	0	0	1	0	0	22	1.2
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	7	.4
	11-21	.1	.0	.1	.0	.0	.0	.0	.0	.2	.0	.1	.1	.1	.1	.1	.1	.0	.0	13	.7
	22+	.2	.0	.0	.0	.0	.1	.1	.2	.1	.2	.3	.3	.2	.0	.0	.0	.0	.0	24	1.3
	TOTAL	4	1	2	0	0	3	4	4	6	3	2	7	4	2	1	2	0	0	45	2.4
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	4	.2
	4-10	.1	.0	.1	.1	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	11	.6
	11-21	.1	.0	.1	.1	.0	.1	.1	.1	.1	.1	.1	.2	.0	.1	.1	.1	.0	.0	18	1.0
	22+	.1	.0	.2	.0	.1	.2	.2	.4	.2	.0	.1	.2	.1	.1	.1	.1	.0	.0	36	2.0
	TOTAL	5	0	6	3	2	4	4	11	8	2	3	9	3	3	4	2	0	0	69	3.7
2<5	0-3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	10	.5
	4-10	.2	.1	.1	.1	.1	.1	.1	.2	.2	.1	.5	.1	.3	.1	.1	.1	.0	.0	42	2.3
	11-21	.1	.3	.1	.0	.3	.2	.4	.1	.6	.2	.2	.1	.4	.3	.3	.2	.0	.0	68	3.7
	22+	.5	.3	.7	.4	.1	.2	.5	.3	.5	.7	.8	.7	.7	.4	.4	.3	.0	.0	137	7.4
	TOTAL	15	11	16	5	10	7	19	12	24	17	29	17	26	16	16	11	0	2	257	13.9
5<10	0-3	.0	.1	.2	.1	.1	.1	.1	.0	.1	.0	.3	.1	.2	.1	.1	.0	.0	.0	26	1.4
	4-10	.3	.3	.3	.2	.2	.2	.5	.4	.4	.5	.5	.2	.8	.4	.7	.2	.0	.0	115	6.2
	11-21	1.2	.2	.5	.5	1.1	.3	.8	.5	1.0	.8	1.0	.7	1.6	1.0	1.2	.3	.0	.0	236	12.8
	22+	1.1	.4	.3	.3	.3	.2	.5	.8	1.3	.9	.9	1.7	3.3	1.4	1.8	1.1	.0	.0	299	16.2
	TOTAL	48	19	25	19	31	13	36	32	51	40	49	49	107	53	71	30	0	3	676	36.7
10+	0-3	.1	.1	.1	.0	.1	.1	.1	.1	.2	.1	.2	.0	.3	.1	.2	.0	.0	.0	34	1.8
	4-10	.7	.1	.5	.2	.5	.2	.3	.5	.8	.5	1.0	.8	1.3	.8	1.2	.6	.0	.0	186	10.1
	11-21	1.1	.6	.5	.5	1.1	.3	.8	1.0	1.2	1.1	1.4	1.8	2.3	1.4	1.5	1.1	.0	.0	316	17.1
	22+	.5	.2	.5	.6	.2	.2	.1	.1	.5	.3	1.4	1.2	2.8	1.5	2.0	.9	.0	.0	238	12.9
	TOTAL	45	18	31	25	24	13	24	30	50	37	71	70	123	68	89	48	0	8	774	42.0
	TOTAL	118	49	81	57	69	41	91	91	142	102	155	153	264	142	181	94	0	13	1843	100.0
	PCT	6.4	2.7	4.4	3.1	3.7	2.2	4.9	4.9	7.7	5.5	8.4	8.3	14.3	7.7	9.8	5.1	.0	.7	100.0	

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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	4.8	1.0	4.2	18.3	28.0	8.7	2.3	.3	.6	.3	68.5	31.5	311
06009	7.1	1.1	3.0	16.0	27.2	10.8	1.1	.0	.0	.0	66.4	33.6	268
12015	10.4	.8	3.8	14.6	23.8	13.8	.8	.8	.4	.0	69.2	30.8	260
18021	6.9	.8	3.1	19.6	23.8	11.2	1.2	.8	.0	.4	67.7	32.3	260
TOT	79	10	39	189	284	121	15	5	3	2	747	352	1009
PCT	7.2	.9	3.5	17.2	25.8	11.0	1.4	.5	.3	.2	68.0	32.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.0	.7	4.2	11.4	26.5	56.2	306
06009	.4	3.0	2.3	12.1	37.7	44.5	265
12015	2.0	2.7	2.4	15.3	32.2	45.5	255
18021	1.2	1.2	3.6	8.3	37.9	47.8	253
TOT	12	20	34	127	359	527	1079
PCT	1.1	1.9	3.2	11.8	33.3	48.8	100.0

TABLE 12

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

HR (GMT)	<150 <50YD	<600 <1000 <1	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.6	10.1	35.3	35.6	29.1
06009	7.5	12.8	35.8	33.2	30.9
12015	10.6	16.9	37.6	34.5	27.8
18021	6.3	11.1	34.0	35.2	30.8
TOT	77	136	385	374	320
PCT	7.1	12.6	35.7	34.7	29.7

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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			
50/54	.1	.0	.1	.0	.7	.2	.4	.3			23	1.9
45/49	.0	.0	.0	.2	1.0	3.2	4.7	4.7			172	13.8
40/44	.0	.0	.1	.7	5.8	11.9	15.3	17.6			639	51.4
35/39	.0	.0	.2	.8	3.5	5.2	8.2	11.3			363	29.2
30/34	.0	.0	.0	.0	.4	.2	.8	2.1			43	3.5
25/29	.0	.0	.0	.0	.0	.1	.0	.2			3	.2
TOTAL	1	0	4	21	143	259	366	449			1243	100.0
PCT	.1	.0	.3	1.7	11.5	20.8	29.4	36.1				

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
50/54	.2	.0	.0	.2	.5	.6	.2	.2			.0	.1
45/49	.5	.6	1.3	2.0	3.9	2.8	2.1	.6			.0	.0
40/44	3.8	4.0	3.2	6.8	7.1	8.4	11.3	6.4			.0	.5
35/39	3.5	2.8	1.9	1.0	1.9	4.4	7.2	6.2			.0	.2
30/34	1.4	.3	.2	.1	.2	.0	.3	.9			.0	.1
25/29	.2	.0	.0	.0	.0	.0	.1	.0			.0	.0
TOTAL	119	96	81	125	168	201	264	178			0	11
PCT	9.6	7.7	6.5	10.1	13.5	16.2	21.2	14.3			.0	.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	TOTAL OBS		
00003	54	50	48	41	35	31	29	41.4			543
06009	53	49	46	41	34	32	29	40.6			476
12015	52	48	45	41	34	32	30	40.3			388
18021	53	51	46	41	35	32	30	40.5			465
TOT	54	50	46	41	34	32	29	40.8			1872

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	
00003	.0	2.7	13.1	22.3	29.5	32.4	82			373	
06009	.0	2.8	14.6	21.1	25.7	35.9	83			323	
12015	.4	1.7	8.9	20.8	34.3	33.9	83			236	
18021	.0	.6	8.8	18.9	29.9	41.8	85			318	
TOT	1	25	145	260	369	450	83			1250	

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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	29	32	33	36	37	40	41	44	45	48	49	53	56	TOT	W FOG	MO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.2	.0	.2	.3	.3	.2	.2	.1	.0	11	.0	.9
5	.0	.0	.0	.0	.2	.4	.4	.3	.3	.2	.0	.0	.0	14	.0	1.1
4	.0	.0	.0	.0	.5	.5	1.3	.0	.0	.0	.0	.0	.0	30	.0	2.3
3	.0	.0	.0	.0	.2	.8	1.3	.0	.0	.0	.0	.0	.0	29	.2	2.0
2	.0	.0	.0	.0	.5	2.1	2.7	.2	.0	.0	.0	.0	.0	71	.5	4.9
1	.0	.0	.0	.0	.8	3.1	2.5	.0	.0	.0	.0	.0	.0	82	.3	6.0
0	.0	.0	.1	.1	1.8	8.3	3.3	.1	.0	.0	.0	.0	.0	175	.6	12.9
-1	.0	.0	.2	.2	2.2	5.7	.7	.0	.0	.0	.0	.0	.0	113	.3	8.4
-2	.0	.0	.5	.5	3.6	6.7	.8	.1	.0	.0	.0	.0	.0	152	.2	11.6
-3	.0	.0	.0	.0	5.2	3.4	.5	.0	.0	.0	.0	.0	.0	117	.1	9.0
-4	.0	.0	.5	.5	5.8	3.0	.2	.0	.0	.0	.0	.0	.0	123	.1	9.4
-5	.0	.0	2.1	2.1	5.9	1.8	.0	.0	.0	.0	.0	.0	.0	126	.0	9.7
-6	.1	.1	1.6	1.6	2.9	.5	.0	.0	.0	.0	.0	.0	.0	65	.1	4.9
-7/-8	.4	.4	2.5	2.5	3.8	1.1	.0	.0	.0	.0	.0	.0	.0	100	.0	7.7
-9/-10	.3	.3	2.3	2.3	1.3	.2	.0	.0	.0	.0	.0	.0	.0	53	.1	4.0
-11/-13	.3	.3	.9	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	1.5
-14/-16	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.8
-17/-19	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	20	143	451	488	180	10	.8	.1	.1	.1	.1	.1	.1	1293	32	1261
PCT	1.5	11.1	34.9	37.7	13.9	.8	.1	.1	.1	.1	.1	.1	.1	100.0	2.5	97.5

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.2	.0	.0	.0	.0	1	.0	.4	.0	.0	.0	.0	2	
1-2	.0	.8	1.4	.0	.0	.0	11	.0	1.2	.0	.0	.0	.0	6	
3-4	.0	.4	.8	.6	.0	.0	19	.0	.6	.8	1.0	.0	.0	12	
5-6	.0	.0	1.4	.2	.4	.0	10	.0	.2	.6	.4	.0	.0	6	
7	.0	.0	.8	.8	.2	.0	9	.0	.2	.2	1.0	.2	.0	8	
8-9	.0	.0	.2	.4	.2	.0	4	.0	.0	.4	.6	.2	.0	6	
10-11	.0	.2	.0	.4	.0	.0	3	.0	.0	.0	.6	.0	.0	3	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.2	.0	3	
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.2	.0	.0	1	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	8	23	13	4	0	48	0	13	10	21	3	0	47	
PCT	.0	1.6	4.5	2.5	.8	.0	9.3	.0	2.5	1.9	4.1	.6	.0	9.1	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.2	.0	.0	.0	.0	2	.0	.2	.0	.0	.0	.0	1	
1-2	.0	1.2	.0	.0	.0	.0	6	.0	1.0	.6	.0	.0	.0	8	
3-4	.0	.2	.6	.2	.0	.0	5	.0	.2	1.6	.6	.0	.0	12	
5-6	.0	.0	1.4	.4	.0	.0	9	.0	.2	2.3	.2	.0	.0	14	
7	.0	.0	.4	.2	.0	.0	3	.0	.0	.6	.4	.2	.0	6	
8-9	.0	.0	.6	.2	.2	.0	5	.0	.0	.0	.4	.0	.0	2	
10-11	.0	.0	.2	.4	.0	.0	3	.0	.0	.0	.4	.0	.0	2	
12	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.4	.0	.0	2	
13-16	.0	.0	.0	.4	.0	.0	2	.0	.0	.0	.6	.0	.0	3	
17-19	.0	.0	.0	.0	.2	.0	1	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	8	17	9	2	0	37	0	8	26	13	3	0	50	
PCT	.2	1.6	3.3	1.7	.4	.0	7.2	.0	1.6	5.0	2.5	.6	.0	9.7	

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TABLE 18

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

HGT	S										NW										GRAND TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		TOTAL
<1	.2	.0	.0	.0	.0	.0	1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	1.4	.0	.0	.0	14	.0	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.4	1.6	.4	.0	.0	12	.0	.4	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.2	.8	1.2	.0	.0	11	.0	.0	1.4	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	1.0	.4	.0	8	.0	.0	.8	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.4	.0	6	.0	.0	.8	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.4	.0	2	.0	.0	.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.6	.0	4	.0	.0	.2	.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.4	.0	2	.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	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.2	.0	.0	.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
TOTAL	1	10	25	16	9	0	61	0	9	29	34	12	3	87	0	3	12	34	12	3	87	0
PCT	.2	1.9	4.9	3.1	1.7	.0	11.8	.0	1.7	5.6	6.6	2.3	.6	16.9	.0	1.7	5.6	6.6	2.3	.6	16.9	.0

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	13
1-2	.0	9.3	5.2	.0	.0	.0	.0	.0	.0	.0	75
3-4	.0	3.5	10.9	3.5	.0	.0	.0	.0	.0	.0	92
5-6	.0	1.6	12.4	7.2	.6	.0	.0	.0	.0	.0	112
7	.0	.2	5.8	7.0	1.0	.0	.0	.0	.0	.0	72
8-9	.0	.0	3.7	4.7	1.6	.0	.0	.0	.0	.0	51
10-11	.0	.2	1.4	3.7	1.0	.0	.0	.0	.0	.0	32
12	.0	.0	.4	1.2	1.4	.2	.0	.0	.0	.0	16
13-16	.0	.0	.4	3.5	2.5	.2	.0	.0	.0	.0	34
17-19	.0	.0	.0	.8	.4	.0	.0	.0	.0	.0	6
20-22	.0	.0	.0	.2	.8	.0	.0	.0	.0	.0	5
23-25	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	3
26-32	.0	.0	.0	.4	.2	.4	.0	.0	.0	.0	5
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
TOTAL	3	86	207	166	50	4	516				
PCT	.6	16.7	40.1	32.2	9.7	.8	100.0				

TABLE 19

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	.5	6.8	6.3	4.0	2.3	2.4	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	131	4	
6-7	.0	.9	4.0	8.3	5.0	3.7	2.6	1.4	1.7	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	7
8-9	.0	.5	.2	3.7	6.6	3.8	2.3	1.2	3.0	.7	.7	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	136	9
10-11	.0	.3	.2	.3	1.4	2.4	2.3	.9	1.6	.5	.5	.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	66	11
12-13	.0	.0	.2	.2	.2	.9	1.2	.9	.5	.3	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	30	12
>13	.0	.0	.0	.0	.0	.0	.5	.7	2.1	.2	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	26	15
INDET	3.3	.2	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	1
TOTAL	22	50	62	95	90	77	53	30	32	12	11	6	15	0	0	0	0	0	0	0	0	575	7
PCT	3.8	8.7	10.8	16.5	15.7	13.4	9.2	5.2	9.0	2.1	1.9	1.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME		TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	RAIN	SHWR			FRZG PCPN	SNOW	OTHER FRZN PCPN		PCPN	PCPN			PCPN	FOG	SMOKE	DUST	HAZE	
N	.3		.3	.3	.1	1.0	.1	.0	1.9	33	.0	.0	.0	.0	.0	.0	7.3	161
NNE	.3	.1	.0	.0	.0	.5	.0	.0	.8	14	.0	.0	.0	.0	.0	.0	3.2	71
NE	.5	.0	.0	.5	.0	1.2	.0	.0	2.1	37	.0	.0	.0	.0	.0	.0	4.3	113
ENE	.6	.1	.0	.5	.0	.9	.0	.1	1.8	31	.0	.0	.0	.0	.0	.0	3.8	100
E	1.0	.0	.0	.7	.0	.5	.0	.0	2.2	38	.0	.0	.0	.0	.0	.0	4.6	122
ESE	1.7	.0	.0	.4	.0	.3	.0	.0	2.2	38	.0	.0	.0	.0	.0	.0	3.6	105
SE	.9	.1	.0	.5	.0	.5	.0	.0	2.0	35	.0	.0	.0	.0	.0	.0	4.0	110
SSE	.7	.1	.0	.5	.0	.1	.0	.0	1.4	24	.0	.0	.0	.0	.0	.0	3.5	90
S	1.0	.1	.0	.2	.0	.5	.0	.0	1.7	30	.0	.0	.0	.0	.0	.0	5.1	126
SSW	.4	.2	.0	.1	.0	.2	.0	.0	.7	13	.0	.0	.0	.0	.0	.0	3.5	74
SW	.2	.1	.0	.2	.0	.2	.0	.0	.6	11	.0	.0	.0	.0	.0	.0	3.8	79
WSW	.3	.1	.0	.2	.0	.3	.0	.1	.8	14	.0	.0	.0	.0	.0	.0	4.0	84
W	.3	.3	.0	.0	.0	.8	.0	.2	1.4	25	.0	.0	.0	.0	.0	.0	7.4	157
WNW	.3	.1	.0	.1	.0	.6	.0	.1	1.0	18	.0	.0	.0	.0	.0	.0	5.3	112
NW	.2	.1	.0	.1	.0	1.4	.0	.1	1.9	33	.0	.0	.0	.0	.0	.0	5.4	129
NNW	.2	.1	.0	.2	.0	.9	.0	.1	1.4	25	.0	.0	.0	.0	.0	.0	4.8	110
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.2	.0	.0	.0	.0	.2	4	.0	.0	.0	.0	.0	.0	.5	13
TOT OBS	157	30	81	81	1	174	2	12	423	423	0	27	4	1	1301	1756		
TOT PCT	8.9	1.7	4.6	4.6	.1	9.9	.1	.7	24.1	100.0	.0	1.5	.2	.1	74.1	100.0		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME		TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	RAIN	SHWR			FRZG PCPN	SNOW	OTHER FRZN PCPN		PCPN	PCPN			PCPN	FOG	SMOKE	DUST	HAZE	
0000	8.5	1.6	4.6	4.6	.2	10.7	.0	1.4	25.8	130	.0	.0	.0	.0	.0	.0	71.6	503
0600	9.6	2.4	4.5	4.5	.0	9.6	.2	.0	23.2	97	.0	.0	.0	.0	.0	.0	75.8	418
1200	7.5	1.7	4.6	4.6	.0	8.9	.2	.5	21.2	88	.0	.0	.0	.0	.0	.0	76.6	415
1800	9.8	1.1	4.6	4.6	.0	10.3	.0	.7	25.1	110	.0	.0	.0	.0	.0	.0	73.5	438
TOT	157	30	81	81	1	176	2	12	425	425	0	27	4	1	1317	1774		
PCT	8.9	1.7	4.6	4.6	.1	9.9	.1	.7	24.0	100.0	.0	1.5	.2	.1	74.2	100.0		

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PERIOD: (PRIMARY) 1944-1969  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	#	2.0	3.8	2.0	.9	#	186	8.8	16.9	8.4	5.3	9.6	6.8	9.0	10.0	9.1	7.9								
NNE	#	1.0	1.8	.7	.1	.1	82	3.9	17.5	3.9	1.3	4.6	2.7	4.2	3.0	3.9	2.6								
NE	#	1.7	3.1	1.7	.1	.0	146	6.9	16.5	6.0	7.9	8.1	8.2	6.7	3.0	8.2	1.3								
ENE	#	1.3	2.6	1.0	.3	.1	114	5.4	17.3	4.3	5.3	3.5	6.8	7.6	6.0	5.4	11.8								
E	#	1.5	2.6	2.0	.7	.1	148	7.0	19.7	8.0	6.6	6.1	8.2	5.3	9.0	6.7	11.8								
ESE	#	.8	2.3	1.4	.9	.1	114	5.4	22.2	4.7	13.2	4.8	9.6	4.8	4.0	5.4	6.6								
SE	#	1.5	2.6	1.5	.3	.1	128	6.1	17.9	6.0	5.3	7.4	5.5	5.1	10.0	4.7	6.6								
SSE	#	1.3	1.9	1.2	.4	#	107	5.1	18.3	4.3	9.2	3.3	8.2	5.3	7.0	5.0	10.5								
S	#	1.6	3.3	1.4	.5	#	153	7.2	17.3	8.0	7.9	7.4	9.6	5.9	5.0	6.7	10.5								
SSW	#	.9	2.0	1.0	.4	.0	94	4.4	18.8	5.5	2.6	4.8	4.1	4.8	6.0	3.2	1.3								
SW	#	1.6	1.8	1.1	.3	.2	112	5.3	17.6	5.3	5.3	5.5	2.7	3.9	4.0	7.5	1.3								
WSW	#	.9	2.0	1.6	.1	#	99	4.7	19.6	3.5	6.6	4.8	4.1	4.5	5.0	5.8	3.9								
W	#	2.2	3.9	1.7	.9	#	198	9.4	17.8	9.9	6.6	10.1	5.5	10.4	7.0	9.1	7.9								
WNW	#	1.0	2.6	1.7	.6	.1	130	6.1	20.3	8.0	5.3	6.3	6.9	6.2	5.0	4.3	5.3								
NW	#	1.5	3.8	1.2	.3	.0	157	7.4	15.5	8.0	9.2	7.4	1.4	7.9	6.0	7.8	5.3								
NNW	#	1.3	2.2	1.8	.5	.1	126	6.0	19.3	5.1	2.6	5.5	9.6	7.3	9.0	6.0	3.9								
VAR	#	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	#	1.0	463	894	487	157	21	1.0	18.2	1.2	.0	.7	.0	1.1	1.0	1.3	1.3								
TOT OBS		4.3	21.9	42.3	23.0	7.4	2115	100.0	18.2	513	76	457	73	356	100	464	76								
TOT PCT							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	WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	1.1	4.9	4.8	1.7	.3	268	12.7	18.5	12.3	6.6	14.2	9.6	13.2	13.0	12.9	10.5									
NE	1.4	5.3	4.2	1.1	.2	260	12.3	16.9	10.3	13.2	11.6	15.1	14.3	9.0	13.6	13.2									
E	1.0	3.7	4.6	2.6	.5	262	12.4	20.8	12.7	19.7	10.9	17.8	10.1	13.0	12.1	18.4									
SE	1.0	4.2	4.3	1.4	.3	235	11.1	18.1	10.3	14.5	10.7	13.7	10.4	17.0	9.7	17.1									
S	1.3	4.6	3.5	1.9	.3	247	11.7	17.9	13.5	10.5	12.3	13.7	10.7	11.0	9.9	11.8									
SW	1.2	3.5	3.5	1.4	.4	211	10.0	18.5	8.8	11.8	10.3	6.8	8.4	9.0	13.4	5.3									
W	1.7	6.1	4.3	3.0	.5	328	15.5	18.8	17.9	11.8	16.4	12.3	16.6	12.0	13.4	13.2									
NW	1.8	5.0	4.9	1.4	.3	283	13.4	17.2	13.1	11.8	12.9	11.0	15.2	15.0	13.8	9.2									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	1.0	789	719	306	58	21	1.0	18.2	1.2	.0	.7	.0	1.1	1.0	1.3	1.3									
TOT OBS	243	1155	2115	100.0	18.2	513	76	457	73	356	100	464	76												
TOT PCT	11.5	37.3	34.0	14.5	2.7	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)					CALM	MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47				
00003	3.6	20.5	42.1	24.1	7.8	.8	18.3	100.0	589
06009	3.2	22.1	40.4	23.8	7.9	2.1	18.7	100.0	530
12015	1.5	20.4	45.6	24.3	6.6	.4	18.3	100.0	456
18021	4.4	24.4	41.5	20.0	7.2	1.1	17.3	100.0	540
TOT	69	463	894	487	157	24	18.2		2115
PCT	3.3	21.9	42.3	23.0	7.4	1.1	18.2	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	9	10		
N	1.2	.7	3.9	4.4	139	6.3				
NNE	.4	.3	1.7	1.7	58	6.3				
NE	.5	.4	1.8	3.3	84	6.6				
ENE	.7	.4	1.5	3.1	78	6.3				
E	.4	.3	1.6	4.9	78	7.1				
ESE	.2	.2	1.3	4.4	84	7.4				
SE	.5	.4	1.1	3.9	82	5.8				
SSE	.4	.4	1.5	2.8	69	6.6				
S	.9	1.2	1.8	3.0	96	5.9				
SSW	1.1	.4	1.8	.9	58	5.0				
SW	.4	.9	1.1	1.5	53	5.7				
WSW	1.0	.9	1.1	1.7	65	5.2				
W	1.4	1.6	3.1	2.8	123	5.5				
WNW	.5	.9	2.5	2.6	90	6.1				
NW	.7	1.3	3.2	2.0	100	5.7				
NNW	1.1	.7	2.8	1.7	87	5.6				
VAR	.0	.0	.0	.0	0	.0				
CALM	.1	.1	.4	.1	11	5.3				
TOT OBS	158	155	446	616	1375	6.1				
TOT PCT	11.5	11.3	32.4	44.8	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										TOTAL OBS											
	000	149	150	299	300	599	600	999	1000	1999		2060	3499	3500	4999	5000	6499	6500	7999	8000+	NH <5/8	TOTAL
N	.4	.0	.0	.0	.2	1.3	1.3	1.3	4.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139
NNE	.7	.0	.0	.0	.0	.5	.5	.5	1.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58
NE	.4	.0	.0	.0	.2	.7	.7	.7	2.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84
ENE	.7	.0	.0	.0	.2	.9	.9	.9	1.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78
E	.9	.1	.1	.1	.1	1.2	1.2	1.2	2.5	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98
ESE	.4	.0	.0	.0	.1	1.2	1.2	1.2	2.1	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84
SE	1.0	.1	.1	.1	.2	.7	.7	.7	1.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82
SSE	.2	.0	.0	.0	.2	.9	.9	.9	1.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
S	.6	.0	.0	.0	.3	.4	.4	.4	1.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	96
SSW	.1	.0	.0	.0	.1	.5	.5	.5	1.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	58
SW	.1	.0	.0	.0	.2	.5	.5	.5	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53
WSW	.4	.0	.0	.0	.3	.7	.7	.7	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65
W	.6	.1	.1	.1	.5	1.1	1.1	1.1	1.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123
WNW	.4	.1	.1	.1	.1	1.5	1.5	1.5	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90
NW	.7	.0	.0	.0	.1	.8	.8	.8	1.9	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100
NNW	.3	.0	.0	.0	.0	1.0	1.0	1.0	1.7	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87
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	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
TOT OBS	104	6	6	42	193	425	138	18	4	3	4	438	1375									
TOT PCT	7.6	.4	.4	3.1	14.0	30.9	10.0	1.3	.2	.3	.3	31.9	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)	>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	.1	.4	.4	.4	.4	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5
OR >5000	.4	.7	.7	.7	.7	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8
OR >3500	1.6	2.0	2.1	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
OR >2000	8.2	11.0	12.0	12.0	12.2	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
OR >1000	22.4	35.6	41.5	42.5	42.5	42.9	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2	43.2
OR >600	26.7	43.9	53.0	56.0	56.0	56.7	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
OR >300	27.4	45.4	55.2	58.8	58.8	59.7	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
OR >150	27.4	45.4	55.6	59.2	59.2	60.1	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5
OR > 0	28.2	48.1	59.9	64.7	64.7	66.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3	67.3
TOTAL	389	663	825	892	892	914	914	928	928	928	928	928	928	928	928	928

TOTAL NUMBER OF OBS: 1378

PCT FREQ NH <5/8: 31.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	3.3	4.9	7.9	7.4	8.0	7.2	10.6	12.7	30.7	7.3 1421
										8 OBSCD

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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)	PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY																CALM	TOTAL	PCT		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW				VAR	
<1/2	PCP	.1	.1	.4	.1	.2	.0	.2	.1	.0	.0	.2	.2	.1	.1	.1	.0	.0	.33	1.9	
	NO PCP	.0	.0	.0	.1	.2	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.17	1.0
	TOTAL	1	1	7	4	7	3	4	8	2	1	2	3	3	3	2	2	0	0	50	2.9
1/2<1	PCP	.1	.0	.1	.2	.2	.1	.2	.2	.1	.1	.1	.1	.1	.0	.0	.0	.0	.35	2.0	
	NO PCP	.0	.0	.1	.0	.1	.1	.1	.2	.0	.0	.0	.1	.0	.1	.1	.0	.0	.14	.8	
	TOTAL	2	0	3	3	5	2	6	6	1	1	3	3	1	1	1	0	0	49	2.8	
1<2	PCP	.1	.1	.6	.4	.5	.4	.2	.2	.1	.0	.2	.1	.1	.5	.1	.0	.1	.67	3.8	
	NO PCP	.0	.1	.1	.1	.2	.3	.2	.2	.1	.1	.3	.2	.2	.0	.1	.0	.0	.39	2.2	
	TOTAL	2	3	13	9	12	13	8	5	1	2	8	4	4	8	4	0	2	106	6.0	
2<5	PCP	.5	.0	.5	.6	.5	.6	.3	.1	.2	.1	.2	.1	.3	.3	.2	.0	.1	.86	4.9	
	NO PCP	.9	.2	.6	.7	.8	.5	.6	.3	.6	.4	.3	1.1	.4	.3	.4	.0	.0	152	8.7	
	TOTAL	23	3	20	24	23	18	17	14	11	13	8	20	12	11	11	0	2	238	13.6	
5<10	PCP	.8	.5	.3	.4	.6	.9	.7	.6	.5	.2	.2	.7	.4	.7	.7	.0	.0	152	8.7	
	NO PCP	1.8	.7	1.4	.9	1.0	.9	1.1	1.1	1.4	1.5	1.5	2.1	2.2	1.9	1.5	.0	.1	396	22.6	
	TOTAL	45	22	29	23	28	31	33	30	31	32	29	48	46	46	40	0	2	548	31.3	
10+	PCP	.3	.2	.2	.1	.1	.1	.2	.3	.0	.1	.2	.3	.1	.2	.2	.0	.0	51	2.9	
	NO PCP	4.6	2.3	2.2	2.1	2.6	2.0	2.1	3.0	1.3	1.6	1.8	4.2	2.5	3.3	2.7	.0	.4	711	40.6	
	TOTAL	87	43	41	37	46	36	41	59	23	30	36	79	46	61	52	0	7	762	43.5	
TOTAL PCT	160 9.1	72 4.1	113 6.4	100 5.7	121 6.9	106 6.0	109 6.2	89 5.1	74 4.2	79 4.5	84 4.8	157 9.0	112 6.4	129 6.3	110 6.3	0 .0	13 .7	1753 100.0			

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						0-3
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.5	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.9	
	22+	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	1.2	
	TOTAL	1	2	10	4	7	3	4	0	0	0	3	1	2	3	3	2	3	0	0	56	2.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	1.1	
	TOTAL	2	0	3	3	5	10	5	10	5	11	6	2	1	5	2	1	1	0	0	62	2.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	1.4	
	11-21	.0	.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	1.7	
	22+	.0	.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	2.9	
	TOTAL	5	3	16	10	15	13	9	9	2	7	2	4	8	8	5	9	5	0	2	130	6.2
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	19	.9
	4-10	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	2.3	
	11-21	.4	.2	.4	.5	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	98	4.7	
	22+	.8	.1	.4	.6	.3	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	130	6.2	
	TOTAL	28	6	25	25	26	18	18	11	15	14	15	19	11	27	12	23	14	0	4	296	14.1
5<10	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	27	1.3
	4-10	.6	.3	.5	.4	.1	.1	.3	.4	.1	.1	.4	.4	.3	.4	.4	.4	.2	.0	.0	117	5.6
	11-21	1.1	.6	.9	.6	.8	.6	.8	.6	.8	.8	.6	.6	1.5	1.1	1.3	.9	.9	.0	287	13.6	
	22+	.7	.3	.4	.7	.7	.8	.7	.8	.6	.6	.8	.8	.8	.8	.6	.6	.9	.0	.0	215	10.2
	TOTAL	52	25	43	34	39	33	34	34	34	43	34	39	33	59	51	52	42	0	5	646	30.7
10+	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	39	1.9
	4-10	1.2	.7	.6	.7	.9	.3	.8	.7	.9	.4	.7	.3	1.2	.6	.7	.7	.0	.0	239	11.3	
	11-21	2.1	1.0	1.2	1.1	1.0	1.2	1.0	1.0	.9	1.8	.9	1.1	2.0	1.2	1.8	.9	.0	.0	429	20.4	
	22+	1.2	.4	.4	.3	.9	.5	.3	.4	.4	.2	.4	.7	1.0	.9	.7	1.1	.0	.0	209	9.9	
	TOTAL	97	46	49	46	60	42	46	46	32	69	32	47	44	95	57	70	61	0	10	916	43.5
TOTAL	185	82	146	114	147	114	127	127	92	152	92	112	99	197	130	157	126	0	21	2106	100.0	
PCT	8.8	3.9	6.9	5.4	7.0	5.4	6.0	6.0	4.4	7.2	4.4	5.3	4.7	9.4	6.2	7.5	6.0	.0	1.0	100.0		

DECEMBER

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 10

HOUR (GMT)	PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8), AND OCCURRENCE OF NH <5/8 BY HOUR												TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	
00003	5.1	1.3	4.1	18.3	28.3	10.3	2.1	.0	.3	.3	69.9	30.1	389
06009	8.3	.3	2.4	15.2	30.4	8.9	.6	.0	.3	.0	66.4	33.6	336
12015	9.7	.0	2.7	10.6	33.5	10.3	1.5	.3	.0	.6	69.2	30.8	331
18021	7.5	.0	2.7	11.1	30.8	10.8	1.2	.9	.3	.3	65.6	34.4	334
TOT	105	6	42	194	426	140	19	4	3	4	943	447	1390
PCT	7.6	.4	3.0	14.0	30.6	10.1	1.4	.3	.2	.3	67.8	32.2	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+						
00003	1.6	2.0	6.8	13.5	21.3	54.3	385					
06009	1.2	1.2	5.1	15.5	27.8	49.3	325					
12015	3.1	.6	5.8	13.5	30.0	47.1	327					
18021	2.1	1.8	3.3	11.8	29.3	51.7	331					
TOT	27	22	73	187	370	699	1378					
PCT	2.0	1.6	5.3	13.6	26.9	50.7	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 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	
00003	4.9	12.5	38.4	33.5	28.1	385
06009	8.7	12.2	37.3	30.7	31.9	335
12015	9.8	13.5	32.7	40.7	26.6	327
18021	7.6	11.5	30.8	37.8	31.4	331
TOT	105	171	482	490	406	1378
PCT	7.6	12.4	35.0	35.6	29.5	100.0

DECEMBER

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1900-1969

AREA 0008 DUTCH HARBDR  
51-55N 165-172W

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				
50/54	.0	.0	.0	.0	.0	.2	1.4	.2	.0	.0	4	.3
45/49	.0	.0	.0	.0	.2	1.4	1.3	.5	.0	.0	44	3.3
40/44	.0	.0	.2	.2	2.2	4.7	8.2	12.2	.0	.0	368	27.7
35/39	.0	.0	.2	1.1	4.6	10.2	13.6	16.9	.0	.0	618	46.5
30/34	.0	.0	.0	.9	1.4	3.6	5.3	5.9	.0	.0	231	17.4
25/29	.0	.0	.0	.0	.8	1.3	1.1	1.4	.0	.0	61	4.6
20/24	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	3	.2
TOTAL	0	0	6	29	121	286	394	493			1329	100.0
PCT	.0	.0	.5	2.2	9.1	21.5	29.6	37.1				

TABLE 14

TEMP	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
50/54	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0
45/49	.3	.2	.2	.7	.8	.2	.2	.2	.0	.0	.0	.5
40/44	1.4	2.0	5.1	5.1	5.2	3.9	3.0	1.5	.0	.0	.0	.4
35/39	5.4	6.0	5.0	5.4	6.5	5.2	7.1	5.3	.0	.0	.0	.5
30/34	4.2	3.5	.6	.4	.3	.6	2.1	5.6	.0	.0	.0	.1
25/29	1.8	1.1	.0	.1	.1	.2	.2	1.1	.0	.0	.0	.2
20/24	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	175	174	146	155	173	134	168	184	0	0	0	20
PCT	13.2	13.1	11.0	11.7	13.0	10.1	12.6	13.8	.0	.0	.0	1.5

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
00003	52	47	44	38	30	25	22	37.8	593		
06009	52	47	43	38	30	25	22	37.3	527		
12015	51	45	42	37	30	27	23	37.0	450		
18021	52	46	44	37	28	25	22	37.0	541		
TOT	52	46	43	38	30	25	22	37.3	2111		

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
00003	.0	3.4	8.5	26.3	30.0	31.8	82				
06009	.0	2.0	11.3	19.7	31.3	35.7	83				
12015	.0	2.6	7.9	18.4	26.6	44.6	85				
18021	.0	2.3	8.6	20.1	29.9	39.1	84				
TOT	0	35	122	286	396	498	84				

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1700-1969

DECEMBER

AREA 0008 DUTCH HARBDR  
51-55N 165-172W

TABLE 17

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

AIR-SEA TMP DIF	21	25	29	33	37	41	45	49	TOT	W	WD
	24	28	32	36	40	44	48	52	FOG	FOG	FOG
9/10	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.3	.3	4	.0	.3
5	.0	.0	.0	.0	.0	.4	.3	.1	13	.1	.8
4	.0	.0	.0	.1	.1	.9	.9	.0	31	.1	1.9
3	.0	.0	.0	.0	.3	1.3	.4	.0	31	.3	1.7
2	.0	.0	.0	.1	1.8	3.5	.3	.0	91	.2	5.6
1	.0	.0	.0	.1	2.5	2.6	.1	.0	82	.2	5.0
0	.0	.0	.0	.4	8.2	3.9	.1	.0	199	.3	12.3
-1	.0	.0	.0	.4	7.9	1.6	.1	.0	158	.1	9.9
-2	.0	.0	.0	2.0	10.1	1.0	.0	.0	207	.1	13.0
-3	.0	.0	.0	3.0	4.2	.3	.0	.0	118	.1	7.4
-4	.0	.0	.3	5.2	4.1	.6	.0	.0	162	.2	10.1
-5	.0	.0	.6	4.6	3.7	.1	.1	.0	145	.1	9.1
-6	.0	.0	.8	2.6	1.6	.2	.0	.0	83	.0	5.2
-7/-8	.0	.0	2.3	3.6	1.0	.0	.0	.0	109	.0	6.9
-9/-10	.0	.7	1.9	2.0	.3	.0	.0	.0	78	.0	4.9
-11/-13	.0	1.5	1.2	.5	.0	.0	.0	.0	51	.0	3.2
-14/-16	.1	.6	.2	.0	.0	.0	.0	.0	13	.0	.8
-17/-19	.1	.3	.0	.0	.0	.0	.0	.0	5	.0	.3
TOTAL	2	48	116	388	727	258	40	3	1582	24	1558
PCT	.1	3.0	7.3	24.5	46.0	16.3	2.5	.2	100.0	1.5	98.5

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

DECEMBER  
TABLE 18

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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

HGT	N						NE						TOTAL
	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	.3	.0	.0	.0	.0	2
1-2	.0	1.8	.4	.0	.0	.0	.4	1.1	.3	.0	.0	.0	13
3-4	.0	.8	2.0	.0	.0	.0	.0	1.3	3.2	.4	.0	.0	37
5-6	.0	.1	2.6	.5	.0	.0	.0	.5	2.2	.8	.0	.0	27
7	.0	.1	1.4	1.1	.0	.0	.0	.0	.9	.3	.0	.0	9
8-9	.0	.0	.3	.7	.0	.0	.0	.0	.1	.0	.0	.0	1
10-11	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	1
12	.0	.0	.0	.0	.4	.0	.0	.0	.1	.3	.0	.0	3
13-16	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1	3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.1	.0	0
26-32	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1
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
TOTAL	0	23	51	20	10	0	3	24	52	16	1	1	97
PCT	.0	3.0	6.7	2.6	1.3	.0	.4	3.2	6.8	2.1	.1	.1	12.8

HGT	E						SE						TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1
1-2	.0	1.4	.8	.0	.0	.0	.1	2.1	.5	.0	.0	.0	21
3-4	.0	.4	2.0	.4	.0	.0	.0	.4	2.4	.0	.0	.0	21
5-6	.0	.1	2.1	.5	.1	.0	.0	.1	1.8	.5	.0	.0	19
7	.0	.0	.4	.7	.0	.0	.0	.0	.3	.1	.1	.0	4
8-9	.0	.0	.1	.3	.3	.0	.0	.0	.4	1.6	.0	.0	15
10-11	.0	.0	.0	.7	.3	.0	.0	.0	.3	.3	.0	.0	4
12	.0	.0	.1	.4	.4	.0	.0	.0	.3	.1	.0	.0	3
13-16	.0	.0	.0	.4	1.2	.0	.0	.0	.0	.1	.5	.0	5
17-19	.0	.0	.0	.1	.7	.0	.0	.0	.0	.0	.1	.0	1
20-22	.0	.0	.0	.0	.4	.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
TOTAL	1	16	42	26	25	4	1	21	45	21	6	0	94
PCT	.1	2.1	5.5	3.4	3.3	.5	.1	2.8	5.9	2.8	.8	.0	12.4

PERIOD: (PRIMARY) DECEMBER AREA 0008 DUTCH HARBOR  
 (OVER-ALL) 1963-1969 TABLE 18 51-55N 165-172W

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

HGT	S						TOTAL	48+	SW						TOTAL
	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	.0	.0	.0	.0	.0	.0	.0	
1-2	.4	1.3	.7	.0	.0	.0	.0	.3	.5	.1	.0	.0	.0	.7	
3-4	.0	.7	1.7	.1	.0	.0	.0	.0	.7	.7	.0	.0	.0	1.0	
5-6	.0	.5	2.2	.1	.0	.0	.0	.0	.0	.8	.1	.1	.0	.8	
7	.0	.0	1.4	.8	.0	.0	.0	.0	.1	.8	.4	.0	.0	1.0	
8-9	.0	.0	.4	.4	.1	.0	.0	.0	.0	.7	.7	.0	.0	.5	
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.3	.0	.0	.2	
13-16	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.3	.1	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	3	20	49	24	4	100	0	2	10	18	14	3	0	50	
PCT	.4	2.6	6.4	3.2	.5	13.2	.0	.3	1.3	2.4	1.8	.4	.0	6.6	

HGT	W						TOTAL	48+	NW						TOTAL
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.3	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.4	
1-2	.0	.5	.5	.0	.0	.0	.0	.3	.8	.9	.0	.0	.0	1.5	
3-4	.0	1.2	1.1	.4	.0	.0	.0	.0	.4	2.9	.5	.0	.0	2.9	
5-6	.0	.4	1.6	.1	.0	.0	.0	.1	.3	1.3	.4	.0	.0	1.6	
7	.0	.0	1.1	.5	.1	.0	.0	.0	.1	.9	.7	.0	.0	1.3	
8-9	.0	.1	.7	.5	.1	.0	.0	.0	.0	.1	.4	.0	.0	.4	
10-11	.0	.0	.1	.7	.3	.0	.0	.0	.0	.5	.4	.1	.0	.8	
12	.0	.0	.0	.9	.1	.0	.0	.0	.0	.3	.1	.3	.0	.5	
13-16	.0	.0	.1	.9	.5	.0	.0	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	1	19	39	31	12	104	2	4	15	53	21	4	0	97	
PCT	.1	2.5	5.1	4.1	1.6	13.7	.3	.5	2.0	7.0	2.8	.5	.0	12.8	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

DECEMBER

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-23	34-47	48+	48+	48+	48+	48+	
<1	.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	17
1-2	1.4	9.6	4.2	.0	.0	.0	.0	.0	.0	.0	116
3-4	.0	5.8	15.7	1.8	.0	.0	.0	.0	.0	.0	178
5-6	.1	2.1	14.7	3.1	.3	.0	.0	.0	.0	.0	155
7	.0	.4	7.2	4.5	.3	.0	.0	.0	.0	.0	94
8-9	.0	.1	2.1	4.5	.5	.0	.0	.0	.0	.0	55
10-11	.0	.0	.9	2.8	.7	.0	.0	.0	.0	.0	33
12	.0	.0	.8	2.6	1.3	.0	.0	.0	.0	.0	36
13-16	.0	.0	.1	2.5	3.0	.3	.0	.0	.0	.0	45
17-19	.0	.0	.0	1.1	1.0	.1	.0	.0	.0	.0	10
20-22	.0	.0	.0	.5	.8	.4	.0	.0	.0	.0	13
23-25	.0	.0	.0	.1	.7	.5	.0	.0	.0	.0	10
26-32	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1
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
TOTAL	18	148	349	173	65	10	763				
PCT	2.4	19.4	45.7	22.7	8.5	1.3	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	3-4	5-6	7	8-9	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	.3	4.1	7.8	5.8	2.1	1.9	.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	186	4
6-7	.1	.0	3.0	5.1	3.6	1.6	1.4	1.6	1.5	.8	.8	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	165	8
8-9	.0	.1	5.6	3.6	5.9	5.5	2.1	.8	2.0	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	221	7
10-11	.0	.0	1.3	2.0	2.8	3.1	2.4	1.0	2.5	1.0	.9	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	140	10
12-13	.0	.0	.4	1.3	.4	1.0	.8	.9	1.4	.6	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	59	11
>13	.0	.0	.0	.3	.1	.1	.1	.4	.4	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	11
INDET	1.1	.0	.0	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	3
TOTAL	12	34	144	145	122	106	61	40	65	27	20	15	8	0	0	0	0	0	0	0	0	799	7
PCT	1.5	4.3	18.0	18.1	15.3	13.3	7.6	5.0	8.1	3.4	2.5	1.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1859-1970

AREA 0006 DUTCH HARBOR  
51-55N 165-172W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT		TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	SHWR	SHWR			FRZG	SNOW	OTHER		FRZN	PCPN			PCPN	PCPN	FOG	SMOKE	
N	.3	*	*	.3	*	.6	*	*	1.2	306	.0	.3	*	*	4.8	1654	
NNE	.2	*	*	.2	*	.3	*	*	.7	176	.0	.2	*	*	2.5	872	
NE	.5	*	*	.3	*	.4	*	*	1.3	335	.0	.3	*	*	2.9	1198	
ENE	.4	*	*	.4	*	.2	.0	*	1.0	269	.0	.2	*	*	2.3	938	
E	.7	*	*	.5	*	.2	.0	.0	1.4	367	*	.4	*	*	3.1	1293	
ESE	.8	*	*	.4	*	.1	*	.0	1.2	320	.0	.4	*	.0	2.3	1023	
SE	.9	*	*	.6	*	.2	*	.1	1.7	454	.0	.8	*	.1	3.5	1617	
SSE	.6	*	*	.5	*	.1	.0	*	1.2	314	*	.7	*	*	3.1	1328	
S	.8	*	*	.7	*	.2	*	*	1.7	447	.0	1.3	*	*	4.7	2033	
SSW	.5	*	*	.4	*	.1	.0	.0	1.0	261	.0	.8	*	*	3.3	1338	
SW	.6	*	*	.6	*	.2	.0	*	1.5	389	.0	1.2	*	*	4.9	2002	
WSW	.5	*	*	.4	*	.2	*	*	1.2	316	*	.8	*	*	5.8	2058	
W	.6	*	*	.5	*	.4	.0	.1	1.7	442	.0	1.0	.1	*	9.8	3275	
WNW	.2	*	*	.2	*	.3	*	*	.8	209	.0	.4	*	*	5.5	1773	
NW	.3	*	*	.2	*	.5	*	*	1.1	276	*	.5	*	*	5.7	1921	
NNW	.2	*	*	.1	*	.4	*	*	.7	192	.0	.3	*	*	4.2	1367	
VAR	.0	*	*	.0	*	.0	.0	.0	.0	0	.0	.0	.0	.0	*	6	
CALM	*	*	*	.1	*	*	.0	.0	.2	41	.0	.4	*	*	1.2	472	
TOT OBS	2104	285	1676	6	1165	18	80	5114	5	2640	174	24	18211	26168	100.0		
TOT PCT	8.0	1.1	6.4	*	4.5	.1	.3	19.5	*	10.1	.7	.1	69.6	100.0			

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT		TOTAL PCPN	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
	SHWR	SHWR			FRZG	SNOW	OTHER		FRZN	PCPN			PCPN	PCPN	FOG	SMOKE	
00003	6.9	1.2	5.7	*	4.7	.1	.3	1314	18.3	10.2	.8	*	10.2	.1	70.6	7191	
06009	8.2	.9	5.9	*	4.3	*	.3	1215	18.7	10.3	.7	*	10.3	.2	70.0	6487	
12015	8.4	1.1	6.4	*	3.7	.1	.3	1207	19.1	8.3	.4	*	8.3	.1	72.1	6306	
18021	8.7	1.1	7.6	.0	5.1	.1	.3	1409	22.0	11.5	.6	*	11.5	*	65.8	6412	
TOT	2118	286	1684	6	1173	18	80	5145	5	2662	174	24	18386	26396			
PCT	8.0	1.1	6.4	*	4.4	.1	.3	19.5	*	10.1	.7	.1	69.7	100.0			

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PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1899-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

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	00	03	06	09	12	15	18	21
N	.4	2.0	2.4	1.3	.3	*	2092	6.5	15.7	6.4	6.2	6.9	5.6	6.1	5.9	6.6	6.5
NNE	.2	1.1	1.3	.6	.1	*	1073	3.3	15.5	3.3	2.9	3.4	3.3	3.1	3.1	3.4	4.4
NE	.5	1.5	1.7	.9	.2	.0	1549	4.8	14.7	5.1	5.2	5.1	4.1	3.8	4.5	5.1	3.8
ENE	.1	1.0	1.4	.7	.2	*	1106	3.4	16.4	3.4	5.5	2.9	3.9	3.5	2.8	3.5	4.3
E	.3	1.4	1.9	.9	.3	*	1561	4.8	16.3	5.4	4.0	5.3	3.2	4.4	4.3	4.6	3.9
ESE	.1	.9	1.5	.9	.3	*	1221	3.8	18.0	3.5	5.4	3.4	5.6	3.8	4.5	3.5	4.6
SE	.4	1.6	2.5	1.3	.3	*	2025	6.3	16.5	6.5	5.1	6.8	6.6	5.9	6.5	6.0	5.8
SSE	.2	1.3	2.0	1.2	.2	*	1596	4.9	17.0	4.6	6.9	4.3	6.4	4.9	6.5	4.7	7.7
S	.4	2.2	3.1	1.5	.4	*	2460	7.6	16.0	7.6	7.6	7.9	5.8	8.2	6.8	7.4	6.8
SSW	.2	1.3	2.2	1.1	.3	*	1661	5.1	16.8	5.2	4.1	4.9	6.4	5.2	5.2	5.1	6.3
SW	.5	2.4	3.2	1.6	.3	*	2627	8.1	15.9	8.4	8.2	8.5	7.5	7.4	7.9	8.3	6.3
WSW	.2	1.8	3.2	1.8	.4	.1	2449	7.6	18.0	7.2	7.7	6.9	8.1	8.3	9.3	7.4	8.3
W	.5	3.2	5.0	2.6	.6	.1	3898	12.0	16.9	12.1	10.2	11.8	11.5	13.4	11.9	11.6	11.6
WNW	.2	1.8	2.9	1.5	.3	*	2172	6.7	17.0	6.6	7.4	6.5	7.4	7.3	7.9	6.2	6.4
NW	.4	2.2	3.3	1.6	.4	*	2548	7.9	16.3	7.9	7.0	8.2	7.9	7.2	7.0	8.3	7.7
NNW	.2	1.4	2.1	1.1	.3	*	1660	5.1	16.9	5.0	5.9	4.9	5.9	5.3	5.5	5.2	4.4
VAR	*	*	.0	.0	.0	.0	6	*	1.8	*	.0	*	.0	*	.0	*	.0
CALM	2.1	8836	12910	6667	1596	176	685	2.1	.0	1.9	.7	2.3	.8	2.2	.4	3.0	1.2
TOT OBS	2204	27.3	35.9	20.6	4.9	.5	32389	100.0	16.2	7882	1164	7075	1074	5703	1348	7080	1063
TOT PCT	6.8									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	00	03	06	09	12	15	18	21
N	1.8	4.1	2.8	1.1	.1	3165	9.8	15.6	9.7	9.1	10.3	8.8	9.2	9.1	10.0	10.9
NE	1.6	3.3	2.3	.9	.1	2655	8.2	15.4	8.4	10.7	8.0	8.0	7.3	7.3	8.6	8.1
E	1.2	3.4	2.6	1.1	.2	2782	8.6	17.0	8.9	9.4	8.7	8.8	8.2	8.8	8.2	8.5
SE	1.7	4.3	3.6	1.3	.2	3621	11.2	16.7	11.0	11.9	11.1	13.0	10.7	13.0	10.7	13.5
S	1.8	5.4	3.9	1.4	.2	4121	12.7	16.3	12.7	11.7	12.8	12.2	13.4	11.9	12.5	13.1
SW	2.3	6.1	5.1	1.8	.4	5076	15.7	16.9	15.6	16.0	15.4	15.6	15.8	17.3	15.8	14.6
W	2.3	7.9	5.9	2.4	.3	6070	18.7	17.0	18.7	17.6	18.3	18.9	20.6	19.8	17.8	18.0
NW	1.8	5.5	4.0	1.5	.2	4208	13.0	16.5	12.9	13.0	13.1	13.8	12.5	12.5	13.5	12.1
VAR	*	.0	.0	.0	.0	6	*	1.8	*	.0	*	.0	*	.0	*	.0
CALM	2.1	12957	9757	3759	529	685	2.1	.0	1.9	.7	2.3	.8	2.2	.4	3.0	1.2
TOT OBS	5387	40.0	20.1	11.6	1.6	32389	100.0	16.2	7882	1164	7075	1074	5703	1348	7080	1063
TOT PCT	16.6								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1942-1970  
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AREA 0008 DUTCH HARBOR  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				CALM		PCT		TOTAL OBS	
	1-3	4-10	11-21	22-33	34-47	48+	MEAN	FREQ		
00003	5.0	27.4	39.2	20.8	5.4	.5	1.8	16.3	100.0	9044
06009	5.1	27.1	40.0	20.3	4.8	.6	2.1	16.1	100.0	8148
12015	2.7	26.5	42.0	21.3	5.1	.7	1.8	16.8	100.0	7049
18021	5.6	28.0	38.7	20.0	4.4	.5	2.8	15.7	100.0	8142
TOT	1514	8835	12910	6667	1596	176	685	16.2		32383
PCT	4.7	27.3	39.9	20.6	4.9	.5	2.1	100.0		

TABLE 5

FCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	9-10	11-12		
N	.6	.5	2.1	3.2	133)	6.5				
NNE	.3	.2	.9	2.0	707	6.6				
NE	.3	.3	1.0	2.6	875	6.8				
ENE	.3	.2	.8	2.2	725	6.7				
E	.2	.2	1.0	3.5	1007	7.2				
ESE	.1	.1	.8	2.9	816	7.4				
SE	.3	.3	1.1	4.0	1184	7.1				
SSE	.3	.3	.9	3.7	1077	7.1				
S	.5	.5	1.5	5.3	1612	7.0				
SSW	.4	.3	1.1	3.5	1093	6.9				
SW	.4	.5	1.8	4.4	1470	6.9				
WSW	.5	.8	2.1	4.5	1629	6.7				
W	1.0	1.4	4.1	6.4	2684	6.5				
WNW	.5	.8	2.5	3.3	1470	6.4				
NW	.5	.8	2.7	3.4	1561	6.4				
NNW	.5	.6	1.8	2.5	1129	6.4				
VAR	*	*	.0	*	6	5.8				
CALM	.1	.2	.4	1.2	378	6.7				
TOT OBS	1410	1649	5546	12148	20753	6.7				
TOT PCT	6.9	7.9	26.7	58.5	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.5	*	.2	1.2	1.9	.8	.1	*	*	*	1.5	1330
NNE	.2	*	.1	.6	1.2	.5	.1	*	*	*	.7	707
NE	.4	*	.2	.7	1.4	.5	.1	*	*	*	.9	875
ENE	.4	.1	.1	.6	1.0	.4	.1	*	*	*	.8	725
E	.6	.1	.2	1.0	1.5	.6	.1	*	*	*	.8	1007
ESE	.5	.1	.2	.8	1.2	.5	.1	*	*	*	.5	816
SE	1.0	.1	.2	1.0	1.5	.6	.1	*	*	*	1.0	1184
SSE	.9	*	.3	1.0	1.2	.5	.1	*	*	*	1.0	1077
S	1.6	.1	.4	1.4	1.8	.7	.2	*	*	*	1.6	1612
SSW	.9	.1	.3	1.0	1.2	.6	.1	*	*	*	1.0	1093
SW	1.1	.1	.3	1.2	1.9	.8	.2	*	*	*	1.5	1470
WSW	.7	.1	.4	1.5	2.2	.9	.2	*	*	*	1.8	1629
W	1.0	.1	.5	2.4	3.4	1.7	.4	*	*	*	3.3	2684
WNW	.5	*	.2	1.3	2.1	.9	.2	*	*	*	1.9	1470
NW	.5	.1	.3	1.2	2.1	1.1	.2	*	*	*	2.0	1561
NNW	.3	*	.2	.9	1.7	.7	.2	*	*	*	1.4	1129
VAR	.0	.0	*	*	.0	.0	.0	*	*	*	*	6
CALM	.4	*	*	.2	.4	.2	*	*	*	*	.4	378
TOT OBS	2372	201	874	3747	5727	2491	510	111	72	68	4580	20753
TOT PCT	11.4	1.0	4.2	18.1	27.6	12.0	2.5	.5	.3	.3	22.1	100.0

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1899-1970

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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	.4	.6	.6	.6	.7	.7	.7	.7
OR >5000	.8	1.1	1.2	1.2	1.2	1.2	1.2	1.2
OR >3500	2.3	3.4	3.6	3.6	3.7	3.7	3.7	3.7
OR >2000	8.9	13.9	15.3	15.6	15.7	15.7	15.7	15.7
OR >1000	21.1	36.0	41.3	42.7	43.0	43.3	43.3	43.3
OR >600	26.4	48.1	57.5	60.1	60.8	61.2	61.3	61.3
OR >300	27.3	50.4	60.9	63.9	64.8	65.3	65.5	65.5
OR >150	27.4	50.8	61.6	64.7	65.7	66.3	66.4	66.5
OR > 0	27.7	52.5	64.9	69.4	71.7	74.9	77.5	77.9
TOTAL	5759	10920	13486	14436	14916	15564	16108	16186

TOTAL NUMBER OF OBS: 20790

PCT FREQ NH <5/8: 22.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)											
	0	1	2	3	4	5	6	7	8	TOTAL	
										OBSCD OPS	
	2.4	2.9	5.7	5.6	5.4	5.8	10.2	12.1	39.6	10.4	21950

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AREA 0008 DUTCH HARBOR  
51-55N 165-172W

PERIOD: (PRIMARY) 1942-1970  
(OVER-ALL) 1899-1970

TABLE 8

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

VSBY (NM)	N	NNE	NE	ESE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
PCP	.1	*	.1	.1	.1	.1	.1	*	.1	.1	.1	*	.1	*	*	*	.0	*	284	1.1
NO PCP	.2	.1	.1	.2	.2	.4	.4	.4	.8	.5	.6	.4	.5	.2	.2	.1	.0	.2	1387	5.3
TOTAL	63	24	47	75	79	43	146	116	240	139	181	127	155	60	72	40	0	64	1671	6.4
PCP	.1	*	.1	.2	.2	.1	.2	.1	.2	.1	.1	.1	.1	*	*	*	.0	*	422	1.6
NO PCP	.1	*	.1	.1	.1	.2	.2	.2	.2	.1	.2	.2	.2	.1	.1	*	.0	*	515	2.0
TOTAL	47	19	56	57	69	43	96	65	102	65	67	64	81	38	34	22	0	12	937	3.6
PCP	.2	.1	.2	.2	.2	.2	.2	.2	.3	.1	.2	.1	.2	.1	.1	.1	.0	*	749	2.9
NO PCP	.1	.1	.1	.1	.1	.1	.2	.2	.3	.2	.3	.3	.3	.1	.1	.1	*	.1	713	2.7
TOTAL	64	45	86	95	93	73	127	108	135	84	132	104	113	64	69	44	1	25	1462	5.6
PCP	.3	.2	.4	.4	.4	.3	.6	.4	.5	.3	.4	.3	.4	.2	.3	.2	.0	.1	1432	5.5
NO PCP	.4	.3	.4	.4	.4	.2	.6	.4	.7	.6	.8	.7	1.1	.5	.5	.3	.0	.1	2204	8.5
TOTAL	202	112	191	194	208	132	303	208	306	223	324	251	380	195	212	142	0	47	3636	13.9
PCP	.4	.2	.4	.4	.4	.3	.5	.4	.5	.4	.5	.5	.7	.3	.4	.3	.0	*	1722	6.6
NO PCP	1.6	.9	1.0	.9	1.1	.8	1.3	1.2	1.9	1.3	1.9	2.3	3.8	2.0	2.1	1.5	*	.3	6764	25.9
TOTAL	518	291	373	334	399	275	474	406	627	434	644	738	1174	595	651	463	1	89	8486	32.6
PCP	.2	.1	.1	*	.1	.1	.1	.1	.1	.1	.1	.1	.3	.1	.1	.1	.0	*	488	1.9
NO PCP	2.8	1.4	1.6	1.0	1.6	1.3	1.7	1.5	2.2	1.4	2.3	2.8	5.0	3.0	3.2	2.4	*	.9	9386	36.0
TOTAL	758	373	444	268	432	366	462	413	614	390	638	765	1366	820	877	655	4	229	9874	37.9
TOTAL	1652	870	1197	1023	1280	932	1608	1316	2024	1335	1986	2049	3269	1772	1915	1366	6	466	26066	100.0
PCT	6.3	3.3	4.6	3.9	4.9	3.6	6.2	5.0	7.8	5.1	7.6	7.9	12.5	6.8	7.3	5.2	*	1.8	100.0	

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PERIOD: (PRIMARY) 1942-1970  
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AREA 0008 DUTCH HARBOR  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
<1/2	0-3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.0	.2	165	.5
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.2	.1	.1	*	.0	621	1.9	
	11-21	*	*	*	*	*	*	*	.2	.4	.2	.3	.2	.2	.1	.1	.1	.0	702	2.2	
	22+	*	*	*	*	*	*	.1	.1	.1	.1	.1	.1	.1	*	*	*	.0	299	.9	
TOTAL	64	28	56	52	82	82	160	127	252	144	189	131	166	61	78	43	0	67	1787	5.6	
1/2<1	0-3	*	*	.0	*	*	*	*	*	*	*	*	*	*	*	*	.0	.0	*	42	.1
	4-10	.1	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	.0	272	.9	
	11-21	*	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	.0	401	1.3	
	22+	.1	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	.0	312	1.0	
TOTAL	50	26	58	47	98	74	98	69	112	68	76	70	89	46	42	32	0	12	1027	3.2	
1<2	0-3	*	.0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.1	73	.2
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	.0	367	1.2	
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	618	1.9	
	22+	.1	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	621	1.9	
TOTAL	80	49	100	80	103	103	141	124	151	98	143	117	131	84	86	60	1	28	1679	5.3	
2<5	0-3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.0	.2	247	.8
	4-10	.2	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	908	2.8	
	11-21	.3	.2	.2	.2	.3	.3	.4	.3	.4	.3	.4	.3	.5	.2	.3	.2	.0	1566	4.9	
	22+	.3	.1	.3	.2	.3	.3	.4	.3	.4	.3	.5	.4	.5	.3	.3	.2	.0	1557	4.9	
TOTAL	252	142	233	146	218	235	357	243	347	250	397	289	436	221	272	172	0	68	4278	13.4	
5<10	0-3	.1	*	.1	*	.1	*	.1	.1	.1	.1	.1	.1	.2	.1	.1	*	*	.5	592	1.9
	4-10	.5	.3	.4	.3	.4	.3	.4	.4	.6	.4	.6	.5	1.0	.5	.7	.4	.0	2454	7.7	
	11-21	.8	.4	.6	.4	.6	.5	.8	.9	.7	.7	1.0	1.2	1.7	1.0	1.1	.7	.0	4157	13.0	
	22+	.6	.3	.4	.3	.4	.4	.6	.5	.7	.5	.8	.9	1.4	.6	.8	.5	.0	3087	9.7	
TOTAL	643	345	483	326	482	482	607	478	736	521	823	866	1359	708	844	534	1	148	10290	32.2	
10+	0-3	.2	.1	.2	*	.1	*	.2	.1	.2	.1	.2	.1	.2	.1	.2	.1	*	1.0	972	3.0
	4-10	1.1	.6	.7	.5	.7	.4	.7	.5	1.0	.5	1.1	.9	1.5	.9	1.1	.8	*	4077	12.8	
	11-21	1.2	.6	.7	.6	.8	.5	.8	.7	1.0	.8	1.2	1.3	2.4	1.5	1.6	1.1	.0	5327	16.7	
	22+	.6	.2	.3	.2	.3	.2	.3	.4	.3	.3	.5	.7	1.2	.8	.8	.6	.0	2470	7.7	
TOTAL	975	470	598	442	555	555	627	515	824	553	957	947	1680	1032	1196	799	4	319	12846	40.3	
TOTAL PCT	2064	1060	1528	1093	1536	1200	1990	1556	2422	1634	2585	2420	3861	2152	2518	1640	6	642	31907	100.0	
		6.5	3.3	4.8	3.4	4.8	6.2	4.9	7.6	5.1	8.1	7.6	12.1	6.7	7.9	5.1	*	2.0	100.0		

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PERIOD: (PRIMARY) 1942-1970  
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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
	149	299	599	999	1999	3499	4999	6499	7999				
00003	8.5	1.2	4.1	17.7	27.3	12.2	3.0	.6	.4	.5	75.5	24.5	5665
06009	11.7	.9	4.0	18.0	27.9	11.7	2.6	.5	.4	.3	78.1	21.9	5241
12015	14.4	.6	3.8	17.3	26.3	11.8	1.8	.4	.3	.2	76.9	23.1	4939
18021	11.3	1.1	4.7	18.3	27.6	11.8	2.3	.6	.2	.3	78.3	21.7	5228
TOT	2397	201	876	3757	5750	2510	518	112	72	68	16261	4812	21073
PCT	11.4	1.0	4.2	17.8	27.3	11.9	2.5	.5	.3	.3	77.2	22.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	5.5	2.5	4.4	11.8	25.8	49.9	5575
06009	6.0	2.5	4.8	13.4	29.6	43.6	5176
12015	6.8	2.3	4.9	14.8	32.4	38.8	4876
18021	6.4	2.3	4.9	13.2	29.9	43.2	5163
TOT	1287	500	992	2755	6092	9164	20790
PCT	6.2	2.4	4.8	13.3	29.3	44.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	1000+ <5 AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	8.8	15.6	39.7	22.4	5575
06009	11.9	18.2	43.7	20.0	5176
12015	14.6	20.1	45.5	21.0	4876
18021	11.4	18.4	44.1	19.9	5163
TOT	2401	3750	8974	7480	20790
PCT	11.5	18.0	43.2	20.9	100.0

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PERIOD: (PRIMARY) 1942-1970  
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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				
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.1
60/64	.0	.0	.0	.0	.1	.1	.2	.2	.2	.2	99	.5
55/59	.0	.0	.0	.0	.1	.8	1.2	1.2	1.2	1.2	650	3.3
50/54	.0	.0	.0	.0	.1	1.6	5.6	6.1	6.1	2778	14.0	
45/49	.0	.0	.0	.0	.2	3.6	7.8	10.3	10.3	4494	22.6	
40/44	.0	.0	.0	.1	.3	4.3	7.0	11.0	11.0	4857	24.4	
35/39	.0	.0	.0	.1	.5	2.0	7.7	10.5	10.5	5011	25.2	
30/34	.0	.0	.0	.0	.2	.5	2.4	2.9	2.9	1427	7.2	
25/29	.0	.0	.0	.0	.0	.4	.5	1.1	1.1	441	2.2	
20/24	.0	.0	.0	.0	.0	.2	.2	.3	.3	130	.7	
15/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	
TOTAL	2	3	47	262	1181	3297	6483	8635	19910	100.0		
PCT	*	*	.2	1.3	5.9	16.6	32.6	43.4				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	*	*
	.2	.2	.3	.5	.6	.7	.4	.2	.0	.0	*	.1
	.9	.8	1.1	1.5	2.3	3.0	2.6	1.3	.0	.0	*	.2
	1.9	1.9	1.8	2.1	2.8	3.8	4.7	2.9	.0	.0	*	.4
	1.8	2.3	2.3	3.4	3.6	3.8	4.1	3.0	.0	.0	*	.6
	2.3	2.2	2.4	3.1	3.3	3.9	4.6	3.1	.0	.0	*	.4
	1.7	1.1	.5	.3	.3	.5	1.2	1.6	.0	.0	*	.1
	.7	.4	.1	.1	.0	.1	.3	.6	.0	.0	*	.0
	.3	.2	.0	.0	.0	.0	.0	.1	.0	.0	*	.0
	1933	1694	1709	2226	2576	3166	3563	2560	.0	.0	*	.0
	9.7	8.5	8.6	11.2	12.9	15.9	17.9	12.9	.2	.2	*	481
											*	2
											*	2.4

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL		
00003	69	59	55	44	32	25	12	43.7	9042		84
06009	68	57	54	43	31	25	12	42.7	8161		5740
12015	67	55	52	41	32	25	16	41.8	7064		5160
18021	69	56	52	42	31	24	13	42.2	8143		3899
TOT	69	57	54	43	32	25	12	42.7	32410		5201

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
00003	.0	2.0	7.6	20.0	33.9	36.5	84				
06009	*	1.6	5.4	15.0	32.2	44.7	86				
12015	*	1.3	5.1	14.5	32.6	46.4	87				
18021	.0	1.3	5.2	14.8	31.5	47.3	87				
TOT	2	314	1185	3309	6513	8677	86				



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

HGT	N				NE				TOTAL				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.1	.5	.0	.0	.0	.0	*	.3	.0	.0	.0	.0	37
1-2	.1	1.2	.9	.0	.0	.0	.1	.9	.8	.0	.0	.0	168
3-4	*	1.0	1.2	.3	.0	.0	*	.5	1.2	.3	.0	.0	208
5-6	*	.2	1.1	.4	*	.0	*	.2	.9	.2	*	.0	136
7	.0	*	.6	.6	.1	.0	*	*	.4	.4	*	.0	89
8-9	.0	*	.3	.4	.1	.0	*	*	.1	.3	.1	.0	50
10-11	.0	*	.1	.2	*	.0	.0	.0	*	.2	*	*	27
12	.0	.0	.1	.1	.1	.0	.0	.0	*	.1	.1	.0	18
13-16	.0	.0	*	.1	.1	.0	.0	.0	.0	.2	.1	.0	32
17-19	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	.0	4
20-22	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	.0	4
23-25	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	.0	3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
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
TOTAL	30	298	427	215	51	0	17	194	344	179	43	2	779
PCT	.3	2.9	4.2	2.1	.5	.0	.2	1.9	3.4	1.8	.4	*	7.7

HGT	E				SE				TOTAL				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.1	.4	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	55
1-2	.1	1.0	.8	.0	.0	.0	.1	.8	.9	.0	.0	.0	177
3-4	*	.6	1.2	.2	.0	.0	.0	.7	1.4	.4	.0	.0	248
5-6	.0	.2	1.1	.4	.1	.0	.0	.3	1.6	.6	*	.0	258
7	.0	*	.4	.3	.1	.0	.0	.1	.9	.8	*	.0	186
8-9	.0	.0	.3	.3	.1	.0	.0	*	.2	.8	.1	.0	115
10-11	.0	*	.1	.3	.1	.0	.0	.0	.1	.4	.2	.0	71
12	.0	*	.1	.1	.1	.0	.0	.0	.1	.1	.1	.0	33
13-16	.0	.0	.0	.2	.4	.0	.0	.0	.1	.2	.1	.0	38
17-19	.0	.0	*	*	.1	.0	.0	.0	.0	*	*	.0	4
20-22	.0	.0	.0	*	.1	.0	.0	.0	.0	*	*	.0	3
23-25	.0	.0	.0	*	*	.0	.0	.0	.0	*	*	.0	3
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
TOTAL	18	223	397	195	100	10	18	242	531	339	60	1	1191
PCT	.2	2.2	3.9	1.9	1.0	.1	.2	2.4	5.3	3.4	.6	*	11.8

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

HGT	S					M					NW					TOTAL	48+	TOTAL
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47			
<1	.1	.4	.0	.0	.0	.1	.4	.0	.0	.0	.1	.3	.0	.0	.0	.0	44	445
1-2	.1	1.3	.9	.0	.0	.1	1.1	.9	.0	.0	1.1	1.0	.0	.0	.0	.0	238	1748
3-4	*	.9	1.6	.3	.0	.1	1.1	1.7	.3	.0	1.1	1.7	.2	.0	.0	.0	314	2263
5-6	.0	.4	1.6	.5	*	.0	.4	2.0	.6	*	.3	1.7	.5	*	.0	.0	260	1997
7	.0	.1	1.1	.8	*	.0	.1	1.4	1.0	*	.0	.7	.5	.1	.0	.0	139	1380
8-9	.0	*	.3	.5	.1	.0	*	.6	.8	.1	.0	.3	.6	.1	.0	.0	105	850
10-11	.0	*	.1	.4	.1	.0	*	.1	.6	.1	.0	.2	.4	.1	.0	.0	71	530
12	.0	.0	*	.2	*	.0	*	.1	.2	.1	.0	*	.2	.1	.0	.0	36	279
13-16	.0	.0	*	.3	.2	.0	*	.1	.4	.2	.0	*	.2	.1	.0	.0	44	397
17-19	.0	.0	*	*	.2	.0	*	.1	.4	.2	.0	*	.2	.1	.0	.0	4	74
20-22	.0	.0	*	*	.1	.0	.0	*	.1	.1	.0	.0	*	*	.0	.0	4	64
23-25	.0	.0	.0	*	.1	.0	.0	.0	.1	.1	.0	.0	*	*	.0	.0	7	44
26-32	.0	.0	.0	*	.1	.0	.0	.0	.1	.1	.0	.0	*	*	.0	.0	3	33
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	0	0
49-60	.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
71-86	.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
TOTAL	30	313	570	307	61	27	322	694	416	83	15	1557	83	1557	15	1557	10104	10104
PCT	.3	3.1	5.6	3.0	.6	.3	3.2	6.9	4.1	.8	.1	12.7	.8	12.7	.1	15.4	126.9	100.0

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

ANNUAL

AREA 0008 DUTCH HARBOR  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	0-3	4-10	11-21	22-33	
<1	2.6	3.5	.0	.0	.0	.0	.0	.0	.0	.0	625
1-2	.8	9.0	7.2	.0	.0	.0	.0	.0	.0	.0	1756
3-4	.4	7.1	12.3	2.3	.0	.0	.0	.0	.0	.0	2268
5-6	.1	2.5	12.5	4.0	.3	.0	.0	.0	.0	.0	1999
7	*	.7	6.9	5.4	.4	*	.0	.0	.0	.0	1381
8-9	.0	.2	2.8	4.5	.8	.0	.0	.0	.0	.0	850
10-11	.0	.1	1.1	3.2	.8	*	.0	.0	.0	.0	530
12	.0	*	.4	1.5	.7	.1	.0	.0	.0	.0	279
13-16	.0	*	.3	2.1	1.4	.1	.0	.0	.0	.0	397
17-19	.0	*	*	.3	.3	*	.0	.0	.0	.0	74
20-22	.0	.0	*	.2	.3	*	.0	.0	.0	.0	64
23-25	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	44
26-32	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	33
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
TOTAL	395	2385	4484	2438	557	41	10300				
PCT	3.8	23.2	43.5	23.7	5.4	.4	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)																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	.9	7.0	10.1	6.1	2.6	1.5	.8	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3376	4
6-7	*	1.0	5.6	8.8	6.3	3.3	2.2	1.0	1.6	.4	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	3485	6
8-9	.0	.3	1.7	3.4	5.5	3.6	2.2	1.1	1.7	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	2310	8
10-11	.0	.1	.5	.8	1.5	2.1	1.4	.8	1.3	.4	.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	1072	10
12-13	.0	.0	.1	.2	.2	.6	.6	.3	.6	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	359	12
>13	.0	.0	.0	*	.2	.1	.1	.2	.4	*	.1	*	*	.1	.0	.0	.0	.0	.0	.0	149	14
INDET	5.4	*	*	.1	.1	*	*	*	*	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.0	654	0
TOTAL	717	958	2055	2207	1861	1282	838	427	657	152	118	67	66	0	0	0	0	0	0	0	11405	0
PCT	6.3	8.4	18.0	19.4	16.3	11.2	7.3	3.7	5.8	1.3	1.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	100.0	6

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
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TABLE 20  
PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.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	6	.1
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	.2
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	.9
49/50	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	257	3.1
47/48	.4	.1	.2	.6	.7	.8	.7	.6	.5	.5	.2	.2	846	5.9
45/46	2.2	.6	1.6	4.0	7.1	8.1	7.6	6.6	5.5	5.3	2.2	.8	1589	8.2
43/44	5.4	3.0	2.4	7.2	15.2	19.3	23.7	24.1	24.2	22.4	1.9	.2	2216	8.7
41/42	12.1	7.6	7.2	11.5	32.1	24.7	15.7	17.7	17.7	15.8	5.3	.8	2362	8.7
39/40	37.0	31.0	22.8	32.7	32.1	31.7	32.0	7.8	13.5	33.3	22.2	3.6	3694	13.6
37/38	32.3	44.6	45.0	37.7	9.2	16.4	2.2	1.5	3.1	3.6	31.4	11.9	2925	10.8
35/36	6.1	10.2	15.6	9.2	2.2	6.4	1.0	.4	1.1	1.7	27.1	28.0	3185	11.8
33/34	2.7	2.1	3.2	1.6	2.2	1.1	.0	.0	.3	.9	8.3	36.0	4478	16.5
31/32	1.4	.4	.4	.6	.8	.4	.0	.0	.0	.0	1.5	16.0	4072	15.0
29/30	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0	1074	4.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	239	.9
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	37	.1
TOTAL	1880	2047	2285	2458	2365	2615	2919	2685	2245	2089	1619	1890	27097	100.0
MEAN	38.8	38.2	37.9	38.7	40.9	44.0	47.5	50.3	49.7	46.5	43.1	40.3	43.3	

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1901-1970

AREA 0008 DUTCH HARBOR  
51-55N 165-172W

TABLE 21

PRESSURE (MB)

MD	AVERAGE BY HOUR (GMT)												TOTAL OBS	EXTREMES									
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	MAX	YEAR	DA		HR	MIN	YEAR	DA	HR					
JAN	1001	1004	1000	1003	1002	1002	1000	1004	1001	1001	1004	1000	1004	1001	1040	1962	16	12	958	1966	22	12	
FEB	1000	1005	1000	1002	1002	1002	1001	1004	1001	1001	1004	1001	1004	1001	1044	1922	06	12	959	1942	03	06	
MAR	1010	1013	1011	1012	1011	1012	1010	1012	1011	1011	1012	1010	1012	1011	1039	1966	06	06	960	1965	05	18	
APR	1012	1010	1012	1010	1013	1010	1012	1012	1012	1012	1012	1012	1012	1012	1044	1967	22	00	969	1930	28	15	
MAY	1011	1013	1011	1008	1012	1010	1012	1009	1011	1011	1009	1012	1009	1011	1044	1964	20	12	971	1952	30	12	
JUN	1012	1014	1012	1013	1013	1013	1012	1014	1012	1012	1014	1012	1012	1012	1039	1953	19	06	972	1965	02	12	
JUL	1016	1017	1016	1016	1017	1015	1016	1015	1016	1016	1015	1016	1016	1016	1038	1961	30	21	986	1936	01	00	
AUG	1013	1014	1013	1012	1013	1013	1013	1011	1013	1011	1013	1013	1011	1013	1038	1960	08	12	980	1956	27	18	
SEP	1009	1007	1009	1009	1009	1008	1008	1007	1009	1009	1007	1008	1009	1009	1036	1964	03	06	966	1968	26	18	
OCT	1006	1002	1006	1004	1006	1003	1006	1005	1006	1006	1005	1006	1006	1006	1038	1961	09	12	965	1959	21	12	
NOV	1003	1000	1004	1000	1005	1000	1004	998	1003	1003	998	1004	1003	1003	1045	1950	12	09	959	1968	15	00	
DEC	1002	1000	1003	999	1003	1001	1002	1000	1002	1002	1000	1002	1002	1002	1048	1965	27	06	956	1959	08	15	
ANN	1009	1009	1009	1008	1010	1008	1009	1008	1009	1008	1008	1009	1008	1009	1983								
OBS	7562	1025	6774	1073	5520	1209	6791	1048							31002								

PERCENTILES

MD	1%	5%	25%	50%	75%	95%	99%
JAN	963	974	989	1001	1014	1028	1034
FEB	967	975	990	1000	1012	1026	1031
MAR	973	985	1002	1012	1021	1031	1036
APR	977	986	1004	1013	1021	1033	1039
MAY	981	990	1003	1012	1020	1031	1037
JUN	985	994	1006	1012	1020	1028	1032
JUL	992	1001	1011	1017	1022	1029	1033
AUG	989	995	1007	1014	1020	1027	1032
SEP	971	987	1001	1010	1017	1027	1032
OCT	971	981	997	1007	1015	1026	1032
NOV	965	977	99~	1003	1015	1030	1037
DEC	964	976	991	1001	1013	1030	1042

JANUARY

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS					
	SHWR	SHWR			FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	DUST	BLWG		DUST	SIG	NO SIG		
N	.2	.0	.0	.0	.0	.0	.0	.2	2.3	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	55	
NNE	.1	.0	.0	.1	.0	1.9	.0	.1	2.2	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	52
NE	.2	.0	.0	.3	.0	1.7	.0	.0	2.3	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	65
ENE	.2	.0	.0	.2	.0	1.0	.0	.0	1.5	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	46
E	.9	.0	.0	1.0	.0	2.0	.0	.0	3.9	34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	85
ESE	.6	.1	.0	.6	.0	.3	.0	.1	1.6	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	32
SE	1.3	.2	.0	1.3	.0	1.5	.0	.2	4.2	36	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	104
SSE	.6	.0	.0	.8	.0	.5	.0	.0	1.6	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	52
S	.5	.0	.0	.7	.0	.1	.0	.0	1.3	11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	42
SSW	.6	.0	.0	.2	.0	.1	.0	.3	1.0	9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	32
SW	.2	.1	.0	.2	.0	.8	.0	.3	1.5	13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	45
WSW	.3	.1	.0	.3	.0	.8	.0	.0	1.6	14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	43
W	.2	.1	.0	.3	.0	1.6	.0	.1	2.3	20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	90
WNW	.1	.0	.0	.0	.0	.6	.0	.1	.7	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	35
NW	.3	.0	.0	.0	.0	1.0	.0	.0	1.4	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	45
NNW	.0	.0	.0	.0	.0	.7	.0	.0	.7	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	31
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	.1	.0	.0	.1	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	7
TOT OBS	56	6	54	54	0	144	1	14	.1	262	0	32	21	0	544	0	544	0	544	0	861	7
TOT PCT	6.5	.7	6.3	6.3	.0	16.7	.1	1.6	30.4	262	.0	3.7	2.4	.0	63.4	.0	63.4	.0	63.4	.0	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS					
	SHWR	SHWR			FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	DUST	BLWG		DUST	SIG	NO SIG		
0003	7.2	.4	7.6	7.6	.0	19.5	.0	3.0	35.2	83	.0	5.1	4.2	.0	55.5	.0	55.5	.0	55.5	.0	236	236
0609	7.3	.4	5.6	5.6	.0	16.8	.0	.9	29.7	69	.0	3.4	2.2	.0	64.7	.0	64.7	.0	64.7	.0	232	232
12015	4.4	.5	3.0	3.0	.0	12.3	.0	1.0	20.7	42	.0	3.0	.5	.0	75.9	.0	75.9	.0	75.9	.0	203	203
18021	7.7	1.5	8.7	8.7	.0	18.9	.5	1.5	37.2	73	.0	3.1	2.6	.0	57.1	.0	57.1	.0	57.1	.0	196	196
TOT	58	6	54	54	0	147	1	14	.1	267	0	32	21	0	547	0	547	0	547	0	867	867
PCT	6.7	.7	6.2	6.2	.0	17.0	.1	1.6	30.8	267	.0	3.7	2.4	.0	63.1	.0	63.1	.0	63.1	.0	100.0	100.0

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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	2.0	2.4	1.6	.6	.1	89	6.8	19.1	7.6	3.9	6.2	7.0	8.4	10.0	6.6	3.5
NNE	.2	2.0	2.1	1.5	.3	.1	80	6.1	17.6	6.7	11.5	6.2	5.3	4.7	5.0	7.2	5.2
NE	.2	2.6	4.1	3.3	.8	.0	131	9.9	18.1	10.5	11.5	7.8	12.3	5.8	15.0	4.8	16.8
ENE	.0	.6	2.2	1.4	.6	.0	63	4.8	21.3	2.9	3.8	8.3	4.8	6.3	7.5	3.6	3.5
E	.2	3.2	3.4	2.3	.8	.2	132	10.0	18.1	12.3	7.7	10.9	12.8	5.3	5.0	7.8	10.4
ESE	.0	.5	1.7	1.3	.2	.0	49	3.7	20.3	4.1	7.7	2.6	3.7	3.7	2.5	1.8	5.8
SE	.2	2.6	4.4	2.7	1.4	.2	151	11.5	20.0	10.8	.0	8.3	14.4	13.2	10.0	10.8	13.9
SSE	.0	.9	1.5	1.4	.6	.1	60	4.6	21.8	3.8	3.8	5.7	2.1	6.3	7.5	7.2	2.3
S	.2	1.6	2.0	1.1	.2	.0	66	5.0	15.9	5.8	3.8	2.6	3.2	8.9	2.5	6.0	3.5
SSW	.2	.8	1.7	.5	.1	.0	44	3.3	16.2	3.2	11.5	4.7	1.6	3.7	.0	4.8	1.7
SW	.8	3.0	1.5	.8	.2	.2	85	6.5	13.7	5.0	7.7	6.2	7.0	8.4	7.5	5.4	7.5
WSW	.3	1.1	1.6	1.3	.2	.2	62	4.7	18.5	5.8	.0	3.6	3.2	3.2	7.5	4.8	6.9
W	.2	2.3	3.6	2.2	.7	.1	120	9.1	18.3	9.6	11.5	10.4	8.0	7.4	10.0	10.8	7.5
WNW	.2	1.1	.9	.9	.2	.0	44	3.3	17.8	5.6	3.8	5.7	2.7	3.7	2.5	5.4	.6
NW	.3	2.1	1.6	.7	.4	.0	66	5.0	14.8	3.2	11.5	5.7	7.0	7.9	.0	4.8	2.9
NNW	.4	1.2	1.8	.5	.2	.0	55	4.2	15.6	4.1	.0	4.1	3.7	2.1	7.5	7.2	4.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	363	482	296	99	13	20	1.5	17.8	1.8	.0	1.0	1.1	1.1	.0	.6	4.0
TOT OBS	64	27.6	36.6	22.5	7.5	1.0	1317	100.0		342	26	193	187	190	40	166	173
TOT PCT	4.9	27.6	36.6	22.5	7.5	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)											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	1.3	4.7	4.5	2.0	.4	169	12.8	18.3	14.3	15.4	12.4	12.3	13.2	15.0	13.9	8.7	
NE	1.1	5.5	5.4	2.4	.3	194	14.7	19.1	13.5	15.4	16.1	17.1	12.1	22.5	8.4	20.2	
E	1.7	4.7	4.4	2.4	.5	181	13.7	18.7	16.4	15.4	13.5	16.6	8.9	7.5	9.6	16.2	
SE	1.4	5.2	5.7	2.7	1.0	211	16.0	20.5	14.6	3.8	14.0	16.6	19.5	17.5	18.1	16.2	
S	1.2	3.9	2.3	1.0	.5	110	8.4	16.0	9.1	15.4	7.3	4.8	12.6	2.5	10.8	5.2	
SW	3.2	3.9	2.2	1.4	.5	147	11.2	15.7	10.8	17.7	8.8	10.2	11.6	15.0	10.2	14.5	
W	1.6	4.7	3.6	2.4	.2	164	12.5	18.1	12.3	15.4	16.1	10.7	11.1	12.5	16.3	8.1	
NW	1.5	4.9	1.6	1.1	.2	121	9.2	15.2	7.3	11.5	9.8	10.7	10.0	7.5	12.0	6.9	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	493	391	200	40	20	1.5	17.8	1.8	.0	1.0	1.1	1.1	.0	.6	4.0	
TOT OBS	193	37.4	29.7	15.2	3.0	1317	100.0		342	26	193	187	190	40	166	173	
TOT PCT	14.7	37.4	29.7	15.2	3.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	PERCENTAGE FREQUENCY								WIND SPEED (KNOTS)			PCT TOTAL		
	0-2	3-4	5-7	8 & 6	8 & 6	8 & 6	8 & 6	8 & 6	34-47	48+	CALM	MEAN	FREQ	OBS
N	.5	.3	2.7	2.5	36	6.4	1.3	.2	9.5	1.4	1.6	18.6	100.0	368
NNE	.3	.7	3.2	2.5	40	6.4	.3	.2	6.6	1.8	1.1	17.6	100.0	380
NE	.8	.5	2.5	2.9	40	6.1	.0	.5	8.3	.0	.9	18.2	100.0	230
ENE	.2	.0	.8	4.6	33	7.5	.7	.0	5.9	.3	2.4	16.8	100.0	339
E	1.2	.3	1.7	6.4	57	6.6	1.2	.2	99	13	20	17.8		1317
ESE	.8	.2	.7	1.0	16	5.3	.0	.0	7.5	1.0	1.5			
SE	.5	.7	1.7	6.7	57	7.1	.5	.2						
SSE	.2	.0	1.3	5.2	40	7.5	1.5	.5						
S	.7	.3	1.3	2.9	31	6.4	1.0	.2						
SSW	.7	1.3	.2	1.5	22	5.0	.3	.0						
SW	1.0	.7	1.5	1.9	30	5.3	.2	.0						
WSW	1.0	1.2	1.3	1.0	27	4.7	.3	.5						
W	.8	4.0	4.2	1.5	63	4.9	.2	.2						
WNW	.5	1.5	2.2	1.2	32	5.5	.2	.2						
NW	.7	.5	2.9	2.2	37	6.1	.0	.0						
NNW	.0	.5	2.7	1.5	28	6.4	.2	.2						
VAR	.0	.0	.0	.0	0	.0	.0	.0						
CALM	.0	.3	.0	.3	4	5.8	.0	.0						
TOT OBS	59	78	184	272	593	6.2	47	6	25	87	164	66	12	593
TOT PCT	9.9	13.2	31.0	45.9	100.0		7.9	1.0	4.2	14.7	27.7	11.1	2.0	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL CLOUD		MEAN CLOUD COVER			
	0-2	3-4	5-7	8 & 6	8 & 6	8 & 6	8 & 6	8 & 6	TOTAL OBS					
N	.5	.3	2.7	2.5	36	6.4	1.3	.2	9.5	1.4	1.6	18.6	100.0	368
NNE	.3	.7	3.2	2.5	40	6.4	.3	.2	6.6	1.8	1.1	17.6	100.0	380
NE	.8	.5	2.5	2.9	40	6.1	.0	.5	8.3	.0	.9	18.2	100.0	230
ENE	.2	.0	.8	4.6	33	7.5	.7	.0	5.9	.3	2.4	16.8	100.0	339
E	1.2	.3	1.7	6.4	57	6.6	1.2	.2	99	13	20	17.8		1317
ESE	.8	.2	.7	1.0	16	5.3	.0	.0	7.5	1.0	1.5			
SE	.5	.7	1.7	6.7	57	7.1	.5	.2						
SSE	.2	.0	1.3	5.2	40	7.5	1.5	.5						
S	.7	.3	1.3	2.9	31	6.4	1.0	.2						
SSW	.7	1.3	.2	1.5	22	5.0	.3	.0						
SW	1.0	.7	1.5	1.9	30	5.3	.2	.0						
WSW	1.0	1.2	1.3	1.0	27	4.7	.3	.5						
W	.8	4.0	4.2	1.5	63	4.9	.2	.2						
WNW	.5	1.5	2.2	1.2	32	5.5	.2	.2						
NW	.7	.5	2.9	2.2	37	6.1	.0	.0						
NNW	.0	.5	2.7	1.5	28	6.4	.2	.2						
VAR	.0	.0	.0	.0	0	.0	.0	.0						
CALM	.0	.3	.0	.3	4	5.8	.0	.0						
TOT OBS	59	78	184	272	593	6.2	47	6	25	87	164	66	12	593
TOT PCT	9.9	13.2	31.0	45.9	100.0		7.9	1.0	4.2	14.7	27.7	11.1	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								TOTAL		NH <5/8		TOTAL OBS	
	0-2	3-4	5-7	8 & 6	8 & 6	8 & 6	8 & 6	8 & 6	3500	4999	5000	6499		7999
N	.5	.3	2.7	2.5	36	6.4	1.3	.2	9.5	1.4	1.6	18.6	100.0	368
NNE	.3	.7	3.2	2.5	40	6.4	.3	.2	6.6	1.8	1.1	17.6	100.0	380
NE	.8	.5	2.5	2.9	40	6.1	.0	.5	8.3	.0	.9	18.2	100.0	230
ENE	.2	.0	.8	4.6	33	7.5	.7	.0	5.9	.3	2.4	16.8	100.0	339
E	1.2	.3	1.7	6.4	57	6.6	1.2	.2	99	13	20	17.8		1317
ESE	.8	.2	.7	1.0	16	5.3	.0	.0	7.5	1.0	1.5			
SE	.5	.7	1.7	6.7	57	7.1	.5	.2						
SSE	.2	.0	1.3	5.2	40	7.5	1.5	.5						
S	.7	.3	1.3	2.9	31	6.4	1.0	.2						
SSW	.7	1.3	.2	1.5	22	5.0	.3	.0						
SW	1.0	.7	1.5	1.9	30	5.3	.2	.0						
WSW	1.0	1.2	1.3	1.0	27	4.7	.3	.5						
W	.8	4.0	4.2	1.5	63	4.9	.2	.2						
WNW	.5	1.5	2.2	1.2	32	5.5	.2	.2						
NW	.7	.5	2.9	2.2	37	6.1	.0	.0						
NNW	.0	.5	2.7	1.5	28	6.4	.2	.2						
VAR	.0	.0	.0	.0	0	.0	.0	.0						
CALM	.0	.3	.0	.3	4	5.8	.0	.0						
TOT OBS	59	78	184	272	593	6.2	47	6	25	87	164	66	12	593
TOT PCT	9.9	13.2	31.0	45.9	100.0		7.9	1.0	4.2	14.7	27.7	11.1	2.0	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)	VSBY (NM)		>1		>1/2		>1/4		>50YD		>0	
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0				
= DR >6500	.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= DR >5000	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= DR >3500	2.4	3.4	3.4	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
= DR >2000	9.1	14.4	14.7	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.1
= DR >1000	26.2	39.6	41.3	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6
= DR >600	32.3	51.1	55.8	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
= DR >300	34.7	54.3	59.4	61.1	61.3	61.6	61.6	61.6	61.6	61.6	61.6	61.6
= DR >150	34.9	54.7	59.9	61.6	61.9	62.3	62.3	62.3	62.3	62.3	62.3	62.3
= DR > 0	35.0	57.5	65.1	67.7	69.4	69.7	69.7	69.7	69.7	69.7	69.7	69.7
= TOTAL	207	340	385	400	410	412	412	412	412	412	412	412

TOTAL NUMBER OF OBS: 591

PCT FREQ NH <5/8: 29.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	3.5	4.0	5.9	8.0	8.1	7.8	13.5	11.3	30.9	7.0
										628

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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	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
PCP	.4	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	10	1.2
NO PCP	.0	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.6
TOTAL	3	0	0	1	1	1	2	1	1	1	3	0	2	0	0	0	0	0	15	1.8
PCP	.4	.2	.1	.0	.4	.2	.2	.0	.1	.0	.1	.5	.0	.1	.0	.2	.0	.0	22	2.6
NO PCP	.0	.0	.0	.2	.1	.0	.5	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	11	1.3
TOTAL	3	2	1	2	4	2	6	2	2	0	1	4	1	1	0	2	0	0	33	3.9
PCP	.0	.2	.0	.5	.5	.2	.9	.4	.1	.1	.2	.1	.5	.0	.0	.0	.0	.0	32	3.8
NO PCP	.2	.1	.2	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	11	1.3
TOTAL	2	3	2	4	4	2	10	5	1	1	3	1	4	0	1	0	0	0	43	5.1
PCP	.8	.6	.8	.1	1.1	.6	1.3	.7	.5	.4	.5	.5	.4	.1	.2	.0	.0	.0	72	8.5
NO PCP	.4	.2	.5	.1	.4	.0	.9	.4	.2	.0	.1	.2	.6	.0	.4	.2	.0	.0	39	4.6
TOTAL	10	7	11	2	12	5	19	9	6	3	5	6	8	1	5	2	0	0	111	13.1
PCP	.6	.7	.6	.4	1.6	.7	.7	.5	.4	.2	.5	.6	.8	.5	.7	.2	.0	.1	83	9.8
NO PCP	.7	.6	2.2	1.4	2.0	.9	2.7	1.6	1.4	.8	1.3	.8	2.7	1.3	1.3	1.1	.0	.0	195	23.0
TOTAL	11	11	24	15	31	14	29	18	15	9	15	12	30	15	17	11	0	1	278	32.7
PCP	.1	.5	.5	.4	.4	.0	.6	.0	.2	.4	.1	.0	.5	.0	.4	.2	.0	.0	35	4.1
NO PCP	2.8	2.9	2.4	2.1	3.3	1.2	3.4	2.0	1.8	1.8	2.0	2.4	4.8	2.1	2.1	1.6	.0	.6	334	39.3
TOTAL	25	29	24	21	31	10	34	17	17	18	18	20	45	18	21	16	0	5	369	43.5
TOTAL	54	52	62	45	83	33	100	52	42	32	45	43	90	35	44	31	0	6	849	100.0
PCT	6.4	6.1	7.3	5.3	9.8	3.9	11.8	6.1	4.9	3.8	5.3	5.1	10.6	4.1	5.2	3.7	.0	.7	100.0	

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	6	.5
	11-21	.2	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	7	.5
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	4	.3
	TOTAL	4	0	0	1	1	1	2	2	1	2	3	1	2	2	0	0	0	0	18	1.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
	4-10	.1	.1	.1	.0	.2	.0	.2	.1	.1	.1	.0	.2	.2	.0	.2	.2	.0	.0	20	1.6
	11-21	.3	.1	.2	.1	.0	.1	.2	.1	.0	.0	.1	.2	.0	.0	.0	.1	.0	.0	18	1.4
	22+	.0	.0	.0	.2	.1	.1	.3	.0	.1	.1	.0	.1	.1	.1	.1	.1	.0	.0	17	1.3
	TOTAL	5	2	4	5	4	4	6	6	2	2	1	6	3	3	1	4	5	0	56	4.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.3
	4-10	.2	.1	.5	.2	.2	.0	.2	.1	.1	.0	.1	.1	.5	.0	.2	.0	.0	.0	27	2.1
	11-21	.1	.0	.3	.1	.2	.1	.3	.1	.1	.0	.1	.1	.2	.0	.1	.0	.0	.0	24	1.9
	22+	.2	.2	.2	.2	.2	.0	.5	.3	.1	.0	.2	.0	.0	.0	.1	.0	.0	.0	27	2.1
	TOTAL	6	3	12	6	7	7	13	6	6	3	1	5	2	9	1	4	0	0	81	6.3
2<5	0-3	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.1	.6
	4-10	.2	.2	.4	.0	.6	.0	.8	.1	.1	.1	.6	.3	.2	.0	.3	.0	.0	.0	50	3.9
	11-21	.2	.1	.9	.1	.3	.2	.7	.2	.5	.1	.1	.3	.2	.0	.0	.0	.0	.0	52	4.1
	22+	.5	.5	.5	.1	.9	.4	.9	.5	.2	.2	.4	.2	.4	.1	.2	.2	.0	.0	77	6.0
	TOTAL	11	10	24	2	24	24	31	10	10	10	4	15	12	10	2	8	4	0	185	14.5
5<10	0-3	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	.0	.1	.0	.2	.2	.0	.0	.3	13
	4-10	.1	.2	.8	.1	.7	.4	.5	.4	.3	.2	.7	.2	.7	.2	.4	.2	.0	.0	77	6.0
	11-21	.7	.5	.9	.5	1.0	.5	1.5	.6	.5	.4	.5	.5	.6	.5	.5	.8	.0	.0	135	10.6
	22+	.5	.4	.9	.9	1.2	.5	1.3	.5	.2	.2	.5	.6	1.6	.5	.6	.4	.0	.0	141	11.0
	TOTAL	16	14	34	18	38	38	42	19	17	9	23	17	38	16	22	20	0	0	366	28.7
10+	0-3	.1	.1	.2	.0	.0	.0	.1	.0	.1	.2	.3	.2	.1	.0	.1	.2	.0	.0	32	2.5
	4-10	1.4	1.5	.8	.3	1.5	.2	.9	.3	.9	.5	1.6	.3	.7	.9	1.1	.8	.0	.0	175	13.7
	11-21	.9	1.5	1.7	1.5	1.9	.9	1.7	.5	.8	1.2	.9	.6	2.6	.5	.9	.9	.0	.0	240	18.8
	22+	1.0	.9	1.1	.5	.9	.2	1.3	.7	.5	.2	.0	.8	.9	.5	.1	.2	.0	.0	124	9.7
	TOTAL	43	51	48	30	54	54	51	20	28	26	35	24	55	24	27	26	0	0	571	44.7
TOTAL	85	80	122	62	128	48	145	58	61	44	82	62	117	117	44	65	55	0	19	1277	100.0
PCT	6.7	6.3	9.6	4.9	10.0	3.8	11.4	4.5	4.8	3.4	6.4	4.9	9.2	9.2	3.4	5.1	4.3	.0	1.5	100.0	

JANUARY

PERIOD: (PRIMARY) 1943-1970  
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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	7.7	1.9	4.5	17.4	27.1	14.2	1.9	.0	1.3	.0	76.1	23.9	155
06009	6.5	.0	3.0	16.1	28.0	11.3	2.4	.6	.0	1.8	69.6	30.4	168
12015	7.7	1.4	3.5	9.8	27.3	12.6	.7	.7	.7	.7	65.0	35.0	143
18021	9.3	.7	5.7	13.6	26.4	7.1	2.9	.0	.7	.0	66.4	33.6	140
TOT	47	6	25	87	165	69	12	2	4	4	421	185	606
PCT	7.8	1.0	4.1	14.4	27.2	11.4	2.0	.3	.7	.7	69.5	30.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL
(GMT)							OBS
00003	2.0	2.7	3.4	9.5	23.6	58.8	148
06009	.6	.6	2.4	10.8	28.7	56.9	167
12015	.0	.7	1.4	9.3	28.6	60.0	140
18021	.7	2.9	2.9	5.1	33.1	55.1	136
TOT	5	10	15	52	168	341	591
PCT	.8	1.7	2.5	8.8	28.4	57.7	100.0

TABLE 12

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

HR	< 150	< 600	< 1000	1000+	NH < 5/8	TOTAL
(GMT)	< 50YD	< 1	< 5	AND 5+	AND 5+	OBS
00003	7.4	14.2	35.1	43.9	20.9	148
06009	6.6	9.6	31.1	38.9	29.9	167
12015	7.9	12.1	26.4	40.7	32.9	140
18021	10.3	16.9	34.6	34.6	30.9	136
TOT	47	77	188	234	169	591
PCT	8.0	13.0	31.8	39.6	28.6	100.0

JANUARY

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

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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				
45/49	.0	.0	.0	.1	.1	.5	.3	.5			15	1.5
40/44	.0	.0	.2	.5	1.0	2.1	3.5	10.0			172	17.4
35/39	.0	.1	.3	1.3	5.1	6.3	13.1	22.3			478	48.5
30/34	.0	.0	.0	.9	1.1	2.4	11.1	10.5			257	26.1
25/29	.0	.0	.0	.1	.5	.9	1.1	3.3			59	6.0
20/24	.0	.0	.0	.0	.0	.1	.2	.2			5	.5
TOTAL	0	1	5	29	77	122	289	463			986	100.0
PCT	.0	.1	.5	2.9	7.8	12.4	29.3	47.0				

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP											VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR	CALM			
	.0	.1	.3	.4	.5	.0	.1	.1	.1	.1	.0	.0	.0
	.3	.9	4.7	5.9	2.6	1.4	1.1	.5	.5	.0	.0	.0	.0
	4.6	7.1	7.5	7.9	4.2	6.1	6.4	4.3	4.3	.0	.5	.5	.5
	4.5	5.1	1.8	1.2	1.1	3.2	4.0	4.5	.7	.0	.3	.3	.3
	2.5	1.5	.1	.1	.1	.0	.6	.7	.0	.0	.0	.0	.0
	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
	119	145	142	153	84	106	121	99	0	0	17	17	17
	12.1	14.7	14.4	15.5	8.5	10.8	12.3	10.0	.0	.0	1.7	1.7	1.7

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0003	48	46	43	36	29	26	20	36.4			368
0609	47	44	42	36	29	27	25	35.9			378
12015	46	44	42	36	29	23	23	35.9			229
18021	46	44	42	36	27	21	20	35.2			340
TOT	48	45	42	36	28	25	20	35.9			1315

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	5.4	9.4	10.4	9.4	10.4	29.5	45.3	85	278	
0609	.0	2.3	9.6	10.6	9.6	10.6	27.9	49.5	86	301	
12015	.0	4.1	7.6	17.9	22.8	47.6	85	87	264		
18021	.0	2.7	4.2	13.3	34.1	45.8	87	86	988		
TOT	0	35	77	122	289	465	86	86	988		

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

JANUARY

AREA 0009 ADAK  
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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	21	24	25	28	29	32	33	36	37	41	45	TOT	M	WD
													FOG	FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.5	13	.1	1.6
4	.0	.0	.0	.0	.0	.0	.0	.1	.4	1.2	.0	13	.4	1.3
3	.0	.0	.0	.0	.0	.0	.4	.4	.5	1.6	.0	19	.5	2.0
2	.0	.0	.0	.0	.0	.0	.4	1.5	2.2	.1	.0	31	.4	3.8
1	.0	.0	.0	.0	.0	.3	1.5	1.3	1.3	.0	.0	23	.3	2.8
0	.0	.0	.0	.0	.1	1.5	7.5	1.2	1.2	.0	.0	77	.8	9.5
-1	.0	.0	.0	.0	.0	1.2	4.8	.5	.5	.0	.0	49	.0	6.6
-2	.0	.0	.0	.0	.1	4.2	6.7	.5	.0	.0	.0	86	.1	11.4
-3	.0	.0	.0	.0	.3	4.7	3.6	.1	.1	.0	.0	65	.1	8.6
-4	.0	.0	.0	.0	.9	6.7	2.8	.0	.0	.0	.0	78	.3	10.2
-5	.1	.3	.1	.3	1.1	6.9	2.2	.0	.0	.0	.0	78	.1	10.3
-6	.0	.1	.1	.1	1.7	3.2	1.3	.3	.3	.0	.0	50	.3	6.5
-7/-8	.1	.3	.4	.4	4.0	1.6	.0	.0	.0	.0	.0	78	.1	10.3
-9/-10	.0	.4	3.6	1.6	.3	.0	.0	.0	.0	.0	.0	44	.3	5.6
-11/-13	.0	2.0	1.6	.3	.0	.0	.0	.0	.0	.0	.0	29	.0	3.9
-14/-16	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
-17/-19	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	4	25	105	264	262	75	9	744	29	715				
PCT	.5	3.4	14.1	35.5	35.2	10.1	1.2	100.0	3.9	96.1				

PERIOD: (PRIMARY) JANUARY AREA 0009 ADAK  
(OVER-ALL) 1969-1970 TABLE 18 51-55N 172-180W

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
1-2	.0	1.2	.0	.0	.0	.0	3	.4	.4	.0	.0	.0	.0	2	
3-4	.0	.4	.0	.0	.0	.0	1	.0	.8	2.8	.0	.0	.0	9	
5-6	.0	.4	1.2	.4	.0	.0	5	.0	.4	.8	.0	.0	.0	9	
7	.0	.0	.8	.0	.8	.0	4	.0	.0	2.0	1.6	.0	.0	9	
8-9	.0	.0	.4	1.2	.0	.0	4	.0	.0	.0	.4	.0	.0	1	
10-11	.0	.0	.4	.8	.0	.0	3	.0	.0	.4	.0	.4	.0	2	
12	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.4	.0	.0	2	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	5	7	8	2	1	23	1	4	15	6	3	0	29	
PCT	.0	2.0	2.8	3.2	.8	.4	9.1	.4	1.6	6.0	2.4	1.2	.0	11.5	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
1-2	.0	.8	.8	.0	.0	.0	4	.0	.4	.4	.0	.0	.0	2	
3-4	.0	.0	.8	.4	.4	.0	2	.0	.4	1.2	.4	.0	.0	5	
5-6	.0	.0	2.4	.4	.4	.0	8	.0	2.0	1.6	.4	.0	.0	10	
7	.0	.8	.8	.8	.0	.0	6	.0	.4	1.6	.0	.0	.0	5	
8-9	.0	.0	.4	.4	.0	.0	2	.0	.0	.0	1.2	.0	.0	3	
10-11	.0	.0	.4	.0	.0	.0	1	.0	.0	.4	1.6	.0	.0	5	
12	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.4	.0	.0	1	
13-16	.0	.0	.0	1.2	.0	.0	3	.0	.0	.0	.4	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	4	14	8	1	1	28	0	8	13	10	1	1	33	
PCT	.0	1.6	5.6	3.2	.4	.4	11.1	.0	3.2	5.2	4.0	.4	.4	13.1	

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 JANUARY  
 TABLE 18  
 AREA 0009 ADAK  
 51-55N 172-180W

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

HGT	S										TOTAL	48+	TOTAL	
	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	.0
1-2	.0	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.0	13	4	1	1	1	1	1	1	1	1	1	1
PCT	.0	2.8	5.2	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

HGT	W										TOTAL	48+	TOTAL	
	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	.0
1-2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.8	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	10	21	21	3	1	1	1	1	1	1	1	1	1
PCT	.0	4.0	8.3	8.3	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0

JANUARY

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

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	1.2	.4	.0	.0	.0	.0	4				
1-2	.4	6.7	2.7	.0	.0	.0	25				
3-4	.4	7.8	9.0	1.6	.0	.0	48				
5-6	.0	3.1	13.7	2.4	.8	.0	51				
7	.0	1.6	9.4	4.7	.8	.0	42				
8-9	.0	.4	2.7	6.3	.0	.0	24				
10-11	.0	.8	2.7	5.5	.8	.0	25				
12	.0	.0	1.2	2.7	1.2	.0	13				
13-16	.0	.4	.0	4.3	.4	.0	13				
17-19	.0	.0	.0	.4	.0	.0	1				
20-22	.0	.0	.0	.4	.0	.4	2				
23-25	.0	.0	.0	.0	.8	.8	4				
26-32	.0	.0	.0	.0	.4	.8	3				
33-40	.0	.0	.0	.0	.0	.0	0				
41-48	.0	.0	.0	.0	.0	.0	0				
49-60	.0	.0	.0	.0	.0	.0	0				
61-70	.0	.0	.0	.0	.0	.0	0				
71-86	.0	.0	.0	.0	.0	.0	0				
87+	.0	.54	106	72	13	.0	0				
TOTAL	5	54	106	72	13	5	255				
PCT	2.0	21.2	41.6	28.2	5.1	2.0	100.0				

TABLE 19

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	.0	3.5	9.8	7.0	3.5	1.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
6-7	.0	.0	3.5	7.7	7.4	3.5	2.8	1.1	1.4	.4	.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	7
8-9	.0	.0	.4	2.5	4.9	3.9	2.5	4.2	3.9	.0	.4	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	67	10
10-11	.0	.0	.4	.0	.4	2.1	2.5	2.1	1.4	.4	.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	12
12-13	.0	.0	.0	.0	.4	.4	.4	.0	.7	.0	.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	9	16
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	16
INDET	5.6	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	1
TOTAL	16	10	40	49	48	32	27	21	22	2	4	11	3	0	0	0	0	0	0	0	0	185	7
PCT	5.6	3.5	14.0	17.2	16.8	11.2	9.5	7.4	7.7	.7	1.4	3.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	BLWG	DUST		SIG
N	.4	.1	.0	.0	2.0	.1	.1	2.6	.0	.0	.0	.1	.0	.0	.0	4.4	61
NNE	.2	.0	.4	.0	1.4	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	2.0	33
NE	.1	.0	.6	.0	1.8	.0	.0	2.5	.0	.0	.0	.1	.0	.0	.0	3.6	59
ENE	.1	.0	.7	.0	.5	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	4.1	46
E	.6	.2	.5	.0	1.8	.0	.0	2.9	.0	.0	.0	.1	.0	.0	.0	6.3	80
ESE	.8	.0	.5	.0	.8	.0	.0	1.9	.0	.0	.0	.2	.0	.0	.0	3.5	50
SE	.8	.1	.5	.0	1.2	.1	.0	2.5	.0	.0	.5	.0	.0	.0	.0	3.4	54
SSE	.9	.2	.2	.0	.6	.0	.0	1.8	.0	.0	.2	.0	.0	.0	.0	4.1	52
S	.7	.0	.5	.0	.4	.0	.0	1.5	.0	.0	.2	.1	.0	.0	.0	4.1	51
SSW	.7	.0	.2	.0	.9	.1	.1	1.9	.0	.0	.2	.0	.0	.0	.0	3.2	45
SW	.4	.0	.4	.0	1.3	.0	.0	2.0	.0	.0	.4	.0	.0	.0	.0	4.8	61
WSW	.0	.0	.1	.0	1.9	.0	.0	2.0	.1	.0	.0	.0	.0	.0	.0	4.8	59
W	.0	.0	.2	.0	1.5	.0	.0	1.8	.0	.0	.1	.2	.0	.0	.0	7.5	82
WNW	.0	.0	.1	.0	.6	.0	.0	.7	.0	.0	.1	.0	.0	.0	.0	3.7	39
NW	.0	.2	.0	.0	.9	.0	.1	1.2	.0	.0	.4	.0	.0	.1	.0	3.5	44
NNW	.0	.0	.0	.0	1.3	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	2.3	32
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.7	9
TOT OBS	4.9	8	4.1	1	16.1	3	3	.1	25.4	1	2.4	1.2	1	1	5.65	857	
TOT PCT	5.7	.9	4.8	.1	18.8	.4	.4	29.6	.1	.1	2.8	1.4	.1	.1	65.9	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	BLWG	DUST		SIG
0000	5.3	1.3	4.0	.4	22.1	.0	.0	32.7	.0	.0	4.0	1.3	.0	.0	.0	61.9	226
0600	4.0	.4	4.8	.0	18.1	.0	.4	26.4	.0	.0	3.1	1.8	.4	.0	.0	68.3	227
1200	4.6	.5	4.6	.0	16.6	.9	.9	25.3	.5	.0	1.4	.9	.0	.0	.0	71.9	217
1800	9.2	1.5	5.6	.0	17.9	.5	.0	33.7	.0	.0	2.6	1.5	.0	.0	.0	62.2	196
TOT	4.9	8	4.1	1	16.2	3	3	.1	25.5	1	2.4	1.2	1	1	5.73	866	
PCT	5.7	.9	4.7	.1	18.7	.3	.3	29.4	.1	.1	2.8	1.4	.1	.1	66.2	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
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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	00	03	06	09	12	15	18	21
N	.3	1.4	2.7	1.8	.1	.0	74	6.2	17.2	4.6	.0	6.3	4.2	8.8	9.1	6.4	7.7
NNE	.0	1.1	2.1	.8	.1	.1	50	4.2	17.2	4.9	5.4	2.6	6.3	2.9	2.3	4.5	4.2
NE	.1	1.7	2.7	2.2	.4	.0	84	7.0	18.5	7.4	2.7	9.4	8.4	4.9	.0	3.8	11.3
ENE	.1	.8	1.2	2.4	.7	.0	62	5.2	22.4	4.9	2.7	4.2	2.8	8.3	4.5	5.1	5.6
E	.1	1.5	1.8	2.8	1.7	.3	97	8.1	23.7	9.5	2.7	8.9	6.3	8.8	4.5	10.9	4.2
ESE	.1	.8	1.8	1.7	.4	.2	59	4.9	21.8	4.2	8.1	5.8	4.9	5.4	9.1	4.5	2.8
SE	.3	2.4	1.8	1.8	.4	.1	81	6.8	17.5	5.7	5.4	8.4	8.4	5.4	2.3	6.4	9.2
SSE	.0	.9	1.9	1.8	.7	.3	67	5.6	23.4	7.8	10.8	4.2	6.3	3.4	4.5	6.4	3.5
S	.3	1.8	2.1	1.3	1.3	.2	83	6.9	20.1	9.5	5.4	3.7	7.0	4.9	2.3	7.7	9.9
SSW	.2	1.7	1.2	.8	1.3	.3	64	5.3	21.9	3.5	2.7	4.7	5.6	7.4	6.8	5.1	7.0
SW	.5	2.7	3.7	1.8	.8	.2	115	9.6	17.8	8.8	13.5	7.9	14.7	7.4	18.2	6.4	11.3
WSW	.2	.8	3.3	1.8	.8	.2	84	7.0	20.4	7.1	8.1	6.8	6.3	7.8	9.1	7.1	5.6
W	.1	1.9	3.1	1.8	.9	.3	98	8.2	20.7	8.5	16.2	11.0	5.6	9.8	4.5	7.7	3.5
WNW	.1	1.1	1.1	1.2	.8	.1	51	4.3	21.5	2.8	5.4	6.3	2.8	5.9	11.4	4.5	.7
NW	.1	2.0	2.0	1.3	.3	.1	69	5.8	17.7	6.0	5.4	7.3	7.0	3.4	4.5	5.8	5.6
NNW	.1	1.0	1.5	.9	.3	.0	46	3.8	18.5	3.2	5.4	2.1	2.8	3.9	6.8	5.8	4.9
VAR	1.3	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	45	284	404	312	129	26	1200	1.3	19.7	1.4	.0	.5	.7	1.5	.0	1.9	2.8
TOT OBS	3.8	23.7	33.7	26.0	10.8	2.2	1200	100.0	100.0	283	37	191	143	204	44	156	142
TOT PCT										100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KND'S)															
	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	3.8	4.5	.9	.1	124	10.3	17.2	9.5	5.4	8.9	10.5	11.8	11.4	10.9	12.0
NE	1.1	3.7	4.8	2.1	.5	146	12.2	20.1	12.4	5.4	13.6	11.2	13.2	4.5	9.0	16.9
E	1.6	2.4	4.3	3.8	.9	156	13.0	23.0	13.8	10.8	14.7	11.2	14.2	13.6	15.4	7.0
SE	1.3	3.7	4.8	1.9	.7	148	12.3	20.2	13.4	16.2	12.6	14.7	8.8	6.8	12.8	12.7
S	1.7	4.4	2.3	2.8	1.1	147	12.3	20.9	13.1	8.1	8.4	12.6	12.3	9.1	12.8	16.9
SW	2.3	6.2	4.5	3.0	.7	199	16.6	18.9	15.9	21.6	14.7	21.0	15.2	27.3	13.5	16.9
W	.9	4.6	3.7	2.3	1.0	149	12.4	21.0	11.3	21.6	17.3	8.4	15.7	12.2	4.2	4.2
NW	1.3	3.6	2.8	1.8	.2	115	9.6	18.0	9.2	10.8	9.4	9.8	7.4	11.4	11.5	10.6
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3	388	381	222	61	1200	1.3	19.7	1.4	.0	.5	.7	1.5	.0	1.9	2.8
TOT OBS	148	388	381	222	61	1200	100.0	100.0	283	37	191	143	204	44	156	142
TOT PCT	12.3	32.3	31.8	18.5	5.1				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1943-1970  
(COVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)					CALM	MEAN	PCT FREQ	TOTAL OBS	
	1-3	4-10	11-21	22-33	34-47					48+
0000	2.5	21.3	35.9	24.1	10.9	4.1	1.3	20.4	100.0	320
0600	3.0	24.6	31.1	26.9	12.9	.9	.6	19.9	100.0	334
1200	1.6	19.8	33.5	29.8	12.5	1.6	1.2	21.0	100.0	248
1800	2.3	28.5	34.2	23.8	6.7	2.0	2.3	17.8	100.0	298
TOT	29	284	404	312	129	26	16	19.7		1200
PCT	2.4	23.7	33.7	26.0	10.8	2.2	1.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	TOTAL OBS	TOTAL OBS	MEAN CLOUD COVER	MEAN CLOUD COVER	
N	.2	.2	2.6	3.6	38	7.1			
NNE	.0	.3	1.2	1.6	18	6.8			
NE	.2	.0	1.4	3.0	26	7.2			
ENE	.7	.3	1.4	3.1	32	6.5			
E	.3	.7	1.9	7.5	60	7.1			
ESE	.5	.2	1.2	4.0	34	6.9			
SE	.3	.5	2.1	3.6	38	6.7			
SSE	.3	.2	1.0	3.3	28	6.8			
S	.7	.5	2.3	2.3	33	5.9			
SSW	.5	.3	1.0	2.6	26	6.6			
SW	1.7	.9	2.6	2.3	43	5.2			
WSW	1.0	1.0	3.0	2.6	44	5.8			
W	1.6	2.4	3.8	2.3	58	5.2			
WNW	.3	.9	3.0	1.4	32	5.9			
NW	.2	1.2	2.8	1.6	33	5.9			
NNW	.5	.3	2.1	1.7	27	6.4			
VAR	.0	.0	.0	.0	0	.0			
CALM	.3	.2	.0	.5	6	4.5			
TOT OBS	55	59	192	270	576	6.3			
TOT PCT	9.5	10.2	33.3	46.9	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION								NH <5/8 TOTAL OBS			
	000	150	300	600	1000	2000	3500	5000		6500	8000+	ANY HGT
N	.2	.0	.9	.9	.9	2.1	1.4	.5	.0	.0	.0	38
NNE	.0	.0	.0	.5	.7	1.4	.7	.0	.0	.0	.0	1P
NE	.3	.0	.0	.7	.7	1.7	.7	.3	.0	.0	.0	26
ENE	.2	.0	.2	.9	.9	1.4	1.2	.7	.2	.0	.0	32
E	.9	.0	.3	1.0	1.0	2.6	1.7	.7	.2	.3	.0	60
ESE	.3	.5	.0	.9	.7	1.4	1.6	.2	.0	.0	.0	34
SE	.7	.0	.3	.7	3.3	3.3	.5	.0	.0	.0	.0	38
SSE	.2	.0	.3	1.2	1.2	1.0	.2	.2	.0	.0	.0	28
S	.0	.0	.5	1.4	1.2	1.2	.2	.3	.0	.0	.0	33
SSW	.2	.0	.3	.9	1.6	1.6	.3	.0	.0	.0	.0	26
SW	.2	.2	.2	.7	1.7	1.7	.7	.0	.0	.0	.0	43
WSW	.5	.2	.3	.7	2.6	2.6	.5	.2	.0	.0	.0	44
W	.0	.2	.5	1.2	3.1	3.1	.3	.0	.0	.0	.0	58
WNW	.7	.2	.3	.3	1.6	1.0	.0	.2	.0	.0	.0	32
NW	.3	.0	.3	.7	1.6	.9	.2	.0	.0	.0	.0	33
NNW	.0	.0	.3	.5	1.4	.9	.2	.2	.0	.0	.0	27
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	6
TOT OBS	27	8	29	77	173	79	18	4	2	0	0	576
TOT PCT	4.7	1.4	5.0	13.4	30.0	13.7	3.1	.7	.3	.0	.0	100.0

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1899-1970

FEBRUARY

AREA 0009 ADAK  
51-55N 172-180W

TABLE 7

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

CEILING (FEET)	>10		>5		>2.5		VSBY (NM)		>1/4		>50YD		>0	
	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR	OR
>6500	.2	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3
>5000	.7	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
>3500	2.3	3.8	4.0	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>2000	9.4	15.4	17.3	18.0	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
>1000	21.0	38.5	44.2	47.1	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
>600	26.3	49.7	56.5	60.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
>300	27.7	53.2	60.8	65.0	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2	66.2
>150	27.7	53.9	61.9	66.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
>0	28.1	55.5	64.6	69.3	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
TOTAL	162	320	373	400	410	410	410	410	410	410	410	410	410	410

TOTAL NUMBER OF OBS: 577

PCT FREQ NH <5/8: 27.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	4.3	2.6	6.6	9.5	5.1	8.7	12.3	11.4	35.7	3.8
										624

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PERIOD: (PRIMARY) 1963-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 8

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

WSBY (NH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
PCP	.1	.1	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	9	1.1
ND PCP	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	4	.5
TOTAL	1	1	0	1	2	0	4	0	0	0	0	0	0	2	2	0	0	0	0	13	1.5
PCP	.4	.1	.1	.4	.5	.0	.1	.0	.0	.4	.4	.1	.0	.0	.1	.1	.0	.0	.0	22	2.6
ND PCP	.0	.0	.2	.0	.0	.2	.1	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	9	1.1
TOTAL	3	1	3	3	4	2	2	1	1	3	4	1	1	0	1	1	0	0	0	31	3.6
PCP	.6	.1	.1	.2	.5	.6	.8	.2	.2	.2	.1	.5	.0	.0	.0	.2	.0	.0	.0	38	4.4
ND PCP	.1	.1	.0	.0	.4	.5	.2	.0	.1	.1	.1	.2	.2	.5	.1	.0	.0	.0	.2	25	2.9
TOTAL	6	2	1	2	7	9	9	4	2	3	2	5	2	4	1	2	0	0	2	63	7.4
PCP	.5	.4	.8	.1	.8	.6	.7	1.1	.5	.5	.5	.4	.1	.0	.1	.4	.0	.0	.1	63	7.4
ND PCP	.1	.2	.6	.2	.6	.2	.1	.2	.7	.4	.4	.1	.6	.5	.5	.5	.0	.0	.0	50	5.9
TOTAL	5	5	12	3	12	7	7	11	10	7	7	4	6	4	5	7	0	0	1	113	13.2
PCP	.8	.5	1.2	.4	.8	.6	.6	.6	.7	.7	.8	.9	1.2	.5	.5	.6	.0	.0	.0	96	11.2
ND PCP	2.0	1.2	1.4	1.9	2.0	1.6	1.6	2.1	1.3	1.3	.8	1.5	3.5	1.3	1.8	.9	.0	.0	.4	227	26.6
TOTAL	24	14	22	19	24	19	19	23	17	17	14	21	40	15	19	13	0	0	3	323	37.8
PCP	.2	.5	.2	.0	.1	.1	.1	.0	.1	.1	.2	.1	.4	.0	.4	.1	.0	.0	.0	23	2.7
ND PCP	2.3	.5	2.2	2.0	3.5	1.4	1.4	1.6	2.3	1.6	3.7	3.2	3.4	1.6	1.5	.9	.0	.4	.4	288	33.7
TOTAL	22	8	21	17	31	13	13	14	21	15	34	28	32	14	16	9	0	3	311	36.4	
TOTAL	61	31	59	45	80	50	54	53	51	45	61	59	81	39	44	32	0	9	854	100.0	
PCT	7.1	3.6	6.9	5.3	9.4	5.9	6.3	6.2	6.0	5.3	7.1	6.9	9.5	4.6	5.2	3.7	.0	1.1	100.0		

FEBRUARY

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.4
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.1	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.9
	TOTAL	2	1	0	1	2	0	4	0	1	1	0	1	0	2	2	0	0	0	17
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	11-21	.3	.2	.1	.0	.1	.0	.1	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	14
	22+	.0	.0	.2	.3	.3	.2	.1	.1	.2	.2	.4	.0	.1	.0	.1	.1	.0	.0	24
	TOTAL	4	2	3	3	6	2	4	2	3	7	1	1	1	0	1	1	0	0	42
1<2	0-3	.0	.0	.0	.1	.0	.1	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.7
	4-10	.1	.3	.0	.0	.1	.1	.6	.2	.2	.0	.1	.0	.0	.3	.3	.0	.0	.2	24
	11-21	.2	.1	.0	.0	.0	.2	.2	.2	.0	.0	.1	.1	.1	.0	.0	.1	.0	.0	13
	22+	.3	.1	.1	.3	.6	.7	.5	.2	.3	.3	.2	.3	.2	.3	.0	.1	.0	.0	49
	TOTAL	6	5	1	4	8	12	17	6	5	4	5	5	3	6	3	2	0	2	93
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.6
	4-10	.2	.2	.3	.2	.2	.1	.3	.3	.0	.2	1.0	.1	.2	.0	.4	.0	.0	.2	42
	11-21	.1	.2	.3	.3	.5	.3	.2	.2	.6	.2	.2	.3	.3	.0	.2	.3	.0	.0	41
	22+	.3	.3	.6	.5	.9	.3	.3	.5	.4	.4	.3	.5	.3	.4	.5	.3	.0	.0	82
	TOTAL	7	8	16	11	13	8	8	11	15	8	19	10	9	6	13	7	0	2	171
5<10	0-3	.0	.0	.0	.0	.1	.0	.1	.0	.1	.0	.3	.0	.1	.0	.1	.1	.0	.0	.1
	4-10	.3	.2	.7	.4	.3	.3	.9	.3	.5	.7	.4	.0	.7	.3	.3	.3	.0	.0	13
	11-21	1.1	.7	1.1	.4	.6	.5	.9	.9	.7	.7	1.0	1.4	1.3	.4	1.0	.6	.0	.0	78
	22+	.7	.3	1.1	1.1	1.4	.9	.7	1.3	.9	.9	.9	1.2	1.7	.6	.8	.7	.0	.0	155
	TOTAL	25	14	34	23	28	20	29	28	30	26	31	30	44	15	26	20	0	3	426
10+	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.7
	4-10	.8	.5	.7	.3	.9	.3	.6	.3	.9	.8	1.2	.7	1.1	.6	.9	.7	.0	.0	129
	11-21	.6	.9	1.2	.5	1.1	.9	.5	.7	.8	.3	2.1	1.4	1.4	.6	.8	.5	.0	.0	168
	22+	.5	.1	.6	.9	1.4	.3	.4	.7	.7	.5	.9	.7	.7	.7	.3	.2	.0	.0	110
	TOTAL	25	17	29	19	40	17	18	19	30	20	50	34	38	22	22	16	0	8	424
	TOTAL	69	47	83	61	97	59	80	66	83	62	111	81	95	51	67	46	0	15	1173
	PCT	5.9	4.0	7.1	5.2	8.3	5.0	6.8	5.6	7.1	5.3	9.5	6.9	8.1	4.3	5.7	3.9	.0	1.3	100.0

FEBRUARY

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	4.7	1.4	5.4	15.5	30.4	12.8	3.4	.0	.7	.0	74.3	25.7	148
06009	5.5	.6	6.1	12.2	33.5	12.8	4.3	.0	.6	.0	75.6	24.4	164
12015	3.8	1.9	3.2	10.3	28.8	15.4	1.9	1.9	.0	.0	67.3	32.7	156
18021	3.9	1.6	4.7	14.2	22.0	14.2	2.4	.8	.0	.0	63.8	36.2	127
TOT	27	8	29	77	173	82	18	4	2	0	420	175	595
PCT	4.5	1.3	4.9	12.9	29.1	13.8	3.0	.7	.3	.0	70.6	29.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	2.0	1.4	7.5	8.8	31.3	49.0	147
06009	.6	1.9	4.4	8.8	40.0	44.4	160
12015	.7	2.7	5.4	10.7	35.6	45.0	149
18021	1.7	1.7	4.1	10.7	30.6	51.2	121
TOT	7	11	31	56	200	272	577
PCT	1.2	1.9	5.4	9.7	34.7	47.1	100.0

TABLE 12

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

HR	<150 (GMT)	<600 <50YD	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	4.8	12.9	40.1	36.1	23.8	147
06009	5.6	12.5	33.8	43.1	23.1	160
12015	4.0	10.7	31.5	39.6	28.9	149
18021	4.1	12.4	35.5	33.9	30.6	121
TOT	27	70	203	222	152	577
PCT	4.7	12.1	35.2	38.5	26.3	100.0

FEBRUARY

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

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				
45/49	.0	.0	.0	.0	.0	.1	.4	.4	.4	.9	7	.9
40/44	.0	.0	.0	.2	.4	1.6	4.5	6.8	6.8	13.5	110	13.5
35/39	.0	.0	.1	.2	2.3	7.6	18.7	25.4	25.4	54.4	443	54.4
30/34	.0	.0	.0	.1	1.5	4.2	8.0	11.1	11.1	24.8	202	24.8
25/29	.0	.0	.0	.0	.2	.9	.9	3.3	3.3	5.3	43	5.3
20/24	.0	.0	.0	.0	.0	.0	.1	1.0	1.0	1.1	9	1.1
TOTAL	0	0	1	5	36	117	265	390	390	814	100.0	
PCT	.0	.0	.1	.6	4.4	14.4	32.6	47.9	47.9			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.0	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.0
	.2	1.0	1.7	2.3	4.1	2.3	.5	.9	.0	.0	.5	.5
	3.3	5.2	7.0	9.6	7.2	10.9	7.2	3.2	.0	.0	.7	.7
	4.2	2.3	2.8	1.8	2.5	4.4	3.7	2.8	.0	.0	.2	.2
	1.1	1.0	.0	.1	.0	.0	1.1	2.0	.0	.0	.0	.0
	.1	.1	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0
	.73	.79	.96	1.14	1.13	1.45	1.03	.79	.0	.0	.12	.12
	9.0	9.7	11.8	14.0	13.9	17.8	12.7	9.7	.0	.0	1.5	1.5

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		
00003	47	45	42	36	28	21	20	35.9	321	321	321
06009	47	44	41	36	28	21	21	35.4	333	333	333
12015	45	43	40	35	27	23	21	34.5	245	245	245
18021	44	42	40	36	27	21	20	34.9	300	300	300
TOT	47	44	41	36	27	22	20	35.2	1199	1199	1199

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				
00003	.0	1.4	6.8	16.4	27.9	47.5	86	86	219	219	
06009	.0	.8	2.8	15.4	34.4	46.5	87	87	247	247	
12015	.0	.7	3.7	15.6	34.8	45.2	87	87	135	135	
18021	.0	.0	4.1	10.9	34.1	50.9	88	88	220	220	
TOT	0	6	36	119	268	392	87	87	821	821	

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PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 17

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

AIR-SEA TMP DIF	17	21	25	29	33	37	41	45	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.4	.0	3	.4	.0
7/8	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
6	.0	.0	.0	.0	.0	.0	.1	.0	1	.1	.0
5	.0	.0	.0	.0	.0	.6	.7	.0	9	.3	1.0
4	.0	.0	.0	.0	.0	.8	.8	.0	12	.3	1.4
3	.0	.0	.0	.0	.0	.4	.3	.0	5	.0	.7
2	.0	.0	.0	.0	.4	2.3	1.0	.0	27	.0	3.7
1	.0	.0	.0	.0	.3	4.4	.7	.1	40	.4	5.1
0	.0	.0	.0	.0	2.8	9.0	.1	.0	86	.3	11.6
-1	.0	.0	.0	.0	3.9	5.4	.0	.0	67	.1	9.1
-2	.0	.0	.0	.1	6.5	6.2	.0	.0	93	.4	12.4
-3	.0	.0	.0	.6	5.5	1.9	.0	.0	58	.1	7.9
-4	.0	.0	.0	1.1	6.4	1.7	.0	.0	66	.1	9.0
-5	.0	.0	.4	1.0	5.7	1.1	.0	.0	59	.0	8.1
-6	.0	.0	.1	1.8	2.2	.7	.0	.0	35	.0	4.8
-7/-8	.0	.0	.3	5.1	2.8	.7	.0	.0	64	.0	8.8
-9/-10	.0	.0	2.2	2.3	.8	.0	.0	.0	39	.0	5.4
-11/-13	.0	.1	2.9	1.1	.1	.0	.0	.0	31	.0	4.3
-14/-16	.0	1.2	1.5	.0	.0	.0	.0	.0	20	.0	2.8
-17/-19	.3	.4	.0	.1	.0	.0	.0	.0	6	.0	.8
-20/-22	.0	.0	.3	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	2	13	56	96	270	255	31	1	724	19	705
PCT	.3	1.8	7.7	13.3	37.3	35.2	4.3	.1	100.0	2.6	97.4

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

HGT	N										NE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.4	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0							
1-2	.0	.4	.4	.0	.0	.0	2	.0	.4	.4	.0	.0	.0	1							
3-4	.0	.0	.9	.0	.0	.0	2	.0	1.3	.4	.0	.0	.0	4							
5-6	.0	.0	.4	.9	.0	.0	3	.0	.9	.4	.0	.0	.0	5							
7	.0	.4	1.3	.0	.0	.0	4	.0	.4	.4	1.3	.0	.0	4							
8-9	.0	.0	.9	.0	.0	.0	2	.0	.4	.4	.4	.4	.0	3							
10-11	.0	.0	.4	.0	.0	.0	1	.0	.4	.0	.4	.4	.0	3							
12	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.0	1.3	.0	.0	3	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.9	.0	2							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	1	2	10	5	1	0	19	0	3	7	8	4	0	22							
PCT	.4	.9	4.4	2.2	.4	.0	8.3	.0	1.3	3.1	3.5	1.8	.0	9.6							

HGT	E										SE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.5	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
1-2	.0	.9	1.8	.0	.0	.0	2	.0	.4	.4	.0	.0	.0	1							
3-4	.0	.0	.4	.4	.0	.0	5	.0	.4	.4	.4	.0	.0	2							
5-6	.0	.0	.4	1.8	.0	.0	5	.0	.4	1.3	.4	.0	.0	4							
7	.0	.0	.9	1.3	.9	.0	7	.0	.4	2.2	.4	.0	.0	6							
8-9	.0	.0	.9	.9	.4	.0	5	.0	.4	1.3	.9	.0	.0	6							
10-11	.0	.0	.0	.4	.0	.0	1	.0	.0	.4	.4	.0	.0	1							
12	.0	.0	.0	.0	.0	.0	0	.0	.4	.4	.4	.0	.0	3							
13-16	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	3							
17-19	.0	.0	.0	.9	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.0	.0	.0	1							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.4	.9	1.4	.3	.0	3	.0	2	1.3	.9	.0	.0	7							
TOTAL	0	1.8	3.9	6.1	1.3	.4	13.6	.0	.9	5.7	3.9	.0	1.3	27							
PCT	.0	1.8	3.9	6.1	1.3	.4	13.6	.0	.9	5.7	3.9	.0	1.3	11.8							

PERIOD: (PRIMARY) FEBRUARY AREA 0009 ADAK  
 (OVER-ALL) 1963-1970 TABLE 18 51-55N 172-18CW

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	0	.4	.0	.0	.0	.0	.0	1							
1-2	.0	.4	.0	.0	.0	.0	1	1.3	.0	.0	.0	.0	.0	3							
3-4	.0	.0	1.8	1.3	.0	.0	7	.9	.9	.0	.0	.0	.0	5							
5-6	.0	.4	1.8	.9	.0	.0	7	.0	1.8	.0	.0	.0	.0	4							
7	.0	.0	.9	.4	.4	.0	4	.0	3.9	.4	.0	.0	.0	10							
8-9	.0	.0	.0	.4	1.8	.4	6	.0	2.2	.9	.0	.0	.0	7							
10-11	.0	.0	.0	.0	.0	.0	0	.0	1.3	.0	.0	.0	.0	3							
12	.0	.0	.0	.4	.4	.0	2	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.4	.9	.4	.0	4	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.4	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	2	11	10	8	1	32	6	23	4	4	0	0	33							
PCT	.0	.9	4.8	4.4	3.5	.4	14.0	2.6	10.1	1.8	.0	.0	.0	14.5							

HGT	NW										TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21		22-33	34-47	48+
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
1-2	.0	.4	.4	.0	.0	.0	2	1.8	.4	.0	.0	.0	.0	5
3-4	.0	.9	.9	.0	.0	.0	4	.4	.0	.0	.0	.0	.0	1
5-6	.0	.9	.4	.9	.0	.0	5	.0	.0	.0	.9	.0	.0	2
7	.0	.4	1.3	.4	.0	.0	5	.0	1.3	2.6	.0	.0	.0	9
8-9	.0	.0	.9	1.3	.4	.0	6	.0	.4	.9	1.3	.0	.0	3
10-11	.0	.0	.4	1.3	.4	.0	5	.0	.9	.0	.0	.0	.0	5
12	.0	.0	.4	.4	1.8	.4	5	.0	.9	.4	.0	.4	.0	11
13-16	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.0	.0	.0	3
17-19	.0	.0	.0	.4	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	6	11	11	7	0	35	5	9	14	1	0	0	28
PCT	.0	2.6	4.8	4.8	3.1	.0	15.4	2.2	3.9	6.1	.4	.0	.0	12.7

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

FEBRUARY

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL D'
	0-3	4-10	11-21	22-33	34-47	48+					
<1	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	0
1-2	.0	5.2	2.2	3.0	.0	.0	.0	.0	.0	.0	17
3-4	.0	2.6	7.4	6.5	.0	.0	.0	.0	.0	.0	30
5-6	.0	2.2	6.5	7.0	1.3	.0	.0	.0	.0	.0	35
7	.0	.9	12.2	5.7	3.0	.4	.0	.0	.0	.0	49
8-9	.0	.4	7.0	2.6	.9	.0	.0	.0	.0	.0	38
10-11	.0	.4	3.0	2.6	1.3	.0	.0	.0	.0	.0	16
12	.0	.0	.9	2.6	2.6	.0	.0	.0	.0	.0	11
13-16	.0	.0	1.3	3.5	2.6	1.3	.0	.0	.0	.0	20
17-19	.0	.0	.0	1.3	.9	.0	.0	.0	.0	.0	5
20-22	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	3
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
TOTAL	3	30	93	75	24	5	230				
PCT	1.3	13.0	40.4	32.6	10.4	2.2	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	3-4	5-6	7	8-9	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	.3	3.8	7.0	4.9	3.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	4
6-7	.0	.0	2.1	2.4	5.2	2.1	1.7	1.0	4.2	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	9
8-9	.0	.3	.0	2.1	2.8	6.3	2.8	3.5	1.4	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	9
10-11	.0	.0	.0	.7	2.1	5.9	3.1	.3	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	9
12-13	.0	.0	.0	.0	.3	2.8	1.4	2.1	2.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	11
>13	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
INDET	11.2	.3	.3	.3	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	0
TOTAL	33	13	27	30	39	55	26	23	28	9	3	0	0	0	0	0	0	0	0	0	0	286	7
PCT	11.5	4.5	9.4	10.5	13.6	19.2	9.1	8.0	9.8	3.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

MARCH

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHMR	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS				
			DRZL	FRZG	SNOW					OTHER FRZN	PCPN	FOG	SMOKE		DUST	HAZE	BLWG	DUST
N	.2	.1	.1	.2	2.3	.0	.1	2.8	.0	.1	.0	.0	.0	.0	.0	.0	6.1	84
NNE	.6	.0	.5	.0	1.3	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	1.9	36
NE	.4	.0	.2	.0	4.6	.0	.3	2.5	.0	.1	.0	.0	.0	.0	.0	.0	3.6	58
ENE	1.0	.1	.2	.0	.9	.0	.0	1.9	.0	.1	.0	.0	.0	.0	.0	.0	2.8	45
E	.5	.1	.4	.0	2.3	.0	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	4.2	72
ESE	.4	.1	.4	.0	.8	.0	.0	1.6	.0	.9	.0	.0	.0	.0	.0	.0	3.0	51
SE	1.4	.3	.3	.0	.2	.0	.1	2.3	.0	.3	.0	.2	.0	.0	.0	.0	2.9	53
SSE	.9	.0	.8	.0	.4	.0	.0	1.9	.0	.5	.0	.1	.0	.0	.0	.0	2.4	47
S	1.2	.2	1.0	.0	.5	.0	.1	3.0	.0	.4	.0	.0	.0	.0	.0	.0	5.0	78
SSH	.4	.0	.3	.0	.1	.0	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	3.7	45
SW	.6	.1	.4	.0	1.0	.0	.1	2.0	.0	.3	.0	.0	.0	.0	.0	.0	3.7	58
WSW	.2	.0	.1	.0	.9	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	6.0	68
W	.2	.3	.1	.0	2.3	.0	.0	2.6	.0	.1	.0	.0	.0	.0	.0	.0	6.6	86
WNW	.3	.1	.0	.0	.8	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	41
NW	.1	.0	.0	.0	1.0	.0	.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	3.6	44
NNW	.0	.0	.1	.0	1.5	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	4.1	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	.9	8
TOT OBS	80	14	47	2	162	0	8	293	1	36	4	2	591	2	591	927	927	927
TOT PCT	8.6	1.5	5.1	.2	17.5	.0	.9	31.6	.1	3.9	.4	.2	53.8	.2	53.8	100.0	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHMR	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS				
			DRZL	FRZG	SNOW					OTHER FRZN	PCPN	FOG	SMOKE		DUST	HAZE	BLWG	DUST
00003	10.0	2.3	4.6	.4	18.5	.0	1.2	32.4	.0	6.2	.8	.0	60.6	.0	60.6	259	259	259
06009	5.2	.9	5.7	.0	21.8	.0	.4	33.2	.4	3.5	.4	.4	64.0	.4	64.0	229	229	229
12015	7.9	.8	6.2	.4	10.7	.0	1.2	26.4	.0	2.5	.4	.4	70.2	.4	70.2	242	242	242
18021	10.6	1.9	3.2	.0	18.5	.0	.5	32.9	.0	3.7	.0	.0	63.4	.0	63.4	216	216	216
TOT	80	14	47	2	164	0	8	295	1	38	4	2	606	2	606	946	946	946
PCT	8.5	1.5	5.0	.2	17.3	.0	.8	31.2	.1	4.0	.4	.2	54.1	.2	54.1	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

AREA 0009 ADAK  
51-55N 172-160W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										HOURLY (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	.5	1.2	3.2	2.1	.7	.2	109	7.8	20.2	5.9	6.1	11.9	6.7	8.4	8.4	10.6	5.8
NNE	.2	1.7	1.4	.9	.4	.0	62	4.5	16.3	4.6	24.2	3.8	3.9	3.3	3.6	3.7	4.2
NE	.3	3.1	2.5	1.4	.5	.0	108	7.8	15.5	8.6	18.2	6.5	14.5	7.0	.0	3.7	5.8
ENE	.1	1.9	1.4	.8	.6	.0	69	5.0	16.5	5.1	3.0	3.8	4.5	3.7	3.6	7.5	6.3
E	.1	2.5	2.9	2.3	.6	.1	118	8.5	18.4	8.9	3.0	10.8	8.9	8.9	1.0	8.1	7.9
ESE	.0	.9	1.7	1.3	.4	.0	60	4.3	19.8	5.4	.0	7.6	2.2	4.7	1.6	3.7	2.6
SE	.4	1.9	2.2	1.4	.2	.1	85	6.1	16.3	6.5	6.1	4.9	6.7	4.7	3.6	5.6	8.9
SSE	.1	1.4	1.9	.6	.6	.1	66	4.7	18.2	4.3	3.0	5.4	3.4	4.2	7.5	3.7	5.3
S	.1	1.8	3.1	2.0	.6	.1	106	7.6	19.2	6.7	3.0	6.5	6.1	7.5	10.1	9.9	10.0
SSW	.0	1.4	2.7	1.2	.4	.1	79	5.7	18.0	6.2	.0	3.2	7.8	6.5	14.3	5.0	3.2
SW	.2	1.3	2.9	1.6	.8	.0	95	6.8	19.0	6.7	6.1	5.4	4.5	7.9	5.4	7.5	9.5
WSW	.1	1.3	2.7	2.4	.9	.0	102	7.3	20.4	6.7	6.1	6.5	7.8	7.9	12.5	6.5	7.4
W	.3	1.9	4.0	1.7	.8	.3	124	8.9	19.1	9.4	9.1	8.1	6.7	9.3	12.5	6.8	11.1
WNW	.1	.7	1.9	.8	.1	.1	51	3.7	17.0	4.0	3.0	1.6	3.4	4.7	1.8	3.0	3.7
NW	.1	1.4	1.9	1.0	.5	.0	68	4.9	18.0	4.8	.0	7.0	6.1	5.1	1.8	6.2	2.1
NNW	.4	1.1	2.4	1.0	.1	.1	71	5.1	16.6	4.8	9.1	4.9	5.6	5.1	5.4	5.6	4.2
VAR	.0	.0	.0	.0	.0	.0	17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	354	538	309	113	15	17	1.2	18.0	1.3	.0	2.2	1.1	.9	.0	.6	1.6
TOT OBS	61	25.5	38.7	22.2	8.1	1.1	1390	100.0	18.0	372	33	185	179	214	56	161	190
TOT PCT	4.4	25.5	38.7	22.2	8.1	1.1	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)										HOURLY (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	1.7	4.5	3.7	1.7	.6	171	12.3	18.8	10.5	30.3	15.7	10.6	11.7	12.5	14.3	10.0
NE	3.1	5.0	2.2	2.3	.2	177	12.7	15.9	13.7	21.2	10.3	19.0	10.7	3.6	11.2	12.1
E	1.8	4.1	4.2	2.5	.2	178	12.8	18.9	14.2	3.0	18.4	11.2	13.6	3.6	11.8	10.5
SE	2.0	4.0	3.0	1.4	.4	151	10.9	17.2	10.8	9.1	10.3	10.1	8.9	16.1	9.3	14.7
S	1.6	4.2	5.5	1.5	.6	185	13.3	18.7	12.9	3.0	9.7	14.0	14.0	25.0	14.0	13.2
SW	1.0	5.4	4.6	2.8	.4	197	14.2	19.7	13.4	12.1	11.9	12.3	15.9	17.9	14.3	16.8
W	1.0	5.2	4.5	1.4	.5	175	12.6	18.5	13.4	12.1	9.7	10.1	14.0	14.3	11.8	11.7
NW	1.6	3.4	3.2	1.6	.2	139	10.0	17.3	9.7	9.1	11.9	11.7	10.3	7.1	11.8	11.7
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2	495	430	212	44	17	1.2	18.0	1.3	.0	2.2	1.1	.9	.0	.6	1.6
TOT OBS	209	35.6	30.9	15.3	3.2	1390	100.0	18.0	372	33	185	179	214	56	161	190
TOT PCT	15.0	35.6	30.9	15.3	3.2	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) 1943-1970  
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AREA 0003 ADAK  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)												TOTAL OBS
	0003	0603	1203	1803	0004	0604	1204	1804	0005	0605	1205	1805	
0003	3.0	26.4	38.0	22.2	7.2	2.0	1.2	18.0	100.0	405			
0603	3.3	25.5	38.5	23.4	6.9	.8	1.6	17.5	100.0	364			
1203	.7	21.5	38.9	25.6	11.5	1.1	.7	20.1	100.0	270			
1803	5.1	27.4	39.6	18.5	8.0	.3	1.1	16.7	100.0	351			
TOT	4	354	538	309	113	15	17	18.0		1390			
PCT	3.2	25.5	38.7	22.2	8.1	1.1	1.2	100.0					

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	TOTAL OBS	MEAN CLOUD COVER		
N	.2	.3	3.1	4.9	50	7.1				
NNE	.5	.3	1.2	1.7	22	6.1				
NE	.2	.0	1.5	4.4	36	7.4				
ENE	.2	.2	.7	3.6	27	7.4				
E	.2	.2	1.7	7.5	56	7.5				
ESE	.0	.2	1.2	3.8	30	7.5				
SE	.0	.2	1.2	2.9	25	7.4				
SSE	.2	.0	.9	3.2	25	7.4				
S	.2	.3	2.2	5.1	46	7.2				
SSW	.2	.9	1.5	2.9	32	6.6				
SW	.3	1.0	.9	3.4	33	6.5				
WSW	1.2	1.5	2.0	1.7	38	5.1				
W	1.4	1.5	4.8	2.7	59	5.5				
WNW	.3	.9	2.6	2.7	26	5.5				
NW	.3	1.0	1.7	2.6	33	6.3				
NNW	.0	1.0	3.9	1.9	40	6.3				
VAR	.0	.0	.0	.0	0	.0				
CALM	.3	.3	.3	.3	8	4.6				
TOT OBS	33	58	184	311	586	6.6				
TOT PCT	5.6	9.9	31.4	53.1	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
	000	150	300	600	999	1000	2000	3500	5000	6500	8000+	NH <5/8	
N	.9	.2	.7	.9	.7	2.0	2.6	.7	.0	.0	.0	.7	50
NNE	.0	.0	.0	.7	.7	1.2	.9	.2	.0	.0	.0	.9	22
NE	.5	.2	.0	1.0	1.0	2.0	1.0	.3	.0	.0	.0	1.0	36
ENE	.5	.0	.2	.9	.9	1.7	.7	.0	.0	.0	.2	.5	27
E	2.6	.0	.2	.9	.9	4.3	1.0	.0	.0	.2	.0	.5	56
ESE	.9	.0	.3	.7	.7	1.9	.7	.2	.0	.0	.0	.5	30
SE	1.0	.2	.3	1.0	1.0	2.0	1.0	.3	.2	.0	.0	.2	25
SSE	.2	.2	.3	.3	.3	1.9	.3	.3	.0	.0	.0	.7	25
S	.9	.0	.9	1.4	1.4	1.7	1.2	.5	.0	.0	.2	1.2	46
SSW	.2	.2	.2	.9	.9	1.9	.7	.2	.0	.0	.0	1.2	32
SW	.9	.3	.3	.9	.9	1.7	.2	.2	.0	.3	.0	1.9	33
WSW	.2	.0	.5	1.0	1.0	.7	.7	.3	.0	.0	.0	3.1	38
W	.2	.0	.3	1.5	1.5	2.6	1.4	.5	.0	.0	.0	3.6	59
WNW	.0	.0	.0	.9	.9	1.7	.5	.0	.0	.0	.0	1.4	26
NW	.3	.2	.0	1.2	1.2	1.2	.5	.3	.0	.0	.0	1.9	33
NNW	.0	.0	.0	.7	.7	2.2	1.7	.0	.2	.0	.0	2.0	40
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.2	.2	.2	.2	.2	.0	.0	.0	.7	8
TOT OBS	53	7	25	87	164	89	24	3	2	4	128	7	586
TOT PCT	9.0	1.2	4.3	14.8	28.0	15.2	4.1	.5	.3	.7	21.8	.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	>5	>2	>1	>1/2	>1/4	>50YD	>0
DR >6500	.2	.7	1.4	1.4	1.4	1.4	1.4	1.4
DR >5000	.7	1.2	1.9	1.9	1.9	1.9	1.9	1.9
DR >3500	3.4	4.9	5.9	5.9	5.9	5.9	5.9	5.9
DR >2000	8.6	17.6	20.3	20.3	20.6	20.6	21.3	21.3
DR >1000	23.6	41.9	47.3	47.5	47.8	47.8	48.6	48.8
DR >600	31.8	55.2	62.0	62.2	62.5	62.7	63.5	63.7
DR >300	32.6	58.4	65.9	66.4	66.9	67.1	67.9	68.1
DR >150	32.8	58.6	67.1	67.6	68.1	68.2	69.1	69.3
DR > 0	33.4	60.6	71.3	73.3	75.3	76.7	77.9	78.0
TOTAL	198	359	422	434	446	454	461	462

TOTAL NUMBER OF OBS: 592

PCT FREQ NH <5/8: 22.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
										OBS
	2.2	1.2	3.4	8.1	6.2	6.2	12.0	11.4	41.5	7.8
										643

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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 ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	.1 .0 1	.1 .0 1	.1 .0 1	.1 .0 1	.3 .0 3	.4 .2 6	.0 .2 2	.1 .0 1	.2 .0 2	.1 .2 3	.0 .1 1	.0 .1 1	.1 .0 1	.2 .0 2	.0 .0 0	.0 .0 0	.2 .0 2	.0 .0 0	.0 .1 1	19 9 28	2.1 1.0 3.0	
1/2<1	.5 .2 7	.1 .0 1	.2 .0 2	.1 .0 1	.1 .0 1	.5 .3 8	.2 .4 6	.0 .1 1	.4 .2 6	.2 .3 5	.1 .1 2	.1 .0 1	.3 .1 4	.4 .1 5	.4 .1 5	.1 .1 2	.3 .0 3	.0 .0 0	.0 .0 0	.0 .0 0	39 20 59	4.2 2.2 6.4
1<2	.4 .5 9	.0 .1 1	.4 .0 4	.1 .1 2	.1 .1 2	.4 .2 6	.3 .0 3	.2 .1 3	.0 .1 1	.4 .0 4	.0 .0 0	.3 .1 4	.1 .2 3	.3 .2 5	.1 .1 2	.2 .0 2	.3 .0 3	.0 .0 0	.0 .0 0	.0 .0 0	35 17 52	3.8 1.8 5.6
2<5	.5 .6 11	.4 .2 6	.4 .2 6	.2 .2 4	.2 .4 6	1.0 .6 15	.6 .4 10	.4 .3 7	.4 .3 7	.8 .3 10	.2 .2 4	.3 .8 10	.1 .1 2	.3 .1 4	.0 .3 3	.2 .4 6	.1 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	57 50 107	6.2 5.4 11.6
5<10	.9 2.9 35	1.2 .9 19	.8 1.2 18	1.2 .9 19	1.2 .9 19	.6 1.1 16	.3 .8 10	1.0 1.2 20	.5 1.3 17	1.1 1.5 24	.3 1.4 16	1.5 1.4 27	.5 2.2 25	1.1 2.6 34	.2 .9 10	.5 1.1 15	.4 1.9 22	.0 .0 0	.0 .0 0	.0 .0 0	113 214 327	12.2 23.1 35.4
10+	.3 1.9 21	.1 .6 7	.3 2.4 25	.0 1.7 16	.0 1.7 16	.1 2.3 22	.1 2.1 20	.5 1.7 21	.3 1.2 14	.5 2.9 32	.2 2.1 21	.0 1.5 14	.1 3.6 34	.3 3.7 37	.2 2.1 21	.0 2.1 19	.2 2.1 21	.0 .0 0	.0 .8 7	.0 .0 0	32 320 352	3.5 34.6 38.1
TOTAL PCT	84 9.1	35 3.8	56 0.1	45 4.9	51 5.5	73 7.9	51 5.5	53 5.7	47 5.1	78 8.4	44 4.8	57 6.2	69 7.5	87 9.4	+1 4.4	44 4.8	53 5.7	0 .0	8 .9	925 100.0		

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PERIOD: (PRIMARY) 1943-1970  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						0-3
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.5	.4
	11-21	.1	.0	.0	.1	.1	.1	.1	.0	.1	.1	.0	.1	.1	.0	.0	.1	.1	.0	.0	14	1.0
	22+	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	12	.9
	TOTAL	2	2	1	3	1	2	2	1	1	3	1	1	2	2	0	1	2	0	1	32	2.3
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	2	.1	
	4-10	.1	.0	.2	.0	.1	.0	.0	.1	.0	.1	.0	.1	.1	.1	.1	.0	.0	.0	16	1.2	
	11-21	.1	.1	.1	.1	.0	.3	.1	.1	.1	.1	.0	.3	.3	.0	.0	.0	.0	.0	24	1.7	
	22+	.3	.0	.0	.1	.3	.1	.1	.2	.1	.2	.0	.0	.0	.0	.0	.1	.0	.0	27	2.0	
	TOTAL	7	1	4	1	6	3	2	2	3	6	3	5	6	6	5	2	3	0	0	69	5.0
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2	.1	
	4-10	.1	.2	.1	.1	.0	.1	.0	.1	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	15	1.1	
	11-21	.4	.0	.1	.0	.1	.1	.1	.1	.1	.0	.1	.1	.3	.1	.1	.1	.2	.0	26	1.9	
	22+	.1	.0	.1	.1	.3	.1	.1	.1	.2	.1	.4	.1	.1	.0	.0	.1	.0	.0	29	2.1	
	TOTAL	9	3	5	2	6	3	3	3	6	1	9	5	7	2	2	3	5	0	0	72	5.2
2<5	0-3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	10	.7	
	4-10	.2	.1	.2	.2	.1	.2	.1	.2	.1	.1	.3	.1	.2	.1	.1	.1	.1	.0	37	2.7	
	11-21	.1	.1	.4	.1	.1	.6	.1	.1	.2	.1	.3	.2	.1	.1	.2	.2	.1	.0	44	3.2	
	22+	.5	.1	.1	.4	.5	.3	.5	.3	.4	.4	.3	.4	.2	.2	.5	.0	.0	.0	75	5.5	
	TOTAL	14	6	12	9	11	18	11	13	9	8	12	11	10	5	12	4	4	1	166	12.1	
5<10	0-3	.1	.1	.1	.1	.0	.0	.1	.0	.0	.0	.1	.1	.1	.0	.1	.4	.0	.0	23	1.7	
	4-10	.4	.6	1.2	.7	.4	.9	.7	.4	.4	.9	.7	.9	.9	.1	.3	.3	.0	.0	127	9.2	
	11-21	1.6	.6	.9	.7	.9	.9	.9	1.3	.9	.8	1.2	.8	1.0	.4	.9	.9	.0	.0	194	14.1	
	22+	1.4	.9	.5	.6	.6	.6	.5	.7	.6	.9	.9	1.5	1.5	.4	.5	.7	.0	.0	155	11.3	
	TOTAL	49	30	36	29	33	33	14	30	27	33	40	36	48	14	24	30	0	4	499	36.3	
10+	0-3	.1	.0	.1	.0	.1	.0	.2	.1	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	22	1.6	
	4-10	.4	.6	1.3	.9	1.1	.9	1.0	.9	.9	.2	.2	.6	.6	.4	.7	.5	.0	.0	149	10.8	
	11-21	.9	.6	1.2	.6	.9	.9	1.1	1.2	1.5	1.4	1.4	2.2	2.2	.9	.7	1.0	.0	.0	233	16.9	
	22+	.7	.1	.9	.3	1.2	.4	.4	.7	1.1	1.5	.7	.9	.9	.4	.4	.4	.0	.0	134	9.7	
	TOTAL	27	17	47	24	45	24	24	37	22	46	38	42	51	25	25	27	0	11	538	39.1	
TOTAL	108	59	105	68	118	85	60	85	65	105	78	94	101	124	51	67	71	0	17	1376	100.0	
PCT	7.8	4.3	7.6	4.9	8.6	6.2	4.4	6.2	4.7	7.6	5.7	6.8	7.3	9.0	3.7	4.9	5.2	.0	1.2	100.0		

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PERIOD: (PRIMARY) 1943-1970  
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TABLE 10

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

HR	000	150	300	500	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	9.5	1.3	1.9	17.1	25.9	15.2	2.5	.6	.0	.6	74.7	25.3	158
06009	11.3	1.3	4.7	13.3	28.7	14.7	4.7	.0	.0	.0	78.7	21.3	150
12015	10.0	.6	5.6	15.0	24.4	13.8	2.5	1.3	.6	1.3	75.0	25.0	160
18021	5.2	1.5	5.2	12.6	31.1	17.0	6.7	.0	.7	2.2	82.2	17.8	135
TOT	55	7	26	88	165	91	24	3	2	6	467	136	603
PCT	9.1	1.2	4.3	14.6	27.4	15.1	4.0	.5	.3	1.0	77.4	22.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	2.6	1.3	2.6	7.1	30.5	55.8	154
06009	4.1	1.4	2.0	12.9	29.3	50.3	147
12015	3.2	3.2	1.9	10.8	30.4	50.6	158
18021	1.5	2.3	1.5	14.3	32.3	48.1	133
TOT	17	12	12	66	181	304	592
PCT	2.9	2.0	2.0	11.1	30.6	51.4	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	7.8	12.3	33.8	40.3	26.0	154
06009	11.6	19.7	38.1	42.2	19.7	147
12015	10.8	19.6	39.9	38.0	22.2	158
18021	5.3	12.0	35.3	48.1	16.5	133
TOT	53	95	218	248	126	592
PCT	9.0	16.0	36.8	41.9	21.3	100.0

MARCH

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

AREA 0009 ADAK  
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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				
45/49	.0	.0	.0	.0	.2	.4	.2	.1	.9	9	.9	
40/44	.0	.0	.1	.2	2.1	4.4	5.0	9.2	201	21.0	.7	
35/39	.0	.0	.3	.6	2.5	7.8	15.5	28.5	529	55.3	.3	
30/34	.0	.0	.0	.0	.4	2.4	7.0	8.8	178	18.6	.4	
25/29	.0	.0	.0	.0	.1	.2	.9	2.5	36	3.8	.0	
20/24	.0	.0	.0	.0	.0	.0	.0	.4	4	.4	.0	
TOTAL	0	0	4	8	51	146	274	474	957	100.0		
PCT	.0	.0	.4	.8	5.3	15.3	28.6	49.5				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
	.1	.0	.1	.0	.3	.2	.1	.0	.0	.1		
	.3	2.1	3.7	4.2	4.4	3.8	1.7	.2	.0	.7		
	5.0	6.8	6.6	7.2	9.1	7.8	7.6	4.8	.0	.3		
	4.0	3.8	2.8	.4	.4	1.1	2.5	3.1	.0	.4		
	1.7	1.0	.0	.1	.1	.0	.1	.7	.0	.0		
	.1	.0	.0	.0	.0	.0	.1	.2	.0	.0		
	107	131	126	114	137	124	116	87	0	15		
	11.2	13.7	13.2	11.9	14.3	13.0	12.1	9.1	.0	1.6		

TABLE 15

TEMP F	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
49	45	43	37	30	25	19	37.2	405			
48	44	42	37	28	23	18	36.0	366			
44	42	40	36	27	22	19	35.2	274			
45	43	41	36	28	21	19	35.5	351			
49	44	42	37	28	23	18	36.1	1396			

TABLE 16

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-39	60-69	70-79	80-89	90-100	MEAN				
00603	.0	1.7	7.3	16.4	27.3	47.2	86	286			
06609	.0	.7	5.2	16.4	31.2	46.5	86	269			
12615	.0	2.0	4.7	15.3	30.7	47.3	86	150			
18621	.0	.8	3.5	12.5	26.2	57.0	89	256			
TOT	0	12	51	146	275	477	87	961			

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

MARCH

AREA 0009 ADAK  
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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	17	20	21	24	25	28	29	32	33	36	37	40	41	44	45	48	TOT	M	W	MO
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.4	.4	6	.2	.2	.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.2	2	.1	.1	.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.5	1.1	1.1	1.1	1.1	13	.2	.1	1.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	1.5	1.5	1.5	1.5	24	.1	.4	2.8
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.2	1.2	1.2	1.2	1.2	25	.4	.1	2.7
2	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.6	1.8	1.1	1.8	1.8	1.1	1.1	49	.5	.5	5.5
1	.0	.0	.0	.0	.0	.0	.1	.2	.2	5.5	.5	.5	.5	.5	.5	.5	52	.7	.7	5.7
0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	9.6	1.1	.1	1.1	1.1	1.1	1.1	104	.5	.2	12.3
-1	.0	.0	.0	.0	.0	.0	.0	.6	7.1	6.2	.6	.7	.6	.7	.6	.6	75	.2	.2	9.0
-2	.0	.0	.0	.0	.0	.0	.0	.6	7.1	4.9	.7	.7	.7	.7	.7	.7	109	.6	.6	12.8
-3	.0	.0	.0	.0	.0	.0	.1	4.3	2.6	1.1	.0	.0	.1	.1	.0	.0	58	.1	.1	7.0
-4	.0	.0	.0	.0	.0	.0	1.2	4.2	1.8	.2	.0	.0	.2	.2	.0	.0	61	.4	.4	7.1
-5	.0	.0	.0	.0	.0	.0	1.1	4.9	1.4	.0	.0	.0	.0	.0	.0	.0	60	.1	.1	7.3
-6	.0	.0	.0	.0	.0	.0	1.8	3.1	.5	.0	.0	.0	.0	.0	.0	.0	44	.0	.0	5.4
-7/-8	.0	.0	.0	.0	.4	4.4	2.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	63	.0	.0	7.7
-9/-10	.0	.0	.0	1.4	1.6	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	28	.0	.0	3.4
-11/-13	.0	.0	.6	1.5	.9	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.0	.0	3.6
-14/-16	.1	.6	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	.0	1.2
TOTAL	.1	1.0	1.2	3.7	11.9	32.5	40.2	40.2	32.7	79	79	9.7	9.7	9.7	9.7	9.7	813	35	35	778
PCT	.1	1.2	1.2	3.7	11.9	32.5	40.2	40.2	32.7	79	79	9.7	9.7	9.7	9.7	9.7	100.0	4.3	4.3	95.7

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

MARCH

TABLE 18

AREA 0009 ADAK  
51-55N 172-180W

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
1-2	.0	1.3	.0	.0	.0	.0	3	.0	.4	1.7	.0	.0	.0	5	
3-4	.0	1.3	1.7	.4	.0	.0	8	.0	1.7	.0	.0	.0	.0	4	
5-6	.0	.4	1.7	.4	.0	.0	6	.0	.0	.4	.4	.4	.0	3	
7	.0	.0	2.2	1.7	.0	.0	9	.0	.0	1.7	.9	.0	.0	6	
8-9	.0	.0	.9	1.3	.4	.0	6	.0	.0	.0	.9	1.3	.0	5	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.0	.9	.0	2	.0	.0	.0	.4	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.9	.4	.0	3	
17-19	.0	.0	.0	.0	.9	.0	3	.0	.0	.0	.0	.4	.0	0	
20-22	.0	.0	.0	.0	.9	.0	2	.0	.0	.0	.0	.4	.0	1	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.6	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	7	15	9	7	2	40	0	5	9	8	8	0	30	
PCT	.0	3.0	6.5	3.9	3.0	.9	17.3	.0	2.2	3.9	3.5	3.5	.0	13.0	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
1-2	.0	.4	.0	.0	.0	.0	1	.4	.4	.4	.0	.0	.0	3	
3-4	.0	.4	1.3	.0	.0	.0	4	.0	2.2	.9	.0	.0	.0	7	
5-6	.0	.0	.9	.0	.0	.0	2	.0	.0	.4	.0	.0	.0	1	
7	.0	.0	.4	.9	.4	.0	4	.0	.0	1.3	.0	.0	.0	3	
8-9	.0	.0	.9	1.7	.9	.0	8	.0	.0	.4	.0	.4	.0	1	
10-11	.0	.0	.0	.9	.0	.0	2	.0	.0	.4	.0	.0	.0	1	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.9	.0	2	.0	.0	.0	.4	.0	.0	0	
17-19	.0	.0	.0	.9	.0	.0	2	.0	.0	.0	.0	.0	.0	1	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	0	2	8	10	5	0	25	1	6	8	1	1	0	17	
PCT	.0	.9	3.5	4.3	2.2	.0	10.8	.4	2.6	3.5	.4	.4	.0	7.4	

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970 MARCH TABLE 18 AREA 0009 ADAK 51-55N 172-180W

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.4	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0							
1-2	.0	.4	.0	.0	.0	.0	1	.0	.9	.4	.0	.0	.0	.0							
3-4	.0	1.7	1.3	.4	.0	.0	8	.0	.4	1.3	.4	.0	.0	.0							
5-6	.0	.4	2.6	.0	.0	.0	7	.0	.0	1.7	.9	.0	.0	.0							
7	.0	.0	1.3	.4	.0	.0	4	.0	.0	1.3	.0	.0	.0	.0							
8-9	.0	.0	.4	1.7	.0	.0	5	.0	.0	.9	.4	.0	.0	.0							
10-11	.0	.0	.0	.4	.0	.0	1	.0	.0	.9	.4	.0	.0	.0							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
TOTAL	.0	3.0	5.6	3.0	.0	.0	27	.0	1.3	6.5	2.2	.0	.0	10.0							
PCT							11.7														

HGT	M										NW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.9	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	.0							
1-2	.4	1.3	.0	.0	.0	.0	4	.0	.0	.9	.0	.0	.0	.0							
3-4	.0	.9	1.3	.4	.0	.0	6	.0	2.2	1.3	.0	.0	.0	.0							
5-6	.0	.4	3.9	.9	.0	.0	12	.0	.4	.9	.0	.0	.0	.0							
7	.0	.4	1.2	1.3	.0	.0	7	.0	.0	1.7	.9	.0	.0	.0							
8-9	.0	.0	.9	.4	.4	.4	5	.0	.0	.4	.4	.9	.0	.0							
10-11	.0	.0	.0	.4	.4	.0	2	.0	.0	.0	.4	.4	.0	.0							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.4	.0	.0							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.4	.4	.0	.0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0							
TOTAL	.4	3.9	7.4	3.5	.9	.4	38	.0	2.6	5.6	2.6	.4	.0	13.4							
PCT							16.5							100.0							

MARCH

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

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	1.3	1.3	.0	.0	.0	.0			6
1-2	.9	5.1	3.4	.0	.0	.0			22
3-4	.0	10.7	5.0	1.7	.0	.0			50
5-6	.0	1.7	12.4	2.6	.4	.0			40
7	.0	.4	11.1	6.0	.4	.0			42
8-9	.0	.0	4.3	6.8	4.3	.4			37
10-11	.0	.0	1.3	2.6	.9	.0			11
12	.0	.0	.0	.9	2.1	.0			7
13-16	.0	.0	.4	1.3	1.7	.4			9
17-19	.0	.0	.0	1.3	.9	.9			7
20-22	.0	.0	.0	.0	1.3	.0			3
23-25	.0	.0	.0	.0	.0	.0			0
26-32	.0	.0	.0	.0	.0	.0			0
33-40	.0	.0	.0	.0	.0	.0			0
41-48	.0	.0	.0	.0	.0	.0			0
49-60	.0	.0	.0	.0	.0	.0			0
61-70	.0	.0	.0	.0	.0	.0			0
71-86	.0	.0	.0	.0	.0	.0			0
87+	.0	.0	.0	.0	.0	.0			0
TOTAL	5	45	98	54	28	4			234
PCT	2.1	19.2	41.9	23.1	12.0	1.7			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)														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	.3	2.3	5.9	4.9	3.3	2.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	4	
6-7	.0	.3	2.3	6.2	6.8	4.6	2.3	1.0	1.6	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	8
8-9	.0	.0	1.3	3.9	5.9	5.2	2.0	2.0	1.7	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
10-11	.0	.0	2.0	.3	1.3	2.0	2.6	1.3	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
12-13	.0	.0	.0	.3	.3	2.0	.3	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8
>13	.0	.0	.0	.0	.0	.3	1.0	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
INDET	12.1	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39
TOTAL	38	8	35	48	54	49	26	14	18	10	7	0	0	0	0	0	0	0	0	0	0	307	6
PCT	12.4	2.6	11.4	15.6	17.6	16.0	8.5	4.6	5.9	3.3	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6

APRIL

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

AREA 0009 ADAK  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER					PCPN	FRZG	SMOKE	HAZE	BLWG	
N	.3	.0	.3	.0	.8	.0	.1	1.4	.0	.2	.0	.0	.0	.0	5.1	77
NNE	.1	.2	.0	.0	.9	.0	.0	1.0	.0	.2	.0	.0	.0	.0	2.2	40
NE	.4	.2	.2	.0	.6	.0	.0	1.4	.0	.3	.0	.0	.0	.0	3.4	58
ENE	.3	.1	.2	.0	1.1	.0	.0	1.6	.0	.3	.0	.1	.0	.0	1.5	41
E	.7	.0	.8	.0	1.2	.0	.0	2.6	.0	.3	.1	.0	.0	.0	4.0	82
ESE	.6	.0	.3	.0	.7	.0	.0	1.5	.0	.2	.1	.0	.0	.0	1.3	35
SE	1.2	.0	.5	.0	1.0	.0	.0	2.5	.0	.3	.1	.0	.0	.0	2.8	66
SSE	.5	.0	1.1	.0	.3	.0	.0	1.7	.0	.9	.0	.0	.0	.0	1.9	53
S	.7	.0	.5	.0	.4	.0	.0	1.5	.0	.9	.0	.0	.0	.0	4.8	84
SSW	.6	.2	.3	.0	.2	.0	.0	1.2	.0	.7	.1	.0	.0	.0	3.4	62
SW	.6	.0	.2	.0	.7	.0	.0	1.4	.0	.3	.3	.0	.0	.0	4.9	80
WSW	.5	.0	.1	.0	1.5	.0	.3	2.6	.0	.5	.2	.0	.0	.0	6.7	116
W	.3	.1	.7	.0	1.4	.0	.2	2.6	.0	.2	.0	.0	.0	.0	8.9	135
WNW	.2	.0	.0	.0	1.0	.0	.0	1.2	.0	.0	.1	.0	.0	.0	4.1	63
NW	.4	.1	.3	.0	1.2	.0	.0	2.1	.0	.1	.1	.0	.0	.0	4.8	82
NNW	.1	.1	.4	.0	1.3	.0	.0	1.8	.0	.0	.1	.0	.1	.0	4.0	70
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.1	.0	.2	.0	.0	.3	.0	.3	.1	.0	.0	.0	.8	18
TOT OBS	90	17	70	0	168	0	6	4	0	66	14	2	750	2	1162	1162
TOT PCT	7.7	1.5	6.0	.0	14.5	.0	.5	28.4	.0	5.7	1.2	.2	64.5	.2	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG	SNOW	OTHER					PCPN	FRZG	SMOKE	HAZE	BLWG	
00003	7.6	.9	4.5	.0	17.6	.0	.3	29.4	.0	5.2	2.1	.3	63.0	.3	330	330
06009	8.9	1.1	6.4	.0	11.7	.0	.7	27.4	.0	6.8	1.1	.0	64.8	.0	281	281
12015	4.9	3.4	4.5	.0	9.1	.0	1.1	20.5	.0	4.9	.4	.4	73.9	.4	264	264
18021	9.3	.7	8.3	.0	17.9	.0	.0	34.6	.0	6.3	1.0	.0	58.1	.0	301	301
TOT	91	17	70	0	169	0	6	332	0	68	14	2	760	2	1176	1176
PCT	7.7	1.4	6.0	.0	14.4	.0	.5	28.2	.0	5.8	1.2	.2	64.6	.2	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1943-1970  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR					
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21		
N	.4	2.2	3.1	1.2	.2	.0	117	7.1	15.1	6.8	.0	8.1	7.1	4.8	20.0	7.7	7.7		
NNE	.1	.7	1.7	.8	.1	.0	56	3.4	16.8	3.0	.0	2.2	3.0	3.2	4.0	6.3	2.7		
NE	.5	1.9	1.8	.6	.1	.0	81	4.9	13.1	4.9	.0	3.1	4.1	7.7	6.0	2.7	6.3		
ENE	.2	1.6	1.3	.2	.1	.1	56	3.4	12.9	3.3	.0	3.4	6.1	2.4	.0	3.2	4.1		
E	.2	2.4	3.5	1.0	.2	.1	121	7.4	15.2	9.8	.0	7.6	7.1	4.0	4.0	5.9	8.1		
ESE	.2	.7	1.5	.5	.3	.0	54	3.3	17.5	3.5	.0	1.8	4.1	2.4	.0	2.7	5.4		
SE	.2	1.5	2.1	1.2	.6	.1	94	5.7	18.6	6.1	.0	6.9	7.1	2.4	4.0	6.8	7.2		
SSE	.2	.8	1.4	1.4	.4	.0	70	4.3	19.5	3.5	.0	4.5	4.1	3.6	8.0	5.9	4.1		
S	.2	1.4	2.3	1.9	.5	.2	109	6.6	19.8	5.4	.0	3.4	6.6	7.7	10.0	7.7	3.6		
SSW	.2	.8	1.5	1.8	.4	.1	78	4.7	21.1	4.4	.0	1.7	3.0	6.0	2.0	4.5	4.5		
SW	.2	1.0	2.4	2.2	.7	.0	107	6.5	20.6	6.6	.0	10.3	3.0	6.5	2.0	9.0	6.3		
WSW	.1	1.3	3.5	2.4	1.2	.2	144	8.8	22.0	7.5	.0	10.8	9.1	14.5	14.0	5.0	4.5		
W	.7	3.3	3.5	2.7	.7	.2	182	11.1	17.5	12.2	.0	13.8	11.2	10.9	6.0	14.5	7.7		
WNW	.2	1.4	2.6	1.1	.4	.0	94	5.7	16.8	5.4	.0	5.2	4.6	6.0	4.0	4.5	6.8		
NW	1.0	2.7	3.3	1.8	.4	.0	151	9.2	14.5	10.1	.0	13.8	10.2	8.1	12.0	5.9	11.8		
NNW	.4	1.3	2.2	1.3	.2	.0	91	5.5	16.2	4.7	.0	5.2	3.6	6.9	4.0	6.8	6.3		
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.4	4.4	6.2	3.6	1.0	17	40	2.4	17.0	2.8	.0	.4	6.1	2.8	.0	.9	2.7		
TOT OBS	122	414	622	364	106	17	1645	100.0	17.0	427	58	223	197	248	50	221	221		
TOT PCT	7.4	25.2	37.8	22.1	6.4	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)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR					
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21			
N	1.8	4.1	3.7	.8	.1	173	10.5	15.7	9.8	3.4	10.3	10.2	8.1	24.0	14.0	10.4	10.4		
NE	2.1	4.0	1.8	.4	.1	137	8.3	13.0	8.2	8.6	5.8	10.2	10.1	6.0	5.9	10.4	10.4		
E	1.8	4.6	3.0	1.0	.2	175	10.6	15.9	13.3	13.8	9.4	11.2	6.5	4.0	8.6	13.6	13.6		
SE	1.5	3.5	2.6	2.2	.2	164	10.0	19.0	9.6	10.3	9.4	11.2	6.0	12.0	12.7	11.3	11.3		
S	1.3	4.3	2.7	2.4	.7	187	11.4	20.4	9.8	5.2	17.0	9.6	13.7	12.0	12.2	8.1	8.1		
SW	1.4	4.3	5.4	3.4	.7	251	15.3	21.4	14.1	20.7	17.9	12.2	21.0	16.0	14.0	10.9	10.9		
W	2.5	6.3	5.3	2.2	.4	276	16.8	17.3	17.6	19.0	17.0	15.7	16.9	10.0	19.0	14.5	14.5		
NW	3.2	5.7	4.3	1.5	.1	242	14.7	15.1	14.8	19.0	12.6	13.7	14.9	16.0	12.7	18.1	18.1		
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.4	6.4	4.7	2.9	.4	40	2.4	17.0	2.8	.0	.4	6.1	2.8	.0	.9	2.7	2.7		
TOT OBS	297	604	474	229	41	1645	100.0	17.0	427	58	223	197	248	50	221	221	221		
TOT PCT	18.1	36.7	28.8	13.9	2.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1943-1970  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)								PCT TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN	FREQ	OBS
0000	4.3	23.9	35.5	24.5	8.2	1.0	2.5	17.9	100.0	485
0600	4.5	29.0	36.2	20.2	6.4	.5	3.1	16.2	100.0	420
1200	3.4	19.1	40.9	25.8	6.4	2.0	2.3	18.6	100.0	298
1800	7.2	26.9	39.8	18.8	4.5	.9	1.8	15.8	100.0	442
TOT	82	414	622	364	106	17	40	17.0		1645
PCT	5.0	25.2	37.8	22.1	6.4	1.0	2.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8	8	8	8	8		
N	.7	.0	2.9	3.4	3.4	58	6.6			
NNE	.2	.4	.7	2.1	2.1	28	6.8			
NE	1.3	.5	.9	1.7	1.7	36	4.9			
ENE	1.0	.2	.6	.7	.7	21	4.2			
E	.5	.4	1.7	5.0	5.0	62	7.0			
ESE	.4	.0	.4	1.8	1.8	21	6.7			
SE	.0	.4	1.5	3.7	3.7	45	7.3			
SSE	.2	.4	.9	2.8	2.8	35	6.9			
S	.1	.4	2.0	5.6	5.6	66	7.3			
SSW	.1	.6	1.1	3.1	3.1	40	7.0			
SW	.4	.9	2.7	2.5	2.5	52	6.3			
WSW	.5	2.0	3.9	3.2	3.2	78	6.1			
W	.4	2.6	6.0	3.8	3.8	104	6.0			
WNW	.1	.9	2.6	2.3	2.3	48	6.5			
NW	.9	.6	2.6	3.4	3.4	61	6.3			
NNW	.4	.4	1.8	3.8	3.8	52	6.8			
VAR	.0	.0	.0	.0	.0	0	.0			
CALM	.1	.1	.1	.6	.6	8	6.3			
TOT OBS	60	86	264	405	405	815	6.5			
TOT PCT	7.4	10.6	32.4	49.7	49.7	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION																TOTAL OBS
	000	149	150	299	300	300	599	600	959	1000	2000	3500	5000	6500	8000+	ANY HGT	
N	.5	.1	.1	.0	.0	.0	.2	.2	2.1	1.7	.5	.1	.4	.0	.0	1.5	58
NNE	.1	.0	.0	.1	.1	.1	.9	.5	1.3	.4	.0	.0	.0	.0	.0	.6	28
NE	.4	.0	.0	.1	.1	.1	.5	.4	.4	.5	.0	.0	.0	.0	.0	2.1	36
ENE	.0	.0	.0	.0	.0	.0	.4	.4	.4	.4	.0	.0	.0	.0	.0	1.3	21
E	.9	.0	.0	.2	.2	.2	1.6	1.6	1.6	1.6	.1	.2	.0	.0	.0	1.3	62
ESE	.5	.0	.0	.2	.2	.2	1.1	.5	.5	.4	.1	.0	.0	.0	.0	.7	21
SE	.6	.2	.2	.2	.2	.2	.4	.4	2.0	1.0	.0	.0	.0	.0	.0	1.1	45
SSE	.7	.2	.2	.0	.0	.0	.9	.5	1.0	.0	.0	.0	.0	.0	.0	1.0	35
S	1.2	.2	.2	.0	.0	.0	1.2	.7	2.5	.7	.7	.1	.0	.0	.0	1.3	66
SSW	.9	.0	.0	.4	.4	.4	.5	1.0	1.0	.4	.4	.0	.0	.0	.0	1.5	40
SW	.4	.0	.0	.0	.0	.0	.4	.4	1.3	1.3	.5	.0	.0	.0	.0	2.5	52
WSW	.5	.1	.1	.0	.0	.0	.9	.6	2.6	1.2	.7	.0	.0	.0	.0	3.6	78
W	.4	.2	.2	.1	.1	.1	1.1	.6	3.9	2.2	.6	.5	.0	.0	.0	3.7	104
WNW	.0	.0	.0	.1	.1	.1	1.0	1.6	1.6	.9	.7	.0	.0	.0	.0	1.6	48
NW	.2	.0	.0	.1	.1	.1	.9	3.2	1.3	1.3	.4	.1	.0	.0	.0	1.6	61
NNW	.4	.0	.0	.1	.1	.1	.5	2.1	1.0	1.0	.2	.0	.0	.0	.1	1.6	52
VAR	.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	.1	.1	.1	.0	.0	.0	.0	.4	8
TOT OBS	64	10	15	15	92	220	131	43	9	5	3	223	815				
TOT PCT	7.9	1.2	1.8	1.8	11.3	16.1	5.3	1.1	.6	.4	27.4	100.0					

PERIOD: (PRIMARY) 1943-1970  
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TABLE 7

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

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	.2	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	2.0	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 >3500	3.8	7.0	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 >2000	11.9	20.7	22.6	23.0	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
OR >1000	25.1	43.2	48.0	49.4	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
OR >600	28.7	52.1	58.4	59.9	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
OR >300	29.0	52.9	59.7	61.7	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
OR >150	29.0	53.2	60.9	63.0	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
OR > 0	29.1	55.0	64.3	67.2	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
TOTAL	238	450	526	550	564	564	564	564	564	564	564	564	564	564	564	564

TOTAL NUMBER OF OBS: 818

PCT FREQ NH <5/8: 27.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
3.5	2.4	6.1	7.4	7.8	7.3	11.7	11.0	36.0	6.8	920
										OBSCD OBS

APRIL

PERIOD: (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

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TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	.1 .0 1	.1 .1 1	.0 .1 1	.1 .2 3	.1 .1 2	.0 .2 2	.1 .1 2	.1 .1 2	.2 .3 6	.0 .6 7	.0 .4 5	.0 .0 0	.2 .1 3	.0 .2 2	.1 .0 1	.1 .0 1	.0 .0 0	.0 .0 0	.0 .3 4	11 31 42	.9 2.7 3.6	
1/2<1	.1 .0 1	.0 .0 0	.1 .0 1	.1 .0 1	.2 .0 2	.3 .0 4	.2 .0 2	.5 .0 6	.1 .1 2	.0 .2 3	.1 .2 3	.1 .1 2	.2 .0 2	.1 .1 2	.1 .0 1	.2 .0 2	.1 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	26 8 34	2.2 .7 2.9
1<2	.0 .1 1	.0 .2 2	.3 .0 3	.3 .0 3	.2 .1 3	.2 .1 3	.3 .2 5	.3 .1 4	.3 .2 5	.1 .3 4	.3 .1 4	.2 .1 3	.1 .1 2	.3 .0 4	.2 .0 2	.2 .0 2	.1 .2 3	.0 .0 0	.0 .0 0	.0 .0 0	34 18 52	2.9 1.5 4.5
2<5	.5 .7 14	.1 .1 2	.4 .0 4	.4 .0 4	.7 .2 10	1.0 .5 18	.7 .3 11	.7 .4 13	.5 .4 11	.9 .5 16	.3 .5 10	.3 .5 10	.4 .4 10	.8 .2 11	.3 .2 5	.5 .3 9	.7 .1 9	.0 .0 0	.0 .0 0	.3 .0 3	109 63 172	9.4 5.4 14.8
5<10	.4 2.0 28	.6 1.3 22	.4 1.9 27	.4 1.9 27	.3 .3 7	.8 1.2 23	.1 .6 8	.4 1.1 18	.5 .9 16	.4 1.9 27	.6 2.0 30	.3 2.7 34	1.4 3.4 55	.9 4.2 59	.7 1.2 22	1.0 2.2 38	.7 1.7 28	.0 .0 0	.0 .0 0	.1 .3 5	111 336 447	9.5 28.9 38.4
10+	.3 2.5 32	.2 .8 11	.1 1.4 17	.1 1.4 17	.3 1.2 17	.3 2.4 31	.2 .4 7	.5 1.5 23	.2 .9 12	.3 2.2 29	.0 .9 11	.3 2.1 28	.3 3.4 43	.3 4.3 54	.0 2.8 33	.4 2.5 34	.3 2.1 28	.0 .0 0	.0 .5 6	.0 .5 6	44 372 416	3.8 32.0 35.8
TOTAL PCT	77 6.6	40 3.4	58 5.0	41 3.5	81 7.0	36 3.1	67 5.8	52 4.5	52 4.5	85 7.3	63 5.4	80 6.9	115 9.9	132 11.3	64 5.5	84 7.2	70 6.0	0 .0	18 1.5	1163 100.0	100.0	

APRIL

PERIOD (PRIMARY) 1943-1970  
(OVER-ALL) 1901-1970

AREA 0009 ADAK  
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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	6	.4	
	4-10	.1	.1	.0	.1	.0	.1	.0	.1	.3	.1	.0	.0	.1	.0	.1	.0	.0	.0	17	1.0	
	11-21	.0	.0	.1	.0	.1	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	10	.6	
	22+	.0	.1	.1	.0	.0	.1	.1	.2	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	14	.9	
TOTAL	2	2	3	2	2	2	2	2	6	7	5	0	4	3	1	2	0	0	4	47	5.9	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	3	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	2	.1	
	11-21	.0	.0	.1	.1	.1	.1	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	10	.6	
	22+	.1	.0	.1	.1	.2	.1	.2	.1	.1	.1	.1	.1	.1	.0	.0	.1	.1	.0	20	1.2	
TOTAL	1	0	2	2	2	2	2	2	2	2	3	2	2	2	1	2	2	0	0	35	2.1	
1<2	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	3	.2	
	4-10	.0	.1	.1	.1	.1	.1	.1	.0	.1	.0	.1	.1	.1	.1	.0	.0	.0	.0	12	.7	
	11-21	.1	.1	.0	.1	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.0	.0	27	1.7	
	22+	.0	.1	.1	.1	.0	.1	.2	.2	.1	.2	.1	.2	.2	.0	.0	.1	.0	.0	25	1.5	
TOTAL	1	4	4	4	5	7	8	4	5	4	4	4	4	5	4	0	4	0	0	67	4.1	
2<5	0-3	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.0	.1	.0	.0	.5	16	1.0
	4-10	.2	.0	.2	.4	.8	.1	.2	.2	.1	.2	.1	.1	.4	.1	.2	.1	.0	.0	52	3.2	
	11-21	.8	.2	.2	.4	.4	.4	.5	.3	.2	.1	.2	.2	.1	.1	.2	.2	.0	.0	76	4.6	
	22+	.1	.1	.1	.0	.2	.2	.2	.2	.4	.4	.5	.4	.3	.2	.6	.2	.2	.0	77	4.7	
TOTAL	20	5	10	12	12	12	15	14	11	20	12	14	11	15	8	15	10	0	8	221	13.5	
5<10	0-3	.1	.0	.1	.1	.0	.1	.1	.1	.0	.0	.0	.1	.2	.0	.3	.1	.0	.0	1.0	38	2.3
	4-10	.9	.3	.9	.4	.4	.4	.2	.4	.2	.4	.4	.5	1.0	.4	1.0	.2	.0	.0	130	8.0	
	11-21	.9	.7	.8	.3	1.1	.4	.6	.4	.7	.6	1.2	1.9	1.2	.9	1.5	.2	.0	.0	231	14.1	
	22+	.9	.6	.3	.1	.6	.2	.6	.7	1.1	1.3	1.3	1.8	2.0	.5	1.0	.9	.0	.0	226	13.8	
TOTAL	44	25	35	14	34	34	19	25	23	33	38	47	70	73	29	63	36	0	17	625	38.2	
10+	0-3	.2	.1	.2	.1	.1	.1	.1	.2	.1	.1	.1	.0	.2	.1	.6	.2	.0	.0	.7	55	3.4
	4-10	1.0	.3	.7	.7	1.2	.1	1.0	.7	.7	.1	.5	.7	1.8	.9	1.4	1.0	.0	.0	201	12.3	
	11-21	1.3	.7	.6	.6	1.7	.4	.6	.6	1.2	.6	.9	1.3	1.9	1.5	1.6	.9	.0	.0	253	16.1	
	22+	.4	.1	.1	.1	.3	.1	.6	.3	.7	.1	1.0	1.1	1.0	.7	.6	.2	.0	.0	121	7.4	
TOTAL	48	20	27	22	53	53	12	38	21	43	16	40	52	80	51	68	38	0	11	640	39.1	
TOTAL	116	56	81	56	120	120	54	94	69	109	78	107	143	178	94	150	90	0	40	1635	100.0	
PCT		7.1	3.4	5.0	3.4	7.3	3.3	5.7	4.2	6.7	4.8	6.5	8.7	10.9	5.7	9.2	5.5	.0	2.4	100.0		

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PERIOD: (PRIMARY) 1943-1970  
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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
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	6.8	.8	.8	11.8	27.8	13.1	6.3	2.1	.4	.0	70.0	30.0	237
06009	7.1	1.5	2.5	11.7	23.9	14.2	6.1	.0	.5	.0	67.5	32.5	197
12015	11.8	1.5	2.1	8.2	27.2	13.8	4.6	1.0	.5	.5	71.3	28.7	195
18021	6.5	.9	1.9	11.6	25.0	20.8	3.2	.9	.9	.9	72.7	27.3	216
TOT	67	10	15	92	220	131	43	9	5	3	595	250	845
PCT	7.9	1.2	1.8	10.9	26.0	15.5	5.1	1.1	.6	.4	70.4	29.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	1.8	2.2	3.1	11.9	30.1	50.9	226
06009	3.1	1.0	2.6	9.3	38.9	45.1	193
12015	5.8	1.6	3.7	9.4	34.0	45.5	191
18021	4.3	2.4	2.9	10.1	33.7	46.6	208
TOT	30	15	25	84	278	386	818
PCT	3.7	1.8	3.1	10.3	34.0	47.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	7.1	10.6	31.0	43.4	25.7
06009	6.7	11.9	30.1	39.4	30.6
12015	12.0	17.3	31.9	42.4	25.7
18021	6.7	12.0	29.8	47.1	23.1
TOT	66	105	251	353	214
PCT	8.1	12.8	30.7	43.2	26.2

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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
50/54	.0	.0	.0	.1	.2	.0	.1	.0	4	.4
45/49	.0	.0	.0	.1	.4	.9	.4	.6	26	2.4
40/44	.0	.0	.0	.4	2.9	3.4	6.6	13.2	293	26.6
35/39	.0	.0	.0	.9	3.4	8.2	15.5	29.4	632	57.4
30/34	.0	.0	.0	.0	.5	1.5	4.3	5.8	133	12.1
25/29	.0	.0	.0	.0	.0	.1	.3	.7	12	1.1
-0/24	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	0	16	80	156	299	551	1102	100.0
PCT	.0	.0	.0	1.5	7.3	14.2	27.1	50.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0
	.1	.5	.2	.3	.2	.1	.4	.4	.0	.3
	1.0	1.5	5.4	4.0	4.7	3.4	3.1	2.5	.0	.9
	5.7	4.5	7.2	5.6	5.5	9.0	9.1	9.8	.0	.9
	2.5	1.2	.6	.5	.4	1.1	2.4	2.7	.0	.6
	.3	.1	.0	.0	.0	.1	.1	.5	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
	107	88	148	115	120	151	165	178	0	30
	9.7	8.0	13.4	10.4	10.9	13.7	15.0	16.2	.0	2.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	50	49	45	39	34	29	27	38.7	488
06009	50	47	43	38	32	28	25	37.9	421
12015	47	44	41	37	32	27	24	36.7	297
18021	49	45	43	37	32	27	24	37.2	445
TOT	50	46	43	38	32	28	24	37.7	1651

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
00003	.0	2.1	13.3	14.5	23.4	46.7	85	338
06009	.0	2.1	3.1	12.8	29.7	52.4	87	290
12015	.0	.6	4.5	21.7	32.5	40.9	85	157
18021	.0	.6	6.2	11.1	26.3	55.7	88	323
TOT	0	16	81	156	301	554	86	1108

PERIOD: (PRIMARY) 1943-1970  
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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	21	25	29	33	37	41	45	49	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	.0	.2	4	.1	.3
9/10	.0	.0	.0	.0	.1	.0	.3	.0	4	.0	.4
7/8	.0	.0	.0	.0	.1	.9	.3	.0	13	.1	1.2
6	.0	.0	.0	.0	.1	.2	.2	.0	5	.0	.5
5	.0	.0	.0	.0	.6	1.6	.6	.0	27	.2	2.6
4	.0	.0	.0	.0	1.4	2.2	.0	.0	35	.3	3.3
3	.0	.0	.0	.1	2.1	1.8	.0	.0	38	1.1	2.8
2	.0	.0	.0	.2	5.8	3.5	.0	.0	92	1.4	8.1
1	.0	.0	.1	.5	6.5	.9	.0	.0	78	.5	7.5
0	.0	.0	.2	3.0	7.5	2.0	.0	.0	123	1.1	11.6
-1	.0	.0	.3	2.9	7.4	.6	.0	.0	109	.3	11.0
-2	.0	.0	.1	5.6	5.4	.3	.1	.0	111	.3	11.2
-3	.0	.0	.3	5.2	3.1	.2	.0	.0	85	.3	8.5
-4	.0	.0	.6	4.6	3.2	.1	.0	.0	82	.2	8.3
-5	.0	.0	.9	3.7	1.2	.0	.1	.0	58	.1	5.9
-6	.0	.0	.3	1.7	.5	.1	.0	.0	25	.1	2.5
-7/-8	.0	.1	1.6	2.7	.6	.1	.0	.0	49	.2	4.9
-9/-10	.0	.3	.6	.8	.4	.0	.0	.0	21	.0	2.2
-11/-13	.0	.1	.2	.3	.0	.0	.0	.0	6	.0	.6
-14/-16	.1	.0	.0	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	1	5	51	303	447	142	16	2	967	63	904
PCT	.1	.5	5.3	31.3	46.2	14.7	1.7	.2	100.0	6.5	93.5

TABLE 18

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

HGT	N										NE			TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.0	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0
1-2	.0	.4	3.3	.0	.0	.0	3	.0	1.2	2.4	.0	.0	.0	9
3-4	.0	.4	.4	.4	.0	.0	3	.0	.8	.4	.0	.0	.0	3
5-6	.0	.0	1.6	.0	.0	.0	4	.0	.0	.4	.0	.0	.0	1
7	.0	.0	.8	.8	.4	.0	5	.0	.0	.4	.0	.0	.0	1
8-9	.0	.0	.4	1.6	.0	.0	5	.0	.0	.4	.0	.0	.0	1
10-11	.0	.0	.0	.4	.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
TOTAL	0	5	16	8	1	0	30	0	5	10	0	0	0	15
PCT	.0	2.0	6.5	3.3	.4	.0	12.2	.0	2.0	4.1	.0	.0	.0	6.1

HGT	E										SE			TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	
<1	.8	.0	.0	.0	.0	.0	2	.4	.4	.0	.0	.0	.0	2
1-2	.0	.0	.4	.0	.0	.0	1	.0	.4	1.2	.0	.0	.0	4
3-4	.0	1.2	2.0	.0	.0	.0	8	.0	.0	.4	.0	.0	.0	1
5-6	.4	.0	.4	.0	.0	.0	2	.0	.0	.4	.4	.0	.0	2
7	.0	.0	.8	.0	.0	.0	2	.0	.0	.4	.8	.0	.0	3
8-9	.0	.0	1.2	.4	.8	.0	3	.0	.0	.4	.8	.0	.0	3
10-11	.0	.0	.4	.0	.4	.0	4	.0	.0	.0	.4	.0	.0	1
12	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.4	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.4	.0	2
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.8	.0	.0	2
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	3	3	13	1	4	0	24	1	2	7	9	1	0	20
PCT	1.2	1.2	5.3	.4	1.6	.0	9.8	.4	.8	2.8	3.7	.4	.0	8.1

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 APRIL  
 TABLE 18  
 AREA 0009 ADAK  
 51-55N 172-180W

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.4	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
1-2	.0	1.6	.4	.0	.0	.0	5	.0	.8	1.6	.0	.0	.0	6
3-4	.0	.4	.4	.0	.0	.0	2	.0	.4	.4	.0	.0	.0	2
5-6	.0	.8	2.4	.0	.0	.0	8	.0	.0	.8	1.6	.0	.0	6
7	.0	.0	.4	2.0	.0	.0	6	.0	.0	1.6	2.4	.0	.0	10
8-9	.0	.4	.0	.4	.4	.0	3	.0	.0	.8	.8	.0	.0	4
10-11	.0	.0	.0	.8	.4	.0	2	.0	.0	1.2	.8	.4	.0	6
12	.0	.0	.0	.0	.4	.8	5	.0	.0	.0	.0	.4	.0	1
13-16	.0	.0	.0	.0	.4	.8	3	.0	.0	1.2	.0	.0	.0	3
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.8	.0	.0	2
23-25	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.9	.9	.6	.4	37	.0	.3	1.6	1.9	.2	.0	40
TOTAL	.0	3.7	3.7	3.7	2.4	1.6	15.0	.0	1.2	6.5	7.7	.8	.0	16.3
PCT														

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

HGT	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.0	.0	.0	.0	.0	0	.0	.4	.0	.0	.0	.0	1
1-2	.0	.8	1.2	.0	.0	.0	5	.0	.4	3.3	.8	.0	.0	9
3-4	.0	.8	3.7	.0	.0	.0	11	.0	1.6	2.8	.0	.0	.0	13
5-6	.0	.0	1.2	.0	.0	.0	3	.0	.0	.0	.4	.4	.0	2
7	.0	.0	1.6	1.2	.0	.0	7	.0	.4	.0	.4	.0	.0	2
8-9	.0	.4	1.2	2.0	.0	.0	9	.0	.8	.4	.0	.0	.0	3
10-11	.0	.0	1.2	1.2	1.2	.0	6	.0	.0	.4	.8	.0	.0	3
12	.0	.0	.4	.4	.0	.0	1	.0	.0	.0	.4	.0	.0	1
13-16	.0	.0	.0	.4	.4	.0	2	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.4	.0	1	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.5	.22	1.4	.5	.0	46	.0	.9	1.7	.7	.1	.0	34
TOTAL	.0	2.0	8.9	5.7	2.0	.0	18.7	.0	3.7	6.9	2.8	.4	.0	13.8
PCT														

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

APRIL

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	4.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	16
1-2	.0	5.5	13.4	.0	.0	.0	.0	.0	.0	.0	48
3-4	.0	5.5	10.3	1.2	.0	.0	.0	.0	.0	.0	43
5-6	.4	.8	7.1	2.4	.4	.0	.0	.0	.0	.0	28
7	.0	.4	5.9	7.5	.4	.0	.0	.0	.0	.0	36
8-9	.0	1.6	4.7	5.5	.4	.0	.0	.0	.0	.0	31
10-11	.0	.0	2.0	4.3	2.8	.0	.0	.0	.0	.0	23
12	.0	.0	.0	1.6	1.2	.8	.0	.0	.0	.0	9
13-16	.0	.0	.0	2.0	1.2	.8	.0	.0	.0	.0	10
17-19	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	1
20-22	.0	.0	.0	1.6	.8	.0	.0	.0	.0	.0	6
23-25	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2
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
TOTAL	11	41	110	67	20	4	253				
PCT	4.3	16.2	43.5	26.5	7.9	1.6	100.0				

TABLE 19

PERIOD (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	.3	12.3	7.0	4.3	2.4	1.6	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108
6-7	.0	1.1	2.9	3.5	3.5	2.7	2.9	.3	1.1	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
8-9	.0	.0	.0	1.3	2.4	2.4	2.9	1.9	1.1	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	48
10-11	.0	.0	.0	.3	1.6	2.1	.8	.0	1.6	.0	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	28
12-13	.0	.0	.0	.3	.3	1.1	.0	1.6	.8	.0	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	22
>13	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	24.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94
TOTAL	94	51	37	36	38	37	25	17	20	4	11	3	1	0	0	0	0	0	0	0	374
PCT	25.1	13.6	9.9	9.6	10.2	9.9	6.7	4.5	5.3	1.1	2.9	.8	.3	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1899-1969

MAY

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER					FRZG	SMOKE	DUST	NO	
N	.6	.1	.6	.0	.1	.0	.1	1.4	25	.1	.8	.0	.0	5.7	
NNE	.5	.1	.2	.0	.1	.0	.0	.8	13	.0	.3	.0	.0	2.5	
NE	.5	.1	.5	.0	.3	.0	.1	1.3	22	.0	.2	.0	.0	2.4	
ENE	.6	.1	.8	.0	.3	.0	.0	1.5	26	.0	.3	.0	.0	1.3	
E	.9	.1	.3	.0	.2	.0	.0	1.5	26	.0	.3	.0	.0	2.7	
ESE	.9	.1	.8	.0	.0	.0	.0	1.7	29	.0	.5	.0	.0	1.4	
SE	1.2	.0	.8	.0	.0	.0	.0	2.0	34	.0	.8	.0	.0	2.7	
SSE	1.2	.1	.5	.0	.1	.0	.0	1.6	28	.0	.4	.0	.0	2.7	
S	1.0	.2	.8	.0	.1	.0	.0	2.1	36	.0	1.2	.0	.0	4.3	
SSW	.5	.0	.0	.0	.0	.0	.0	1.2	20	.0	1.1	.0	.0	2.6	
SW	.9	.0	.6	.0	.1	.0	.0	1.6	27	.0	1.4	.0	.0	5.7	
WSW	.6	.3	.3	.0	.0	.0	.1	1.3	22	.0	.8	.0	.1	6.6	
W	.5	.3	.2	.0	.1	.0	.0	1.0	18	.0	.6	.0	.0	8.5	
WNW	.4	.1	.3	.0	.1	.0	.0	.8	13	.0	.2	.0	.0	4.8	
NW	.5	.1	.9	.0	.0	.0	.1	1.4	25	.0	.5	.0	.0	6.1	
NNW	.4	.0	.2	.0	.1	.0	.0	.7	12	.0	.2	.0	.0	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	
CALM	.2	.1	.0	.0	.0	.0	.0	.2	4	.0	.2	.0	.0	2.3	
TOT OBS	197	26	145	0	27	0	4	22.0	380	1	168	27	1	1153	
TOT PCT	11.4	1.5	8.4	.0	1.6	.0	.2			.1	9.7	1.6	.1	66.6	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RA N SH:IR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER					FRZG	SMOKE	DUST	NO	
0000	10.6	1.6	5.1	.0	1.6	.0	.0	18.2	82	.0	9.8	2.4	.0	69.6	
0600	10.0	.5	8.8	.0	.9	.0	.2	19.7	83	.0	11.6	1.7	.0	67.1	
1200	12.8	2.5	8.0	.0	1.6	.0	.5	24.3	106	.2	7.8	1.1	.0	66.6	
1800	11.5	1.8	11.3	.0	2.0	.0	.2	25.1	111	.0	9.9	.9	.2	63.9	
TOT	197	28	145	0	27	0	4	21.8	382	1	171	27	1	1171	
PCT	11.2	1.6	8.3	.0	1.5	.0	.2			.1	9.8	1.5	.1	66.8	

MAY

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1899-1969

AREA 0009 ADAK  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)											TOTAL OBS	PCT FREQ	MEAN SPD			
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09	12				15	18	21
N	.4	2.6	4.0	1.0	.5	.0	192	8.5	14.8	6.8	9.6	7.1	10.6	9.3	8.1	9.7	9.2
NNE	.1	1.2	1.6	.5	.4	.0	86	3.8	15.2	4.8	2.4	4.9	3.0	2.8	3.0	4.4	1.8
NE	.1	2.5	2.1	.6	.2	.0	125	5.5	13.4	6.1	1.2	3.8	11.6	4.9	3.0	3.0	9.2
ENE	.2	.8	1.5	.6	.2	.0	76	3.4	17.1	4.2	1.2	1.9	5.0	2.8	3.0	2.8	4.8
E	.3	1.8	2.0	.8	.1	.0	113	5.0	14.3	4.8	6.0	3.6	6.0	5.2	4.0	5.5	5.7
ESE	.1	1.1	1.7	.7	.1	.0	87	3.8	16.1	4.2	2.4	4.1	6.5	2.6	6.1	2.2	4.4
SE	.5	2.0	2.2	.8	.3	.0	133	5.9	14.6	5.0	10.8	6.8	5.5	5.7	5.1	4.7	7.5
SSE	.2	1.3	2.1	.7	.1	.0	99	4.4	15.2	4.0	3.6	3.8	2.5	4.4	8.1	5.3	4.8
S	.2	1.8	3.3	1.3	.2	.0	155	6.8	16.1	6.2	9.6	9.3	7.0	7.8	6.1	6.1	3.1
SSW	.1	1.2	1.9	1.1	.2	.0	105	4.6	17.0	5.9	1.2	5.2	3.0	4.4	8.1	5.3	1.3
SW	.3	3.0	3.5	1.1	.3	.0	187	8.2	14.9	7.9	7.2	9.0	3.5	8.3	8.1	9.1	11.0
WSW	.1	1.8	3.9	2.3	.3	.0	193	8.5	17.9	8.4	12.0	6.0	8.5	10.3	6.1	9.1	8.3
W	.4	2.4	3.3	2.3	.5	.0	203	9.0	17.3	9.7	9.6	10.4	5.5	9.3	10.1	9.7	5.3
WNW	.3	1.4	2.1	1.4	.0	.0	119	5.2	15.8	3.7	3.6	6.8	3.0	7.5	6.1	5.5	4.4
NW	.6	2.5	4.0	1.8	.2	.0	206	9.1	16.0	5.7	9.6	8.5	5.5	7.8	7.1	8.9	11.4
NNW	.*	1.4	2.3	1.7	.3	.0	131	5.8	18.2	6.8	9.6	6.6	6.0	2.6	7.1	5.5	5.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	657	941	426	90	7	57	2.5	.0	1.8	.0	1.9	3.0	4.4	1.0	3.0	2.2
TOT OBS	146	29.0	41.5	18.8	4.0	.3	2267	100.0	15.5	545	83	365	199	387	99	361	228
TOT PCT	6.4	29.0	41.5	18.8	4.0	.3	2267	100.0	15.5	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		
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12	15				18	21
N	2.3	5.8	3.0	1.0	.2	278	12.3	15.0	11.6	12.0	12.1	13.6	12.1	11.1	14.1	11.0
NE	1.8	4.2	1.9	.8	.2	201	8.9	14.8	10.3	2.4	5.8	16.6	7.8	6.1	5.8	14.0
E	1.3	4.2	2.5	.8	.*	200	8.8	15.1	9.0	8.4	7.7	12.6	7.8	10.1	7.8	10.1
SE	2.1	4.4	2.9	.7	.2	232	10.2	14.8	12.1	10.8	10.7	8.0	10.1	13.1	10.0	12.3
S	1.7	4.5	4.0	1.0	.2	260	11.5	16.5	12.1	10.8	14.5	10.1	12.1	14.1	11.4	4.4
SW	2.6	6.4	5.9	1.8	.1	380	16.8	16.4	16.3	19.3	15.1	12.1	18.6	14.1	18.3	19.3
W	2.4	5.0	4.9	1.8	.1	322	14.2	16.8	13.4	13.3	17.3	8.5	16.8	16.2	15.2	9.6
NW	1.9	6.4	4.5	2.0	.1	337	14.9	16.8	16.5	19.3	15.1	15.6	10.3	14.1	14.4	17.1
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5	929	670	223	26	57	2.5	.0	1.8	.0	1.9	3.0	4.4	1.0	3.0	2.2
TOT OBS	419	41.0	29.6	9.8	1.1	2267	100.0	15.5	545	83	365	199	387	99	361	228
TOT PCT	18.5	41.0	29.6	9.8	1.1	2267	100.0	15.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

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PERIOD: (PRIMARY) 1943-1969  
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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	48+				
0000	3.8	30.4	40.8	18.5	4.3	.6	1.6	15.7	100.0	628
0600	3.2	30.0	42.9	18.1	3.4	.2	2.3	15.4	100.0	564
1200	4.5	23.9	41.4	21.4	4.7	.4	3.7	16.2	100.0	486
1800	4.2	30.7	41.1	17.7	3.6	.0	2.7	15.0	100.0	589
TOT	89	657	941	426	90	7	57	15.5		2267
PCT	3.9	29.0	41.5	18.8	4.0	.3	2.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	8	8	8	8		
N	.1	.4	2.1	5.4	110	7.3			110	7.3
NNE	.1	.1	.9	3.1	57	7.4			57	7.4
NE	.2	.2	1.0	2.6	55	7.0			55	7.0
ENE	.1	.0	.4	1.6	30	7.2			30	7.2
E	.3	.3	1.2	2.9	60	7.4			60	7.4
ESE	.0	.3	.4	2.2	40	7.4			40	7.4
SE	.2	.1	1.4	3.5	71	7.3			71	7.3
SSE	.1	.1	1.0	3.6	65	7.4			65	7.4
S	.1	.1	1.4	5.9	104	7.6			104	7.6
SSW	.1	.2	1.0	4.1	73	7.5			73	7.5
SW	.1	.4	3.0	5.2	120	7.2			120	7.2
WSW	.6	.7	2.9	4.4	116	6.7			116	6.7
W	.5	1.2	2.9	6.4	151	6.7			151	6.7
WNW	.2	.2	2.1	4.0	89	7.1			89	7.1
NW	.1	.6	2.6	4.7	110	7.0			110	7.0
NNW	.5	.3	1.3	3.4	76	6.8			76	6.8
VAR	.0	.0	.0	.0	0	.0			0	.0
CALM	.4	.0	.5	1.8	38	6.6			38	6.6
TOT OBS	51	72	356	886	1365	7.1			1365	7.1
TOT PCT	3.7	5.3	26.1	64.9	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)											NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	8000+	6500	7999		
N	.3	.1	.1	1.6	3.4	1.5	.1	.0	.1	.0	.8	110	
NNE	.4	.0	.5	.4	1.7	.4	.1	.0	.1	.0	.6	57	
NE	.5	.0	.4	.4	1.2	.7	.0	.0	.1	.0	.7	55	
ENE	.4	.0	.1	.3	1.2	.0	.0	.0	.0	.0	.2	30	
E	.7	.1	.4	.4	1.6	.4	.2	.0	.0	.0	.6	60	
ESE	.6	.1	.2	.3	.8	.2	.2	.0	.0	.0	.5	40	
SE	1.3	.1	.3	.7	1.5	.6	.2	.0	.0	.0	.6	71	
SSE	.5	.0	.1	.6	1.7	.7	.3	.1	.1	.0	.7	65	
S	1.4	.1	.2	1.9	2.4	.7	.3	.0	.0	.0	.6	104	
SSW	1.2	.1	.4	.8	1.5	.4	.3	.0	.0	.0	.4	73	
SW	1.0	.1	.3	1.5	2.9	1.2	.5	.0	.0	.4	1.0	120	
WSW	.5	.0	.3	1.4	2.6	.8	.8	.1	.0	.1	1.9	116	
W	.7	.0	.0	1.5	3.2	2.6	.4	.1	.0	.0	2.6	151	
WNW	.4	.0	.1	1.0	2.6	.9	.4	.1	.1	.1	.7	89	
NW	.6	.1	.2	1.1	3.2	1.5	.3	.0	.0	.0	1.2	110	
NNW	.3	.1	.2	.5	2.1	.8	.1	.1	.0	.0	1.3	76	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
CALM	.2	.0	.0	.4	1.0	.5	.1	.0	.0	.0	.5	38	
TOT OBS	150	10	54	201	473	189	61	4	6	11	206	1365	
TOT PCT	11.0	.7	4.0	14.7	34.7	13.8	4.5	.3	.4	.8	15.1	100.0	

PERIOD: (PRIMARY) 1943-1969  
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MAY

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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	OR	= OR	OR	= OR	OR	= OR	OR	= OR	OR	= OR	OR	= OR	OR	= OR	OR
= OR >6500	.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	.4	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 >3500	2.6	5.9	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
= OR >2000	9.1	18.7	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
= OR >1000	25.5	48.6	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
= OR >600	30.7	58.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.8
= OR >300	31.7	60.7	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
= OR >150	32.0	61.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
= OR > 0	32.2	63.2	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
TOTAL	440	864	1011	1011	1011	1011	1053	1053	1081	1081	1127	1127	1160	1160	1161	1161

TOTAL NUMBER OF OBS: 1367

PCT FREQ NH <5/8: 15.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	1.5	1.7	4.1	3.7	3.9	4.8	9.2	13.3	48.7	9.1	1557

MAY

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1899-1969

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TABLE 8

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

VSBY (NM)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																					PCP
<1/2	.1 .2 4	.0 .2 3	.2 .0 3	.1 .2 5	.0 .1 2	.0 .1 2	.0 .3 5	.1 .2 4	.1 .4 9	.1 .8 15	.1 .5 10	.1 .2 5	.1 .2 5	.0 .2 3	.0 .3 6	.1 .1 3	.0 .0 0	.0 .1 2	16 73 89	.9 4.2 5.2	
1/2<1	.0 .1 2	.3 .0 5	.1 .0 2	.1 .1 2	.1 .0 1	.2 .2 6	.1 .0 1	.2 .2 8	.2 .1 5	.2 .1 4	.2 .3 8	.0 .2 4	.0 .1 1	.0 .0 0	.2 .1 4	.1 .2 6	.0 .0 0	.0 .1 1	30 28 58	1.7 1.6 3.4	
1<2	.2 .1 5	.0 .1 1	.1 .1 3	.2 .1 5	.4 .1 9	.4 .3 14	.5 .3 14	.3 .0 5	.3 .4 12	.0 .1 2	.1 .3 7	.2 .1 5	.1 .2 4	.0 .0 0	.0 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	42 37 79	2.4 2.2 4.6	
2<5	.2 .5 11	.1 .2 6	.2 .2 7	.3 .2 10	.6 .3 15	.8 .2 17	.8 .2 17	.4 .4 14	.5 .5 17	.3 .5 13	.3 .5 15	.2 .6 14	.5 1.5 33	.2 .3 8	.1 .3 7	.1 .3 7	.0 .0 0	.0 .0 0	.1 .3 6	94 122 216	5.5 7.1 12.6
5<10	.8 2.2 52	.3 1.0 23	.5 1.0 26	.7 .2 16	.5 .8 23	.3 .5 14	.5 .8 23	.6 1.5 37	1.0 2.6 61	.6 1.3 33	.9 3.1 69	.4 3.8 72	.3 2.7 53	.4 2.0 42	1.0 1.5 43	.3 1.4 29	.0 .0 0	.2 .9 19	163 475 638	9.5 27.6 37.1	
10+	.2 3.6 66	.1 1.3 24	.1 1.6 28	.1 .8 14	.1 1.0 19	.2 1.9 35	.2 1.9 35	.1 1.0 18	.1 1.4 26	.0 1.2 21	.1 2.5 44	.4 2.4 49	.2 4.5 80	.2 2.5 46	.2 4.4 78	.2 2.5 44	.0 .0 0	.0 1.1 19	35 603 638	2.0 35.1 37.1	
TOTAL	140	62	69	52	81	64	95	84	129	89	153	149	176	99	140	89	0	47	1718	100.0	
PCT	8.1	3.6	4.0	3.0	4.7	3.7	5.5	4.9	7.5	5.2	8.9	8.7	10.2	5.8	8.1	5.2	.0	2.7	100.0		

MAY

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1899-1969

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	MSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	*	.0	.0	.1	.3
	4-10	.1	.0	.0	.1	.1	.0	.1	.1	.1	.2	.2	.1	.1	*	.1	.0	.0	.0	1.3
	11-21	.1	.1	*	.1	.1	.1	.1	.1	.3	.4	.2	.2	.0	*	.1	.1	.0	.0	2.2
	22+	.0	*	.1	.0	*	.0	*	.0	.0	*	*	.0	.1	*	.0	*	.0	.0	.5
TOTAL	4	4	3	6	6	5	2	5	4	10	16	10	7	5	3	6	3	0	2	4.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
	4-10	.0	.0	*	*	.0	*	.0	.0	.0	*	.1	*	*	.0	*	*	.0	.0	.5
	11-21	.1	*	*	.0	*	.1	*	.1	.1	.2	.2	.0	.0	.0	*	*	.0	.0	1.0
	22+	.0	.2	*	*	*	.1	.0	.1	.0	.0	*	.1	.0	.0	.1	.2	.0	.0	1.1
TOTAL	2	5	3	2	2	2	5	1	6	4	5	8	4	1	4	4	6	0	1	2.6
1<2	0-3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1
	4-10	.2	.0	.2	*	.1	*	.1	.1	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	2.4
	11-21	.1	*	.3	*	.4	.2	.4	.2	.3	.0	.1	.1	.1	.0	.0	.0	.0	.0	4.7
	22+	.0	.0	.0	.1	.0	.2	.2	.0	.1	.1	*	*	.1	.0	.1	.1	.0	.0	2.4
TOTAL	7	1	11	5	8	9	9	15	6	12	3	7	6	4	2	2	2	0	0	4.4
2<5	0-3	*	.0	.0	.0	.0	.0	.1	.0	*	.0	.0	.0	.1	*	.0	.0	.0	.3	.7
	4-10	.1	.1	.4	*	.2	.2	.2	.1	.1	.1	.3	.0	.5	.0	.2	.1	.0	.0	6.0
	11-21	.3	.1	.2	.2	.3	.5	.4	.3	.4	.3	.3	.4	.5	*	.3	*	.0	.0	10.1
	22+	.2	.1	.1	.3	.4	.3	.3	.3	.3	.2	.2	.2	.5	.3	*	.2	.0	.0	9.0
TOTAL	13	7	14	12	22	24	24	22	14	19	15	18	15	37	8	11	8	0	7	11.9
5<10	0-3	.2	*	.0	*	.1	*	.1	*	*	.0	.1	*	*	*	.2	*	.0	1.0	4.5
	4-10	.8	.4	.9	.3	.7	.3	.6	.6	.9	.4	1.5	.8	.8	.4	.8	.4	.0	.0	23.6
	11-21	1.6	.7	.8	.5	.5	.4	.4	1.0	1.4	.8	1.6	1.9	1.1	.7	1.2	1.1	.0	.0	35.4
	22+	.7	.4	.3	.2	.4	.2	.4	.4	.8	.5	.9	1.4	.9	.7	1.0	.9	.0	.0	22.5
TOTAL	73	32	45	25	38	38	22	34	47	70	39	89	91	63	45	71	54	22	86.0	
10+	0-3	.2	.1	.1	*	.1	.1	.3	.1	.1	.0	.1	*	.2	.2	.4	.0	.0	1.1	3.2
	4-10	1.5	.7	1.0	.3	.7	.5	1.0	.4	.5	.5	.9	.9	.9	.9	1.3	.8	.0	.0	29.1
	11-21	1.8	.6	.7	.5	.8	.4	.9	.4	.9	.3	1.1	1.2	1.6	1.2	2.4	1.1	.0	.0	35.3
	22+	.5	.1	.2	.1	*	.2	.2	*	.2	.4	.3	.9	1.3	.4	.9	.6	.0	.0	14.1
TOTAL	91	34	46	20	37	37	24	54	22	38	26	53	68	90	62	111	57	24	85.7	
TOTAL	190	83	122	70	112	112	86	131	99	153	104	185	191	200	118	205	130	0	56	223.5
PCT	8.5	3.7	5.5	3.1	5.0	5.0	3.8	5.9	4.4	6.8	4.7	8.3	8.5	8.9	5.3	9.2	5.8	.0	2.5	100.0

MAY

PERIOD: (PRIMARY) 1943-1969  
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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	7.4	.3	4.0	13.1	33.6	13.4	5.4	.3	.9	.9	79.2	20.8	351
06009	10.0	.9	3.1	14.9	35.4	13.1	5.7	.3	.3	.9	84.6	15.4	350
12015	16.2	.6	4.6	14.2	32.8	12.0	2.8	.6	.3	.9	84.9	15.1	351
18021	10.0	1.1	3.7	15.4	33.6	16.0	3.7	.3	.9	.6	85.2	14.8	351
TOT	153	10	54	202	475	191	62	5	8	11	1171	232	1403
PCT	10.9	.7	3.8	14.4	33.9	13.6	4.4	.4	.6	.8	83.5	16.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	5.0	1.8	1.8	7.1	33.2	51.0	337
06009	6.4	2.3	3.8	12.3	31.3	43.9	342
12015	7.6	1.2	4.7	14.6	36.4	35.6	343
18021	4.3	2.9	2.0	10.7	38.0	42.0	345
TOT	80	28	42	153	475	589	1367
PCT	5.9	2.0	3.1	11.2	34.7	43.1	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	OBS
00003	7.4	13.1	29.4	53.4	17.2	337
06009	10.2	15.8	36.3	49.4	14.3	342
12015	16.0	22.7	44.6	42.0	13.4	343
18021	10.1	15.9	36.5	49.9	13.6	345
TOT	150	231	502	665	200	1367
PCT	11.0	16.9	36.7	48.6	14.6	100.0

MAY

PERIOD: (PRIMARY) 1943-1969  
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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					
55/59	.0	.0	.0	.0	.1	.1	.1	.0				5	.3
50/54	.0	.1	.2	.4	.6	.6	.2					32	2.0
45/49	.0	.0	.1	.5	2.1	3.5	5.3					185	11.6
40/44	.0	.0	.0	.4	2.6	6.9	15.5	27.9				847	53.3
35/39	.0	.0	.0	.2	2.9	4.8	7.2	16.7				504	31.7
30/34	.0	.0	.0	.0	.3	.2	.1	.5				16	1.0
TOTAL	.0	.1	.2	1.5	10.7	23.2	42.7	60.5				1589	100.0
PCT	.0	.1	.1	.9	6.7	14.6	26.9	50.7					

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.1	.0	.1	.0	.1	.1	.0	.0	.0			
.3	.3	.1	.3	.2	.3	.3	.3	.0	.1			
.7	1.6	1.4	1.6	1.8	1.9	1.0	1.2	.0	.4			
6.0	4.8	4.8	6.0	7.1	10.3	6.4	6.5	.0	1.3			
5.0	2.5	2.1	2.2	2.1	4.7	5.5	6.8	.0	.9			
.4	.3	.0	.0	.0	.0	.1	.1	.0	.0			
19.7	15.3	13.5	16.1	17.7	27.3	21.2	23.8	.0	4.3			
12.4	9.6	8.5	10.1	11.1	17.2	13.3	15.0	.0	2.7			

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
58	53	49	41	37	35	33	33	42.1	627			
55	51	48	41	37	34	34	34	41.3	562			
56	48	45	39	36	34	34	34	39.9	491			
57	50	45	40	36	35	33	33	40.4	592			
58	52	47	41	36	34	33	33	41.0	2272			

TABLE 16

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR											
	MAX	99%	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS		
58	53	49	41	37	35	33	33	42.1	627			
55	51	48	41	37	34	34	34	41.3	562			
56	48	45	39	36	34	34	34	39.9	491			
57	50	45	40	36	35	33	33	40.4	592			
58	52	47	41	36	34	33	33	41.0	2272			

PERIOD: (PRIMARY) 1949-1969  
(OVER-ALL) 1899-1969

MAY

AREA 0009 ADAK  
51-55N 172-180W

TABLE 17

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

AIR-SEA TMP DIF	33	37	41	45	49	53	57	TOT	W FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.1	.1	2	.0	.1
14/16	.0	.0	.0	.1	.1	.1	.0	4	.1	.2
11/13	.0	.0	.0	.1	.2	.1	.0	6	.0	.4
9/10	.0	.0	.0	.6	.8	.1	.0	21	.2	1.2
7/8	.0	.1	.8	1.5	.2	.0	.0	37	.1	2.4
6	.0	.1	.8	1.0	.0	.1	.0	27	.1	1.7
5	.0	.1	2.2	1.3	.0	.0	.0	52	.5	3.0
4	.0	.5	3.7	1.2	.1	.1	.0	83	1.1	4.6
3	.1	1.0	4.6	.6	.1	.0	.0	93	1.0	5.3
2	.1	3.5	7.9	1.0	.1	.0	.0	186	1.5	11.2
1	.1	4.2	4.9	.3	.0	.0	.0	139	.8	8.8
0	.5	11.2	6.9	.3	.0	.0	.0	276	1.7	17.2
-1	.3	8.2	1.8	.1	.0	.0	.0	150	.7	9.6
-2	1.4	8.2	1.8	.3	.0	.0	.0	170	.6	11.0
-3	1.5	2.9	.7	.0	.0	.0	.0	74	.3	4.7
-4	.8	2.7	.5	.0	.0	.0	.0	57	.1	3.8
-5	.5	2.3	.4	.0	.0	.0	.0	48	.4	2.9
-6	.5	.6	.1	.0	.0	.0	.0	17	.0	1.2
-7/-8	.3	.5	.2	.0	.0	.0	.0	16	.1	1.0
-9/-10	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
-11/-13	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	91	672	542	121	24	9	1	1460	138	1322
PCT	6.2	46.0	37.1	8.3	1.6	.6	.1	100.0	9.5	90.5

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

HGT	N					NE					TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47				
<1	.2	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2
1-2	.0	1.4	1.8	.0	.0	.4	.6	.4	.0	.0	.0	.0	.0	7
3-4	.0	1.8	2.9	.0	.0	.2	.6	.6	.2	.0	.0	.0	.0	8
5-6	.0	.6	1.2	.6	.0	.0	.0	.0	.2	.0	.0	.0	.0	1
7	.0	.0	.4	.2	.0	.0	.0	.6	.4	.0	.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	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1
20-22	.0	.0	.0	.0	.0	.5	.0	.0	.0	.2	.0	.0	.0	1
23-25	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.2	.0	.0	.0	0
26-32	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	21	32	5	8	3	8	8	5	2	3	8	2	26
PCT	.2	4.1	6.3	1.0	1.6	.6	1.6	1.6	1.0	.4	.6	1.6	.4	5.1

HGT	E					SE					TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47				
<1	.2	.4	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0	.0	4
1-2	.0	2.2	1.2	.0	.0	.0	1.8	1.0	.0	.0	.0	.0	.0	14
3-4	.0	.2	.8	.0	.0	.0	.4	1.0	.2	.0	.0	.0	.0	8
5-6	.0	.4	.6	.2	.0	.0	.6	.8	.2	.0	.0	.0	.0	8
7	.0	.0	.6	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	1
8-9	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	2
10-11	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	16	17	2	1	1	17	16	3	2	1	2	2	39
PCT	.2	3.1	3.3	.4	.2	.2	3.3	3.1	.6	.4	.2	.4	.4	7.6

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 MAY  
 TABLE 18  
 AREA 0009 ADAK  
 51-55N 172-180W

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.2	.6	.0	.0	.0	.0	4	.0	.6	.0	.0	.0	.0	3							
1-2	.2	1.2	1.8	.0	.0	.0	16	.0	1.0	.8	.0	.0	.0	9							
3-4	.4	.8	2.2	.0	.0	.0	17	.2	1.8	3.5	.6	.0	.0	31							
5-6	.0	.6	3.3	1.0	.0	.0	25	.0	1.0	2.5	.4	.0	.0	20							
7	.0	.0	1.4	1.2	.2	.0	14	.0	.0	2.2	1.6	.0	.0	19							
8-9	.0	.0	.0	.2	.0	.0	1	.0	.0	.4	.2	.0	.0	3							
10-11	.0	.0	.0	.4	.2	.0	3	.0	.0	.2	.2	.0	.0	2							
12	.0	.0	.0	.4	.2	.0	3	.0	.0	.2	.6	.0	.0	4							
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.2	.0	1							
17-19	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.2	.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							
TOTAL	4	16	44	18	3	0	85	1	22	50	18	2	0	93							
PCT	.8	3.1	8.6	3.5	.6	.0	16.6	.2	4.3	9.8	3.5	.4	.0	18.2							

HGT	W										NW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.4	1.2	.0	.0	.0	.0	8	.2	.8	.0	.0	.0	.0	5							
1-2	.0	1.8	2.0	.0	.0	.0	19	.4	1.2	.8	.0	.0	.0	12							
3-4	.0	1.2	1.8	.6	.0	.0	18	.0	1.6	1.8	.4	.0	.0	19							
5-6	.0	.2	2.9	1.0	.0	.0	21	.0	.0	1.4	.6	.0	.0	10							
7	.0	.0	1.0	1.8	.2	.0	15	.0	.2	1.0	.6	.0	.0	9							
8-9	.0	.0	.4	.2	.0	.0	3	.0	.0	.2	.6	.0	.0	4							
10-11	.0	.0	.0	1.2	.0	.0	6	.0	.0	.4	.4	.0	.0	4							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.4	.2	.2	.0	4	.0	.0	.0	.4	.2	.0	3							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.6	.2	.0	3							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.2	.0	1							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	2	22	43	25	2	0	94	3	19	28	18	2	0	70							
PCT	.4	4.3	8.4	4.9	.4	.0	18.4	.6	3.7	5.5	3.5	.4	.0	13.7							

MAY

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)											TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+						
<1	5.8	4.7	.0	.0	.0	.0	.0	56				
1-2	.9	10.5	9.2	.0	.0	.0	.0	110				
3-4	.7	7.9	13.8	1.9	.0	.0	.0	130				
5-6	.0	3.2	12.1	3.9	.0	.0	.0	103				
7	.0	.2	6.9	5.6	.4	.0	.0	70				
8-9	.0	.0	1.1	1.3	.2	.0	.0	14				
10-11	.0	.0	.7	2.1	.4	.0	.0	17				
12	.0	.0	.2	1.1	.4	.0	.0	9				
13-16	.0	.0	.4	.7	.7	.0	.0	11				
17-19	.0	.0	.0	.7	.6	.0	.0	7				
20-22	.0	.0	.0	.0	1.3	.0	.0	7				
23-25	.0	.0	.0	.0	.2	.0	1					
26-32	.0	.0	.0	.0	.0	.0	0					
33-40	.0	.0	.0	.0	.0	.0	0					
41-48	.0	.0	.0	.0	.0	.0	0					
49-60	.0	.0	.0	.0	.0	.0	0					
61-70	.0	.0	.0	.0	.0	.0	0					
71-86	.0	.0	.0	.0	.0	.0	0					
87+	.0	.0	.0	.0	.0	.0	0					
TOTAL	40	141	238	94	22	0	535					
PCT	7.5	26.4	44.5	17.6	4.1	.0	100.0					

TABLE 19

PERIOD (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+ TOTAL	MEAN HGT		
<6	1.0	11.4	12.0	5.2	1.9	.3	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	3
6-7	.0	2.3	6.1	7.4	4.4	1.9	1.9	.4	1.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	181	6
8-9	.0	.6	4.1	3.4	4.8	1.5	.6	.7	.7	.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	120	6
10-11	.0	.0	.1	.4	1.2	1.5	1.0	.1	.3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	33	8
12-13	.0	.0	.0	.1	.0	.1	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	5	11
>13	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	17.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	0
TOTAL	129	98	153	115	84	37	30	9	15	8	5	2	1	0	0	0	0	0	0	0	0	686	4
PCT	18.8	14.3	22.3	16.8	12.2	5.4	4.4	1.3	2.2	1.2	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

JUNE

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					PCPN	PCPN	WV	HAZE	DUST	BLWG		SNOW
N	.3	.1	.3	.0	.0	.0	.0	.8	.0	.0	1.4	.1	.0	.0	.0	.0	5.3	240
NNE	.2	.1	.3	.0	.0	.0	.0	.6	.0	.0	.9	*	.0	.0	.0	.0	2.8	136
NE	.4	*	.6	.0	.0	.0	.0	1.0	.0	.0	1.6	.2	.0	.0	.0	.0	3.5	202
ENE	.5	*	.3	.0	.0	.0	.0	.9	.0	.0	1.0	*	.0	.0	.0	.0	3.4	171
E	.9	.1	.6	.0	.0	.0	.0	1.5	.0	.0	1.1	.1	.0	.0	.0	.0	5.6	262
ESE	.2	.0	.3	.0	.0	.0	.0	.5	.0	.0	.3	.1	.0	.0	.0	.0	3.8	149
SE	.7	.0	.9	.0	.0	.0	.0	1.6	.0	.0	.8	*	.0	.0	.0	.0	4.6	221
SSE	.6	.0	.4	.0	.0	.0	.0	1.0	.0	.0	.9	.1	.0	.0	.0	.0	2.9	151
S	1.2	.1	1.1	.0	.0	.0	.0	2.4	.0	.0	1.8	.1	.0	.0	.0	.0	5.2	299
SSW	.5	*	.7	.0	.0	.0	.0	1.2	.0	.0	.6	.1	.0	.0	.0	.0	1.9	118
SW	.8	.3	.7	.0	.0	.0	*	1.8	.0	.0	1.2	.1	.0	.0	.0	.0	3.3	204
WSW	.3	.1	.5	.0	.0	.0	.0	.9	.0	.0	1.0	*	.0	.0	.0	.0	4.2	195
W	.3	.2	.4	.0	.0	.0	.0	.9	.0	.0	1.6	.1	.0	.0	.0	.0	6.7	292
WNW	.1	.1	.2	.0	.0	.0	.0	.3	.0	.0	.4	.0	.0	.0	.0	.0	2.7	109
NW	.2	.1	.2	.0	.0	.0	.0	.5	.0	.0	1.0	.1	.0	.0	.0	.0	4.6	197
NNW	.1	.1	.2	.0	.0	.0	.0	.3	.0	.0	.6	.1	.0	.0	.0	.0	3.3	137
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALC	.1	.0	.2	.0	.0	.0	.0	.3	.0	.0	.7	.2	.0	.0	.0	.0	1.6	87
TOT OBS	237	38	250	0	0	0	1	519	0	0	539	42	1	2069	1	65.3	3170	
TOT PCT	7.5	1.2	7.9	.0	.0	.0	*	16.4	.0	.0	17.0	1.3	*	65.3	*	100.0	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS	
				FRZG PCPN	SNOW	OTHER FRZN PCPN					PCPN	PCPN	WV	HAZE	DUST	BLWG		SNOW
0000	5.9	1.7	6.3	.0	.0	.0	.0	13.9	.0	.0	16.3	1.5	.0	.0	.0	.0	68.3	878
0600	3.5	1.2	8.0	.0	.0	.0	.0	17.5	.0	.0	17.6	1.6	.0	.0	.0	.0	63.4	767
1200	7.3	1.1	7.4	.0	.0	.0	.1	15.5	.0	.0	12.9	.5	.1	.0	.0	.0	71.0	754
1800	8.3	.9	10.2	.0	.0	.0	.0	19.0	.0	.0	20.8	1.6	.0	.0	.0	.0	58.6	795
TOT	238	39	253	0	0	0	1	524	0	0	540	42	1	2087	1	65.3	3194	
PCT	7.5	1.2	7.9	.0	.0	.0	*	16.4	.0	.0	16.9	1.3	*	65.3	*	100.0	100.0	

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PERIOD: (PRIMARY) 1943-1969  
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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	00	03	06	09	12	15	18	21
N	.4	3.5	2.7	.7	.1	.0	285	7.4	11.8	6.3	5.7	9.5	8.4	8.5	4.3	8.0	7.0
NNE	.4	2.2	1.7	.2	.1	.0	175	4.5	10.9	6.5	2.1	4.8	4.9	3.6	3.9	4.1	4.0
NE	.6	2.8	2.4	.3	.1	.0	248	6.4	10.7	6.4	5.1	5.1	10.0	6.0	5.7	6.4	7.8
ENE	.4	2.1	2.1	.5	*	.0	196	5.1	12.2	5.0	7.2	6.2	4.3	4.2	5.7	4.9	3.8
E	.5	3.0	3.1	1.2	.1	.0	306	7.9	13.5	9.5	7.8	8.8	7.3	7.4	5.7	6.9	8.3
ESE	.2	1.2	2.5	.5	*	.0	169	4.4	14.0	4.1	5.7	4.0	3.0	3.2	4.8	4.8	3.5
SE	.5	2.0	3.7	.9	.0	.0	271	7.0	13.5	6.2	9.0	6.3	8.4	7.0	8.2	6.5	6.8
SSE	.2	1.3	2.2	.8	.0	.0	178	4.6	14.4	3.8	5.1	4.9	4.9	5.4	3.5	4.9	4.3
S	.4	2.4	4.7	1.2	*	.0	341	8.9	14.4	8.3	10.5	9.3	8.9	7.6	11.3	8.1	8.8
SSW	.3	1.1	2.0	.4	.0	.0	146	3.8	13.6	2.7	1.2	3.2	4.9	4.7	3.9	5.1	4.8
SW	.3	2.5	3.8	.5	.0	.0	275	7.1	12.8	7.7	9.9	5.5	5.4	7.6	9.2	5.8	7.5
WSW	.3	2.2	3.1	.6	.1	.0	238	6.2	13.2	5.8	6.9	5.1	6.2	7.6	4.6	5.1	8.5
W	.6	3.6	3.9	.8	.1	.0	343	8.9	12.4	8.7	7.8	9.0	6.5	9.6	9.6	10.4	8.8
WNW	.5	1.6	1.2	.4	*	.0	136	3.5	12.4	3.7	3.0	3.0	4.9	2.5	3.2	4.9	2.8
NW	.2	3.0	2.3	.8	*	.0	259	6.7	12.0	8.7	6.6	7.0	4.3	5.6	5.0	7.4	6.5
NNW	.4	2.4	1.5	.4	.1	.0	179	4.6	11.4	4.4	4.5	4.4	4.9	6.1	5.3	3.7	4.3
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	1422	1661	392	25	0	108	2.6	12.4	2.1	1.5	3.9	3.2	3.4	2.1	2.8	3.0
TOT OBS	353	9.2	36.9	43.1	10.2	.6	3853	100.0		780	332	568	371	554	282	566	400
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	00	03	06	09	12	15	18	21
N	2.7	7.1	1.7	.4	.0	460	11.9	11.4	13.1	7.8	14.3	13.2	12.1	8.2	12.0	11.0
NE	3.2	6.3	1.6	.5	*	444	11.5	11.4	11.3	12.3	11.3	14.3	10.1	11.3	11.3	11.5
E	2.3	6.3	3.3	.5	.0	475	12.3	13.7	13.6	13.6	12.9	10.2	10.6	14.5	11.7	11.8
SE	2.1	5.8	3.5	.3	.0	449	11.7	13.9	10.0	14.2	11.3	13.2	12.5	11.7	11.5	11.0
S	1.8	6.1	4.4	.4	.0	487	12.6	14.2	11.0	11.7	12.5	13.7	12.3	15.2	13.3	13.5
SW	2.2	7.6	3.2	.2	*	513	13.3	13.0	13.5	16.9	10.6	11.6	11.6	13.8	11.0	16.0
W	2.8	6.7	2.5	.4	.0	479	12.4	12.4	12.4	10.8	12.0	11.3	12.1	12.8	15.4	11.5
NW	2.9	6.1	1.9	.5	.0	438	11.4	11.8	13.1	11.1	11.4	9.2	11.7	10.3	11.1	10.8
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	850	2001	123	2	108	2.8	12.4	2.1	1.5	3.9	3.2	3.4	2.1	2.8	3.0
TOT OBS	877	2001	22.1	3.2	.1	3853	100.0		780	332	568	371	554	282	566	400
TOT PCT									100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1943-1969  
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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	7.3	37.1	42.0	10.8	.9	1.9	12.6
0609	6.0	36.0	43.2	10.8	.4	3.6	12.4
1215	5.5	36.4	44.6	10.2	.4	3.0	12.3
1821	6.4	38.0	43.0	8.9	.8	2.9	12.2
TOT	245	1422	1661	392	25	108	12.4
PCT	6.4	36.9	43.1	10.2	.6	2.8	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	TOTAL OBS	CLOUD COVER		
N	.5	.3	2.4	4.6	194	6.9			
NNE	.2	.1	.8	3.5	115	7.4			
NE	.2	*	.8	4.7	144	7.5			
ENE	.1	*	.8	4.4	130	7.7			
E	*	.1	1.3	7.0	210	7.7			
ESE	.2	.1	1.0	4.0	131	7.3			
SE	.1	.1	1.6	5.4	178	7.6			
SSE	.1	.2	.5	3.9	116	7.5			
S	.2	.3	1.3	8.2	248	7.6			
SSW	.1	*	.6	3.4	102	7.7			
SW	*	.2	.6	4.5	134	7.6			
WSW	.0	.1	1.1	4.1	132	7.6			
W	.2	.5	2.4	6.0	226	7.2			
WNW	.0	.1	.9	2.6	90	7.6			
NW	.1	.2	1.8	4.0	151	7.3			
NNW	.2	.2	1.3	2.5	107	7.0			
VAR	.0	.0	.0	.0	0	.0			
CALM	*	.1	.6	2.1	69	7.5			
TOT OBS	59	66	495	1857	2477	7.4			
TOT PCT	2.4	2.7	20.0	75.0	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	000	149	150	199	300	599	600	999	1000	1999		
N	.8	.2	.2	.4	.4	.8	2.3	1.5	.2	.0	* .5	194
NNE	.7	.1	.1	.1	.1	.8	1.1	1.1	.0	.0	.0 .7	115
NE	1.3	*	*	.1	.1	.8	1.5	1.1	.1	.0	.0 .7	144
ENE	.8	.0	.0	.1	.1	.8	1.5	1.2	.3	.0	.0 .4	130
E	1.2	*	*	.2	.2	1.0	3.1	1.7	.5	*	* .5	210
ESE	.4	*	*	.2	.2	.4	1.7	1.4	.4	.0	.0 .5	131
SE	.6	.0	.0	.3	.3	.9	2.6	1.5	.4	*	* .8	178
SSE	1.0	.1	.1	.2	.2	.4	1.6	.6	.2	*	* .5	116
S	2.3	*	*	.6	.6	1.0	2.5	1.7	.2	.0	.0 .5	248
SSW	.6	.0	.0	.2	.2	.8	1.0	1.1	*	.0	.0 .3	102
SW	1.0	*	*	.1	.1	1.0	1.6	1.0	*	.0	.0 .6	134
WSW	.5	.0	.0	.1	.1	1.2	1.5	1.2	.2	.1	.0 .6	132
W	.6	*	*	.3	.3	1.7	2.9	2.2	.2	.0	.0 .6	226
WNW	.1	*	*	.1	.1	.6	1.3	.7	.2	.0	.0 .4	90
NW	.4	.0	.0	*	*	.8	2.0	1.4	.4	.1	.0 .8	151
NNW	.2	.0	.0	.4	.4	.3	1.1	1.2	.2	*	* .0	107
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0	0
CALM	.6	*	*	.0	.0	.6	.8	.3	.0	.0	* .2	69
TOT OBS	334	18	18	90	348	749	512	90	12	12	8	2477
TOT PCT	13.5	.7	.7	3.6	14.0	30.2	20.7	3.6	.5	.5	.3	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)	>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	.5	.8	1.3	1.3	.8	1.3	1.3	1.3	.8	1.3	1.3	.8	1.3	.8	1.3	.8
= OR >5000	.8	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	3.1	4.6	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	13.5	21.5	23.9	25.3	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4	25.4
= OR >1000	26.7	45.2	51.8	54.8	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
= OR >600	30.7	53.8	63.5	68.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
= OR >300	31.7	55.8	66.4	71.6	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
= OR >150	31.8	56.0	66.8	72.1	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
= OR > 0	31.9	57.3	69.7	76.9	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5
TOTAL	792	1421	1728	1906	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997

TOTAL NUMBER OF OBS: 2480 PCT FREQ NH <5/8: 12.3

TABLE 7A  
PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

		TOTAL										
		0	1	2	3	4	5	6	7	8	OBSCD	OBS
1.3	2.1	3.4	2.8	2.8	2.8	3.7	7.6	12.3	53.1	11.0	2909	

JUNE

PERIOD: (PRIMARY) 1943-1969  
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TABLE 8

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

VSBY (IN)	PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY																CALM TOTAL	PCT
	N	NNE	NE	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR			
<1/2	PCP	.0	.1	.0	*	*	.2	*	.1	.1	.0	.0	*	.0	.0	.1	.24	.8
	NO PCP	.5	.5	.8	.3	.2	.9	.2	.5	.2	.4	.1	.5	.3	.0	.4	222	7.0
	TOTAL	16	17	26	12	6	32	8	21	9	13	4	17	9	0	14	246	7.8
1/2<1	PCP	.0	.1	.1	*	*	.3	.2	.3	.1	.0	.0	*	.0	.0	.0	.49	1.6
	NO PCP	.2	.1	.3	*	.1	.4	.1	.1	.2	.3	.1	.3	.2	.0	*	96	3.0
	TOTAL	5	4	13	17	4	20	7	12	10	11	3	10	5	0	1	145	4.6
1<2	PCP	.1	.2	.2	.1	.2	.5	.4	.4	.1	.2	.0	.0	.0	.0	.0	.94	3.0
	NO PCP	.4	.2	.5	.2	.2	.6	.3	.5	.7	.6	.2	.2	.1	.0	.3	181	5.7
	TOTAL	14	11	22	16	11	35	23	29	25	25	6	7	2	0	8	275	8.7
2<5	PCP	.3	.2	.3	.3	.7	.6	.3	.3	.3	.2	.2	.2	.2	.0	.1	154	4.9
	NO PCP	.6	.6	.5	.4	.8	1.2	.3	.8	.7	.8	.3	.5	.3	.0	.3	323	10.2
	TOTAL	26	23	28	34	47	55	19	34	30	30	13	21	15	0	13	477	15.1
5<10	PCP	.3	.2	.4	.2	.6	.8	.4	.5	.3	.2	.2	.2	*	.0	.2	164	5.2
	NO PCP	1.8	.8	1.3	1.5	1.8	2.1	.8	1.3	1.6	2.5	.9	1.5	1.1	.0	.5	749	23.7
	TOTAL	67	30	54	60	76	89	37	58	63	88	33	53	36	0	21	913	28.9
10+	PCP	.1	.0	*	*	.1	.1	*	.2	*	.1	*	.1	.1	.0	.0	33	1.0
	NO PCP	3.4	1.6	1.8	1.8	2.3	2.1	.7	1.4	1.8	3.8	1.6	2.8	2.1	.0	.9	1069	33.9
	TOTAL	111	51	59	48	76	68	24	50	57	123	50	89	70	0	30	1102	34.9
TOTAL PCT	239 7.6	136 4.3	202 6.4	171 5.4	220 7.0	150 4.7	299 9.5	118 3.7	204 6.5	194 6.1	290 9.2	109 3.5	197 6.2	137 4.3	0 .0	87 2.8	3158 100.0	100.0

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PERIOD: (PRIMARY) 1943-1969  
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TABLE 9

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

VSBY (NH)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
<1/2	0-3	*	.0	.1	.1	*	*	.1	*	.1	.1	*	*	*	.0	.1	.1	.0	.6	51	1.3
	4-10	.2	.1	.3	.1	.1	.2	.1	.1	.2	*	.2	.1	.2	.1	.2	.3	.0	.0	92	2.4
	11-21	.2	.3	.3	.2	.2	.1	.1	.2	.5	.1	.4	.1	.2	*	.1	.1	.0	.0	117	3.1
	22+	*	*	*	.0	.1	.0	.0	.1	.1	*	.0	.0	*	.0	*	.0	.0	.0	20	.5
	TOTAL	20	17	26	12	17	10	9	17	35	10	22	9	14	4	18	19	0	21	280	7.4
1/2<1	0-3	.0	.0	.1	*	.0	.0	.0	.0	.1	.0	.1	.0	*	.0	.1	.0	.0	*	11	.3
	4-10	.1	.1	.1	.2	.1	.1	.1	.0	.1	.1	.1	*	*	.0	.1	.1	.0	.0	40	1.1
	11-21	.1	.1	.2	.2	.3	.1	.1	*	.3	.1	.2	.2	*	.1	.1	.1	.0	.0	81	2.1
	22+	.0	*	*	.0	.1	*	*	.1	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	18	.5
	TOTAL	5	5	13	15	20	4	4	4	20	7	12	11	11	3	10	5	0	1	150	4.0
1<2	0-3	.0	*	.2	*	*	.0	.0	*	.0	.0	.0	.0	*	.1	*	.0	.0	.2	23	.6
	4-10	.2	.2	.1	.1	.1	.1	.2	.1	.2	.1	.3	.2	.3	.1	*	.0	.0	.0	90	2.4
	11-21	.1	.2	.2	.2	.2	.1	.2	.2	.4	.5	.4	.4	.3	.1	.1	.1	.0	.0	140	3.7
	22+	.1	.0	.1	.1	.2	*	.0	.1	.3	*	.1	.1	.1	.1	.1	.1	.0	.0	47	1.2
	TOTAL	16	14	22	17	20	9	12	16	35	24	31	25	27	10	9	4	0	9	300	7.9
2<5	0-3	.1	.2	.1	.1	.1	.1	.0	.0	*	.1	.1	.1	*	.0	.0	.1	.0	.4	47	1.2
	4-10	.3	.5	.4	.4	.3	.1	.3	.2	.3	.1	.2	.4	.4	.2	.2	.2	.0	.0	178	4.7
	11-21	.2	.1	.2	.2	.5	.2	.8	.4	.8	.3	.6	.4	.5	.1	.1	.1	.0	.0	214	5.7
	22+	.1	.1	.1	.2	.4	.2	.2	.2	.4	.1	.2	.1	.1	.1	.2	.1	.0	.0	96	2.5
	TOTAL	26	33	32	36	49	19	52	27	57	20	38	36	36	16	24	19	0	15	535	14.1
5<10	0-3	.2	.1	.3	.1	.2	.1	.1	*	.1	.1	.1	.1	.2	.1	.2	.1	.0	.7	95	2.5
	4-10	1.0	.7	1.0	.5	1.0	.3	.6	.4	.8	.5	.3	.7	1.2	.5	.3	.6	.0	.0	442	11.7
	11-21	.9	.4	.9	.7	.8	.8	1.4	1.1	1.8	.6	1.4	1.1	1.1	.3	.6	.4	.0	.0	548	14.5
	22+	.4	.1	.1	.3	.2	.3	.4	.1	.3	.1	.1	.3	.3	.2	.4	.2	.0	.0	140	3.7
	TOTAL	91	49	83	60	84	56	94	63	113	49	92	84	110	41	82	48	0	26	1225	32.4
10+	0-3	.2	.1	.1	.1	.2	.0	.3	.1	.2	.1	.1	.1	.2	.1	.2	.1	.0	1.0	121	3.2
	4-10	1.8	.6	1.0	.8	1.3	.5	.8	.4	.9	.3	.8	.7	1.5	.7	1.5	1.2	.0	.0	556	14.7
	11-21	1.2	.7	.7	.5	1.2	1.1	1.3	.4	1.0	.4	.8	.8	1.7	.6	1.1	.6	.0	.0	530	14.0
	22+	.1	*	.1	*	.2	.1	.2	.3	.1	.1	.1	.2	.3	.2	.2	.1	.0	.0	88	2.3
	TOTAL	124	57	70	55	110	61	96	46	79	32	69	67	142	61	112	78	0	36	1295	34.2
	TOTAL	282	175	246	195	300	159	267	173	339	142	264	232	340	135	255	173	0	108	3785	100.0
	PCT	7.5	4.6	6.5	5.2	7.9	4.2	7.1	4.6	9.0	3.8	7.0	6.1	9.0	3.6	6.7	4.6	.0	2.9	100.0	

JUNE

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1900-1969

AREA 0009 AJAK  
51-55N 172-180W

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)										TOTAL ANY HGT	NH <5/8	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
00003	10.6	.6	2.5	10.6	29.8	21.3	3.5	1.0	.8	.4	81.2	18.8	714
06009	12.5	1.0	3.9	14.3	30.7	20.4	2.6	.2	.5	.2	86.2	13.6	609
12015	17.7	.2	3.6	14.1	29.2	19.7	3.4	.3	.3	.7	89.3	10.7	609
18021	12.4	1.2	4.5	16.4	28.7	19.2	5.0	.3	.2	.0	87.9	12.1	603
TOT	335	18	91	348	751	512	92	12	12	8	2179	356	2535
PCT	13.2	.7	3.6	13.7	29.6	20.2	3.6	.5	.5	.3	86.0	14.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	10+	10+	10+	10+	
00003	6.6	3.5	5.7	11.9	24.6	47.7	687	687	687	687	687
06009	6.4	3.7	7.2	12.9	26.6	43.2	597	597	597	597	597
12015	9.4	4.4	7.4	14.0	33.7	31.1	608	608	608	608	608
18021	7.1	3.6	9.9	13.1	26.9	39.5	588	588	588	588	588
TOT	182	94	185	321	691	1007	2480	2480	2480	2480	2480
PCT	7.3	3.8	7.5	12.9	27.9	40.6	100.0	100.0	100.0	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)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR				TOTAL OBS
	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	
00003	11.2	16.4	37.3	48.0	687
06009	12.7	19.4	43.4	44.7	597
12015	17.9	23.8	48.4	42.9	608
18021	12.8	19.7	46.6	44.6	588
TOT	337	490	1083	1120	2480
PCT	13.6	19.8	43.7	45.2	100.0

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PERIOD: (PRIMARY) 1943-1969  
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AREA 0009 ADAK  
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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
60/64	.0	.0	.0	.0	.1	.1	.0	.0	2	.1
55/59	.0	.0	.0	.0	.1	.3	.4	.1	14	.7
50/54	.0	.0	.1	.1	1.0	2.9	2.9	1.8	136	7.0
45/49	.0	.0	.0	.2	.5	5.1	12.4	15.2	646	33.4
40/44	.0	.0	.0	.0	.9	5.4	13.8	33.6	1039	53.8
35/39	.0	.0	.0	.0	.1	.3	1.2	3.4	95	4.9
TOTAL	0	0	1	6	49	237	593	1046	1932	100.0
PCT	.0	.0	.1	.3	2.5	12.3	30.7	54.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
55/59	.0	.1	.2	.0	.1	.2	.2	.1	.0	.0
50/54	.7	.6	.7	1.1	.8	.9	1.0	.8	.0	.4
45/49	4.5	3.8	3.7	4.7	3.6	4.8	4.0	2.7	.0	1.7
40/44	7.6	7.3	5.0	3.6	5.4	8.0	8.8	7.2	.0	.9
35/39	1.1	.4	.4	.3	.5	.3	1.1	.9	.0	.0
TOTAL	269	237	190	187	200	275	292	225	0	57
PCT	13.9	12.3	9.8	9.7	10.4	14.2	15.1	11.6	.0	3.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	60	55	52	45	41	39	37	45.3	1107
06009	57	54	50	44	40	39	37	44.4	940
12015	61	48	46	43	39	37	36	42.6	839
18021	54	52	48	43	39	37	36	43.5	968
TOT	61	54	50	43	39	38	36	44.0	3854

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
00003	.0	.7	4.7	18.3	35.3	41.0	86	578
06009	.0	.4	1.3	12.9	28.7	56.6	89	519
12015	.0	.0	1.0	6.7	28.9	63.4	91	298
18021	.0	.2	2.2	8.1	28.7	60.8	90	544
TOT	0	7	49	237	595	1051	88	1939

PERIOD: (PRIMARY) 1943-1969  
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JUNE

AREA 0009 ADAK  
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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	33	37	41	45	49	53	57	TOT	M	WD
	36	40	44	48	52	56	60	FOG	FOG	FOG
17/19	.0	.0	.0	*	.0	.1	.0	3	*	.1
14/16	.0	.0	.0	.0	.0	.1	.1	4	.1	.1
11/13	.0	.0	.0	.1	.3	.4	*	21	.3	.6
9/10	.0	.0	.0	.5	.7	.3	.0	34	.5	1.0
7/8	.0	.0	.7	1.0	.7	.2	*	63	.9	1.8
6	.0	.0	.4	.8	.3	*	.0	37	.5	1.1
5	.0	.0	.7	2.3	.8	.0	.0	89	.8	2.9
4	.0	.0	2.0	4.3	.3	*	.0	161	1.6	5.1
3	.0	.3	2.3	2.0	.0	.0	.0	110	1.5	3.1
2	.0	.2	6.5	9.5	.1	.0	.0	391	3.1	13.2
1	.0	.8	5.8	1.6	.1	.0	.0	198	1.2	7.1
0	*	2.5	21.4	7.9	*	.0	.0	765	3.8	28.0
-1	.0	1.8	3.7	1.0	*	.0	.0	158	1.0	5.6
-2	.0	2.3	5.6	1.0	.0	*	.0	213	1.1	7.8
-3	.0	.5	1.4	.2	.0	.0	.0	49	.2	1.9
-4	*	.9	1.0	.4	.0	.0	.0	56	.2	2.1
-5	.0	.5	.5	.2	*	.0	.0	29	.1	1.1
-6	.0	.1	.2	.0	.0	.0	.0	8	.1	.2
-7/-8	.0	.0	.1	*	.0	.0	.0	4	*	.1
-9/-10	.0	*	.1	.0	.0	.0	.0	3	*	.1
-11/-13	.0	.0	.2	.0	.0	.0	.0	4	.1	.1
TOTAL	2	234	1262	790	81	27	4	2400	406	1994
PCT	.1	9.8	52.6	32.9	3.4	1.1	.2	100.0	16.9	83.1

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

JUNE

TABLE 18

AREA 0009 ADAK  
51-55N 172-180W

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

HGT	N				NE				TOTAL				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.6	.9	.0	.0	.0	.0	.2	1.7	.0	.0	.0	.0	.9
1-2	.2	3.0	2.2	.0	.0	.0	.0	1.9	.9	.0	.0	.0	13
3-4	.0	2.4	2.8	.0	.0	.0	.0	.6	2.2	.0	.0	.0	13
5-6	.0	.4	2.2	.2	.0	.0	.0	.0	1.5	.0	.0	.0	7
7	.0	.0	.6	.2	.2	.0	.0	.4	.9	.0	.0	.0	6
8-9	.0	.0	.4	.4	.0	.0	.0	.0	.4	.2	.0	.0	3
10-11	.0	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	4	31	39	4	2	0	1	22	28	2	0	0	53
PCT	.9	6.7	8.4	.9	.4	.0	.2	4.7	6.0	.4	.0	.0	11.4

HGT	E				SE				TOTAL				
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+
<1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.2	2.2	1.7	.0	.0	.0	.0	1.5	1.7	.0	.0	.0	15
3-4	.2	.9	2.4	.2	.0	.0	.0	.2	1.7	.0	.0	.0	9
5-6	.0	.0	.9	.0	.0	.0	.0	.4	.6	.0	.0	.0	5
7	.0	.4	.9	.4	.4	.0	.0	.0	.0	.2	.0	.0	1
8-9	.0	.0	.9	.4	.0	.0	.0	.0	.2	.4	.0	.0	3
10-11	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.2	.2	.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
TOTAL	2	19	32	6	3	0	0	10	20	3	0	0	33
PCT	.4	4.1	6.9	1.3	.6	.0	.0	2.2	4.3	.6	.0	.0	7.1

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PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.9	.0	.0	.0	.0	4	.2	.6	.0	.0	.0	.0	4							
1-2	.0	1.1	.4	.0	.0	.0	7	.2	1.3	1.3	.0	.0	.0	13							
3-4	.0	.4	1.5	.2	.0	.0	10	.0	.6	2.8	.0	.0	.0	13							
5-6	.0	.0	.6	.6	.0	.0	6	.0	.2	.6	.0	.0	.0	4							
7	.0	.0	.6	.2	.0	.0	4	.0	.2	.9	.0	.0	.0	5							
8-9	.0	.0	.2	.2	.0	.0	2	.0	.2	.0	.0	.0	.0	1							
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.2	.0	.0	1							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.4	.0	.0	2							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	.0	2.4	3.4	1.5	.0	.0	34	2	15	26	3	0	0	46							
PCT	.0	2.4	3.4	1.5	.0	.0	7.3	.4	3.2	5.6	.6	.0	.0	9.9							

HGT	W										NW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.9	2.2	.0	.0	.0	.0	14	.9	1.1	.0	.0	.0	.0	9							
1-2	.0	1.9	2.4	.0	.0	.0	20	.0	2.4	1.5	.0	.0	.0	18							
3-4	.0	1.7	2.4	.2	.0	.0	20	.0	1.3	2.6	.0	.0	.0	18							
5-6	.0	.4	2.8	.9	.0	.0	19	.0	.2	1.3	.2	.0	.0	8							
7	.0	.0	1.7	1.3	.0	.0	14	.0	.0	.2	.2	.0	.0	2							
8-9	.0	.0	.2	.4	.0	.0	3	.0	.0	.0	.6	.0	.0	2							
10-11	.0	.0	.2	.2	.0	.0	2	.0	.0	.0	.4	.0	.0	3							
12	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.0	.4	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	.4	29	45	17	0	.0	95	4	23	26	7	1	0	61							
PCT	.9	6.3	9.7	3.7	.0	.0	20.5	.9	5.0	5.6	1.5	.2	.0	13.1							

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

JUNE

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+	
<1	8.5	7.5	.0	.0	.0	.0	.0	.0	.0	.0	79
1-2	.6	14.4	11.4	.0	.0	.0	.0	.0	.0	.0	130
3-4	.2	7.7	17.2	.6	.0	.0	.0	.0	.0	.0	127
5-6	.0	1.6	9.9	1.8	.0	.0	.0	.0	.0	.0	66
7	.0	1.0	5.5	2.4	.6	.0	.0	.0	.0	.0	47
8-9	.0	.2	2.2	2.2	.0	.0	.0	.0	.0	.0	23
10-11	.0	.0	.8	1.6	.2	.0	.0	.0	.0	.0	13
12	.0	.0	.0	.8	.2	.0	.0	.0	.0	.0	5
13-16	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	3
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
TOTAL	46	160	232	49	6	0	0	0	0	0	493
PCT	9.3	32.5	47.1	9.9	1.2	.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	3-4	5-6	7	8-9	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	2.9	13.3	19.2	6.9	4.0	1.4	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	281	3
6-7	.0	1.7	7.4	5.9	3.1	.7	.5	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	5
8-9	.0	.7	3.3	4.5	3.3	1.0	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	5
10-11	.0	.2	.0	.7	.3	.9	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
12-13	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	12.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	0
TOTAL	88	92	174	104	4	24	17	11	7	0	0	0	0	0	0	0	0	0	0	0	579	0
PCT	15.2	15.9	30.1	18.0	10.7	4.1	2.9	1.9	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	3

PERIOD: (PRIMARY) 1936-1969  
(OVER-ALL) 1899-1969

JULY

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
	DRZL	FRZG	SNOW					PCPN	PCPN	FOG	SMOKE	DUST		NO
N	.2	.0	.0	.0	.0	5	.0	.9	.0	.0	.0	.0	2.4	76
NNE	.1	.0	.0	.0	.0	6	.0	.6	*	.0	.0	.0	.9	39
NE	.2	.0	.0	.0	.0	11	.0	.6	*	.0	.0	.0	1.7	59
ENE	.3	.0	.0	.0	.0	12	.0	.7	.0	.0	.0	.0	1.5	57
E	.5	*	.0	.0	.0	29	.0	1.7	*	.0	.0	*	3.1	132
ESE	1.0	.0	.0	.0	.0	33	.0	1.1	*	.0	.0	.0	1.8	97
SE	1.1	.0	.0	.0	.0	34	.0	2.1	.1	.0	.0	.0	2.5	134
SSE	.7	.6	.0	.0	.0	27	.0	1.7	.1	.0	.0	.0	2.4	116
S	1.5	.9	.0	.0	.0	52	.0	3.4	.2	.0	.0	.0	4.0	215
SSW	1.0	.1	.0	.0	.0	34	.0	2.5	.0	.0	.0	.0	3.1	152
SW	1.5	*	.0	.0	.0	46	*	4.5	.2	.0	.0	.0	4.8	247
WSW	.7	1.0	.0	.0	.0	34	.0	2.9	.1	.0	.0	.0	4.1	185
W	1.0	.9	.0	.0	.0	42	.0	3.7	.4	.0	.0	.0	8.4	307
WNW	.2	*	.0	.0	.0	9	.0	1.0	.1	.0	.0	.0	2.6	87
W	.1	.0	.0	.0	.0	5	.0	1.4	.1	.0	.0	.0	2.9	100
NNW	.0	.0	.0	.0	.0	3	*	.9	.1	.0	.0	.0	1.5	57
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.0	.0	10	.0	1.1	.0	.0	.0	.0	1.0	56
TOT OBS	215	9	175	0	0	392	2	655	35	1	1031	1	2116	2116
TOT PCT	10.2	.4	8.3	.0	.0	18.5	.1	31.0	1.7	*	48.7	*	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
	DRZL	FRZG	SNOW					PCPN	PCPN	FOG	SMOKE	DUST		NO
0003	10.7	.3	7.0	.0	.0	107	.0	29.8	2.0	.0	.0	.0	50.7	610
0609	10.4	.6	7.7	.0	.0	95	.0	30.6	2.7	.0	.0	.0	48.4	519
12015	7.4	.4	8.8	.0	.0	82	.2	26.7	1.0	.0	.0	.2	55.4	498
18021	11.8	.6	9.4	.0	.0	112	.2	36.8	1.0	.0	.0	.0	40.5	519
TOT	217	10	176	0	0	396	2	665	36	1	1046	1	2146	2146
PCT	10.1	.5	8.2	.0	.0	18.5	.1	31.0	1.7	*	48.7	*	100.0	100.0

JULY

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1899-1969

AREA 0009 ADAK  
51-55N 172-180W

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 FRFQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	2.0	1.3	.1	.0	.0	113	3.8	9.8	5.2	2.4	3.6	3.5	3.1	2.6	3.5	3.9
NNE	.3	1.3	.7	*	.0	.0	70	2.3	8.7	2.2	1.0	2.4	3.2	2.8	2.0	2.2	2.1
NE	.6	1.4	1.1	.1	.0	.0	95	3.2	9.9	2.9	2.9	3.1	5.5	2.4	4.6	3.0	2.4
ENE	.5	1.5	.5	.2	.0	.0	79	2.6	8.7	3.9	1.5	2.2	1.9	1.5	3.3	3.2	2.4
E	.8	2.8	1.7	.4	*	.0	171	5.7	10.7	5.5	6.3	6.0	3.9	7.0	6.0	5.7	5.1
ESE	.3	1.5	1.8	.4	*	.0	122	4.1	12.4	4.2	3.9	5.1	4.2	3.5	4.0	3.2	4.2
SE	.6	2.5	2.1	.5	.0	.0	170	5.7	11.0	4.2	5.8	5.6	4.8	6.3	8.6	6.9	5.7
SSE	.5	1.9	2.4	.7	.1	.0	166	5.5	13.2	5.6	3.9	4.2	6.5	6.8	5.3	5.0	6.3
S	.6	3.1	4.2	1.5	.1	.0	287	9.5	14.2	9.1	5.3	11.3	10.3	9.2	10.6	10.7	8.8
SSW	.3	2.1	3.6	1.2	*	.0	217	7.2	15.0	8.8	6.8	7.6	3.2	7.4	6.6	8.4	6.0
SW	.8	4.1	5.7	1.6	.1	.0	367	12.2	13.3	11.2	16.0	10.9	13.9	11.8	13.2	10.7	14.2
WSW	.8	3.2	3.9	1.2	.1	.0	280	9.3	13.3	8.5	13.6	9.8	11.0	9.2	11.9	7.2	7.9
W	.9	5.6	5.5	1.4	.1	.0	405	13.5	12.4	14.4	12.6	12.7	10.0	14.4	6.6	17.1	13.0
WNW	.1	1.6	1.8	.5	.1	.0	124	4.1	13.3	3.6	4.9	5.3	7.4	4.8	4.0	2.2	1.5
NW	.9	2.0	2.2	.3	*	.0	163	5.4	10.7	4.5	10.7	5.8	5.9	4.4	6.6	4.2	7.6
NNW	.3	1.1	1.0	.1	.0	.0	74	2.5	10.9	3.2	1.9	1.8	2.9	2.8	1.3	3.2	.9
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	1131	1186	307	20	0	103	3.4	.0	3.4	.5	2.7	3.9	2.8	.7	3.5	7.9
TOT OBS	362	37.6	39.5	10.2	20	0	3006	100.0	11.9	696	206	450	310	459	151	403	331
TOT PCT	12.0	37.6	39.5	10.2	7	.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	2.3	3.2	.6	*	.0	183	6.1	9.4	7.3	3.4	6.0	6.8	5.9	4.6	5.7	6.0
NE	2.5	2.5	.7	.1	.0	174	5.8	9.4	6.8	4.4	5.3	7.4	3.9	7.9	6.2	4.8
E	2.7	5.1	1.6	.4	.0	293	9.7	11.4	9.6	10.2	11.1	8.1	10.5	9.9	8.9	9.4
SE	3.0	5.7	1.9	.6	.0	336	11.2	12.1	9.8	9.7	9.8	11.3	13.1	13.9	11.9	12.1
S	3.1	7.3	5.2	1.2	.0	504	16.8	14.6	17.8	12.1	18.9	13.5	16.6	17.2	19.1	14.8
SW	4.5	10.6	5.7	.7	*	647	21.5	13.3	19.7	29.6	20.7	24.8	20.9	25.2	17.9	22.1
W	4.0	9.2	3.7	.7	.0	529	17.6	12.6	18.0	17.5	18.0	17.4	19.2	12.6	19.4	14.5
NW	2.6	3.7	1.5	*	.0	237	7.9	10.7	7.6	12.6	7.6	6.8	7.2	7.9	7.4	8.5
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	1419	625	112	2	103	3.4	.0	3.4	.5	2.7	3.9	2.8	.7	3.5	7.9
TOT OBS	848	20.8	20.8	3.7	2	3006	100.0	11.9	696	206	450	310	459	151	403	331
TOT PCT	28.2	47.2	20.8	3.7	.1	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) 1934-1969  
(OVER-ALL) 1899-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)				CALM	MEAN	PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33				
00003	9.0	38.2	38.7	10.3	1.0	11.9	100.0	902
06009	8.3	39.2	38.7	10.0	.7	11.9	100.0	760
12015	7.2	35.4	44.3	10.3	.5	12.7	100.0	610
18021	9.7	37.1	37.2	10.2	.4	11.3	100.0	734
TOT	259	1131	1186	307	20	103	100.0	3006
PCT	8.6	37.6	39.5	10.2	.7	11.9	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	TOTAL OBS	000	150	300	
N	.2	.1	.6	3.3	66	.4	.0	.2	7.4
NNE	.1	.0	.3	1.3	26	.4	.1	.2	7.4
NE	.1	.0	.3	2.5	45	.5	.1	.6	7.5
ENE	.0	.2	.3	2.7	51	.8	.1	.3	7.7
E	.1	.0	.5	5.6	97	1.8	.4	.9	7.8
ESE	.0	.0	.4	4.5	77	1.3	.6	.5	7.9
SE	.0	.0	.9	5.0	93	1.5	.5	1.0	7.8
SSE	.1	.1	1.3	4.3	92	1.6	.4	.7	7.4
S	.1	.3	1.3	9.3	172	4.4	.7	1.6	7.7
SSW	.2	.1	.9	6.6	123	2.5	.4	1.5	7.6
SW	.1	.3	1.7	8.8	171	2.9	.4	1.5	7.6
WSW	.3	.0	1.3	7.0	135	2.3	.2	2.0	7.6
W	.2	.4	1.3	11.4	211	2.5	.3	3.0	7.6
WNW	.2	.2	.8	3.1	68	.6	.4	.6	7.3
NW	.1	.1	.9	3.6	76	.8	.3	1.0	7.5
NNW	.2	.1	.5	2.1	46	.7	.1	.2	7.2
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0
CALM	.1	.1	.3	1.8	35	.7	.0	.4	7.6
TOT OBS	30	28	215	1311	1584	404	37	110	7.6
TOT PCT	1.9	1.8	13.6	82.8	100.0	25.5	2.3	6.9	

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	.4	.0	.0	.2	.6	.2	.6	1.1	.9	.2	.1	.6	66
NNE	.4	.1	.1	.0	.2	.4	.2	.2	.2	.4	.1	.1	26
NE	.5	.1	.1	.1	.6	.1	.6	.6	.6	.1	.0	.3	45
ENE	.8	.0	.0	.1	.3	.1	.3	.6	.9	.1	.0	.4	51
E	1.8	.1	.1	.4	.9	.3	.9	1.5	.8	.3	.0	.3	97
ESE	1.3	.3	.3	.6	.5	.6	.5	1.1	.8	.1	.0	.1	77
SE	1.5	.6	.6	.5	1.0	.2	1.0	1.0	.8	.2	.0	.3	93
SSE	1.6	.1	.1	.4	.7	.1	.7	1.3	.9	.1	.0	.6	92
S	4.4	.3	.3	.7	1.6	.7	2.1	.8	.7	.1	.1	.8	172
SSW	2.5	.3	.3	.4	1.5	.2	1.5	.7	.7	.2	.0	.8	123
SW	2.9	.2	.2	.4	2.0	.3	2.0	1.3	.3	.1	.0	.9	171
WSW	2.3	.1	.1	.4	1.6	.2	1.8	.6	.6	.3	.0	.4	135
W	2.5	.3	.3	.9	3.0	.3	3.1	1.1	.6	.2	.1	1.5	211
WNW	.6	.0	.0	.4	.6	.4	1.0	.8	.3	.3	.0	.6	68
NW	.8	.0	.0	.3	1.0	.3	1.2	.9	.1	.1	.0	.5	76
NNW	.7	.1	.1	.1	.2	.1	.6	.7	.2	.1	.1	.3	46
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.7	.0	.0	.1	.4	.3	.3	.3	.3	.3	.0	.3	35
TOT OBS	404	37	110	264	332	207	59	207	13.1	3.7	.6	147	1584
TOT PCT	25.5	2.3	6.9	16.7	21.0	13.1	3.7	9.3	9.3	5.1	.6	9.3	100.0

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1899-1969

JULY

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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	>1/2	>1/4	>50YD	>0	>10	>5	>2	>1
= OR >6500	.5	.7	.8	.9	.0	.9	.9	.9	.9	.9	.9	.9
= OR >5000	.7	1.2	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.7	4.9	5.2	5.3	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
= OR >2000	9.0	15.7	17.6	18.3	18.4	18.6	18.6	18.6	18.6	18.6	18.6	18.6
= OR >1000	17.5	31.5	36.6	38.7	38.9	39.6	39.6	39.6	39.6	39.6	39.6	39.6
= OR >600	22.5	43.4	51.4	54.3	55.2	56.0	56.2	56.2	56.2	56.2	56.2	56.2
= OR >300	23.3	46.8	56.3	60.1	61.6	62.7	63.1	63.1	63.1	63.1	63.1	63.1
= OR >150	23.4	47.4	57.5	62.0	63.8	65.0	65.4	65.4	65.4	65.4	65.4	65.4
= OR > 0	24.0	50.2	62.4	69.5	75.6	82.7	89.9	90.7	90.7	90.7	90.7	90.7
TOTAL	381	797	59.	1103	1199	1313	1426	1440	1440	1440	1440	1440

TOTAL NUMBER OF OBS: 1587

PCT FREQ NH <5/8: 9.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	1.6	2.7	3.2	1.7	2.3	2.3	7.7	8.8	52.6	17.2
										2025
										OBSCD
										OB

JULY

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1899-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	PCP	.0	*	.1	*	.2	.3	.1	.2	.3	*	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.3	.1	.2	.9	1.0	1.2	1.0	1.7	1.1	2.1	1.1	1.5	.5	.8	.6	.0	.0	.7	.7	.7
	TOTAL	5	7	4	5	23	23	19	27	26	42	25	50	27	34	11	17	12	0	14	348	16.6
1/2<1	PCP	.0	.0	.1	*	.1	.3	.2	.3	.3	.1	.2	.2	.1	.0	.0	.0	.0	.0	.1	.1	.1
	NO PCP	.1	*	.1	.2	.4	.3	.3	.3	.9	.5	.8	1.0	.5	.2	.1	.1	.0	.0	.1	.1	.1
	TOTAL	2	1	5	6	11	7	11	11	12	26	14	21	25	13	5	3	2	0	5	126	6.0
1<2	PCP	.0	.1	*	.1	.4	.3	.4	.1	.3	.4	.2	.1	.4	.2	.0	*	.0	.0	*	.1	.1
	NO PCP	.1	*	.3	.3	.4	.1	.6	.3	.7	.4	1.1	.7	1.2	.3	.5	.2	.0	.0	.2	.2	.2
	TOTAL	2	4	7	9	18	9	20	9	20	16	16	18	18	33	11	10	5	0	5	223	10.6
2<5	PCP	.1	.0	.1	.2	.3	.5	.3	.2	.5	.5	1.0	.4	.5	*	.1	.0	.0	.0	.1	.1	.1
	NO PCP	.3	.1	.3	.2	.5	.6	.4	.4	.9	.8	1.2	.9	1.5	.3	.7	.1	.0	.0	*	.7	.7
	TOTAL	8	2	9	9	18	23	16	13	13	27	27	27	41	7	16	3	0	0	3	296	14.1
5<10	PCP	.1	*	.1	.2	.3	.3	.6	.3	.9	.3	.6	.5	.7	.1	.1	.1	.0	.0	.1	.1	.1
	NO PCP	1.0	.5	.5	.5	1.5	.5	1.1	1.0	1.5	1.5	2.4	2.0	4.0	1.1	.8	.8	.0	.0	.5	.5	.5
	TOTAL	23	11	14	15	37	37	17	35	27	51	39	62	52	27	20	19	0	0	13	560	26.7
10+	PCP	*	*	.0	.0	.0	.0	.0	.1	.1	.2	.1	.2	.2	*	.0	.0	.0	.0	*	.25	.25
	NO PCP	1.6	.5	.9	1.0	1.1	1.0	1.1	1.3	2.1	1.1	1.7	1.4	4.0	1.2	1.6	.8	.0	.0	.7	.7	.7
	TOTAL	34	12	19	13	24	24	21	23	29	46	28	38	35	26	34	16	0	0	16	501	23.9
TOTAL	74	37	58	57	131	131	96	132	116	214	149	243	184	306	87	100	57	0	56	2097	100.0	
PCT	3.5	1.8	2.8	2.7	6.2	6.2	4.6	6.3	5.5	10.2	7.1	11.6	8.8	14.6	4.1	4.8	2.7	.0	2.7	100.0		

JULY

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1899-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
<1/2	0-3	.0	.1	.0	*	*	*	.2	.1	.1	*	.1	.1	.1	*	.1	.1	.0	.5	46	1.6
	4-10	.1	.1	.1	.1	.6	.2	.2	.3	.4	.3	.8	.3	.7	.2	.3	.2	.0		145	5.0
	11-21	.1	*	.1	*	.1	.4	.4	1.0	.5	.6	.6	.5	.5	.3	.1	.2	.0		162	5.5
	22+	.0	.0	.0	.0	.1	.0	.1	.2	*	.2	.2	*	.1	.0	.0	.0	.0		30	1.0
	TOTAL	5	7	4	6	24	19	27	51	31	31	51	29	42	16	17	13	0	15	383	13.1
1/2<1	0-3	.0	.0	.1	*	.0	.0	.0	.0	*	*	*	*	.0	.0	.0	*	.0	.2	14	.5
	4-10	*	.1	.1	.1	.2	.1	.2	.3	.3	.2	.2	.3	.4	.1	.0	.0	.0		70	2.4
	11-21	*	.0	.1	.1	.1	.1	.1	.2	.4	.2	.4	.3	.1	.1	.1	.0	.0		69	2.4
	22+	.0	.0	*	.1	.1	*	*	.1	.2	.1	.2	.2	.0	*	*	.0	.0		34	1.2
	TOTAL	2	2	7	7	12	7	11	28	17	17	23	27	15	6	3	2	0	6	187	6.4
1<2	0-3	.0	.1	.0	.1	*	.1	.1	.0	*	.0	.1	.1	.1	.0	.1	.0	.0	.7	42	1.4
	4-10	.2	.1	.2	.2	.4	.2	.2	.1	.2	.3	.2	.3	.6	.2	*	*	.0		102	3.5
	11-21	.0	*	.0	.1	.1	*	.3	.1	.2	.2	.5	.3	.5	.2	.2	.1	.0		87	3.0
	22+	.0	.0	.1	.0	.1	.1	.1	.1	.2	.1	.1	.1	.1	*	*	*	.0		36	1.2
	TOTAL	6	8	7	10	18	11	22	21	17	17	28	21	39	13	11	5	0	20	267	9.1
2<5	0-3	.1	*	.1	.1	.1	.1	.1	*	.2	*	.1	*	.2	.0	.1	.0	.0	.4	48	1.6
	4-10	.2	.2	.2	.3	.2	.3	.2	.3	.3	.2	.2	.3	.7	.1	.2	.1	.0		125	4.3
	11-21	.2	.1	.1	.1	.4	.6	.3	.4	.6	.6	.8	.5	.6	.1	.4	*	.0		158	5.4
	22+	.0	.0	*	*	.1	.1	.1	.2	.4	.3	.4	.2	.2	.2	*	.0	.0		65	2.2
	TOTAL	15	8	14	13	22	32	19	36	32	32	51	36	51	11	20	3	0	12	396	13.5
5<10	0-3	.1	*	.1	.1	.1	.1	.1	*	.1	*	.3	.2	.2	.1	.4	*	.0	.9	99	3.4
	4-10	.5	.3	.3	.5	.8	.4	.8	1.0	.6	.6	1.6	.9	1.3	.6	.4	.4	.0		319	10.9
	11-21	.5	.1	.3	.1	.7	.2	.4	1.0	1.0	1.0	2.2	1.1	2.2	.4	.9	.4	.0		361	12.3
	22+	*	.0	.0	*	.1	.1	.2	.5	.3	.2	.2	.5	.7	.2	*	*	.0		94	3.2
	TOTAL	33	15	18	23	57	24	45	76	58	58	126	82	129	37	51	24	0	27	873	29.8
10+	0-3	.2	*	.3	.1	.2	.1	*	.1	.2	.2	.1	.3	.4	.0	.2	.1	.0	.8	98	3.4
	4-10	1.0	.4	.6	.3	.6	.4	.8	1.0	.4	.4	.9	.8	1.9	.4	1.0	.5	.0		344	11.8
	11-21	.4	.3	.6	.1	.3	.4	.4	1.2	.6	.8	1.1	1.2	1.5	.8	.6	.2	.0		316	10.8
	22+	*	.0	.0	*	.0	*	.0	.3	.3	.5	.3	.3	.3	.1	.2	*	.0		61	2.1
	TOTAL	50	25	44	19	36	27	55	72	50	50	75	75	120	39	60	20	0	22	819	28.0
	TOTAL	111	65	94	78	169	120	159	284	205	205	354	270	396	122	162	73	0	102	2925	100.0
	PCT	3.8	2.2	3.2	2.7	5.8	4.1	5.4	9.7	7.0	7.0	12.1	9.2	13.5	4.2	5.5	2.5	.0	3.5	100.0	

JULY

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1899-1969

AREA 0009 ADAK  
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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	22.4	1.5	6.9	13.8	17.2	15.5	3.7	1.1	.6	.6	83.4	16.6	464
06009	20.8	3.0	5.8	15.9	21.0	12.1	4.9	.2	.0	.5	84.3	15.7	428
12015	26.8	1.8	6.5	15.4	20.3	13.5	3.1	.0	.0	.5	89.1	10.9	384
18021	27.2	2.5	6.9	17.4	21.3	8.8	2.9	.7	.5	.7	89.0	11.0	408
TOT	407	37	110	266	335	212	62	9	5	10	1453	231	1684
PCT	24.2	2.2	6.5	15.8	19.9	12.6	3.7	.5	.3	.6	86.3	13.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	14.5	7.0	6.8	12.6	24.5	34.6	428
06009	14.6	4.8	6.5	11.1	30.7	32.2	397
12015	15.3	5.9	8.3	13.7	31.1	25.7	373
18021	17.5	7.2	7.2	13.1	28.8	26.2	389
TOT	245	99	114	200	455	474	1587
PCT	15.4	6.2	7.2	12.6	28.7	29.9	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	23.8	33.9	55.6	34.3	10.0	428
06009	22.9	34.8	56.9	34.5	8.6	397
12015	26.8	38.3	63.0	28.2	8.8	373
18021	28.5	41.1	66.1	28.3	5.7	389
TOT	404	586	956	499	132	1587
PCT	25.5	36.9	60.2	31.4	8.3	100.0

JULY

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1809-1969

AREA 0009 ADAK  
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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
65/69	.0	.0	.0	.0	.1	.2	.2	.0	8	.4
60/64	.0	.0	.0	.0	.2	.3	.3	.0	20	1.0
55/59	.0	.0	.0	.2	.1	1.2	2.8	1.2	108	5.4
50/54	.0	.0	.0	.0	.5	1.9	10.4	12.3	496	25.0
45/49	.0	.0	.0	.0	.1	3.5	14.7	39.1	1137	57.4
40/44	.0	.0	.0	.0	.0	.2	1.0	9.4	211	10.6
35/39	.0	.0	.0	.0	.0	.0	.0	.1	2	.1
TOTAL	0	0	0	3	18	151	580	1230	1982	100.0
PCT	.0	.0	.0	.2	.9	7.6	29.3	62.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.1	.0	.0	.1	.2	.1	.1	.0	.0
60/64	.1	.1	.1	.0	.2	.2	.5	.0	.0	.1
55/59	.6	.2	.3	.6	.9	.9	1.1	.3	.0	.6
50/54	1.2	1.3	2.0	2.3	5.5	6.8	2.9	1.5	.0	1.5
45/49	3.8	3.3	6.2	7.6	9.1	11.9	9.3	4.3	.0	1.9
40/44	.6	.5	.6	.9	1.9	2.2	2.4	1.4	.0	.3
35/39	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0
TOTAL	123	107	181	226	349	437	323	150	0	86
PCT	6.2	5.4	9.1	11.4	17.6	22.0	16.3	7.6	.0	4.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	60	57	49	44	42	40	49.2	896
06009	66	62	55	48	44	42	38	48.6	767
12015	63	56	52	46	43	41	39	47.1	619
18021	66	58	54	47	43	41	39	47.6	733
TOT	66	60	55	48	43	41	38	48.2	3015

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
00003	.0	.3	1.4	12.3	38.2	47.8	88	586
06009	.0	.2	.9	7.9	29.9	61.2	91	546
12015	.0	.0	.9	3.7	17.7	77.7	93	328
18021	.0	.0	.6	4.5	25.5	69.5	92	537
TOT	0	3	19	151	582	1242	91	1997

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1899-1969

JULY

AREA 0009 ADAK  
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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	37	41	45	49	53	57	61	TOT	M FOG	WD FOG
17/19	.0	.0	.0	.0	.1	.1	.2	5	.1	.2
14/16	.0	.0	.0	.0	.1	.3	.0	7	.1	.3
11/13	.0	.0	.0	.2	1.4	.4	.0	33	.6	1.4
9/10	.0	.0	.1	1.4	.8	.4	.0	45	1.2	1.4
7/8	.0	.0	1.2	2.5	.6	.1	.0	75	1.5	2.9
6	.0	.0	.9	1.2	.2	.0	.0	40	1.2	1.2
5	.0	.1	1.9	2.6	.7	.0	.0	92	2.2	3.2
4	.0	.4	3.8	3.6	.5	.0	.0	142	3.0	5.3
3	.0	.6	4.1	2.2	.1	.0	.0	118	2.4	4.6
2	.0	.6	10.9	2.4	.2	.0	.0	242	4.6	9.6
1	.0	1.5	5.3	2.2	.1	.0	.0	155	2.7	6.4
0	.2	3.0	14.9	3.2	.1	.0	.0	365	5.3	16.1
-1	.0	1.6	4.4	1.1	.0	.0	.0	121	2.1	5.1
-2	.0	2.3	4.3	.6	.0	.0	.0	122	1.7	5.5
-3	.1	1.4	1.9	.1	.0	.0	.0	57	1.0	2.4
-4	.1	.8	1.2	.0	.0	.0	.0	35	.8	1.3
-5	.1	.6	.6	.1	.0	.0	.0	22	.2	1.1
-6	.0	.1	.2	.1	.0	.0	.0	8	.1	.4
-7/-8	.2	.1	.3	.0	.0	.0	.0	10	.2	.4
-9/-10	.0	.1	.1	.0	.0	.0	.0	4	.0	.2
-11/-13	.0	.2	.0	.0	.0	.0	.0	3	.0	.2
TOTAL	10	227	956	401	84	20	3	1701	525	1176
PCT	.6	13.3	56.2	23.6	4.9	1.2	.2	100.0	30.9	69.1

JULY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18

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

HGT	N					NE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.0	2.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	3
1-2	.2	2.3	2.0	.0	.0	.0	.2	1.1	.7	.0	.0	.0	9
3-4	.0	.7	.9	.0	.0	.0	.0	.5	.7	.0	.0	.0	5
5-6	.0	.0	.2	.0	.0	.0	.0	.0	.5	.0	.0	.0	2
7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.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
TOTAL	1	22	15	0	0	38	1	10	8	1	0	0	20
PCT	.2	5.0	3.4	.0	.0	8.6	.2	2.3	1.8	.2	.0	.0	4.5

HGT	E					SE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.7	1.6	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	2
1-2	.0	.9	1.1	.0	.0	.0	.0	1.4	.7	.0	.0	.0	9
3-4	.0	.7	2.5	.2	.0	.0	.2	.9	1.6	.0	.0	.0	12
5-6	.0	.5	1.1	.7	.2	.0	.0	.0	.7	1.1	.0	.0	8
7	.0	.0	.2	.5	.2	.0	.0	.0	.0	.5	.0	.0	2
8-9	.0	.0	.2	.5	.2	.0	.0	.0	.0	.2	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.2	.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
TOTAL	3	16	23	8	2	52	1	12	14	8	1	0	36
PCT	.7	3.6	5.2	1.8	.5	11.8	.2	2.7	3.2	1.8	.2	.0	8.2

JULY

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18

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

HGT	S										NW										GRAND TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		TOTAL	
<1	.0	1.6	.0	.0	.0	.0	7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.5	2.0	4.8	.0	.0	.0	32	.0	.7	2.3	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0
3-4	.0	.2	3.4	.7	.0	.0	19	.0	1.8	2.7	.5	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0
5-6	.0	.9	2.0	1.6	.0	.0	20	.0	.7	3.2	1.4	.2	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0
7	.0	.0	2.5	1.6	.0	.0	18	.0	.0	1.1	1.6	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	1.4	.2	.0	9	.0	.0	.2	.2	.2	.0	.0	.0	.0	.2	.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	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.2	.2	.0	.0	.0	.0	.0	.2	.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
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
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
26-22	.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
41-48	.0	.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	.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
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
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	2	21	58	24	1	0	106	0	17	43	18	2	0	80	0	17	43	18	2	0	0	80	0
PCT	.5	4.8	13.2	5.5	.2	.0	24.1	.0	3.9	9.6	4.1	.5	.0	18.2	.0	3.9	9.6	4.1	.5	.0	.0	18.2	.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

JULY

AREA 0009 ADAK  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	3.5	10.0	.0	.0	.0	.0	.0	.0	61
1-2	1.3	11.3	15.3	.0	.0	.0	.0	.0	126
3-4	.4	6.2	14.8	1.5	.0	.0	.0	.0	104
5-6	.0	2.9	10.8	5.1	.2	.0	.0	.0	86
7	.0	.0	4.4	4.2	.4	.0	.0	.0	41
8-9	.0	.0	1.3	3.1	.7	.0	.0	.0	23
10-11	.0	.0	.4	.4	.2	.0	.0	.0	5
12	.0	.0	.0	.7	.0	.0	.0	.0	3
13-16	.0	.0	.2	.4	.0	.0	.0	.0	3
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
TOTAL	24	137	214	70	7	0	0	0	452
PCT	5.3	30.3	47.3	15.5	1.5	0	0	0	100.0

TABLE 19

PERIOD (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	2.0	11.4	14.3	8.6	2.2	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	217
6-7	.0	.9	5.7	8.3	3.7	2.6	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121
8-9	.0	.9	3.7	5.0	3.1	2.8	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92
10-11	.0	.0	.2	.7	.6	2.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
12-13	.0	.0	.0	.0	.2	.0	.0	.0	.4	.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
INDET	15.8	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87
TOTAL	97	72	130	124	53	47	11	4	7	0	0	0	0	0	0	0	0	0	0	0	545
PCT	17.8	13.2	23.9	22.8	9.7	8.6	2.0	.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

AUGUST

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1900-1969

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51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	NO SIG WEA	HAZE	BLWG	
N	.2	.0	.2	.0	.0	.0	.0	.4	9	.0	.5	*	.0	2.6	75		
NNE	.2	.0	.2	.0	.0	.0	.0	.4	8	.0	.3	.0	.0	1.5	46		
NE	.9	.0	.2	.0	.0	.0	.0	1.1	23	.0	.3	*	.0	1.4	60		
ENE	.7	.0	.3	.0	.0	.0	.0	1.0	21	.0	.3	*	.0	1.3	54		
E	.9	.0	.3	.0	.0	.0	.0	1.2	25	.0	.9	*	.0	1.8	82		
ESE	.5	*	.2	.0	.0	.0	.0	.7	15	.0	1.1	.2	.0	1.5	74		
SE	1.3	*	.6	.0	.0	.0	.0	1.8	38	.0	1.3	.0	.0	2.0	107		
SSE	.9	.0	.5	.0	.0	.0	.0	1.3	27	.0	1.7	.0	.0	1.5	98		
S	1.6	*	.9	.0	.0	.0	.0	2.2	46	.0	4.9	.3	.0	4.0	235		
SSW	1.1	.1	1.3	.0	.0	.0	.0	2.4	49	.0	3.2	.1	.0	3.4	188		
SW	1.1	.1	.8	.0	.0	.0	.0	1.9	39	.0	3.2	.5	.0	4.7	213		
WSW	.6	.2	.9	.0	.0	.0	.0	1.7	35	*	3.2	.3	.0	5.6	227		
W	.2	.1	1.0	.0	.0	.0	.1	1.4	28	.0	2.6	.3	.0	10.8	312		
WNW	.2	.0	.3	.0	.0	.0	.0	.5	10	.0	.7	*	.0	3.7	101		
NW	.1	.1	.1	.0	.0	.0	.0	.3	6	.0	.8	.1	.0	2.8	82		
NNW	.1	.1	*	.0	.0	.0	.0	.3	6	.0	.9	*	.0	1.7	60		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0		
CALM	.1	.0	*	.0	.0	.0	.0	.1	3	.0	.9	*	.0	1.4	52		
TOT OBS	221	18	167	0	0	0	2	18.8	388	1	557	53	0	1067	2066		
TOT PCT	10.7	.9	8.1	.0	.0	.0	.1			*	27.0	2.6	.0	51.6	100.0		

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA						TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	NO SIG WEA	HAZE	BLWG	
0603	10.4	1.5	7.2	.0	.0	.0	.2	17.7	105	.0	28.1	2.5	.0	51.7	594		
0609	12.4	.2	7.1	.0	.0	.0	.0	19.1	99	.0	30.3	3.3	.0	47.3	518		
12015	6.9	.4	7.3	.0	.0	.0	.0	14.4	65	.2	19.3	1.3	.0	64.7	450		
18021	12.1	1.1	10.2	.0	.0	.0	.2	22.6	119	.0	29.0	3.0	.0	45.4	527		
TOT	221	18	167	0	0	0	2		388	1	564	54	0	1082	2089		
PCT	10.6	.9	8.0	.0	.0	.0	.1	18.6		*	27.0	2.6	.0	51.8	100.0		

AUGUST

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1900-1969

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD			
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18
N	.7	1.8	1.0	.3	.0	.0	108	3.7	9.8	3.2	3.3	3.7	3.9	4.3	2.9	6.4
NNE	.3	.8	.7	.2	*	.0	58	2.0	11.6	1.7	1.6	2.1	2.4	1.9	3.1	.9
NE	.7	1.3	1.0	.4	.1	.0	100	3.5	10.6	3.2	2.2	2.8	5.8	3.4	1.7	5.5
ENE	.3	.8	1.1	.2	.0	.0	71	2.5	12.4	2.6	1.6	3.9	2.4	2.6	1.7	1.2
E	.3	1.6	1.2	.4	.0	.0	105	3.6	11.8	2.9	2.7	2.3	3.6	4.8	3.6	5.2
ESE	.2	1.2	1.3	.3	*	.0	86	3.0	12.8	3.8	2.2	3.5	1.5	2.2	3.1	2.5
SE	.3	1.8	1.9	.6	.1	.0	139	4.8	12.9	3.9	6.0	4.1	4.5	6.5	5.5	4.9
SSE	.1	1.9	1.7	.3	.2	.0	119	4.1	13.3	4.1	4.4	5.3	3.3	5.3	3.8	3.1
S	.8	4.0	4.1	1.7	.1	*	304	10.5	13.5	11.5	12.1	8.5	11.8	8.4	11.7	10.4
SSW	.2	2.8	4.1	1.6	.1	.0	257	8.9	14.7	8.6	11.5	8.3	9.8	7.9	9.3	8.6
SW	.8	4.6	5.2	1.2	.1	*	347	12.0	12.8	11.2	13.7	9.9	14.2	11.5	11.7	16.0
WSW	.7	3.7	5.4	1.6	*	*	329	11.4	13.9	12.7	11.0	11.3	12.4	10.3	14.8	10.2
W	1.0	5.0	6.7	1.6	*	.0	415	14.4	13.1	14.8	11.5	18.4	10.3	14.4	17.1	11.7
WNW	.2	1.6	2.6	.4	.0	.0	139	4.8	13.3	4.2	3.8	3.9	3.6	7.5	4.3	5.5
NW	.6	1.9	1.6	.6	.0	.0	135	4.7	11.3	5.6	5.5	3.7	6.1	3.1	6.0	3.1
MNW	.2	1.5	1.2	.3	.0	.0	93	3.2	11.8	3.2	4.9	4.1	1.5	2.4	3.8	2.1
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	1049	1174	337	21	3	78	2.7	.0	2.7	1.6	4.1	3.6	3.4	.7	3.1
TOT OBS	299	36.4	40.7	11.7	21	3	2883	100.0	12.6	660	182	434	330	416	115	420
TOT PCT	10.4	36.4	40.7	11.7	21	3	2883	100.0	12.6	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			
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21
N	2.2	2.5	.9	.1	.0	166	5.8	10.4	4.8	4.9	5.8	6.4	6.3	3.5	6.0	7.4
NE	2.0	2.5	1.1	.3	.0	171	5.9	11.4	5.8	3.8	6.7	8.2	6.0	7.8	3.3	6.7
E	1.5	3.5	1.5	.1	*	191	6.6	12.3	6.7	4.9	5.8	5.2	7.0	12.2	6.7	7.7
SE	1.9	4.5	2.0	.5	.1	258	8.9	13.1	8.0	10.4	9.4	7.9	11.8	4.3	9.3	8.0
S	3.6	9.4	5.3	1.1	.1	561	19.5	14.0	20.2	23.6	16.8	20.6	16.3	22.6	21.0	19.0
SW	4.6	11.7	6.3	.7	.1	676	23.4	13.3	23.9	24.7	21.2	26.7	21.9	22.6	21.9	25.8
W	3.9	9.4	5.5	.4	.0	554	19.2	13.2	19.1	15.4	22.4	13.9	21.9	17.4	21.4	17.2
NW	2.3	3.8	1.6	.2	.0	228	7.9	11.5	8.8	10.4	7.8	7.6	5.5	9.6	9.8	5.2
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7	1365	694	100	8	78	2.7	.0	2.7	1.6	4.1	3.6	3.4	.0	.7	3.1
TOT OBS	716	47.3	24.1	3.5	8	2883	100.0	12.6	660	182	434	330	416	115	420	326
TOT PCT	24.8	47.3	24.1	3.5	8	2883	100.0	12.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1934-1969  
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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+	CALM	MEAN		
0000	7.7	34.6	42.0	12.1	1.0	.1	2.5	12.8	100.0	842
0600	8.1	38.0	38.7	10.5	.7	.1	3.9	12.1	100.0	764
1200	5.1	33.5	43.7	14.3	.6	.2	2.6	13.4	100.0	531
1800	9.0	38.9	39.1	10.6	.7	.0	1.7	12.1	100.0	746
TOT	221	1049	1174	337	21	3	78	12.6		2883
PCT	7.7	36.4	40.7	11.7	.7	.1	2.7		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	8-6	8-6	OBSCD	8-6	OBSCD		
N	.2	.1	1.3	1.8	53	6.9	6.9	6.9	53	
NNE	.1	.1	.6	1.3	33	6.9	6.9	6.9	33	
NE	.2	.1	.5	2.2	47	7.2	7.6	7.6	47	
ENE	.1	.0	.4	2.0	39	7.6	7.8	7.8	39	
E	.0	.1	.4	3.4	61	7.8	7.5	7.5	61	
ESE	.1	.1	.5	2.5	49	7.5	7.8	7.8	49	
SE	.1	.0	.5	4.4	78	7.8	7.8	7.8	78	
SSE	.0	.1	.3	4.5	77	7.8	7.8	7.8	77	
S	.1	.3	1.5	9.4	177	7.6	7.6	7.6	177	
SSW	.2	.1	1.5	6.9	135	7.5	7.5	7.5	135	
SW	.1	.1	1.9	7.8	153	7.7	7.7	7.7	153	
WSW	.6	.4	1.0	8.6	167	7.2	7.2	7.2	167	
W	.6	1.0	3.3	11.5	254	7.2	7.2	7.2	254	
WNW	.6	.1	.8	4.2	90	7.1	7.1	7.1	90	
NW	.3	.3	.9	2.5	61	6.9	6.9	6.9	61	
NNW	.2	.1	1.3	1.1	43	6.6	6.6	6.6	43	
VAR	.0	.0	.0	.0	0	.0	.0	.0	0	
CALM	.1	.2	.3	2.0	39	7.3	7.3	7.3	39	
TOT OBS	53	48	267	1188	1556	7.4	7.4	7.4	1556	
TOT PCT	3.4	3.1	17.2	76.3	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)												TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS			
	000	149	150	299	300	599	600	999	6000	5000	6499	7999						
N	.1	.1	.1	.2	.6	.8	.6	.6	.1	.1	.1	.1	.1	.1	.8	53	.8	53
NNE	.1	.1	.1	.1	.4	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.5	.5	33
NE	.2	.1	.1	.2	.6	1.1	.6	.6	.0	.0	.0	.0	.0	.0	.0	.4	.4	47
ENE	.3	.1	.1	.4	.3	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.3	.3	39
E	.9	.1	.1	.2	.4	1.2	.4	.4	.0	.0	.0	.0	.0	.0	.1	.4	.4	61
ESE	.9	.1	.1	.4	.5	.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	.4	.4	49
SE	1.7	.1	.1	.7	.6	1.1	.6	.6	.1	.0	.0	.0	.0	.0	.0	.3	.3	78
SSE	2.1	.3	.3	.4	.6	1.1	.6	.6	.1	.0	.0	.0	.0	.0	.0	.3	.3	77
S	4.3	.3	.3	1.2	1.1	2.0	1.1	1.1	.0	.1	.0	.0	.0	.0	.3	1.0	.3	177
SSW	2.5	.2	.2	.6	1.3	2.2	1.3	1.3	.1	.0	.0	.0	.0	.0	.1	.6	.1	135
SW	2.5	.2	.2	.8	2.2	1.9	2.2	2.2	.1	.1	.0	.0	.0	.0	.1	.5	.1	153
WSW	2.8	.4	.4	.6	1.4	2.5	1.4	1.4	.3	.1	.0	.0	.0	.0	.1	1.3	.1	167
W	2.8	.3	.3	.4	3.1	3.6	3.1	3.2	.2	.2	.0	.0	.0	.0	2.5	2.5	.8	254
WNW	.8	.1	.1	.3	1.2	2.2	1.2	2.2	.5	.0	.0	.0	.0	.0	.8	.8	.0	90
NW	.7	.0	.0	.0	.5	1.2	.5	1.2	.3	.0	.0	.0	.0	.0	1.0	1.0	.0	61
NNW	.2	.0	.0	.1	.5	.8	.5	.8	.4	.1	.0	.0	.0	.0	.6	.6	.0	43
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.9	.0	.0	.1	.3	.4	.3	.3	.1	.1	.0	.0	.0	.0	.3	.3	.0	39
TOT OBS	368	34	106	243	243	377	243	377	185	31	9	7	11	185	1556		1556	
TOT PCT	23.7	2.2	6.8	15.6	15.6	24.2	15.6	24.2	11.9	2.0	.6	.4	.7	11.9	100.0		100.0	

PERIOD: (PRIMARY) 1934-1969  
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TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.9	1.0	1.1	1.1	1.1	1.2	1.2
= OR >5000	1.0	1.5	1.6	1.7	1.7	1.7	1.7	1.7
= OR >3500	2.5	3.4	3.6	3.7	3.7	3.7	3.7	3.7
= OR >2000	9.4	14.0	15.1	15.4	15.4	15.6	15.6	15.6
= OR >1000	21.0	34.3	37.7	39.1	39.4	39.7	39.9	39.9
= OR >800	26.4	45.0	51.4	54.1	54.9	55.3	55.6	55.6
= OR >300	27.5	48.6	56.0	59.9	61.0	62.0	62.4	62.4
= OR >150	27.7	49.7	57.4	61.7	63.0	64.1	64.6	64.6
= OR > 0	28.4	52.2	61.6	67.8	72.6	78.8	87.4	88.0
TOTAL	441	812	958	1055	1129	1225	1359	1369

TOTAL NUMBER OF OBS: 1555

PCT FREQ NH <5/8: 12.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)								TOTAL	
0	1	2	3	4	5	6	7	8	OBS
2.1	2.3	3.4	2.5	2.1	2.7	8.2	11.3	48.6	16.8
									1845

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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)	PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY																CALM	TOTAL	PCT		
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSH	SW	WSW	W	WNW	NW	NNW				VAR	
PCP	.1	*	*	.0	.0	.1	.2	.3	.5	.1	.1	.2	*	.1	*	.0	.0	.0	.0	.47	2.3
NO PCP	.2	.3	.1	*	.3	.5	1.1	2.8	1.8	1.2	.8	1.6	1.0	.4	.4	.1	.0	.0	.8	276	13.5
TOTAL	8	7	3	1	7	13	19	27	47	27	19	34	26	11	9	3	0	16	323	15.7	
PCP	.0	.0	*	.1	.1	.4	.1	.1	.5	.2	.4	.2	*	.0	.0	.1	.0	.0	.0	.44	2.1
NO PCP	*	*	.1	*	.1	.1	.4	.9	.3	.7	.6	.7	.7	.1	.2	.2	.0	.1	.1	101	4.9
TOTAL	1	1	4	4	5	5	11	10	17	19	17	15	15	2	4	7	0	2	145	7.1	
PCP	.1	.0	.4	.2	.4	.1	.2	.4	.3	.5	.2	.2	.3	*	*	.0	.0	*	.72	3.5	
NO PCP	.1	.0	*	.1	*	.2	.1	.6	1.0	.9	.6	.8	.8	.2	.1	.1	.0	.1	.105	5.1	
TOTAL	5	0	9	7	9	3	8	20	27	28	18	22	22	6	4	2	0	3	177	8.6	
PCP	.0	.2	.4	.2	.3	.1	.3	.4	.4	.5	.4	.4	.5	.1	*	.0	.0	.0	.92	4.5	
NO PCP	.1	.1	.1	.1	.4	.3	.4	.9	.8	1.2	1.0	1.3	.2	.2	.2	.2	.0	*	.163	7.9	
TOTAL	3	6	11	8	14	9	15	28	25	34	30	36	6	5	5	0	1	1	255	12.4	
PCP	.1	*	.1	.2	.4	.2	.4	.6	.5	.4	.4	.4	.1	.2	.1	*	.0	.1	.93	4.5	
NO PCP	.8	.7	.2	.4	.9	.7	.7	2.0	1.4	2.0	2.8	4.9	4.9	1.1	.8	.7	.0	.6	445	21.7	
TOTAL	19	15	8	13	27	20	22	54	39	49	66	103	27	18	16	0	14	14	538	26.2	
PCP	.0	*	.1	.1	*	.2	.1	.1	.1	.2	.2	.1	.1	.0	*	.1	.0	.0	.36	1.8	
NO PCP	1.9	.7	1.1	.9	.9	1.1	.6	2.0	1.3	2.5	2.6	5.2	5.2	2.4	2.0	1.2	.0	.8	577	28.1	
TOTAL	39	16	25	21	19	23	15	44	30	56	58	110	49	42	27	0	16	16	613	29.9	
TOTAL	75	45	60	54	81	73	106	97	185	213	223	312	101	82	60	0	52	2051	100.0		
PCT	3.7	2.2	2.9	2.6	3.9	3.6	5.2	4.7	11.3	9.0	10.4	15.2	4.9	4.0	2.9	.0	2.5	100.0			

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TABLE 9

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

VSBY (NM)	SPD KTS	WIND DIRECTION																CALM TOTAL	PCT	
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			VAR
<1/2	0-3	.1	.1	*	*	*	.1	*	.1	.1	.1	.1	.1	*	.1	.3	.0	.6	48	1.7
	4-10	.1	.2	.1	.0	.2	.4	1.0	.6	.6	.4	.6	.5	.3	.1	.3	.1	.0	143	5.1
	11-21	.1	.0	.0	.0	.1	.2	.8	.7	.5	.5	.3	.3	.3	.2	.0	.0	.0	106	3.8
	22+	.0	.0	.0	.0	.2	.2	.4	.4	*	*	.0	.0	.0	*	*	.0	.0	38	1.4
	TOTAL	8	7	3	1	8	21	66	49	29	35	26	26	11	10	4	0	16	335	12.0
1/2<1	0-3	.0	.0	*	.0	.0	*	*	*	.1	.1	.1	.1	*	.0	*	.0	.1	16	.6
	4-10	*	.0	.1	.1	.2	.1	.4	.1	.3	.3	.3	.3	.1	.0	*	.0	.0	53	1.9
	11-21	.0	.0	.0	.1	.0	.1	.3	.3	.4	.3	.3	.3	.3	*	.1	.1	.0	61	2.2
	22+	.0	*	*	.0	*	.1	.3	.1	*	*	*	*	*	.0	.1	.0	.0	30	1.1
	TOTAL	1	1	4	4	7	11	24	19	22	18	16	16	2	6	7	0	3	160	5.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	*	.0	.0	.0	.3	12	.4
	4-10	.0	.0	.1	.2	.1	.1	.1	.1	.3	.4	.3	.4	.4	.1	*	*	.0	58	2.1
	11-21	.1	.0	.1	.2	.1	.1	.3	.5	.3	.4	.4	.4	.4	.1	.1	.0	.0	82	2.9
	22+	.1	.0	.1	*	*	.0	*	.3	.1	.1	.2	.2	.2	*	*	.0	.0	44	1.6
	TOTAL	5	0	9	7	9	6	25	29	28	22	24	24	7	5	2	0	7	196	7.0
2<5	0-3	.1	.0	.3	.1	.0	.0	.1	.1	.2	.1	.1	.1	*	.0	.0	.0	.2	39	1.4
	4-10	.0	*	*	.1	.3	.4	.3	.3	.4	.3	.4	.4	.2	.0	.1	.0	.0	80	2.9
	11-21	*	.1	.2	.1	.1	.3	.6	.6	.7	.7	.7	.7	.1	.1	.1	.0	.0	132	4.7
	22+	.0	.1	.2	.1	.2	.1	.2	.3	.3	.3	.3	.3	.1	.1	*	.0	.0	74	2.6
	TOTAL	5	6	19	10	16	22	31	31	46	38	42	42	12	6	8	0	6	325	11.6
5<10	0-3	.1	.1	.2	.1	.2	*	*	*	.3	.3	.3	.3	*	.1	*	.0	.6	68	2.4
	4-10	.5	.1	.2	.3	.3	.7	.8	.7	1.3	.8	1.6	1.6	.4	.5	.4	.0	.0	267	9.5
	11-21	.3	.4	*	.2	.6	.3	1.4	1.0	2.0	2.1	2.4	2.4	.8	.7	.5	.0	.0	386	13.8
	22+	.2	.1	.1	.1	.2	.2	.3	.4	.4	.6	.7	.7	.1	.1	*	.0	.0	101	3.6
	TOTAL	31	19	14	18	37	42	78	60	106	106	140	140	37	37	25	0	18	822	29.4
10+	0-3	.4	.1	.1	.1	.0	.2	.1	.1	.4	.2	.4	.4	.1	.4	.1	.0	1.0	104	3.7
	4-10	1.1	.5	.8	.4	.6	.4	1.3	.8	1.9	1.5	2.3	2.3	.8	1.1	.8	.0	.0	420	15.0
	11-21	.5	.3	.7	.4	.3	.4	1.0	1.0	1.4	1.4	2.7	2.7	1.4	.7	.5	.0	.0	371	13.3
	22+	.1	.0	*	*	*	*	.1	.1	.3	.6	.5	.5	.2	.2	.1	.0	.0	67	2.4
	TOTAL	57	24	46	25	26	32	69	54	110	101	164	164	69	65	42	0	27	962	34.4
	TOTAL	107	57	95	65	103	134	295	242	341	320	412	412	138	129	88	0	77	2800	100.0
	PCT	3.8	2.0	3.4	2.3	3.7	4.8	10.5	8.6	12.2	11.4	14.7	14.7	4.9	4.6	3.1	.0	2.8	100.0	

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TABLE 10

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

HOUR (GMT)	PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8), AND OCCURRENCE OF NH < 5/8 BY HOUR										TOTAL OBS	NH < 5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
00003	21.3	2.3	6.2	12.6	22.5	11.6	2.7	.4	.8	1.0	81.4	18.6	484
06009	21.9	2.3	6.4	15.5	23.7	12.4	1.8	.5	.3	.0	84.8	15.2	388
12015	25.5	.6	6.0	13.8	25.8	10.5	1.8	.9	.3	.6	85.9	14.1	333
18021	24.1	3.0	7.7	19.4	22.9	11.7	1.2	.5	.2	1.0	91.8	8.2	402
TOT	370	34	106	245	379	186	31	9	7	11	1378	229	1607
PCT	23.0	2.1	6.6	15.2	23.6	11.6	1.9	.6	.4	.7	85.7	14.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	10+	10+	10+	10+	
00003	15.9	4.3	5.9	7.0	25.2	41.7	460				460
06009	15.4	3.8	6.2	9.2	27.8	37.6	370				370
12015	13.6	6.1	7.0	12.7	24.8	35.8	330				330
18021	17.5	5.3	6.8	11.4	26.8	32.2	395				395
TOT	244	75	100	153	407	576	1555				1555
PCT	15.7	4.8	6.4	9.8	26.2	37.0	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)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH > 4/8), BY HOUR				TOTAL OBS
	<150 <50YD	<600 <1	<1000 <5 AND 5+	1000+ NH < 5/8 AND 5+	
00003	22.2	33.5	49.8	36.5	460
06009	23.5	33.0	54.1	34.9	370
12015	24.8	32.7	54.2	32.7	330
18021	24.6	37.7	61.5	32.4	395
TOT	368	533	851	533	1555
PCT	23.7	34.3	54.7	34.3	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 DBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	* .0	.1	.1	6	.3
60/64	.0	.0	.0	.0	.2	.1	.5	.5	29	1.4
55/59	.0	.0	* .1	.1	.2	1.1	3.2	4.1	188	8.8
50/54	.0	.0	.0	.0	.4	1.6	13.9	25.5	886	41.4
45/49	.0	.0	.0	.0	* .0	1.9	12.3	32.6	1002	46.9
40/44	.0	.0	.0	.0	.0	.0	.1	1.1	27	1.3
TOTAL	.0	.0	1	3	19	103	644	1368	2138	100.0
PCT	.0	.0	* .1	.9	4.8	30.1	64.0			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/69	.0	.0	.0	.0	.2	*	.0	.0	.0	*
60/64	.1	.0	*	.2	.2	.2	.2	.3	.0	.1
55/59	.2	.4	.3	.7	2.1	2.2	2.0	.3	.0	.6
50/54	1.9	1.8	2.2	4.5	9.1	11.2	6.8	2.5	.0	1.4
45/49	3.6	3.8	3.2	3.6	7.2	10.0	10.0	4.7	.0	.9
40/44	.1	.2	.2	.0	.1	.2	.2	.1	.0	.0
TOTAL	129	133	128	193	401	510	409	169	0	66
PCT	6.0	6.2	6.0	9.0	18.8	23.9	19.1	7.9	.0	3.1

TABLE 15

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

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	66	61	57	51	46	45	41	51.1	846
06009	67	62	57	50	46	44	41	50.6	764
12015	59	55	54	48	45	44	41	48.8	537
18021	66	58	55	49	45	44	40	49.5	747
TOT	67	60	56	50	45	44	40	50.1	2894

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	.3	1.6	5.7	36.3	56.1	90	628
06009	.0	.2	1.0	4.8	32.0	62.1	91	609
12015	.0	.0	.3	5.3	23.5	70.8	93	319
18021	.0	.2	.5	3.5	25.4	70.4	92	594
TOT	0	4	20	103	649	1374	92	2150

PERIOD: (PRIMARY) 1934-1969  
(OVER-ALL) 1900-1969

AUGUST

AREA 0009 ADAK  
51-55N 172-180W

TABLE 17

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

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	TOT	W FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	2	.0	.1
14/16	.0	.0	.0	.0	.2	.1	.1	.0	6	.1	.2
11/13	.0	.0	.0	.1	.5	.3	.1	.1	19	.3	.8
9/10	.0	.0	.0	.8	1.2	.3	.0	.0	41	.7	1.6
7/8	.0	.0	.2	3.8	1.1	.3	.0	.0	96	2.0	3.4
6	.0	.0	1.3	1.9	.6	.3	.0	.0	73	1.6	2.5
5	.0	.0	2.4	2.8	1.6	.3	.0	.0	126	2.5	4.6
4	.0	.1	2.4	3.7	2.0	.3	.0	.0	150	2.8	5.6
3	.0	.0	2.9	2.9	1.2	.1	.0	.0	125	2.1	4.9
2	.0	.2	4.2	5.6	2.3	.1	.0	.0	219	3.1	9.2
1	.0	.1	4.9	3.9	.7	.1	.0	.0	171	2.4	7.3
0	.0	.5	8.6	7.2	1.1	.0	.0	.0	307	3.7	13.6
-1	.0	.3	4.3	3.4	.2	.0	.0	.0	147	1.2	7.0
-2	.1	.0	3.6	1.9	.2	.0	.0	.0	102	1.4	4.4
-3	.0	.2	3.0	1.3	.1	.0	.0	.0	81	1.0	3.6
-4	.0	.3	1.9	.7	.1	.0	.0	.0	52	.6	2.3
-5	.0	.3	1.1	.5	.1	.0	.0	.0	34	.6	1.4
-6	.0	.1	.4	.2	.0	.0	.0	.0	13	.3	.5
-7/-8	.0	.0	.2	.1	.0	.0	.0	.0	5	.0	.3
-9/-10	.0	.0	.3	.0	.0	.0	.0	.0	5	.1	.2
TOTAL	1	34	738	722	234	40	4	1	1774	469	1305
PCT	.1	1.9	41.6	40.7	13.2	2.3	.2	.1	100.0	26.4	73.6

PERIOD: (PRIMARY) AUGUST AREA 0009 ADAK  
(OVER-ALL) 1963-1969 51-55N 172-180W

TABLE 18

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.0	.7	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	1	
1-2	.2	2.3	.9	.0	.0	.0	19	.2	1.0	.0	.0	.0	.0	9	
3-4	.2	.9	.9	.0	.0	.0	11	.0	.5	2.3	.3	.0	.0	18	
5-6	.0	.7	1.0	.3	.0	.0	12	.0	.2	1.0	1.0	.0	.0	13	
7	.0	.2	.0	.2	.0	.0	2	.0	.2	.7	.5	.2	.0	9	
8-9	.0	.0	.3	.2	.0	.0	3	.0	.3	.5	.0	.0	.0	3	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.2	.0	.0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	2	27	19	4	0	0	52	1	12	28	12	1	0	54	
PCT	.3	4.7	3.3	.7	.0	.0	9.1	.2	2.1	4.9	2.1	.2	.0	9.4	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.2	.3	.0	.0	.0	.0	3	.2	.3	.0	.0	.0	.0	3	
1-2	.2	1.4	1.4	.0	.0	.0	17	.0	1.0	1.2	.0	.0	.0	13	
3-4	.0	.7	1.7	.5	.0	.0	17	.0	.7	1.6	.3	.0	.0	15	
5-6	.0	.5	.3	.2	.0	.0	6	.0	.2	1.6	.0	.0	.0	10	
7	.0	.2	.0	.0	.0	.0	1	.0	.0	.7	.2	.0	.0	5	
8-9	.0	.0	.5	.0	.0	.0	3	.0	.0	.5	.0	.0	.0	3	
10-11	.0	.0	.0	.2	.0	.0	1	.0	.0	.2	.0	.0	.0	1	
12	.0	.0	.2	.2	.0	.0	2	.0	.0	.0	.0	.2	.0	1	
13-16	.0	.0	.0	.2	.0	.0	1	.0	.0	.0	.2	.0	.0	1	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	2	18	24	7	0	0	51	1	13	33	4	1	0	52	
PCT	.3	3.1	4.2	1.2	.0	.0	8.9	.2	2.3	5.7	.7	.2	.0	9.1	

PERIOD: (PRIMARY) AUGUST AREA 0009 ADAK 172-180W  
(OVER-ALL) 1963-1969 TABLE 18 51-55N

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

HGT	S										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.0	.7	.0	.0	.0	.0	.9	.3	.0	.0	.0	.0	.0	.7
1-2	.0	3.1	2.6	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0
3-4	.0	.5	2.4	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0
5-6	.0	.2	2.4	.9	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	1.4	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	0	26	51	22	4	1	5	24	48	17	0	0	96	
PCT	.0	4.5	8.9	3.8	.7	.2	.9	4.2	8.4	3.0	.0	.0	16.7	

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

HGT	W										TOTAL	48+	TOTAL	
	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	.2	.6	.0	.0	.0	.0	.0	.0
1-2	.2	4.4	2.4	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0
3-4	.2	1.0	3.7	.2	.0	.0	.2	.3	.0	.0	.0	.0	.0	.0
5-6	.0	1.0	3.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.2	1.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	2	43	74	14	0	0	2	12	14	0	0	0	32	574
PCT	.3	7.5	12.9	2.4	.0	.0	.3	2.1	2.4	.0	.0	.0	5.6	100.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AUGUST

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	3.1	3.4	.0	.0	.0	.0	.0	.0	.0	.0	38
1-2	.9	16.5	10.2	.0	.0	.0	.0	.0	.0	.0	162
3-4	.5	5.6	16.5	2.2	.0	.0	.0	.0	.0	.0	146
5-6	.0	3.4	12.3	3.6	.0	.0	.0	.0	.0	.0	113
7	.2	.9	6.3	2.9	.3	.0	.0	.0	.0	.0	62
8-9	.0	.2	2.6	2.6	.0	.2	.0	.0	.0	.0	32
10-11	.0	.0	1.2	1.4	.0	.0	.0	.0	.0	.0	15
12	.0	.3	1.2	1.2	.5	.3	.0	.0	.0	.0	14
13-16	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	4
17-19	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1
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
TOTAL	27	176	291	84	6	3	587				587
PCT	4.6	30.0	49.6	14.3	1.0	.5	100.0				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	3-4	5-6	7	8-9	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	1.5	10.5	14.2	7.7	2.5	1.1	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	248	3
6-7	.0	1.7	5.5	10.3	5.7	3.8	1.1	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	196	5
8-9	.0	.0	2.9	3.4	4.2	3.4	1.5	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	6
10-11	.0	.2	.9	1.1	2.0	1.7	.3	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	7
12-13	.0	.0	.0	.0	.0	.2	.2	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	11
>13	.0	.2	.0	.3	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
INDET	5.2	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	0
TOTAL	44	83	153	148	96	66	22	26	11	1	0	0	0	0	0	0	0	0	0	0	0	650	0
PCT	6.8	12.8	23.5	22.8	14.8	10.2	3.4	4.0	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

SEPTEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

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	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FG WD	SMOKE	HAZE	DUST	
N	.8	0	.5	.0	.0	.0	.0	1.3	18	.0	.2	.1	.0	3.8	74
NNE	.5	.2	.1	.0	.0	.0	.0	.8	11	.0	.2	.0	.0	1.5	35
NE	.4	.0	.7	.0	.0	.0	.0	1.0	14	.0	.4	.1	.0	3.5	69
ENE	.7	.0	.1	.0	.0	.0	.0	.9	12	.0	.3	.0	.0	1.5	37
E	1.0	.0	.7	.0	.0	.0	.0	1.5	21	.0	.8	.3	.0	2.4	68
ESE	.4	.0	.3	.0	.0	.0	.0	.7	10	.0	.7	.0	.0	1.8	43
SSE	.9	.1	1.0	.0	.0	.0	.0	2.0	27	.0	.6	.0	.0	2.1	64
S	1.5	.0	.7	.0	.0	.0	.0	2.3	31	.0	.6	.0	.0	2.2	69
SSW	1.3	.0	.9	.0	.0	.0	.0	2.0	27	.0	1.2	.1	.0	3.8	96
SW	.7	.0	.7	.0	.0	.0	.0	1.3	18	.0	1.1	.0	.0	2.8	71
SSW	1.1	.1	1.4	.0	.0	.0	.0	2.5	34	.0	.8	.0	.0	4.9	112
WSW	.1	.1	.6	.0	.0	.0	.0	.8	11	.0	1.0	.1	.0	5.8	105
W	1.0	.3	.7	.0	.0	.0	.0	1.8	25	.1	.9	.1	.0	11.0	189
WNW	.4	.2	.2	.0	.0	.0	.0	.9	12	.0	.5	.0	.0	6.1	102
NW	.2	.1	.4	.0	.0	.0	.0	.7	10	.0	.1	.1	.0	7.1	111
NNW	.4	.1	.4	.0	.0	.0	.0	1.0	13	.0	.1	.0	.0	4.4	74
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.1	.1	.1	.0	.0	.0	.0	.3	4	.0	.6	.0	.0	1.8	36
TOT OBS	159	17	128	0	0	0	0	22.0	298	2	139	14	0	902	1355
TOT PCT	11.7	1.3	9.4	.0	.0	.0	.0			.1	10.3	1.0	.0	66.6	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	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					FG WD	SMOKE	HAZE	DUST	
0000	12.0	1.8	9.1	.0	.0	.0	.0	22.4	86	.3	14.6	1.6	.0	61.2	384
0600	11.9	.9	11.3	.0	.0	.0	.0	23.8	82	.3	11.0	.6	.0	64.2	344
1200	9.7	1.6	6.5	.0	.0	.0	.0	17.7	55	.0	6.5	.3	.0	75.8	310
1800	13.0	.6	10.9	.0	.0	.0	.0	23.6	78	.0	8.5	1.5	.0	66.5	331
TOT	160	17	130	0	0	0	0	22.0	301	2	141	14	0	911	1369
PCT	11.7	1.2	9.5	.0	.0	.0	.0			.1	10.3	1.0	.0	66.5	100.0

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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	00	03	06	09	12	15	18	21
N	.5	1.5	2.0	1.4	.2	.0	114	5.6	16.5	5.7	4.2	4.8	5.6	5.8	5.6	6.9	5.5
NNE	.1	.9	1.6	.6	.0	*	68	3.4	15.9	3.3	1.4	3.7	4.2	2.9	1.4	2.8	4.1
NE	.6	1.9	2.1	1.0	.1	*	118	5.8	13.6	5.3	4.2	7.4	7.7	5.0	1.4	4.9	6.5
ENE	.2	1.0	1.1	.4	.0	.0	57	2.8	13.5	2.9	2.8	2.2	3.2	3.2	.0	2.4	3.4
E	.5	1.7	1.4	1.0	.1	.1	99	4.9	15.1	6.3	5.6	4.1	4.9	4.3	4.2	4.0	4.5
ESE	.3	.6	1.2	.5	.1	.0	56	2.8	15.9	2.5	6.9	2.6	3.5	3.2	1.4	2.0	2.1
SE	.3	1.2	1.9	.9	*	*	91	4.5	16.4	6.1	6.9	3.0	4.2	3.6	8.5	3.2	3.8
SSE	*	1.6	1.9	.7	.2	*	91	4.5	16.4	3.7	5.6	3.3	3.2	5.4	7.0	6.9	4.5
S	.2	2.3	3.1	.9	.1	*	136	6.7	14.9	5.1	12.5	10.7	4.2	6.8	8.5	7.3	5.8
SSW	.1	1.5	1.8	1.3	.1	.0	99	4.9	16.2	3.9	4.2	4.4	7.4	5.0	8.5	4.5	4.1
SW	.3	2.9	3.0	2.3	.4	.0	182	9.0	16.4	9.8	11.1	6.6	9.9	7.6	7.0	8.9	10.3
WSW	.4	2.3	2.9	1.6	.3	*	153	7.6	15.8	8.0	8.3	6.6	7.4	6.8	5.6	8.9	7.6
W	.5	4.6	5.8	2.4	.4	.2	282	13.9	15.7	13.1	8.3	13.3	15.1	15.5	15.5	14.6	13.7
WNW	*	2.0	3.5	.9	.4	*	140	6.9	16.2	6.3	5.6	8.9	6.3	9.0	8.5	7.3	4.5
NW	.5	2.1	4.1	1.7	.1	.1	175	8.6	15.9	10.2	8.3	9.6	7.0	6.8	5.6	8.5	9.3
NW	.3	1.3	2.5	.9	.1	.0	104	5.1	15.7	4.7	4.2	7.4	3.9	6.1	9.9	4.5	3.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	597	812	376	63	16	59	2.9	.0	2.9	.0	1.5	2.1	2.9	1.4	2.4	6.5
TOT OBS	160	7.9	29.5	40.1	19.6	3.1	2024	100.0	15.2	510	72	271	284	278	71	247	291
TOT PCT	7.9	29.5	40.1	19.6	3.1	.8	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 SPD	00	03	06	09	12	15	18	21	
N	1.7	3.2	2.8	1.1	.2	182	9.0	16.3	9.0	5.6	8.5	9.9	8.6	7.0	9.7	9.6	
NE	2.4	3.3	2.2	.6	.1	175	8.6	13.6	8.2	6.9	9.6	10.9	8.3	1.4	7.3	10.0	
E	1.8	2.9	2.0	.7	.2	155	7.7	15.4	8.8	12.5	6.6	8.5	7.6	5.6	6.1	6.5	
SE	1.4	3.9	2.6	.9	.2	182	9.0	16.0	9.8	12.5	6.3	7.4	9.0	15.5	10.1	8.2	
S	1.7	5.4	3.3	1.1	.1	235	11.6	15.4	9.0	16.7	15.1	11.6	11.9	16.9	11.7	10.0	
SW	2.8	7.0	4.5	2.3	*	335	16.6	16.1	17.8	19.4	13.3	17.3	14.4	12.7	17.8	17.9	
W	2.7	10.0	6.1	1.6	.4	422	20.8	15.9	19.4	13.9	22.1	21.5	24.5	23.9	21.9	18.2	
NW	1.9	6.4	4.2	1.0	.2	279	13.8	15.8	14.9	12.5	17.0	10.9	12.9	15.5	13.0	13.1	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9	852	560	191	31	59	2.9	.0	2.9	.0	1.5	2.1	2.9	1.4	2.4	6.5	
TOT OBS	390	7.9	29.5	40.1	19.6	3.1	2024	100.0	15.2	510	72	271	284	278	71	247	291
TOT PCT	19.3	42.1	27.7	9.4	1.5	.8	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)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										TOTAL OBS		
	0003	0609	1215	1821	TOT	PCT	0003	0609	1215	1821		TOT	
0003	6.5	5.6	4.5	101	5.0	29.5	40.1	18.6	3.1	.8	2.9	100.0	582
0609	5.6	30.5	47.3	376	5.0	29.5	40.1	18.6	3.1	.8	2.9	100.0	555
1215	2.3	23.5	36.2	376	2.4	18.6	37.6	16	63	15.2	2024	538	
1821	4.5	32.9	36.2	376	2.4	18.6	37.6	16	63	15.2	2024	538	
TOT	101	597	812	376	63	15.2	2024	16	59	15.2	2024	2024	
PCT	5.0	29.5	40.1	18.6	3.1	.8	2.9	100.0					

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION										TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	9-10	11-21	22-33	34-47		
N	.4	.2	1.3	3.2	49	6.8						
NNE	.1	.0	.6	2.0	26	7.4						
NE	.1	.1	.7	4.2	49	7.5						
ENE	.0	.1	.4	1.7	21	7.4						
E	.1	.1	.2	4.5	47	7.7						
ESE	.0	.0	.4	2.5	28	7.8						
SE	.2	.1	.5	3.1	38	7.3						
SSE	.0	.2	.3	4.4	47	7.7						
S	.4	.4	1.4	5.3	72	7.1						
SSW	.1	.1	1.7	2.9	46	7.3						
SW	.3	.3	2.0	4.9	72	7.2						
WSW	.9	.3	1.4	4.8	71	6.7						
W	1.6	1.8	3.8	8.1	145	6.4						
WNW	1.0	1.3	2.5	3.6	80	6.0						
NW	.5	.9	4.3	3.5	88	6.4						
NNW	.4	.2	1.8	3.3	55	6.8						
VAR	.0	.0	.0	.0	0	.0						
CALM	.2	.1	.8	1.2	22	6.6						
TOT OBS	62	60	230	604	956	6.9						
TOT PCT	6.5	6.3	24.1	63.2	100.0							

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS		
	000	149	150	299	300	359	500	550	600	650				700	750
N	.6	.3	.3	.0	.0	.5	1.3	.6	.5	.0	.1	.0	.0	1.2	49
NNE	.0	.0	.0	.2	.2	.9	.9	.3	.0	.1	.0	.0	.0	.2	26
NE	.2	.2	.2	.5	.5	1.2	1.5	.7	.1	.0	.0	.0	.0	.7	49
ENE	.1	.0	.0	.1	.1	.2	.9	.4	.0	.0	.0	.0	.0	.4	21
E	1.2	.0	.0	.5	.5	.5	1.6	.6	.0	.0	.1	.0	.0	.4	47
ESE	.4	.3	.3	.3	.3	.1	.9	.1	.0	.0	.0	.0	.0	.7	28
SE	.5	.1	.1	.1	.1	.6	1.6	.2	.2	.0	.0	.0	.0	.6	38
SSE	1.2	.0	.0	.3	.3	1.0	1.7	.2	.1	.0	.0	.0	.0	.4	47
S	.9	.1	.1	.2	.2	1.5	2.6	.7	.1	.0	.0	.0	.0	1.4	72
SSW	.5	.2	.2	.3	.3	1.0	1.8	.3	.1	.0	.0	.0	.0	.5	46
SW	1.0	.3	.3	.5	.5	1.5	1.8	.8	.2	.0	.0	.0	.0	1.3	72
WSW	.9	.2	.2	.4	.4	1.8	2.1	.2	.1	.0	.0	.0	.0	1.7	71
W	1.6	.1	.1	1.0	.8	1.9	3.7	1.6	.4	.2	.1	.0	.0	4.5	145
WNW	.2	.0	.0	.2	.2	1.6	2.4	.5	.2	.0	.0	.0	.0	2.5	80
NW	.2	.0	.0	.2	.2	1.2	3.3	1.3	.1	.1	.0	.0	.0	2.7	88
NNW	.3	.0	.0	.2	.2	1.0	2.1	.7	.2	.0	.0	.0	.0	1.0	55
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.6	.4	.3	.0	.1	.0	.0	.0	.7	22
TOT OBS	95	16	16	56	56	164	292	93	23	5	7	2	201	956	
TOT PCT	9.9	1.9	1.9	5.9	5.9	17.2	30.5	9.7	2.4	.5	.7	.2	21.0	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)	UR		OR		VSBY (NM)		OR		OR		OR	
	>10	>5	>2	>1	>1	>1/2	>1/4	>50YD	>	>	>	>
OR >6500	.4	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9
OR >5000	.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
OR >3500	2.3	3.3	3.7	3.8	3.8	3.8	3.8	3.9	3.9	3.9	3.9	3.9
OR >2000	7.6	11.7	13.0	13.1	13.2	13.2	13.3	13.4	13.4	13.4	13.4	13.4
OR >1000	21.0	37.4	42.5	43.4	43.6	43.6	43.9	44.0	44.0	44.0	44.0	44.0
OR >600	28.7	50.9	58.4	60.0	60.9	60.9	61.3	61.4	61.4	61.4	61.4	61.4
OR >300	29.6	54.3	62.9	65.4	66.2	66.2	67.1	67.3	67.3	67.3	67.3	67.3
OR >150	29.8	55.3	64.1	66.9	68.2	68.2	68.7	69.1	69.1	69.1	69.1	69.1
OR > 0	31.1	58.1	68.6	72.7	75.4	75.4	77.0	78.7	78.7	78.7	78.7	78.7
TOTAL	297	555	656	695	721	721	736	752	752	752	752	755

TOTAL NUMBER OF OBS: 956

PCT FREQ NH <5/8: 21.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	2.8	3.7	5.0	4.7	5.2	5.6	7.7	11.9	44.5	8.9 1030
										8.9 1030

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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	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP NO PCP TOTAL	.0 .1 1	.0 .1 1	.0 .2 3	.1 .1 2	.0 .3 4	.0 .4 5	.0 .5 7	.2 .4 8	.1 .5 8	.1 .3 6	.4 .3 9	.0 .2 3	.0 .5 7	.0 .0 0	.0 .1 2	.0 .1 2	.0 .0 0	.0 .4 5	12 61 73	.9 4.5 5.4
1/2<1	PCP NO PCP TOTAL	.2 .1 4	.1 .0 1	.0 .1 2	.0 .1 1	.1 .2 5	.0 .1 1	.3 .1 6	.4 .0 5	.1 .1 3	.1 .0 1	.3 .2 7	.0 .1 4	.2 .1 4	.1 .1 3	.0 .1 1	.1 .0 1	.0 .0 0	.0 .1 1	27 20 47	2.0 1.5 3.5
1<2	PCP NO PCP TOTAL	.0 .2 3	.1 .1 2	.1 .0 1	.1 .1 3	.3 .3 8	.1 .1 3	.6 .1 9	.3 .1 5	.3 .3 8	.1 .3 5	.2 .4 9	.0 .4 9	.2 .3 7	.1 .2 5	.0 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	38 42 80	2.8 3.1 5.9
2<5	PCP NO PCP TOTAL	.7 .1 11	.1 .2 5	.4 .4 12	.1 .1 4	.5 .5 14	.3 .1 6	.2 .1 4	.7 .4 14	.6 .5 15	.2 .5 10	.3 .8 15	.0 1.6 27	.4 1.6 27	.2 .4 9	.0 .3 4	.2 .2 6	.0 .0 0	.1 .1 3	76 93 169	5.6 6.9 12.5
5<10	PCP NO PCP TOTAL	.4 1.3 24	.2 .7 13	.5 1.4 26	.4 .5 13	.4 .7 15	.3 .4 9	.6 1.1 23	.7 1.1 24	.7 1.9 35	.6 1.8 32	.1 2.6 37	.7 4.2 66	.3 3.0 45	.3 3.0 45	.6 2.4 40	.4 1.6 27	.0 .0 0	.1 .7 11	108 372 480	8.0 27.6 35.6
10+	PCP NO PCP TOTAL	.0 2.2 30	.3 .7 13	.0 1.6 22	.1 .8 13	.1 1.5 22	.1 1.3 19	.3 .8 15	.1 .9 13	.3 1.6 26	.2 1.0 17	.1 2.8 40	.2 5.5 77	.1 2.9 40	.1 4.5 62	.2 2.5 37	.0 .0 0	.0 .0 0	.0 1.2 16	37 461 498	2.7 34.2 37.0
TOTAL	TOTAL PCT	73 5.4	35 2.6	66 4.9	36 2.7	68 5.0	43 3.2	64 4.8	69 5.1	95 7.1	71 5.3	112 8.3	105 7.8	188 14.0	102 7.6	111 8.2	73 5.4	0 .0	36 2.7	1347 100.0	100.0

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TABLE 9

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

VSBY (NM)	SPD KTS	WIND DIRECTION																CALM TOTAL	PCT			
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			VAR		
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	10	.5
	4-10	.1	.0	.2	.1	.1	.2	.1	.2	.1	.2	.2	.2	.2	.0	.1	.1	.1	.0	.0	31	1.6
	11-21	.0	.1	.0	.0	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1	.0	28	1.4
	22+	.0	.0	.0	.0	.0	.1	.2	.0	.1	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	14	.7
TOTAL	2	1	4	2	4	5	9	6	11	6	10	4	9	0	2	2	2	2	0	5	83	4.2
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4	.2
	4-10	.0	.0	.1	.1	.1	.1	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	9	.5
	11-21	.1	.0	.0	.1	.2	.1	.0	.1	.1	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	17	.9
	22+	.1	.1	.0	.0	.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	24	1.2
TOTAL	4	1	2	2	9	5	3	1	3	1	7	2	5	3	1	1	1	1	0	1	54	2.7
1<2	0-3	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	6	.3
	4-10	.1	.1	.0	.2	.1	.1	.2	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	21	1.1
	11-21	.1	.2	.1	.0	.2	.1	.1	.1	.1	.2	.2	.2	.2	.2	.1	.0	.0	.0	.0	32	1.6
	22+	.1	.0	.0	.2	.3	.2	.1	.3	.1	.4	.3	.2	.2	.2	.1	.1	.1	.0	.0	51	2.6
TOTAL	5	6	1	6	10	7	8	7	11	11	11	8	11	7	2	1	1	0	3	110	5.5	
2<5	0-3	.1	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	15	.8
	4-10	.3	.1	.4	.3	.3	.2	.2	.3	.2	.5	.4	.5	.5	.1	.1	.1	.1	.0	.0	67	3.4
	11-21	.3	.3	.2	.2	.2	.2	.3	.5	.4	.4	.3	.3	.3	.3	.1	.1	.1	.0	.0	74	3.7
	22+	.3	.1	.3	.1	.4	.3	.1	.3	.4	.4	.4	.4	.4	.3	.4	.3	.3	.0	.0	90	4.5
TOTAL	18	10	17	12	17	16	17	16	17	16	23	23	34	13	10	10	10	0	8	246	12.3	
5<10	0-3	.3	.1	.3	.1	.1	.0	.1	.2	.1	.2	.2	.1	.1	.1	.0	.0	.0	.0	1.0	52	2.6
	4-10	.2	.4	.8	.5	.2	.6	.8	1.0	.9	1.6	1.6	2.3	1.6	.7	.8	.4	.0	.0	.0	188	9.4
	11-21	.8	.4	.8	.5	.5	.6	.6	.6	.6	1.1	1.0	2.3	1.4	1.2	.6	.6	.0	.0	.0	266	13.3
	22+	.7	.4	.5	.1	.4	.3	.2	.6	.7	.7	.7	.9	.6	.6	.6	.6	.0	.0	.0	165	8.3
TOTAL	39	24	45	16	22	28	28	37	50	53	66	53	93	54	50	31	0	0	20	671	33.6	
10+	0-3	.2	.0	.4	.1	.3	.0	.1	.0	.1	.1	.3	.3	.0	.4	.3	.0	.0	.0	1.1	71	3.6
	4-10	.9	.4	.6	.3	1.0	.5	.6	1.1	.9	1.6	2.2	3.0	1.7	1.2	.7	.0	.0	.0	.0	277	13.9
	11-21	.8	.8	1.0	.4	.5	.8	.7	1.1	1.3	1.4	1.3	3.0	1.7	2.8	1.8	.0	.0	.0	.0	382	19.1
	22+	.4	.2	.4	.1	.2	.1	.1	.1	.5	.6	.6	1.2	.3	1.0	.1	.0	.0	.0	.0	106	5.3
TOTAL	43	26	46	17	37	26	45	29	71	60	71	132	62	106	56	0	0	0	22	836	41.8	
TOTAL	111	68	115	55	99	91	134	96	180	153	281	281	139	171	101	0	0	0	59	2000	100.0	
PCT	5.6	3.4	5.8	2.8	5.0	4.6	6.7	4.8	9.0	7.7	14.1	14.1	7.0	8.6	5.1	.0	.0	.0	3.0	100.0		

SEPTEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

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	10.8	2.7	7.3	14.3	29.7	8.1	3.1	.4	.8	.0	77.2	22.8	259
06009	6.9	1.5	6.1	19.5	31.4	9.2	2.3	.8	.8	.4	78.9	21.1	261
12015	13.3	2.1	3.0	17.2	28.8	9.4	1.3	.4	.4	.4	76.4	23.6	233
18021	8.3	.9	6.1	16.7	29.4	12.3	2.6	.4	.9	.0	77.6	22.4	228
TOT	96	18	56	166	293	95	23	5	7	2	761	220	981
PCT	9.8	1.8	5.7	16.9	29.9	9.7	2.3	.5	.7	.2	77.6	22.4	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	5.5	3.2	5.1	9.1	29.2	47.8	253
06009	2.8	4.0	4.0	12.3	32.5	44.4	252
12015	2.6	2.2	2.6	15.8	35.5	41.2	228
18021	3.1	1.3	4.5	10.3	30.9	49.8	223
TOT	34	26	39	113	306	438	956
PCT	3.6	2.7	4.1	11.8	32.0	45.8	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	<600	<1000	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	11.5	22.5	42.2	36.8	20.9	253
06009	7.5	16.3	43.3	38.5	18.3	252
12015	13.6	20.2	45.6	34.6	19.7	228
18021	8.5	17.5	39.9	39.9	20.2	223
TOT	98	183	409	358	189	956
PCT	10.3	19.1	42.8	37.4	19.8	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
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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				
60/64	.0	.0	.0	.0	.2	.7	.0	.1	.1	.1	6	.4
55/59	.0	.0	.0	.1	.7	1.7	2.2	1.4	1.4	1.4	99	6.1
50/54	.0	.0	.0	.1	1.3	3.5	14.6	16.4	16.4	16.4	580	35.8
45/49	.0	.0	.0	.0	.8	5.8	17.8	28.8	28.8	28.8	861	53.1
40/44	.0	.0	.0	.0	.1	.7	1.0	2.8	2.8	2.8	74	4.6
TOTAL	0	0	0	4	49	189	577	801	801	801	1620	100.0
PCT	.0	.0	.0	.2	3.0	11.7	35.6	49.4	49.4	49.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
60/64	.1	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0
55/59	.6	.4	.6	.5	1.0	1.0	1.5	.2	.5	.0	.0	.2
50/54	2.3	2.3	3.0	4.0	4.9	7.2	7.3	3.5	3.5	.0	.0	1.4
45/49	6.0	5.2	4.0	4.1	5.3	8.3	10.7	8.0	8.0	.0	.0	1.5
40/44	.4	.5	.3	.1	.3	.3	1.4	1.2	.0	.0	.0	.1
TOTAL	152	137	126	140	187	276	339	212	0	0	0	51
PCT	9.4	8.5	7.8	8.6	11.5	17.0	20.9	13.1	.0	.0	.0	3.1

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 OBS		
0603	62	59	57	50	45	44	41	50.3	577	577	
0609	63	58	55	49	45	3	42	49.3	557	557	
12015	57	54	52	48	43	41	41	47.7	352	352	
18021	59	56	53	48	44	43	40	48.5	539	539	
TOT	63	58	55	49	44	42	40	49.1	2025	2025	

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	.4	6.2	13.1	37.5	42.8	87	467			
0609	.0	.2	2.4	11.1	36.5	49.8	89	468			
12015	.0	.4	1.2	12.7	31.4	54.3	89	245			
18021	.0	.0	1.3	10.1	35.3	53.3	89	445			
TOT	0	4	19	189	580	803	88	1625			

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

SEPTEMBER

AREA 0009 ADAK  
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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	41	45	49	53	57	61	TOT	W FOG	MO FOG
14/16	.0	.0	.0	.0	.1	.0	1	.0	.1
11/13	.0	.0	.0	.1	.3	.1	5	.0	.4
9/10	.0	.0	.9	.5	.2	.0	18	.1	1.5
7/8	.0	.3	1.1	.8	.4	.0	30	.3	2.3
6	.0	.4	.9	.3	.0	.0	18	.3	1.2
5	.0	.9	3.4	1.1	.3	.0	66	.7	5.0
4	.0	1.7	2.3	.9	.1	.0	58	1.1	3.9
3	.2	2.7	2.9	.8	.0	.0	75	1.3	5.2
2	.2	5.2	6.8	.7	.0	.0	148	1.6	11.3
1	.9	6.4	3.5	.7	.0	.0	132	1.6	9.9
0	1.5	8.5	6.0	.7	.0	.0	192	1.0	15.7
-1	1.8	6.0	3.0	.2	.0	.0	127	1.7	9.3
-2	.8	6.2	3.1	.3	.0	.0	120	.4	10.0
-3	.9	3.4	1.1	.0	.0	.0	62	.6	4.8
-4	.3	2.5	.8	.0	.0	.0	41	.1	3.5
-5	.3	1.6	.4	.0	.0	.0	28	.2	2.3
-6	.2	.8	.3	.0	.0	.0	15	.0	1.3
-7/-8	.2	.9	.1	.0	.0	.0	13	.1	1.0
-9/-10	.1	.3	.0	.0	.0	.0	4	.0	.3
-11/-13	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	84	550	422	81	16	1	1154	127	1027
PCT	7.3	47.7	36.6	7.0	1.4	.1	100.0	11.0	89.0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

SEPTEMBER  
TABLE 18

AREA 0009 ADAK  
51-55N 172-180W

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+ TOTAL PCT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.0	.0	.0	.0	.0	1	.0	.3	.0	.0	.0	.0	1	
1-2	.0	.3	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0	
3-4	.0	.0	1.0	.0	.0	.0	4	.0	.0	.0	.0	.0	.0	0	
5-6	.0	.0	.3	.3	.0	.0	4	.0	.0	.5	.3	.0	.0	3	
7	.0	.0	1.5	.8	.3	.0	10	.0	.3	.5	.0	.0	.0	3	
8-9	.0	.3	.0	.3	.0	.0	2	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.5	1.0	.0	.0	6	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.3	.0	.0	1	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	2	14	10	1	0	28	0	2	4	2	0	0	8	
PCT	.3	.5	3.5	2.5	.3	.0	7.0	.0	.5	1.0	.5	.0	.0	2.0	

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+ TOTAL PCT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	.5	.0	.0	.0	.0	5	.5	1.0	.0	.0	.0	.0	6	
1-2	.0	.3	.5	.0	.0	.0	3	.0	1.0	.3	.0	.0	.0	5	
3-4	.0	.0	1.0	.0	.0	.0	6	.0	.3	1.3	.0	.0	.0	6	
5-6	.0	.3	.8	.0	.0	.0	4	.0	.3	2.0	.3	.0	.0	10	
7	.0	.0	.5	1.0	.0	.0	6	.0	.0	.3	.3	.0	.0	2	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.8	.0	.0	3	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.3	.0	2	
12	.0	.0	.0	.0	.0	.0	1	.0	.0	.3	.0	.0	.0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.3	.0	.3	.0	2	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	1	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	3	8	9	4	1	0	25	2	10	16	7	2	1	38	
PCT	.8	2.0	2.3	1.0	.3	.0	6.3	.5	2.5	4.0	1.8	.5	.3	9.5	

SEPTEMBER  
TABLE 18

AREA 0009 ADAK  
51-55N 172-180W

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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

HGT	S										TOTAL	48+	TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47	48+
<1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
1-2	.0	1.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
3-4	.0	1.8	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
5-6	.0	.5	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
7	.0	.3	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
8-9	.0	.0	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
13-16	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
17-19	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.3	.0	.0	.0	.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
TOTAL	1	17	29	9	1	1	58	1	16	31	12	4	64	16.0	64
PCT	.3	4.3	7.3	2.3	.3	.3	14.5	.3	4.0	7.8	3.0	1.0	.0	16.0	16.0

HGT	NW										TOTAL	48+	TOTAL	GRAND TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33					34-47	48+
<1	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	21
1-2	.3	1.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	54
3-4	.0	2.3	5.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	91
5-6	.0	.3	5.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	89
7	.0	.8	1.3	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	62
8-9	.0	.0	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	21
10-11	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	21
12	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	13
13-16	.0	.0	.0	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	17
17-19	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	6
23-25	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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
TOTAL	1	22	55	23	8	2	111	2	12	28	23	2	67	399	399	
PCT	.3	5.5	13.8	5.8	2.0	.5	27.8	.5	3.0	7.0	5.8	.5	16.8	100.0	100.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

SEPTEMBER

AREA 0009 ADAK  
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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	4.4	3.2	.0	.0	.0	.0	.0	.0	.0	.0	31
1-2	.2	6.6	6.3	.0	.0	.0	.0	.0	.0	.0	54
3-4	.5	8.0	12.9	1.0	.0	.0	.0	.0	.0	.0	92
5-6	.2	1.9	14.1	5.4	.2	.0	.0	.0	.0	.0	90
7	.0	1.5	8.0	4.6	1.0	.0	.0	.0	.0	.0	62
8-9	.0	.5	1.2	2.9	.5	.0	.0	.0	.0	.0	21
10-11	.0	.0	1.5	2.7	.7	.2	.0	.0	.0	.0	21
12	.0	.0	.5	2.4	.2	.0	.0	.0	.0	.0	13
13-16	.0	.0	.7	1.5	1.5	.5	.0	.0	.0	.0	17
17-19	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	3
20-22	.0	.0	.0	1.2	.0	.2	.0	.0	.0	.0	6
23-25	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1
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
TOTAL	22	89	186	90	19	5	411				411
PCT	5.4	21.7	45.3	21.9	4.6	1.2	100.0				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)															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	.8	5.6	7.9	5.4	2.3	1.3	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4	
6-7	.0	.8	4.2	9.6	10.2	3.5	3.1	1.5	2.3	.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	176	7
8-9	.0	.0	1.5	3.1	4.8	3.3	1.9	1.0	3.5	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	8
10-11	.0	.0	.4	.4	2.5	.8	.8	.6	.6	.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	10
12-13	.0	.0	.0	.0	.0	.4	.2	.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	11
>13	.0	.0	.0	.0	.0	.8	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	8.3	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	0
TOTAL	44	31	68	85	99	46	34	18	34	4	11	2	0	0	0	0	0	0	0	0	0	0	480	0
PCT	9.2	6.5	14.2	18.5	20.6	9.6	7.1	3.8	7.1	.8	2.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6

OCTOBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER					FRZG	SMOKE	DUST	NO	
N	.3	.1	.3	.0	.2	.0	.0	.1	.9	.0	.0	.0	.0	.0	66
NNE	.3	.1	.5	.0	.1	.0	.0	.0	.7	.0	.1	.5	.0	.0	36
NE	.6	.4	.7	.0	.0	.0	.0	.0	1.2	.0	.2	.3	.0	.0	38
ENE	.3	.0	.5	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	20
E	.6	.0	.6	.0	.0	.0	.0	.0	1.2	.0	.2	.0	.0	.0	30
ESE	.7	.2	.2	.0	.0	.0	.0	.0	1.1	.0	.1	.0	.0	.0	20
SE	1.9	.0	.7	.0	.0	.0	.0	.0	2.1	.0	.4	.0	.0	.0	40
SSE	1.2	.0	.5	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	22
S	2.0	.1	1.1	.0	.0	.0	.0	.0	2.9	.2	.1	.1	.0	.0	61
SSW	.7	.2	.6	.0	.0	.0	.0	.0	1.5	.0	.5	.0	.0	.0	46
SW	1.2	.2	.7	.0	.0	.0	.0	.0	2.0	.0	.8	.2	.0	.0	93
WSW	1.1	.5	.4	.0	.0	.0	.0	.0	1.9	.0	.3	.0	.1	.0	92
W	1.3	.6	1.1	.0	.0	.1	.0	.0	2.9	.0	.4	.1	.0	.0	193
WNW	.4	.1	.3	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	96
NW	.9	.5	.5	.0	.2	.0	.0	.1	2.1	.0	.1	.1	.0	.0	98
NNW	.0	.0	.2	.0	.1	.0	.0	.0	.3	.0	.0	.0	.0	.0	71
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	6
TOT OBS	137	28	89	0	6	1	2	2	23.6	2	32	13	1	737	1028
TOT PCT	13.3	2.7	8.7	.0	.6	.1	.2	.2		.2	3.1	1.3	.1	71.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
				FRZG	SNOW	OTHER					FRZG	SMOKE	DUST	NO		SIG
00003	12.0	3.3	6.6	.0	.7	.4	.4	.4	23.0	.0	4.7	2.6	.0	.0	69.7	274
06009	16.0	1.9	10.1	.0	.8	.0	.0	.0	25.7	.4	3.1	1.2	.0	.0	69.6	257
12015	10.9	2.0	6.9	.0	.4	.0	.0	.0	16.1	.0	1.6	.0	.0	.0	82.3	248
18021	15.1	3.5	12.0	.0	.4	.0	.4	.4	29.8	.4	2.7	1.2	.4	.0	65.5	258
TOT	140	28	92	0	6	1	2	2	246	2	32	13	1	743	1037	
PCT	13.5	2.7	8.9	.0	.6	.1	.2	.2	23.7	.2	3.1	1.3	.1	.1	71.6	100.0

OCTOBER

PERIOD: (PRIMARY) 1942-1969  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)											TOTAL OBS	PCT FREQ	MEAN SPD			
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09	12				15	18	21
N	.2	2.1	2.4	1.0	.3	.1	106	6.1	15.6	6.8	3.3	7.3	6.0	7.3	1.4	5.2	5.9
NNE	.1	.3	1.7	.7	.6	.0	57	3.3	21.7	4.3	11.7	6.4	1.6	2.6	.0	1.4	1.7
NE	.1	2.3	1.7	.5	.2	.0	83	4.8	13.8	6.1	5.0	1.4	7.7	.4	5.7	6.6	5.0
ENE	.2	.3	1.2	.4	.1	.1	38	2.2	18.2	2.5	1.7	2.3	2.0	2.1	8.6	1.4	.8
E	.1	1.3	.6	.4	.3	.1	47	2.7	16.6	2.3	.0	.9	3.6	3.0	4.3	4.7	2.5
ESE	.1	.5	.3	.5	.2	.1	28	1.6	18.9	2.0	6.7	.0	1.2	1.3	.0	1.4	2.5
SE	.3	1.0	.8	.7	.5	.1	58	3.4	18.6	2.7	3.3	2.7	4.4	2.6	5.7	2.3	5.0
SSE	.2	.3	.4	.8	.4	.1	36	2.1	22.4	1.4	1.7	2.3	3.2	2.1	5.7	2.3	.8
S	.3	1.5	1.5	1.0	.5	.1	86	5.0	17.9	6.1	1.7	5.9	4.0	4.7	4.3	4.7	4.6
SSW	.2	1.3	1.7	.5	.2	.0	67	3.9	15.2	4.3	1.7	6.8	2.0	3.4	1.4	6.1	2.1
SW	.9	3.8	3.6	1.6	.2	.1	173	10.0	14.1	9.5	10.0	6.8	10.1	9.8	8.6	10.3	14.1
WSW	.2	1.7	3.5	2.0	.6	.5	148	8.6	20.7	9.0	6.7	7.7	8.9	9.0	8.6	7.5	9.1
W	.5	4.8	7.4	4.5	.8	.2	312	18.1	17.0	17.2	15.0	20.5	17.3	20.5	20.0	18.8	15.4
WNW	.2	2.3	4.1	2.0	.9	.2	167	9.7	18.7	8.6	21.7	12.7	8.1	11.1	14.3	8.9	5.4
NW	.4	3.1	4.0	2.3	1.0	.1	188	10.9	17.7	10.2	5.0	9.1	11.7	10.3	8.6	10.3	16.2
NNW	.1	1.6	2.1	1.7	.5	.0	102	5.9	18.3	5.2	5.0	7.3	5.2	8.5	2.9	7.5	3.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	487	639	354	125	21	32	1.9	.0	1.8	.0	.0	2.8	1.3	.0	.5	5.4
TOT OBS	5.9	28.2	37.0	20.5	7.2	1.2	1728	100.0	17.1	442	60	220	248	234	70	213	241
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)											TOTAL OBS	PCT FREQ	MEAN SPD		
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12	15				18	21
N	1.0	4.0	3.0	.9	.5	163	9.4	17.7	11.1	15.0	13.6	7.7	9.8	1.4	6.6	7.5
NE	1.6	2.5	2.2	.5	.2	121	7.0	15.2	8.6	6.7	3.6	9.7	2.6	14.3	8.0	5.8
E	1.0	1.4	1.0	.5	.3	75	4.3	17.5	4.3	6.7	.9	4.8	4.3	6.1	6.1	5.0
SE	1.2	1.2	1.5	1.0	.5	94	5.4	20.0	4.1	5.0	5.0	7.7	4.7	11.4	4.7	5.8
S	1.6	3.4	2.4	1.0	.4	153	8.9	16.7	10.4	3.3	12.7	6.0	8.1	5.7	10.8	6.6
SW	3.4	6.4	6.0	2.1	.7	321	18.6	17.1	18.6	16.7	14.5	19.0	18.8	17.1	17.8	23.2
W	3.9	10.0	9.3	4.2	.3	479	27.7	17.6	25.8	36.7	33.2	25.4	31.6	34.3	27.7	20.7
NW	2.6	6.3	4.5	3.0	.4	290	16.8	17.9	15.4	10.0	16.4	16.9	18.8	11.4	17.8	19.9
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	607	517	230	58	32	1.9	.0	1.8	.0	.0	2.8	1.3	.0	.5	5.4
TOT OBS	316	607	29.9	13.3	3.4	1728	100.0	17.1	442	60	220	248	234	70	213	241
TOT PCT	18.3	35.1	29.9	13.3	3.4				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1903-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)								PCT TOTAL OBS	
	0000	0300	0600	0900	1200	1500	1800	2100		
0-3	5.0	27.1	35.5	21.7	8.0	1.2	1.6	17.4	100.0	502
4-9	4.9	28.6	37.0	20.1	6.6	1.3	1.5	16.9	100.0	468
10-15	1.3	23.7	40.5	23.0	9.5	1.0	1.0	18.9	100.0	304
16-21	4.0	31.9	36.3	17.8	5.5	1.3	3.1	15.9	100.0	454
TOT	70	487	639	354	125	21	32	17.1		1728
PCT	4.1	28.2	37.0	20.5	7.2	1.2	1.9		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	13-14	15-16		
N	.4	.5	3.6	2.0	49	6.4				
NNE	.1	.5	.9	1.8	26	6.6				
NE	.1	.1	.9	1.7	22	7.0				
ENE	.1	.3	.3	1.3	15	6.9				
E	.1	.3	.7	1.4	19	6.6				
ESE	.4	.0	.4	.7	11	5.5				
SE	.3	.3	.5	1.7	21	6.6				
SSE	.0	.1	.1	1.7	15	7.5				
S	.1	.5	.9	4.1	43	7.2				
SSW	.3	.4	1.1	3.7	41	7.0				
SW	.9	1.1	1.8	5.1	68	6.4				
WSW	.9	2.1	2.6	3.6	70	5.7				
W	2.8	2.9	8.7	5.9	154	5.6				
WNW	2.0	2.4	3.8	2.1	78	4.9				
NW	.4	2.1	3.2	2.8	64	5.9				
NNW	.9	.5	4.6	1.8	60	5.9				
VAR	.0	.0	.0	.0	0	.0				
CALM	.4	.0	.0	.1	4	3.0				
TOT OBS	78	107	259	316	760	6.1				
TOT PCT	10.3	14.1	34.1	41.6	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)								AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION								TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	ANY HGT	TOTAL				
N	.1	.0	.3	.9	2.6	1.1	.1	.0	.0	.0	.0	.0	.0	49			
NNE	.0	.0	.1	.9	1.1	.7	.0	.0	.0	.0	.0	.0	.0	26			
NE	.0	.0	.4	.7	1.1	.3	.0	.0	.0	.0	.0	.0	.0	22			
ENE	.0	.0	.3	.4	.5	.8	.0	.0	.0	.0	.0	.0	.0	15			
E	.3	.0	.0	.7	.3	.8	.0	.0	.0	.0	.0	.0	.0	19			
ESE	.0	.0	.1	.1	.4	.1	.0	.0	.1	.0	.0	.0	.0	11			
SE	.3	.0	.1	.5	.7	.4	.1	.0	.0	.1	.0	.0	.0	21			
SSE	.3	.0	.0	.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	15			
S	.4	.0	.5	1.8	1.6	.1	.1	.0	.0	.0	.0	.0	.0	43			
SSW	.5	.0	.1	1.2	1.8	.7	.0	.0	.0	.0	.0	.0	.0	41			
SW	.8	.0	.0	2.2	1.6	.5	.3	.4	.0	.0	.0	.0	.0	68			
WSW	.5	.1	.4	1.6	1.3	.8	.1	.0	.1	.0	.0	.0	.0	70			
W	.3	.4	1.1	2.2	6.1	2.4	.4	.0	.0	.0	.0	.0	.0	154			
WNW	.0	.0	.1	.9	2.5	.9	.0	.3	.0	.0	.0	.0	.0	78			
NW	.0	.0	.4	1.1	2.4	1.4	.1	.0	.0	.0	.0	.0	.0	64			
NNW	.0	.0	.0	1.7	3.3	.4	.3	.0	.0	.0	.0	.0	.0	60			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0			
CALM	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4			
TOT OBS	26	4	30	133	212	83	12	6	2	1	251	.4	760				
TOT PCT	3.4	.5	3.9	17.5	27.9	10.9	1.6	.8	.3	.1	33.0	.1	100.0				

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

OCTOBER

AREA 0009 ADAK  
51-55N 172-180W

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	.1	.3	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.7	1.0	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 >3500	1.8	2.5	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	2.7
= OR >2000	8.8	12.6	13.5	13.6	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 >1000	23.8	36.8	40.8	42.0	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1	42.1
= OR >600	29.7	49.9	57.2	59.4	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
= OR >300	30.8	52.5	60.7	63.0	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
= OR >150	30.9	52.9	61.1	63.5	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
= OR > 0	31.2	53.8	63.0	65.8	66.5	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
TOTAL	238	411	481	503	508	511	511	511	511	511	511	511	511	511	511	511

TOTAL NUMBER OF OBS: 764 PCT FREQ NH <5/8: 32.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	2.1	4.4	9.8	9.1	7.4	9.7	12.1	10.9	31.5	3.0
										813

OCTOBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 8

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

VSBY (NH)	PCP ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	.0 .0 0	.0 .0 0	.0 .1 1	.0 .0 1	.1 .0 1	.1 .0 1	.0 .0 0	.3 .1 4	.0 .0 0	.3 .1 3	.0 .1 1	.0 .2 2	.0 .1 1	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	9 6 15	.9 .6 1.5
1/2<1	.1 .0 1	.0 .0 1	.0 .0 0	.0 .0 0	.0 .0 2	.0 .0 2	.2 .0 2	.4 .0 4	.1 .0 1	.1 .1 2	.0 .1 1	.0 .0 0	.3 .0 3	.0 .1 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	12 3 15	1.2 .3 1.5
1<2	.1 .0 1	.0 .1 1	.1 .0 1	.1 .0 1	.2 .0 2	.1 .0 1	.2 .0 2	.3 .2 5	.2 .1 3	.5 .1 6	.3 .2 5	.4 .2 6	.3 .1 4	.1 .4 5	.2 .0 2	.2 .0 2	.1 .0 1	.0 .0 0	.0 .0 0	32 14 46	3.1 1.4 4.5
2<5	.3 .5 8	.4 .5 9	.2 .4 6	.3 .0 3	.4 .1 5	.5 .2 7	.8 .1 9	.6 .8 16	.6 .6 12	.7 4.5 60	.9 .8 17	.2 .3 5	.8 .8 16	.7 1.4 21	.2 .7 9	.5 .3 8	.1 .3 4	.0 .0 0	.0 .0 0	73 65 138	7.1 6.3 13.5
5<10	.4 2.0 25	.3 1.1 14	.6 .7 13	.2 .5 7	.4 .6 10	.5 1.0 15	.3 .3 6	.4 .6 10	.4 .1 5	1.3 .9 22	.9 .8 17	.9 .8 17	.6 1.8 24	.7 4.5 60	.2 3.0 33	.6 3.3 40	.1 1.5 16	.0 .0 0	.0 .0 0	89 254 343	8.7 24.8 33.5
10+	.0 3.0 31	.0 1.2 12	.3 1.4 17	.1 .7 8	.0 .8 8	.0 .6 6	.0 .5 5	.0 .8 8	.0 .6 6	.1 1.8 19	.1 1.6 17	.2 4.1 44	.0 3.5 36	.7 9.6 105	.1 5.0 52	.9 3.8 48	.0 .0 0	.0 .0 0	.0 .0 0	26 442 468	2.5 43.1 45.7
TOTAL PCT	66 6.4	36 3.5	38 3.7	20 2.0	40 3.9	30 2.9	20 2.0	22 2.1	22 2.1	61 6.0	46 4.5	92 9.0	91 8.9	193 18.8	96 9.4	98 9.6	71 6.9	0 .0	5 .5	1025 100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	MSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	6	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2	.1
	22+	.0	.0	.0	.1	.0	.0	.2	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	9	.5
	TOTAL	0	0	1	1	1	4	4	0	4	1	2	1	2	0	0	0	0	0	17	1.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.1	.0	.0	.0	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	4	.2
	22+	.1	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	11	.6
	TOTAL	2	0	0	0	1	2	4	1	2	1	0	4	1	2	0	0	0	0	20	1.2
1<2	0-3	.0	.0	.1	.1	.0	.0	.0	.1	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	8	.5
	4-10	.1	.0	.1	.0	.0	.0	.1	.0	.1	.2	.3	.1	.1	.0	.0	.1	.0	.0	22	1.3
	11-21	.0	.0	.1	.0	.0	.1	.1	.1	.1	.1	.4	.1	.2	.1	.0	.1	.0	.0	22	1.3
	22+	.0	.1	.0	.0	.1	.1	.2	.2	.2	.1	.1	.2	.2	.0	.2	.1	.0	.0	28	1.6
	TOTAL	2	1	3	2	2	4	7	5	7	6	6	6	10	2	3	4	0	0	80	4.7
2<5	0-3	.1	.0	.0	.1	.1	.0	.0	.0	.1	.0	.1	.1	.0	.1	.1	.1	.0	.0	15	.9
	4-10	.2	.0	.4	.0	.2	.1	.1	.0	.2	.4	.6	.2	.6	.2	.3	.1	.0	.0	63	3.7
	11-21	.2	.1	.2	.1	.1	.0	.1	.2	.3	.0	.3	.3	.7	.5	.1	.1	.0	.0	54	3.2
	22+	.2	.4	.1	.1	.1	.2	.4	.3	.3	.3	.5	.5	.8	.3	.4	.2	.0	.0	85	5.0
	TOTAL	11	9	10	4	8	10	10	8	14	11	26	20	37	19	14	7	0	4	217	12.7
5<10	0-3	.1	.1	.1	.1	.0	.0	.1	.0	.2	.1	.4	.1	.3	.0	.2	.0	.0	.0	36	2.1
	4-10	.7	.1	.6	.1	.5	.1	.3	.1	.3	.3	1.1	.5	1.7	1.0	1.4	.2	.0	.0	151	8.8
	11-21	.8	.9	.5	.5	.4	.1	.4	.0	.4	.9	.7	1.3	2.7	1.0	1.2	.4	.0	.0	203	11.9
	22+	.6	.6	.4	.3	.4	.2	.1	.5	.8	.2	.6	1.1	1.2	1.3	1.4	.8	.0	.0	180	10.5
	TOTAL	37	27	27	15	21	8	14	10	29	26	47	51	100	56	71	22	0	9	570	33.3
10+	0-3	.1	.0	.0	.0	.0	.1	.2	.1	.1	.1	.2	.1	.2	.1	.2	.0	.0	.0	41	2.4
	4-10	1.1	.2	1.2	.2	.5	.2	.5	.2	.8	.3	1.7	.8	2.4	1.1	1.5	1.2	.0	.0	236	13.8
	11-21	1.5	.7	1.0	.6	.2	.1	.3	.2	.7	.8	2.1	1.7	3.6	2.5	2.7	1.7	.0	.0	348	20.4
	22+	.5	.2	.2	.1	.1	.1	.1	.2	.2	.1	.6	1.0	3.2	1.5	1.4	1.1	.0	.0	181	10.6
	TOTAL	54	20	42	16	14	9	19	12	30	21	78	61	160	86	99	67	0	18	806	47.1
	TOTAL	106	57	83	38	47	28	58	36	86	66	169	143	310	165	187	100	0	31	1710	100.0
	PCT	6.2	3.3	4.9	2.2	2.7	1.6	3.4	2.1	5.0	3.9	9.9	8.4	18.1	9.6	10.9	5.8	.0	1.8	100.0	

OCTOBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

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 ANY HGT	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+			
00003	3.2	.5	4.3	18.8	25.8	8.6	1.6	1.1	.5	.0	64.5	35.5	186
06009	3.9	1.0	3.4	17.6	30.4	8.8	2.9	.0	.0	.5	68.6	31.4	204
12015	3.8	.0	3.4	13.9	28.4	11.5	.5	1.0	.0	.0	62.5	37.5	208
18021	2.2	.5	4.3	17.9	26.6	13.6	1.1	1.1	.5	.0	67.9	32.1	184
TOT	26	4	30	133	218	83	12	6	2	1	515	267	782
PCT	3.3	.5	3.8	17.0	27.9	10.6	1.5	.8	.3	.1	65.9	34.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	PERCENT FREQUENCY VSBY (NM) BY HOUR										TOTAL OBS
	<1/2	1/2<1	1<2	2<5	5<10	10+	10+	10+	10+	10+	
00003	.6	.6	3.3	8.9	26.7	60.0	180	180	180	180	180
06009	1.0	1.0	2.5	10.4	31.2	54.0	202	202	202	202	202
12015	.5	.0	3.0	14.4	25.4	56.7	201	201	201	201	201
18021	.6	1.1	3.9	8.3	26.5	59.7	181	181	181	181	181
TOT	5	5	24	81	210	439	764	764	764	764	764
PCT	.7	.7	3.1	10.6	27.5	57.5	100.0	100.0	100.0	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)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH > 4/8), BY HOUR				TOTAL OBS
	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	
00003	3.3	8.3	34.4	35.0	180
06009	4.0	8.4	33.2	37.6	202
12015	3.5	7.0	31.3	35.3	201
18021	2.2	7.2	29.3	31.5	181
TOT	25	59	245	281	764
PCT	3.3	7.7	32.1	36.8	100.0

OCTOBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
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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
55/59	.0	.0	.1	.1	.2	.3	.0	.1	12	.9
50/54	.0	.0	.0	.3	1.6	1.9	2.7	2.5	122	9.0
45/49	.0	.0	.1	.6	3.2	10.2	15.3	18.0	641	47.5
40/44	.0	.0	.0	.1	3.3	8.7	12.5	14.1	522	38.7
35/39	.0	.0	.0	.0	.5	1.0	1.0	1.0	49	3.6
30/34	.0	.0	.0	.0	.0	.0	.1	.1	3	.2
TOTAL	0	0	4	15	120	299	427	484	1349	100.0
PCT	.0	.0	.3	1.1	8.9	22.2	31.7	35.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.1	.0	.0	.0	.1	.4	.1	.1	.0	.1
50/54	.4	.5	.3	.3	1.3	3.0	1.6	1.3	.0	.4
45/49	4.5	3.0	1.5	2.8	6.0	10.5	13.0	5.3	.0	1.0
40/44	3.9	3.1	1.9	2.4	2.1	5.9	10.7	8.0	.0	.6
35/39	1.0	.5	.1	.1	.0	.1	1.1	.5	.0	.2
30/34	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	135	96	51	75	129	269	357	206	0	31
PCT	10.0	7.1	3.8	5.6	9.6	19.9	26.5	15.3	.0	2.3

TABLE 15

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

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	57	55	52	46	40	36	33	46.2	498
0600	57	52	50	45	40	37	34	45.1	473
1200	55	51	49	44	38	37	36	44.1	306
1800	57	52	50	44	39	36	34	44.4	453
TOT	57	54	50	45	39	36	33	45.0	1730

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	2.2	11.7	22.1	33.7	30.3	83	403
0600	.0	1.6	9.1	21.8	27.2	40.4	85	386
1200	.0	.9	7.9	23.1	38.0	30.1	84	216
1800	.0	.6	5.9	21.3	30.3	42.0	86	357
TOT	0	19	120	299	431	493	84	1362

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

OCTOBER

AREA 0009 ADAK  
51-55N 172-180W

TABLE 17

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

AIR-SEA TMP DIF	33	37	41	45	49	53	57	TOT	W FDG	WU FDG
11/13	.0	.0	.0	.0	.2	.0	.0	2	.0	.2
9/10	.0	.0	.0	.3	.1	.1	.0	2	.0	.2
7/8	.0	.0	.0	.4	.2	.0	.0	5	.0	.5
6	.0	.0	.1	.8	.4	.0	.0	6	.0	.7
5	.0	.0	.3	.8	.4	.0	.0	14	.1	1.4
4	.0	.0	.2	1.5	1.0	.1	.0	26	.2	2.6
3	.0	.0	.1	2.3	1.1	.0	.0	32	.2	3.3
2	.0	.1	1.1	6.5	1.0	.0	.2	81	.4	8.5
1	.0	.0	2.4	5.4	1.2	.0	.0	82	.5	8.5
0	.0	.4	7.1	8.5	1.5	.1	.0	161	.9	16.8
-1	.0	.2	5.2	4.3	.8	.0	.0	95	.2	10.2
-2	.0	.9	5.6	4.2	.2	.0	.0	99	.1	10.8
-3	.0	.8	4.0	2.3	.0	.0	.0	64	.2	6.8
-4	.0	2.1	3.7	2.4	.2	.0	.0	77	.1	8.4
-5	.1	2.1	3.3	1.8	.4	.0	.0	70	.3	7.4
-6	.2	1.4	1.6	.3	.0	.0	.0	33	.0	3.6
-7/-8	.4	.9	1.5	.5	.2	.0	.0	33	.1	3.5
-9/-10	.2	.5	.7	.4	.0	.0	.0	17	.0	1.9
-11/-13	.1	.5	.3	.0	.0	.0	.0	9	.0	1.0
-14/-16	.2	.0	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	12	91	340	382	80	3	.2	910	32	878
PCT	1.3	10.0	37.4	42.0	8.8	.3	.2	100.0	3.5	96.5

OCTOBER

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18

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

HGT	N										NE					TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
1-2	.3	.0	.0	.0	.0	.0	1	.0	.3	.3	.0	.0	.0	2		
3-4	.0	.7	1.7	.0	.0	.0	7	.0	.3	.3	.0	.0	.0	2		
5-6	.0	.0	2.1	1.4	.0	.0	10	.0	.0	.3	.0	.0	.0	1		
7	.0	.0	.3	.7	.7	.0	5	.0	.3	.7	.0	.0	.0	3		
8-9	.0	.0	.7	.3	.0	.0	3	.0	.0	.0	.0	.0	.0	0		
10-11	.0	.0	1.0	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0		
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
13-16	.0	.0	.0	1.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0		
17-19	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
23-25	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0		
26-32	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	1	2	17	11	4	0	35	0	3	5	0	0	0	8		
PCT	.3	.7	5.9	3.8	1.4	.0	12.2	.0	1.0	1.7	.0	.0	.0	2.8		

HGT	E										SE					TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.7	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0		
1-2	.0	.3	.0	.0	.0	.0	1	.0	.7	.0	.0	.0	.0	2		
3-4	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	.0	.0	.0	1		
5-6	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	.3	.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	.3	.0	.0	1		
10-11	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.7	.0	.0	1		
12	.0	.0	.3	.0	.0	.0	0	.0	.0	.0	.0	.3	.0	2		
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.7	.0	2		
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	1		
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0		
TOTAL	0	3	1	1	0	0	5	0	4	0	4	3	1	12		
PCT	.0	1.0	.3	.3	.0	.0	1.7	.0	1.4	.0	1.4	1.0	.3	4.2		

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969

OCTOBER

TABLE 18

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

AREA 0009 ADAK  
 51-55N 172-180W

HGT	S										SW									
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL						
<1	.0	.3	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0						
1-2	.0	.0	.7	.0	.0	.0	2	.0	.7	.7	.0	.0	.0	4						
3-4	.0	.7	2.1	.7	.0	.0	10	.0	1.4	4.2	.3	.0	.0	17						
5-6	.0	.3	.7	1.0	.0	.0	6	.0	.0	3.5	1.0	.0	.0	13						
7	.0	.0	.3	.7	.0	.0	3	.0	.0	.3	.7	.0	.0	3						
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	1.7	.3	.0	6						
10-11	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	1.4	.0	.0	4						
12	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.3	.0	.0	1						
13-16	.0	.0	.0	.3	.7	.0	4	.0	.0	.0	.0	.0	.0	0						
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1						
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.3	.0	2						
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
TOTAL	.0	1.4	3.8	10	2	1	28	.0	2.1	8.7	18	2	.0	51						
PCT	.0	.3	3.5	3.1	.7	.3	9.7	.0	6.3	17.7	6.3	.7	.0	17.7						

HGT	W										NW									
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL						
<1	.3	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0						
1-2	.0	1.0	1.4	.0	.0	.0	7	.0	1.0	.3	.0	.0	.0	4						
3-4	.0	1.7	4.9	1.7	.0	.0	24	.0	.7	2.1	1.0	.0	.0	4						
5-6	.0	2.4	5.2	1.4	.3	.0	27	.0	.0	1.4	.7	.0	.0	11						
7	.0	.3	4.9	3.1	.0	.0	24	.0	.0	1.0	1.0	.0	.0	6						
8-9	.0	.0	1.0	1.4	.0	.0	7	.0	.0	.0	1.4	.7	.0	6						
10-11	.0	.0	.7	1.7	.0	.0	7	.0	.0	.0	1.0	.3	.0	4						
12	.0	.0	.3	.0	.3	.0	2	.0	.0	.0	.7	.0	.0	2						
13-16	.0	.0	.0	.0	.7	.0	2	.0	.0	.0	.3	.3	.0	2						
17-19	.0	.0	.0	.3	.7	.0	3	.0	.0	.0	.0	.0	.0	0						
20-22	.0	.0	.0	.3	.3	.0	2	.0	.0	.0	.0	.0	.0	0						
23-25	.0	.0	.0	.0	.7	.0	2	.0	.0	.0	.0	.0	.0	0						
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0						
TOTAL	1	16	53	29	9	0	108	.0	5	14	18	4	.0	41						
PCT	.3	5.6	18.4	10.1	3.1	.0	37.5	.0	1.7	4.9	6.3	1.4	.0	14.2						

PERIOD: (PRIMARY)  
(OVER-ALL) 1565-1969

OCTOBER

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	4
1-2	.7	4.2	3.5	.0	.0	.0	.0	.0	.0	.0	24
3-4	.0	5.9	15.2	3.8	.0	.0	.0	.0	.0	.0	72
5-6	.0	3.1	13.1	5.9	.3	.0	.0	.0	.0	.0	65
7	.0	.7	7.6	6.2	.7	.0	.0	.0	.0	.0	44
8-9	.0	.0	1.7	5.2	1.0	.0	.0	.0	.0	.0	23
10-11	.0	.0	1.7	4.8	.7	.0	.0	.0	.0	.0	21
12	.0	.0	.3	2.1	.3	.0	.0	.0	.0	.0	8
13-16	.0	.0	.3	1.7	2.4	.3	.0	.0	.0	.0	14
17-19	.0	.0	.0	1.0	.7	.0	.0	.0	.0	.0	5
20-22	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	5
23-25	.0	.0	.0	.0	1.0	.3	.0	.0	.0	.0	3
26-32	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1
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
TOTAL	3	43	126	91	24	2	289				
PCT	1.0	14.9	43.6	31.5	8.3	.7	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)																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	.6	2.2	8.7	5.6	1.9	2.5	1.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	5
6-7	.0	.6	5.0	15.5	6.5	4.6	2.8	1.9	2.2	1.2	.9	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	137	7
8-9	.0	.3	.9	4.3	4.6	3.7	3.1	1.9	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	7
10-11	.0	.0	.0	.3	.6	3.4	1.9	.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	9
12-13	.0	.0	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	11
>13	.0	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	1.9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	1
TOTAL	8	10	47	84	45	49	30	16	20	5	5	3	1	1	0	0	0	0	0	0	0	323	7
PCT	2.5	3.1	14.6	26.0	13.9	15.2	9.3	5.0	6.2	1.5	1.5	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1907-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
			DRZL	FRZG PCPN	SNOW					OTHER FRZN PCPN	PCPN	FOG NO	SMOKE	HAZE		DUST
N	.5	.1	.2	.0	.6	.0	1.7	14	.0	.1	.0	.0	.0	.0	3.9	46
NNE	.0	.0	.1	.0	.1	.0	.2	2	.0	.0	.0	.0	.0	.0	2.4	21
NE	.9	.1	.1	.0	.1	.0	1.1	9	.0	.0	.0	.0	.0	.0	2.1	26
ENE	.1	.0	.4	.0	.1	.0	.6	5	.0	.0	.2	.0	.0	.0	2.2	25
E	.6	.0	.2	.0	.7	.0	1.6	13	.0	.1	.1	.0	.1	.0	2.4	35
ESE	1.4	.0	.5	.0	.1	.0	1.9	15	.0	.1	.0	.0	.0	.0	1.4	27
SE	1.6	.1	.5	.0	.2	.0	2.5	20	.0	.7	.4	.0	.0	.0	1.9	44
SSE	1.4	.0	.6	.0	.1	.0	2.0	16	.0	.1	.1	.0	.0	.0	2.0	34
S	1.7	.0	1.1	.0	.1	.0	2.0	16	.0	.1	.1	.0	.0	.0	3.5	46
SSW	.2	.2	.4	.0	.5	.0	1.4	11	.1	.0	.5	.0	.0	.0	3.5	44
SW	1.1	.0	1.9	.0	.4	.0	3.0	24	.0	.9	.2	.0	.0	.0	4.7	71
WSW	1.1	.1	.7	.0	.4	.0	2.4	19	.0	.0	.2	.0	.0	.0	7.0	77
W	.2	1.1	.5	.0	1.0	.0	3.2	26	.0	.1	.1	.0	.0	.0	10.6	113
WNW	.9	.2	.2	.0	1.1	.0	2.4	19	.0	.0	.0	.0	.0	.0	5.6	64
NW	.7	.6	.2	.0	2.0	.0	3.4	27	.0	.4	.0	.0	.0	.0	6.8	85
NNW	.0	.2	.1	.0	.4	.0	.7	6	.0	.0	.1	.0	.0	.0	3.9	38
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.2	.0	.2	.0	.5	4	.0	.0	.0	.0	.0	.0	.5	8
TOT OBS	93	24	66	0	67	0	15	246	1	22	18	1	1	1	516	804
TOT PCT	11.6	3.0	8.2	.0	8.3	.0	30.6	100.0	.1	2.7	2.2	.1	.1	.1	64.2	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	PRECIPITATION TYPE			MAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
			DRZL	FRZG PCPN	SNOW					OTHER FRZN PCPN	PCPN	FOG NO	SMOKE	HAZE		DUST
00003	12.1	4.2	9.3	.0	12.1	.0	35.5	76	.5	3.3	3.3	.0	.0	.0	57.5	214
06009	10.0	1.4	8.6	.0	8.1	.0	27.6	58	.0	4.3	3.3	.0	.0	.0	64.8	210
12015	10.0	4.2	5.3	.0	4.7	.0	23.7	45	.0	1.1	.0	.0	.0	.0	75.3	190
18021	13.9	2.1	9.8	.0	7.7	.0	35.1	68	.0	2.1	2.1	.5	.5	.5	60.3	194
TOT	93	24	67	0	67	0	15	247	1	22	18	1	1	1	519	808
PCT	11.5	3.0	8.3	.0	8.3	.0	30.6	100.0	.1	2.7	2.2	.1	.1	.1	64.2	100.0

NOVEMBER

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1907-1969

AREA 0009 ADAK  
51-55N 172-180W

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	.3	1.5	2.1	1.4	.2	.0	68	5.4	16.9	5.7	.0	7.7	3.3	6.1	3.6	7.8	3.7
NNE	.1	1.0	1.2	.8	.1	.0	40	3.2	16.7	2.8	.0	5.9	3.9	2.8	.0	3.2	2.1
NE	.4	1.4	1.8	.5	.4	.1	56	4.5	15.8	6.0	.0	3.0	5.0	2.8	3.6	2.6	6.8
ENE	.2	.6	.6	1.0	.2	.0	30	2.4	18.6	2.5	3.0	2.4	1.7	3.9	.0	3.2	1.0
E	.3	.9	1.9	1.3	.4	.0	60	4.8	17.9	5.0	6.1	4.7	3.9	4.4	7.1	2.6	6.8
ESE	.1	.9	1.1	1.1	.2	.0	36	2.9	20.1	3.1	.0	2.4	2.8	3.9	7.1	2.6	2.1
SE	.2	.9	1.8	1.4	.6	.0	70	5.6	22.9	6.6	9.1	4.7	6.1	3.3	.0	3.9	7.9
SSE	.1	.4	1.1	1.2	.3	.1	40	3.2	22.7	2.2	.0	3.6	3.3	4.4	.0	4.5	3.1
S	.4	1.7	1.4	1.7	.2	.1	67	5.3	17.3	3.8	.0	7.7	8.3	4.4	7.1	4.5	5.2
SSW	.6	1.2	1.2	1.5	.5	.1	63	5.0	18.8	4.7	6.1	6.5	3.9	3.3	10.7	5.8	5.2
SW	.4	3.3	4.1	1.8	1.1	.1	136	10.8	17.3	11.3	27.3	9.5	14.4	6.1	3.6	7.8	13.1
WSW	.4	1.7	2.8	1.7	1.4	.2	102	8.1	20.9	8.2	3.0	8.9	5.5	10.0	17.9	11.7	4.7
W	.7	2.2	3.6	4.1	1.6	.4	159	12.7	21.6	12.6	9.1	7.7	13.3	15.6	17.9	15.6	11.5
WNW	.2	1.0	1.7	2.9	.6	.5	87	6.9	23.6	7.9	3.0	8.9	2.8	8.9	16.7	7.8	5.2
NW	.4	3.6	3.7	2.8	1.3	.3	151	12.0	19.0	11.3	24.2	12.4	13.3	12.2	5.6	8.4	13.6
NNW	.1	1.4	2.6	1.0	.3	.0	67	5.3	16.3	5.0	9.1	3.6	5.0	6.7	7.1	7.1	4.2
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8	290	408	327	117	29	22	1.8	19.0	1.3	.0	.6	3.9	1.1	.0	.6	3.7
TOT OBS	83	23.1	32.5	26.1	9.3	2.3	1254	100.0	19.0	318	33	169	181	180	28	154	191
TOT PCT	6.6	23.1	32.5	26.1	9.3	2.3	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)											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	1.7	2.3	3.1	1.4	.1	108	8.6	16.8	8.5	.0	13.6	7.2	8.9	3.6	11.0	5.8	
NE	1.4	2.2	2.3	.7	.2	86	6.9	16.8	8.5	7.0	5.3	6.6	6.7	3.6	5.8	7.9	
E	.9	2.7	2.4	1.6	.1	96	7.7	18.7	8.2	6.1	7.1	6.6	8.3	5.2	8.9	8.9	
SE	1.1	2.2	2.6	2.2	.8	110	8.8	22.8	8.8	9.1	8.3	9.4	7.8	.0	8.4	11.0	
S	2.0	3.0	3.1	2.0	.2	130	10.4	18.0	8.5	6.1	14.2	12.2	7.8	17.9	10.4	10.5	
SW	3.6	6.0	4.5	4.1	.8	238	19.0	18.8	19.5	30.3	18.3	19.9	16.1	21.4	19.5	17.8	
W	2.4	5.0	5.3	5.7	1.1	246	19.6	22.3	20.4	12.1	16.6	16.0	24.4	28.6	23.4	16.8	
NW	3.1	6.3	4.1	3.3	.6	218	17.4	18.1	16.4	33.3	16.0	18.2	18.9	10.7	15.6	17.8	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	372	344	264	49	22	1.8	19.0	1.3	.0	.6	3.9	1.1	.0	.6	3.7	
TOT OBS	225	29.7	27.4	21.1	3.9	1254	100.0	19.0	318	33	169	181	180	28	154	191	
TOT PCT	17.9	29.7	27.4	21.1	3.9	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 (GHT)

HOUR	WIND SPEED (KNOTS)								PCT TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN	FREQ	OBS
00003	4.8	25.4	33.0	23.9	8.3	3.4	1.1	18.7	100.0	351
06009	8.6	26.6	30.3	22.6	8.0	1.7	2.3	17.1	100.0	350
12015	1.0	11.1	35.1	35.1	14.4	2.4	1.0	23.4	100.0	208
18021	3.5	24.6	32.8	26.4	8.7	1.7	2.3	18.6	100.0	345
TOT	61	290	408	327	117	29	22	19.0		1254
T-T	4.9	23.1	32.5	26.1	9.3	2.3	1.8		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 & OBSCD	8 & OBS	9-10	11-21	22-33		
N	.6	1.1	2.2	2.2	3.3	5.9	5.9	5.9	33	5.9
NNE	.6	.2	1.1	1.5	1.8	5.9	5.9	5.9	18	5.9
NE	.2	.6	1.1	1.5	1.8	6.7	6.7	6.7	18	6.7
ENE	.4	.0	.4	2.4	1.7	6.9	7.0	7.0	23	7.0
E	.2	.4	.9	2.8	2.3	7.0	7.1	7.1	14	7.1
ESE	.2	.0	.7	1.7	1.4	7.6	7.6	7.6	25	7.6
SE	.0	.0	1.1	3.5	2.5	7.6	7.4	7.4	19	7.4
SSE	.2	.0	.4	3.0	1.9	7.4	6.8	6.8	26	6.8
S	.6	.2	1.5	2.6	2.6	6.8	6.7	6.7	33	6.7
SSW	.4	.4	2.2	3.2	3.3	6.7	6.2	6.2	41	6.2
SW	.7	.7	2.2	3.9	4.1	5.9	5.9	5.9	50	5.9
WSW	.7	1.9	3.5	3.2	5.0	5.1	5.1	5.1	78	5.1
W	2.2	4.3	4.7	3.4	7.8	5.4	5.4	5.4	51	5.4
WNW	1.1	2.0	4.1	2.2	5.1	5.4	5.4	5.4	56	5.4
NW	1.3	1.7	5.2	2.2	5.6	5.4	5.4	5.4	31	5.4
NNW	.7	1.1	2.6	1.3	5.1	5.4	5.4	5.4	0	5.4
VAR	.0	.0	.0	.0	0	.0	.0	.0	0	.0
CALM	.0	.0	.4	.4	4	7.3	7.3	7.3	4	7.3
TOT OBS	54	78	185	220	537	6.0	6.0	6.0	537	6.0
TOT PCT	10.1	14.5	34.5	41.0	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)											NH <5/8 ANY HGT	TOTAL OBS									
	000	149	150	299	300	599	600	999	1000	1999	2000			3499	3500	4999	5000	6499	6500	7999	8000+	
N	.4	.0	.2	.7	.7	1.3	1.3	1.1	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	33
NNE	.0	.0	.0	.2	.6	.6	.6	.6	.6	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	18
NE	.4	.0	.0	.4	.7	.7	.7	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	18
ENE	.2	.0	.0	.6	.9	.9	.9	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	17
E	.7	.0	.0	.4	.9	.9	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	23
ESE	.6	.0	.0	.0	.0	.0	.0	1.7	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	14
SE	1.1	.0	.0	.6	.7	.7	.7	.9	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	25
SSE	.0	.0	.0	.4	.4	1.3	1.3	1.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	19
S	.0	.0	.2	.6	.6	.6	.6	1.7	1.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	26
SSW	.4	.4	.7	.0	.0	1.1	1.1	2.2	2.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	33
SW	.7	.7	2.2	.6	.6	.4	.4	2.8	2.8	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	41
WSW	.4	.4	.0	.4	.4	1.5	1.5	3.0	3.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	50
W	.2	.0	.0	.4	.4	2.4	2.4	3.2	3.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	78
WNW	.4	.4	.0	.6	.6	1.3	1.3	1.9	1.9	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	51
NW	.7	.0	.0	.2	.4	.4	.4	2.4	2.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	56
NNW	.2	.0	.0	.0	.0	1.1	1.1	.7	.7	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	31
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	.2	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
TOT OBS	38	2	2	31	82	133	63	133	63	63	7	6	2	6	2	6	2	6	2	6	173	537
TOT PCT	7.1	.4	.4	5.8	15.3	24.8	11.7	24.8	11.7	1.3	1.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	32.2	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
= OR >6500	.2	.4	.4	.4	.4	.4	.4	.4
= OR >5000	.7	1.1	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	1.3	2.4	2.8	2.8	2.8	2.8	2.8	2.8
= OR >2000	8.7	13.2	14.5	14.5	14.5	14.5	14.5	14.5
= OR >1000	20.4	34.5	37.8	39.0	39.1	39.1	39.1	39.1
= OR >600	26.2	47.9	52.3	54.2	54.5	54.7	54.7	54.7
= OR >300	28.0	51.6	57.3	59.7	60.1	60.5	60.5	60.5
= OR >150	28.0	51.9	57.7	60.1	60.5	60.9	60.9	60.9
= OR > 0	28.4	53.6	61.6	65.1	66.2	67.2	67.9	67.9
= TOTAL	153	289	332	351	357	362	366	366

TOTAL NUMBER OF OBS: 539 PCT FREQ NH <5/8: 32.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)								TOTAL	
0	1	2	3	4	5	6	7	8	OBSCD OBS
2.6	3.3	10.6	7.8	9.3	11.2	11.6	11.4	26.3	5.9
									578

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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	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	.0	.0	.1	.0	.2	.1	.1	.1	.0	.0	.2	.1	.0	.1	.1	.0	.0	.0	11	1.4
	.0	.6	.0	.0	.0	.1	.1	.0	.0	.1	.4	.0	.0	.0	.1	.0	.0	.0	7	.9
TOTAL	0	0	1	0	2	2	2	1	0	1	5	1	0	1	2	0	0	0	18	2.2
1/2<1	.1	.1	.1	.0	.0	.1	.0	.1	.1	.5	.1	.0	.2	.1	.0	.0	.0	.0	14	1.7
	.0	.0	.0	.1	.0	.0	.1	.1	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	7	.9
TOTAL	1	1	1	1	0	1	1	2	2	5	1	0	3	1	1	0	0	0	21	2.6
1<2	.2	.2	.2	.0	.5	.5	.7	.4	.7	.1	.9	.5	.1	.2	.4	.1	.0	.1	49	6.1
	.0	.0	.1	.5	.1	.1	.1	.1	.0	.0	.0	.1	.4	.2	.0	.1	.0	.0	16	2.0
TOTAL	2	2	3	4	5	5	7	4	6	1	7	5	4	4	3	2	0	1	65	9.0
2<5	.2	.0	.1	.2	.6	.9	1.1	.5	.6	.1	.4	.5	.5	.4	.4	.0	.0	.1	54	6.7
	.1	.0	.1	.4	.2	.0	.9	.2	.4	.7	.7	.6	.7	.2	.6	.4	.0	.0	52	6.4
TOTAL	3	0	2	5	7	7	16	6	8	7	9	9	10	5	8	3	0	1	106	13.1
5<10	.5	.0	.5	.2	.1	.2	.4	.9	.2	.5	1.0	.9	1.7	1.0	2.0	.2	.0	.1	85	10.5
	.9	.9	.6	.7	.7	.7	1.0	.6	1.6	1.2	3.0	2.6	4.2	1.6	2.5	1.2	.0	.4	198	24.5
TOTAL	11	7	9	8	7	8	11	12	15	14	32	28	48	21	36	12	0	4	283	35.0
10+	.5	.0	.0	.1	.1	.0	.1	.0	.2	.1	.4	.4	.7	.6	.7	.4	.0	.1	37	4.6
	3.0	1.5	1.2	.7	1.6	.5	.7	1.1	1.6	1.9	1.7	3.8	5.3	3.5	3.8	2.2	.0	.1	278	34.4
TOTAL	28	12	10	7	14	4	7	9	15	16	17	34	49	33	37	21	0	2	315	39.0
TOTAL	45	22	26	25	35	27	44	34	46	44	71	77	114	65	87	38	0	8	808	100.0
PCT	5.6	2.7	3.2	3.1	4.3	3.3	5.4	4.2	5.7	5.4	8.8	9.5	14.1	8.0	10.8	4.7	.0	1.0	100.0	

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	
	11-21	.0	.0	.0	.0	.1	.1	.1	.0	.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	9	.7	
	22+	.0	.0	.1	.0	.2	.1	.0	.1	.0	.1	.1	.1	.0	.0	.2	.0	.0	.0	11	.9	
	TOTAL	0	0	1	0	3	2	2	1	1	1	5	1	0	1	4	0	0	0	22	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	2	.2	
	4-10	.0	.1	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	7	.6	
	11-21	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.2	
	22+	.1	.0	.1	.0	.0	.1	.1	.2	.1	.3	.0	.0	.3	.0	.1	.0	.0	.0	16	1.3	
	TOTAL	2	2	1	1	0	2	1	2	3	5	1	1	5	1	1	0	0	0	28	2.3	
1<2	0-3	.0	.0	.1	.2	.0	.1	.0	.0	.1	.1	.0	.1	.2	.0	.0	.0	.0	.0	.1	.9	.7
	4-10	.1	.0	.0	.0	.0	.1	.1	.1	.2	.2	.4	.2	.2	.0	.2	.2	.0	.0	24	1.9	
	11-21	.1	.1	.1	.0	.2	.2	.3	.2	.1	.0	.6	.0	.2	.1	.2	.0	.0	.0	27	2.2	
	22+	.1	.2	.2	.2	.3	.2	.4	.1	.2	.2	.2	.2	.4	.2	.3	.0	.0	.0	40	3.2	
	TOTAL	3	3	4	4	6	7	10	4	7	3	14	7	12	4	9	2	0	1	100	8.0	
2<5	0-3	.0	.1	.0	.0	.1	.0	.0	.1	.0	.2	.2	.0	.2	.1	.1	.0	.0	.0	.6	20	1.6
	4-10	.4	.0	.2	.0	.2	.1	.2	.1	.2	.6	.3	.6	.2	.3	.3	.4	.0	.0	47	3.8	
	11-21	.0	.1	.0	.2	.2	.4	.5	.2	.4	.2	.5	.2	.3	.0	.5	.2	.0	.0	46	3.7	
	22+	.2	.0	.1	.4	.2	1.1	.6	.2	.3	.2	.2	.2	.7	.2	.5	.2	.0	.0	69	5.5	
	TOTAL	7	2	4	7	10	9	23	10	12	9	15	12	18	8	17	11	0	8	182	14.6	
5<10	0-3	.2	.0	.2	.0	.2	.0	.1	.0	.2	.2	.2	.2	.2	.1	.1	.0	.0	.0	.7	31	2.5
	4-10	.3	.5	.9	.2	.1	.2	.2	.2	.4	.5	1.6	.2	.6	.2	1.0	.1	.0	.0	83	6.7	
	11-21	.9	.3	.9	.2	.3	.2	.4	.3	.5	1.0	.9	1.0	1.0	.5	1.4	.8	.0	.0	123	9.9	
	22+	.3	.3	.2	.4	.3	.4	.6	.6	.7	1.0	1.7	1.4	3.0	1.4	1.4	.5	.0	.0	180	14.5	
	TOTAL	21	14	23	10	11	10	16	13	21	35	55	35	60	26	52	17	0	9	417	33.5	
10+	0-3	.1	.0	.1	.0	.1	.0	.2	.0	.1	.1	.0	.1	.1	.1	.2	.1	.0	.0	.3	19	1.5
	4-10	.7	.5	.6	.3	.6	.1	.2	.1	.7	.4	.9	.6	1.2	.5	2.1	.8	.0	.0	127	10.2	
	11-21	1.0	.6	.8	.2	1.1	.2	.6	.6	.4	1.7	1.8	1.7	2.1	1.1	1.5	1.5	.0	.0	197	15.8	
	22+	.9	.4	.3	.2	.6	.2	.5	.2	.5	1.4	.8	1.4	1.8	2.0	1.5	.6	.0	.0	152	12.2	
	TOTAL	34	19	23	8	29	6	17	10	21	44	46	64	64	46	66	37	0	4	495	39.8	
	TOTAL	67	40	56	30	59	36	69	40	65	63	134	102	159	86	149	67	0	22	1244	100.0	
	PCT	5.4	3.2	4.5	2.4	4.7	2.9	5.5	3.2	5.2	5.1	10.8	8.2	12.8	6.9	12.0	5.4	.0	1.8	100.0		

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PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1907-1969

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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				DBS
00003	7.7	.0	4.6	20.0	22.3	11.5	1.5	1.5	.0	.0	69.2	30.8	130
06009	8.0	.7	5.3	14.7	22.0	12.0	.0	.7	.0	.0	63.3	36.7	150
12015	5.2	.6	5.8	10.3	21.9	12.9	1.9	1.9	1.3	.0	61.9	38.1	155
18021	6.4	.0	6.4	16.0	29.6	8.0	1.6	.0	.0	.0	68.0	32.0	125
TOT	38	2	31	84	133	63	7	6	2	0	366	194	560
PCT	6.8	.4	5.5	15.0	23.8	11.3	1.3	1.1	.4	.0	65.4	34.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							DBS
00003	4.0	1.6	2.4	8.7	28.6	54.8	126
06009	2.1	2.1	4.2	8.3	29.9	53.5	144
12015	.0	.7	4.7	8.1	33.6	53.0	149
18021	.8	.0	3.3	7.5	40.8	47.5	120
TOT	9	6	20	44	178	282	539
PCT	1.7	1.1	3.7	8.2	33.0	52.3	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	DBS
00003	7.9	14.3	37.3	34.9	27.8	126
06009	8.3	15.3	34.7	31.3	34.0	144
12015	5.4	12.1	29.5	34.9	35.6	149
18021	6.7	13.3	34.2	37.5	28.3	120
TOT	38	74	182	186	171	539
PCT	7.1	13.7	33.8	34.5	31.7	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
50/54	.0	.0	.0	.0	.1	.2	.3	.2	8	.8
45/49	.0	.0	.1	.2	.6	2.1	3.3	5.6	122	11.9
40/44	.0	.0	.0	.2	4.3	7.1	13.4	22.5	488	47.5
35/39	.0	.0	.0	1.5	4.0	5.3	9.4	13.5	346	33.7
30/34	.0	.0	.0	.0	.3	1.0	1.9	2.6	60	5.8
25/29	.0	.0	.0	.0	.0	.1	.0	.2	3	.3
TOTAL	0	0	1	19	95	162	292	458	1027	100.0
PCT	.0	.0	.1	1.9	9.3	15.8	28.4	44.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	.2	.4	.1	.1	.0	.0
45/49	.2	.5	.7	2.5	2.4	3.1	1.7	.5	.0	.3
40/44	3.3	4.1	4.6	4.6	5.9	10.6	7.4	5.6	.0	1.4
35/39	3.7	2.2	2.0	1.0	2.2	5.2	8.5	8.6	.0	.3
30/34	.8	.3	.2	.1	.1	.1	2.4	1.9	.0	.0
25/29	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0
TOTAL	82	73	77	84	112	199	207	173	0	20
PCT	8.0	7.1	7.5	8.2	10.9	19.4	20.2	16.8	.0	1.9

TABLE 15

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

hour (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	51	50	47	41	34	31	30	40.7	350
06009	51	49	46	40	34	30	30	40.3	350
12015	49	48	45	39	34	32	32	39.4	210
18021	50	48	46	40	33	28	28	39.8	345
TOT	51	49	46	40	34	30	28	40.1	1255

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
00003	.0	1.7	8.7	14.7	27.3	47.6	86	286
06009	.0	2.8	8.7	17.3	26.0	45.3	85	289
12015	.0	3.0	13.4	14.6	38.4	30.5	82	164
18021	.0	.7	8.2	15.6	26.5	49.0	86	294
TOT	0	20	96	162	294	461	85	1033

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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	25	29	33	37	41	45	49	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.1	.1	.1	3	.1	.3
6	.0	.0	.0	.0	.0	.1	.1	2	.0	.3
5	.0	.0	.0	.1	.3	1.6	.3	16	.3	2.0
4	.0	.0	.0	.6	.6	1.5	.0	18	.3	2.3
3	.0	.0	.0	.1	1.5	1.6	.0	22	.4	2.8
2	.0	.0	.0	.0	2.5	1.8	.0	29	.1	4.1
1	.0	.0	.0	.3	4.7	1.3	.1	44	.3	6.1
0	.0	.0	.0	2.3	6.3	3.1	.0	80	.6	11.1
-1	.0	.0	.0	2.2	4.8	.3	.0	50	.3	7.0
-2	.0	.0	.3	5.7	5.8	.1	.0	82	.3	11.7
-3	.0	.0	.1	5.7	3.1	.1	.0	62	.0	9.1
-4	.0	.0	1.5	5.4	3.2	.0	.0	69	.0	10.1
-5	.0	.3	2.8	5.1	.6	.3	.0	60	.0	8.8
-6	.0	.3	2.3	2.9	.7	.0	.0	43	.1	6.1
-7/-8	.0	.9	3.7	3.7	.7	.0	.0	61	.1	8.8
-9/-10	.1	.4	2.5	1.2	.0	.0	.0	29	.0	4.2
-11/-13	.0	.4	.7	.4	.0	.0	.0	11	.0	1.6
-14/-16	.0	.3	.1	.0	.0	.0	.0	3	.0	.4
TOTAL	1	16	96	245	239	82	5	684	21	663
PCT	.1	2.3	14.0	35.8	34.9	12.0	.7	100.0	3.1	96.9

PERIOD: (PRIMARY)  
(OVER-ALL) 1953-1969

NOVEMBER

AREA 0009 ADAK  
5155N 172-180W

TABLE 18

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

HGT	N					NE					TOTAL	
	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
1-2	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	0
3-4	.0	.0	.0	1.0	.0	.0	.0	.5	.0	.0	.0	1
5-6	.0	.0	1.0	1.0	.0	.0	.0	1.5	.0	.0	.0	3
7	.0	.0	.5	.5	.0	.0	.0	.0	1.5	.0	.0	3
8-9	.0	.0	.0	.5	.0	.0	.0	.0	1.0	.5	.0	3
10-11	.0	.0	.0	.5	.0	.0	.0	.0	1.0	.0	.0	4
12	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.0	.0	3
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
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
TOTAL	.0	.0	4	5	0	0	1	4	13	5	1	24
PCT	.0	.0	2.0	2.5	.0	.0	.5	2.0	6.5	2.5	.5	11.9

HGT	E					SE					TOTAL	
	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
1-2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	0
3-4	.0	.0	.0	.5	.0	.0	.0	.0	.5	.0	.0	1
5-6	.0	.0	.5	1.5	.0	.0	.0	.0	.5	.0	.0	2
7	.0	.0	1.0	2.0	.0	.0	.0	.5	.5	.0	.0	3
8-9	.0	.0	.0	1.5	.0	.0	.0	.0	.5	.5	.0	2
10-11	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.5	.0	.0	.0	.0	1.0	.5	.0	3
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
TOTAL	.0	.0	4	13	0	0	1	4	4	4	1	24
PCT	.0	.0	2.0	6.5	.0	.0	.5	2.0	2.0	2.0	.5	11.9

PERIOD: (PRIMARY) NOVEMBER AREA 0009 ADAK  
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TABLE 18

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

HGT	S										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	1	3	5	11	1	2	23	9	4	16	9	2	35	0
PCT	.5	1.5	2.5	5.5	.5	1.0	11.4	4.5	2.0	8.0	4.5	1.0	17.4	0

HGT	NW										TOTAL	48+	TOTAL	GRAND TOTAL	
	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	.0	.0
1-2	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.5	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.5	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	1.0	.0	.0	.0	.0	.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	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	1.0	.0	.0	.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
TOTAL	0	7	15	19	5	1	47	8	5	23	8	0	36	201	0
PCT	.0	3.5	7.5	9.5	2.5	.5	23.4	4.0	2.5	11.4	4.0	.0	17.9	100.0	0

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	0-3	4-10	11-21	22-33	
<1	1.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	5
1-2	.0	4.9	2.5	.0	.0	.0	.0	.0	.0	.0	15
3-4	.5	2.5	7.9	3.9	.0	.0	.0	.0	.0	.0	30
5-6	.0	1.0	11.3	5.9	.5	.0	.0	.0	.0	.0	38
7	.0	.5	5.9	8.4	.0	.0	.0	.0	.0	.0	30
8-9	.0	.0	3.9	8.4	1.5	.0	.0	.0	.0	.0	28
10-11	.0	.0	1.5	4.9	2.5	.0	.0	.0	.0	.0	18
12	.0	.0	.5	4.4	2.0	1.0	.0	.0	.0	.0	16
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	1.5	1.0	.0	.0	.0	.0	6
23-25	.0	.0	.0	1.5	.5	.0	.0	.0	.0	.0	4
26-32	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	4
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
TOTAL	3	21	72	82	19	6	203				
PCT	1.5	10.3	35.5	47.4	9.4	3.0	100.0				

TABLE 19

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	.4	2.6	5.7	3.9	2.2	.4	2.2	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5	
6-7	.0	.0	2.6	4.3	7.0	3.5	1.7	.9	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	7
8-9	.0	.0	.0	3.5	4.3	3.9	2.2	1.3	3.5	1.7	.9	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	11
10-11	.0	.0	.0	.4	.5	3.9	2.2	1.3	2.2	.4	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	30	12
12-13	.0	.0	.0	.0	.9	1.3	2.2	2.6	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	10
>13	.0	.0	.0	.0	.0	.0	.0	1.3	3.5	.0	.4	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	15	16
INDET	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	0
TOTAL	18	6	19	28	35	30	24	19	24	7	7	8	5	0	0	0	0	0	0	0	0	230	9
PCT	7.8	2.6	8.3	12.2	15.2	13.0	10.4	8.3	10.4	3.0	3.0	3.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

DECEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
				FRZG PCPN	SNOW	OTHER PCPN					FOG	SMOKE	DUST	BLWG		DUST
N	.5	.1	.5	.0	1.7	.0	.0	2.6	21	.0	.0	.0	.2	.0	3.4	50
NNE	.2	.0	.0	.0	1.4	.0	.0	1.5	12	.0	.0	.0	.0	.0	2.7	34
NE	1.0	.6	2.0	.0	1.1	.0	.0	3.7	30	.0	.0	.2	.0	.0	3.1	57
ENE	.7	.0	.4	.0	.9	.0	.1	1.9	15	.0	.0	.0	.0	.0	2.5	35
E	1.5	.0	1.4	.0	.7	.0	.4	4.0	32	.0	.0	.4	.0	.0	5.0	75
ESE	.5	.2	.7	.0	.4	.0	.0	1.9	15	.0	.0	.4	.0	.0	2.0	34
SE	2.6	.4	.7	.0	.7	.0	.0	4.4	35	.0	.0	.1	.0	.0	2.4	55
SSE	.4	.1	.7	.0	.1	.0	.0	1.4	11	.0	.0	.2	.0	.0	3.0	37
S	.6	.0	.6	.0	.5	.0	.0	1.7	14	.0	.0	.1	.1	.0	3.7	46
SSW	.1	.1	.2	.0	.0	.0	.0	.5	4	.0	.0	.1	.0	.0	3.2	31
SW	.6	.2	.5	.0	.2	.0	.1	1.7	14	.0	.0	.1	.0	.0	4.2	49
WSW	.4	.2	.1	.0	2.1	.0	.0	2.7	22	.0	.0	.1	.0	.0	5.4	66
W	.9	.5	.4	.0	.9	.0	.0	2.2	18	.0	.0	.2	.0	.0	8.7	90
WNW	.2	.0	.1	.0	.6	.0	.1	1.1	9	.0	.0	.0	.0	.0	4.7	47
NW	.1	.1	.0	.0	1.4	.0	.1	1.5	12	.0	.1	.2	.0	.0	3.6	44
NNW	.2	.1	.1	.0	1.0	.0	.1	1.4	11	.0	.0	.0	.1	.0	3.5	40
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	.1	.0	.0	1.2	11
TOT OBS	86	22	69	0	111	0	9	.0	275	1	20	4	.0	0	501	801
TOT PCT	10.7	2.7	8.6	.0	13.9	.0	1.1	34.3		.1	2.5	.5	.0	.0	62.5	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS	
				FRZG PCPN	SNOW	OTHER PCPN					FOG	SMOKE	DUST	BLWG		DUST
00003	13.4	4.9	9.8	.0	18.8	.0	.9	44.2	99	.0	.0	3.1	.4	.0	52.2	224
06009	11.1	2.4	9.1	.0	14.4	.0	1.0	37.0	77	.5	.0	4.3	.5	.0	57.7	208
12015	4.4	2.8	6.7	.0	6.7	.0	2.8	20.0	36	.0	.0	1.7	.0	.0	78.3	180
18021	13.4	.5	8.8	.0	13.9	.0	.0	33.5	65	.0	.0	1.0	1.0	.0	64.4	194
TOT	87	22	70	0	111	0	9	.0	277	1	21	4	.0	0	503	806
PCT	10.8	2.7	8.7	.0	13.8	.0	1.1	34.4		.1	2.6	.5	.0	.0	62.4	100.0

DECEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	1.0	2.0	2.4	.7	.4	.0	81	6.4	14.4	7.1	3.3	4.2	6.7	5.3	2.7	7.4	8.1								
NNE	.3	1.1	1.2	1.8	.4	.0	60	4.8	19.0	4.2	23.3	3.5	4.8	3.6	2.7	5.4	4.9								
NE	.4	2.5	2.6	2.7	.4	.0	109	8.7	17.3	8.9	3.3	7.0	10.6	6.5	8.1	8.1	10.8								
ENE	.1	1.9	1.4	.9	.3	.0	58	4.6	16.1	5.0	.0	5.6	3.8	3.0	5.4	5.4	5.4								
E	.3	2.0	4.3	1.2	1.2	.0	113	9.0	18.3	9.5	6.7	9.8	12.0	9.5	8.1	6.1	6.5								
ESE	.3	.5	1.9	.7	.5	.0	49	3.9	18.6	5.3	6.7	2.8	4.3	2.4	5.4	2.0	3.8								
SE	.4	1.7	2.5	1.4	1.0	.0	88	7.0	19.3	7.4	.0	9.1	6.7	3.6	.0	5.4	11.9								
SSE	.1	.6	1.7	1.0	.6	.1	49	3.9	21.3	3.3	.0	4.2	3.4	5.9	10.8	5.4	1.6								
S	.4	1.8	1.8	.6	.6	.2	68	5.4	16.7	6.5	.0	9.8	4.3	4.1	10.8	4.7	2.7								
SSW	.4	.8	.9	1.4	.6	.0	50	4.0	19.5	4.2	6.7	2.8	5.8	3.0	2.7	4.1	3.2								
SW	.5	2.5	1.9	1.8	1.0	.1	97	7.7	17.9	8.3	10.0	5.6	6.7	8.3	2.7	4.1	12.4								
WSW	.2	1.8	2.1	2.4	.3	.2	89	7.1	19.9	8.3	3.3	7.0	5.3	8.3	10.8	6.8	5.9								
W	.6	3.1	3.2	2.5	1.4	.4	142	11.3	19.5	10.7	10.0	11.2	11.1	14.8	16.2	12.8	7.6								
WNW	.2	1.3	1.9	1.4	.2	.2	64	5.1	18.7	3.0	16.7	4.9	4.3	8.3	8.1	6.1	3.8								
NW	.2	1.6	2.5	.6	.4	.0	67	5.3	15.1	2.4	6.7	7.0	6.7	5.3	.0	7.4	7.0								
NNW	.1	1.5	1.6	.8	.2	.0	53	4.2	16.2	3.9	3.3	4.2	3.4	6.5	5.4	6.1	2.2								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	1.6	335	427	274	119	14	20	1.6	.0	2.1	.0	1.4	.0	1.8	.0	2.7	2.2								
TOT OBS	88	26.7	34.0	21.8	9.5	1.1	1257	100.0	17.8	337	30	143	208	169	37	148	185								
TOT PCT	7.0	26.7	34.0	21.8	9.5	1.1	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)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY HOUR											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	2.5	3.8	2.8	2.0	.2	141	11.2	16.3	11.3	26.7	7.7	11.5	8.9	5.4	12.8	13.0									
NE	2.3	5.0	3.7	2.2	.1	167	13.3	16.9	13.9	3.3	12.6	14.4	9.5	13.5	13.5	16.2									
E	1.8	4.1	4.8	1.9	.2	162	12.9	18.4	14.8	13.3	12.6	16.3	11.8	13.5	8.1	10.3									
SE	1.5	3.3	3.0	2.5	.6	137	10.9	20.0	10.7	.0	13.3	10.1	9.5	10.8	10.8	13.5									
S	1.8	3.6	1.8	2.0	.3	118	9.4	17.9	10.7	6.7	12.6	10.1	7.1	13.5	8.8	5.9									
SW	2.5	4.2	4.8	2.5	.7	186	14.8	18.9	16.6	13.3	12.6	12.0	16.6	13.5	10.8	18.4									
W	2.1	5.7	4.8	2.8	1.0	206	16.4	19.3	13.6	26.7	16.1	15.4	23.1	24.3	18.9	11.4									
NW	1.4	4.6	2.4	.9	.2	120	9.5	15.6	6.2	10.0	11.2	10.1	11.8	5.4	13.5	9.2									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	1.6	432	351	211	43	20	1.6	.0	2.1	.0	1.4	.0	1.8	.0	2.7	2.2									
TOT OBS	220	34.4	27.9	16.8	3.4	1257	100.0	17.8	337	30	143	208	169	37	148	185									
TOT PCT	17.5	34.4	27.9	16.8	3.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0									

DECEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										TOTAL OBS	
	0003	0609	1215	1821	TOT	PCT	0003	0609	1215	1821		TOT
0-3	4.1	7.7	1.0	7.2	68	5.4	4.1	7.7	1.0	7.2	68	367
4-10	25.3	29.6	18.4	30.0	335	26.7	25.3	29.6	18.4	30.0	335	351
11-21	34.9	30.2	39.3	33.6	427	34.0	34.9	30.2	39.3	33.6	427	206
22-33	22.3	19.4	28.2	19.8	274	21.8	22.3	19.4	28.2	19.8	274	333
34-47	10.6	11.1	9.7	6.3	119	9.5	10.6	11.1	9.7	6.3	119	1257
48+	.8	1.4	1.9	1.4	14	1.6	.8	1.4	1.9	1.4	14	
MEAN	18.2	17.4	20.4	16.0	17.8		18.2	17.4	20.4	16.0	17.8	
PCT FREQ	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8	8	8	8	8		
N	.0	.6	3.0	1.9	26	6.6				
NNE	.8	.4	.8	2.1	21	5.5				
NE	.4	.4	2.1	3.2	29	6.7				
ENE	.0	.4	1.1	3.2	22	7.3				
E	.6	.6	1.5	4.2	33	6.5				
ESE	.0	.0	.0	1.7	8	8.0				
SE	.0	.4	1.1	3.4	23	7.3				
SSE	.6	.2	.6	3.2	22	6.7				
S	.4	.4	1.5	4.0	30	6.9				
SSW	.8	.6	2.1	1.5	24	5.5				
SW	.8	1.5	3.2	2.8	39	5.5				
WSW	2.2	1.5	1.7	2.3	37	4.9				
W	3.0	2.5	4.2	4.5	67	5.2				
WNW	1.1	1.1	2.5	1.7	30	5.3				
NW	1.1	1.1	2.1	1.5	27	5.3				
NNW	.2	1.7	1.5	1.5	23	5.7				
VAR	.0	.0	.0	.0	0	.0				
CALM	1.5	.0	.4	.2	10	2.2				
TOT OBS	65	65	139	202	471	5.9				
TOT PCT	13.8	13.8	29.5	42.9	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT>NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS					
	000	149	150	299	300	599	600	999	3500	4999		5000	6499	7999	8000+	NH <5/8
N	.6	.0	.0	.6	1.1	1.1	.4	.2	.4	.4	.0	.0	.0	.0	1.1	26
NNE	.4	.0	.0	.2	.8	.8	.4	.6	.4	.4	.0	.0	.0	.0	1.5	21
NE	.4	.0	.0	.4	.4	.4	.4	.6	.4	.4	.0	.0	.0	.0	1.1	29
ENE	.2	.0	.0	.2	1.1	1.9	.4	.2	.4	.4	.0	.0	.0	.0	.6	22
E	.6	.0	.0	.8	1.1	1.3	1.1	.6	.4	.4	.0	.0	.0	.0	1.5	33
ESE	.2	.0	.0	.4	.0	.6	.4	.0	.4	.4	.0	.0	.0	.0	.0	8
SE	.8	.0	.0	.0	1.7	.6	.4	.2	.4	.4	.0	.0	.0	.0	.8	23
SSE	.6	.0	.0	.4	1.1	1.3	.2	.2	.2	.2	.0	.0	.0	.0	.8	22
S	.6	.0	.0	.6	1.9	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.8	30
SSW	.2	.0	.0	.8	.4	.4	1.3	.0	.0	.0	.0	.0	.0	.0	1.9	24
SW	.6	.0	.0	.4	1.9	1.3	.8	.0	.0	.0	.0	.0	.0	.0	3.2	39
WSW	.4	.0	.0	.0	.4	1.1	1.5	.2	.0	.0	.0	.0	.0	.0	4.2	37
W	.4	.0	.0	.2	2.5	2.1	1.3	.6	.2	.2	.0	.0	.0	.0	6.8	67
WNW	.4	.2	.0	.0	.8	2.1	.4	.0	.0	.0	.0	.0	.0	.0	2.3	30
NW	.2	.0	.0	.2	.0	2.1	.8	.0	.0	.0	.0	.0	.0	.0	2.3	27
NNW	.0	.0	.0	.0	1.3	1.1	.2	.2	.0	.0	.0	.0	.0	.0	2.1	23
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.5	10
TOT OBS	33	1	1	26	79	112	49	15	2	2	0	0	0	0	154	471
TOT PCT	7.0	.2	.2	5.5	16.8	23.8	10.4	3.2	.4	.4	.0	.0	.0	.0	32.7	100.0

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

DECEMBER

AREA 0009 ADAK  
51-55N 172-180W

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	.4	.4	.4	.4	.4	.4	.4
OR >3500	1.7	3.0	3.0	3.2	3.2	3.6	3.6	3.6
OR >2000	6.8	12.3	13.0	13.2	13.2	13.6	13.8	13.8
OR >1000	20.6	33.4	36.4	37.0	37.0	37.4	37.7	37.7
OR >600	27.9	47.0	52.1	53.8	53.8	54.3	54.5	54.5
OR >300	29.8	50.0	57.0	59.1	59.4	59.8	60.0	60.0
OR >150	29.8	50.0	57.2	59.4	59.6	60.0	60.2	60.2
OR > 0	30.0	51.3	60.4	64.0	66.0	66.4	67.0	67.2
TOTAL	141	241	284	301	310	312	315	316

TOTAL NUMBER OF OBS: 470 PCT FREQ NH <5/8: 32.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	5.5	2.4	8.3	7.1	8.1	7.3	9.9	11.9	37.5	6.9
										505

DECEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 000Y ADAK  
51-55N 172-130W

TABLE 8

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

VSBY (NM)	PCP ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	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
1<2	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
5<10	0	0	0	0	0	0	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	0	0	0	0	0	0
TOTAL	48	34	57	35	33	75	46	31	40	66	90	44	44	40	11	798	100.0	0	0	0	0
PCT	6.0	4.3	7.1	4.4	4.1	9.4	5.8	3.9	6.1	8.3	11.3	5.9	5.5	5.0	1.4	100.0	0	0	0	0	0

DECEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.6
	22+	.0	.0	.1	.0	.0	.2	.1	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	10	.8
	TOTAL	0	0	1	1	0	4	1	0	1	2	2	1	1	2	0	2	0	0	18	1.4
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	3	.2
	4-10	.0	.0	.2	.0	.1	.1	.1	.0	.0	.0	.2	.0	.0	.0	.1	.1	.0	.0	10	.8
	11-21	.1	.0	.2	.0	.2	.1	.1	.2	.0	.0	.2	.1	.1	.0	.0	.1	.0	.0	18	1.4
	22+	.0	.1	.2	.0	.2	.0	.2	.1	.0	.3	.0	.0	.2	.0	.1	.0	.0	.0	19	1.5
	TOTAL	1	1	7	0	6	4	5	3	2	2	4	6	2	3	1	3	2	0	50	4.0
1<2	0-3	.4	.1	.0	.0	.0	.0	.0	.0	.1	.2	.2	.0	.1	.0	.1	.0	.0	.0	14	1.1
	4-10	.4	.1	.3	.4	.1	.1	.1	.1	.2	.2	.2	.2	.1	.0	.1	.0	.0	.0	31	2.5
	11-21	.1	.2	.2	.1	.2	.2	.3	.2	.1	.0	.2	.2	.1	.0	.0	.1	.0	.0	23	1.8
	22+	.0	.3	.4	.3	.2	.2	.4	.2	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	38	3.0
	TOTAL	11	8	12	9	6	5	10	10	8	5	6	10	8	4	3	2	1	0	106	8.5
2<5	0-3	.3	.0	.2	.0	.2	.0	.2	.1	.0	.0	.1	.1	.2	.1	.1	.0	.0	.0	19	1.5
	4-10	.6	.2	.4	.3	.6	.0	.5	.1	.2	.2	.7	.2	.5	.2	.5	.2	.0	.0	67	5.4
	11-21	.2	.1	.6	.2	1.0	.2	.5	.3	.3	.1	.3	.1	.2	.1	.3	.0	.0	.0	54	4.3
	22+	.2	.3	.6	.2	.3	.6	.7	.3	.6	.3	.6	.5	.9	.2	.2	.1	.0	.0	82	6.6
	TOTAL	17	8	22	8	27	11	23	7	14	7	7	21	11	21	13	3	0	2	222	17.8
5<10	0-3	.1	.1	.1	.0	.0	.0	.1	.0	.2	.1	.1	.1	.3	.1	.0	.0	.0	.0	18	1.4
	4-10	.6	.2	.9	.6	.6	.1	.4	.2	.5	.2	.9	.9	1.0	.6	.4	.4	.0	.0	103	8.3
	11-21	1.0	.4	.6	.5	1.3	.9	1.2	.8	.7	.5	.6	.8	1.4	.9	.8	.6	.0	.0	162	13.0
	22+	.5	1.0	1.3	.3	.7	.2	1.0	1.0	.4	.8	.8	1.1	1.6	.6	.2	.5	.0	.0	151	12.1
	TOTAL	26	22	36	17	32	14	34	24	23	19	30	36	54	28	18	18	0	3	434	34.8
10+	0-3	.1	.2	.1	.1	.2	.2	.2	.0	.1	.2	.2	.0	.1	.0	.0	.1	.0	.0	32	2.6
	4-10	.4	.6	.7	.6	.6	.2	.6	.2	.7	.3	.6	.5	1.6	.5	.6	.9	.0	.0	121	9.7
	11-21	1.0	.6	1.0	.7	1.6	.5	.4	.4	.6	.2	.6	.9	1.3	.8	1.3	.9	.0	.0	159	12.7
	22+	.4	.4	.6	.4	.6	.2	.1	.1	.2	.2	1.0	1.1	1.5	.7	.5	.5	.0	.0	106	8.5
	TOTAL	24	21	29	23	38	13	16	9	21	11	11	31	56	25	29	29	0	14	418	33.5
TOTAL	79	60	107	58	113	48	88	49	67	49	97	7.8	89	140	64	67	53	0	20	1248	100.0
PCT	6.3	4.8	8.6	4.6	9.1	3.8	7.1	3.9	5.4	3.9	7.8	7.1	7.1	11.2	5.1	5.4	4.2	.0	1.6	100.0	

DECEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

AREA 0009 ADAK  
51-55N 172-180W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	7.6	.0	9.3	17.8	28.0	10.2	2.5	.8	.0	.0	76.3	23.7	118
06009	8.0	.9	3.5	17.7	16.8	8.0	3.5	.9	.0	.0	59.3	40.7	113
12015	6.8	.0	4.5	11.4	30.3	9.1	4.5	.0	.0	.0	66.7	33.3	132
18021	7.0	.0	4.3	20.0	17.4	13.9	1.7	.0	.0	.0	64.3	35.7	115
TOT	35	1	26	79	112	49	15	2	0	0	319	159	478
PCT	7.3	.2	5.4	16.5	23.4	10.3	3.1	.4	.0	.0	66.7	33.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL
(GMT)							OBS
00003	.9	2.6	2.6	12.1	21.6	60.3	116
06009	2.7	1.8	5.4	11.6	30.4	48.2	112
12015	1.6	2.3	3.9	7.8	27.9	56.6	129
18021	1.8	.9	2.7	9.7	31.9	53.1	113
TOT	8	9	17	48	131	257	470
PCT	1.7	1.9	3.6	10.2	27.9	54.7	100.0

TABLE 12

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

HR	< 150	< 600	< 1000	1000+	NH < 5/8	TOTAL
(GMT)	< 50YD	< 1	< 5	AND 5+	AND 5+	OBS
00003	6.9	16.4	37.1	38.8	24.1	116
06009	7.1	13.4	38.4	24.1	37.5	112
12015	7.8	13.2	28.7	41.1	30.2	129
18021	7.1	12.4	38.1	28.3	33.6	113
TOT	34	65	166	157	147	470
PCT	7.2	13.8	35.3	33.4	31.3	100.0

DECEMBER

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

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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
50/54	.0	.0	.0	.0	.1	.0	.1	.0	2	.2
45/49	.0	.0	.1	.0	.5	1.2	1.2	1.0	37	3.9
40/44	.0	.0	.0	.1	2.6	6.3	7.0	10.9	254	27.1
35/39	.0	.0	.0	.1	1.4	5.3	7.7	12.1	475	50.7
30/34	.0	.0	.0	.0	1.2	3.6	5.4	6.5	157	16.8
25/29	.0	.0	.0	.0	.0	.3	.1	.9	12	1.3
TOTAL	.0	.0	.3	1.5	9.1	17.9	24.5	40.6	937	100.0
PCT	.0	.0	.3	1.6	9.7	19.1	25.9	43.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
45/49	.3	.3	.4	.3	.9	.6	.4	.3	.0	.3
40/44	1.4	3.0	4.9	5.8	3.9	3.9	3.1	.5	.0	.5
35/39	6.2	7.2	8.1	4.9	3.3	8.8	7.2	4.5	.0	.6
30/34	4.2	3.6	.3	.6	.7	1.2	2.5	3.2	.0	.4
25/29	.5	.3	.0	.0	.0	.1	.0	.3	.0	.0
TOTAL	11.8	13.5	12.9	10.9	8.3	13.7	12.3	8.4	.0	1.9
PCT	12.6	14.4	13.8	11.6	8.9	14.6	13.1	9.0	.0	2.0

TABLE 15

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

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0003	50	48	44	38	32	29	28	38.2	365
0609	50	48	44	38	31	30	27	37.7	349
1215	47	45	43	37	32	27	25	37.2	206
1821	47	45	44	37	31	28	28	37.3	335
TOT	50	47	44	37	32	29	25	37.7	1255

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0003	.0	2.9	9.0	18.3	27.2	42.7	84	279
0609	.0	.7	9.5	19.0	26.0	44.7	85	273
1215	.0	1.6	10.2	22.8	29.9	35.4	83	127
1821	.0	2.3	10.3	18.3	22.1	46.9	85	262
TOT	0	18	91	180	243	409	85	941

PERIOD: (PRIMARY) 1942-1969  
(OVER-ALL) 1900-1969

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TABLE 17

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

AIR-SEA TMP DIF	25	29	33	37	41	45	49	TOT	W	MO
	28	32	36	40	44	48	52	FOG	FOG	FOG
9/10	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.0	.5	.0	3	.0	.5
6	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.2	.2	.3	.0	4	.0	.6
4	.0	.0	.2	.3	.9	.5	.0	12	.0	1.8
3	.0	.0	.2	.2	2.0	.8	.0	20	.2	2.9
2	.0	.0	.2	.9	3.0	.2	.0	28	.3	4.0
1	.0	.0	.3	2.0	2.3	.0	.0	30	.3	4.3
0	.0	.0	.9	4.6	3.0	.2	.0	57	.3	8.4
-1	.0	.2	.3	6.9	1.5	.0	.0	58	.5	8.4
-2	.0	.0	2.1	8.7	1.1	.2	.0	79	.2	11.9
-3	.0	.0	1.7	6.3	1.2	.0	.0	60	.5	8.7
-4	.0	1.2	6.7	7.0	.6	.0	.0	102	.0	15.5
-5	.0	.5	4.6	2.6	.3	.0	.0	52	.0	7.9
-6	.0	.5	3.8	2.3	.0	.0	.0	43	.0	6.6
-7/-8	.0	1.4	5.9	3.4	.0	.0	.0	70	.0	10.7
-9/-10	.2	1.5	1.7	.2	.0	.0	.0	23	.0	3.5
-11/-13	.3	1.2	.2	.0	.0	.0	.0	11	.0	1.7
-14/-16	.2	.2	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	4	43	188	298	106	16	1	656	14	642
PCT	.6	6.6	28.7	45.4	16.2	2.4	.2	100.0	2.1	97.9

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969

DECEMBER

TABLE 18

AREA 0009 ADAK  
 51-55N 172-180W

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

HGT	N					NE					TOTAL		
	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	.7	.0	.0	.0	.0	1
1-2	.0	1.3	.7	.0	.0	.0	.0	.7	1.3	.0	.0	.0	3
3-4	.0	.0	1.3	.0	.0	.0	.0	2.0	2.0	.7	.0	.0	7
5-6	.0	.0	1.3	.7	.0	.0	.0	.7	3.9	.0	.0	.0	7
7	.0	.0	2.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	2
8-9	.0	.0	.0	.7	.0	.0	.0	.0	.7	.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	.7	.0	1
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
TOTAL	0	2	8	2	0	0	1	6	13	1	1	0	22
PCT	.0	1.3	5.3	1.3	.0	.0	.7	3.9	8.6	.7	.7	.0	14.5

HGT	E					SE					TOTAL		
	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	.7	2.0	.0	.0	.0	.0	1.3	.7	.0	.0	.0	3
3-4	.0	.7	.0	.7	.0	.0	.0	1.3	2.0	.0	.0	.0	5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	2
7	.0	.7	2.6	2.0	.7	.0	.0	.0	.0	.0	.0	.0	2
8-9	.0	.0	.0	2.0	.0	.0	.0	.0	.0	1.3	.0	.0	2
10-11	.0	.0	.0	.0	.7	.0	.0	.0	.7	.7	.0	.0	2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	2
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
TOTAL	0	3	7	7	2	0	1	4	7	6	3	0	20
PCT	.0	2.0	4.6	4.6	1.3	.0	.7	2.6	4.6	3.9	2.0	.0	13.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

DECEMBER  
TABLE 18

AREA 0009 ADAK  
51-55N 172-180W

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	0	.0	1.3	.0	.0	.0	.0	2							
1-2	.0	3.3	.0	.0	.0	.0	5	.0	.7	.0	.0	.0	.0	1							
3-4	.0	.7	2.0	.7	.0	.0	5	.0	1.3	.7	.0	.0	.0	3							
5-6	.0	2.0	2.0	.0	.0	.0	6	.0	.0	2.0	.0	.0	.0	3							
7	.0	.0	.0	.7	1.3	.0	3	.0	.0	.0	.7	.0	.0	1							
8-9	.0	.0	.0	.7	.0	.0	1	.0	.0	.0	.7	.0	.0	1							
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
12	.0	.0	.0	.7	.7	.0	2	.0	.0	.0	.7	.0	.0	1							
13-16	.0	.0	.0	.7	.0	.0	1	.0	.0	.0	.0	1.3	.0	2							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	1							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
51-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	9	6	3.9	5	3	23	0	5	4	2.6	2	1	15							
PCT	.0	5.9	3.9	3.3	2.0	.0	15.1	.0	3.3	2.6	2.0	1.3	.7	9.9							

HGT	NW										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.0	.0	.0	.0	.0	.0	0	.0	.7	.0	.0	.0	.0	1							
1-2	.0	.0	.7	.0	.0	.0	1	.0	.7	.7	.0	.0	.0	2							
3-4	.0	2.0	1.3	1.3	.0	.0	7	.0	2.0	.0	.0	.0	.0	3							
5-6	.0	.7	2.0	.7	.0	.0	5	.0	.0	1.3	.0	.0	.0	2							
7	.0	.0	.0	.7	.7	.0	3	.0	.0	2.0	2.0	.0	.0	6							
8-9	.0	.0	1.3	1.3	.0	.0	5	.0	.0	.0	.7	.0	.0	1							
10-11	.0	.0	.0	.7	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
51-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	0	9	6	3.9	5	3	23	0	5	4	2.6	2	1	15							
PCT	.0	5.9	3.9	3.3	2.0	.0	15.1	.0	3.3	2.6	2.0	1.3	.7	9.9							

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

DECEMBER

AREA 0009 ADAK  
51-55N 172-180W

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS	
	0-3	4-10	11-21	22-33	34-47	48+						
<1	.7	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
1-2	.0	8.5	5.9	.0	.0	.0	.0	.0	.0	.0	.0	22
3-4	.0	9.8	9.2	3.3	.0	.0	.0	.0	.0	.0	.0	34
5-6	.0	3.3	13.1	2.0	.0	.0	.0	.0	.0	.0	.0	28
7	.7	.7	7.2	5.9	2.6	.7	.0	.0	.0	.0	.0	27
8-9	.0	.0	2.0	7.2	.7	.0	.0	.0	.0	.0	.0	15
10-11	.0	.0	.7	1.3	.7	.7	.0	.0	.0	.0	.0	5
12	.0	.0	.0	2.0	.7	.0	.0	.0	.0	.0	.0	4
13-16	.0	.0	.0	.7	3.9	.0	.0	.0	.0	.0	.0	7
17-19	.0	.0	.7	.0	1.3	.7	.0	.0	.0	.0	.0	4
20-22	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	2
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
TOTAL	2	38	59	36	15	3	153					
PCT	1.3	24.8	58.6	23.5	9.8	2.0	100.0					

TABLE 19

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	.6	5.2	6.4	4.0	1.2	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	3	
6-7	.0	1.2	5.2	9.2	6.9	3.5	1.7	.6	.6	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	6
8-9	.0	.0	.6	2.9	6.9	2.9	2.3	.6	1.2	1.7	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	9
10-11	.0	.0	.0	1.7	1.2	.6	2.3	1.7	.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	10
12-13	.0	.0	.0	.6	.6	.6	.6	.6	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	11
>13	.0	.0	.0	.0	1.7	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	12
INDET	6.9	1.7	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	2
TOTAL	13	14	21	32	31	15	17	6	11	6	7	0	0	0	0	0	0	0	0	0	0	0	0	173	7
PCT	7.5	8.1	12.1	18.5	17.9	8.7	9.8	3.5	6.4	3.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1934-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		RAIN SHWR		DRZL		PRECIPITATION TYPE			HAIL		PCPN AT		TOTAL		THDR		OTHER WEATHER PHENOMENA				TOTAL OBS					
	DIR	SHWR	SHWR	SHWR	SHWR	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	FOG	SMOKE	DUST		NO	SIG	BLWG	SNOW	WEA
N	.4	.1	.3	.5	.3	*	.0	.4	.0	*	.1	1.2	209	*	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1045
NNE	.3	.1	.2	.4	.2	.0	.0	.4	.0	*	*	.8	143	.0	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	570
NE	.5	.1	.5	.4	.5	.0	.0	.4	.0	*	*	1.4	234	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	822
ENE	.5	*	.4	.3	.4	.0	.0	.3	.0	*	*	1.1	187	.0	.4	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	630
E	.8	*	.6	.5	.6	.0	.0	.5	.0	*	*	1.9	323	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1084
ESE	.6	*	.4	.2	.4	.0	.0	.2	.0	*	*	1.2	205	.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	676
SE	1.2	.1	.7	.3	.7	.0	.0	.3	.0	*	*	2.2	367	.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1037
SSE	.9	*	.6	.1	.6	.0	.0	.1	.0	.C	.C	1.5	251	.0	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	815
S	1.2	.1	.9	.1	.9	.0	.0	.1	.0	*	*	2.2	366	.0	1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1384
SSW	.7	.1	.6	.1	.6	.0	.0	.1	.0	*	*	1.4	237	.0	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	924
SW	.9	.1	.7	.2	.7	.0	.0	.2	.0	*	*	1.9	328	.0	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1388
WSW	.5	.2	.5	.4	.5	.0	.0	.4	.0	*	*	1.6	264	.0	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1384
W	.5	.2	.6	.5	.6	.0	.0	.5	.0	.1	.1	1.8	305	.0	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2066
WNW	.3	.1	.2	.3	.2	.0	.0	.3	.0	*	*	.7	125	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	883
NW	.3	.1	.2	.4	.2	.0	.0	.4	.0	*	*	1.1	179	.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1071
NNW	.1	*	.2	.3	.2	.0	.0	.3	.0	*	*	.7	118	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	753
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	.1	*	.1	*	.1	.0	.0	*	.0	.0	.0	.2	41	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	345
TOT OBS	1620	227	1301	846	1301	3	846	5	5	64	64	23.0	3880	12	2290	257	10	10428	10	10428	10	10428	10	10428	10	10428	16877
TOT PCT	9.6	1.3	7.7	5.0	7.7	*	5.0	*	*	.4	.4	23.0	3880	.1	13.6	1.5	.1	61.8	.1	61.8	.1	61.8	.1	61.8	.1	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		RAIN SHWR		DRZL		PRECIPITATION TYPE			HAIL		PCPN AT		TOTAL		THDR		OTHER WEATHER PHENOMENA				TOTAL OBS					
	DIR	SHWR	SHWR	SHWR	SHWR	PCPN	FRZG	SNOW	OTHER	FRZN	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	PCPN	FOG	SMOKE	DUST		NO	SIG	BLWG	SNOW	WEA
0000	9.4	1.8	6.7	6.0	6.7	*	.0	.1	.0	*	.4	23.0	1078	*	14.4	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4680
0600	9.8	.9	7.9	5.1	7.9	.0	.0	.1	.0	.3	.3	23.2	976	.1	14.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4214
1200	7.9	1.5	6.8	3.5	6.8	*	.0	.1	.0	.6	.6	19.1	761	.1	10.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3993
1800	11.1	1.2	9.5	5.2	9.5	.0	.0	.2	.0	.3	.3	26.3	1095	*	15.2	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4170
TOT	1631	231	1312	853	1312	3	853	5	5	64	64	22.9	3910	12	2318	259	10	10548	10	10548	10	10548	10	10548	10	10548	17057
PCT	9.6	1.4	7.7	5.0	7.7	*	5.0	*	*	.4	.4	22.9	3910	.1	13.6	1.5	.1	61.8	.1	61.8	.1	61.8	.1	61.8	.1	100.0	

ANNUAL

PERIOD: (PRIMARY) 1934-1970  
(OVER-ALL) 1899-1970

AREA 0009 ADAK  
51-55N 172-180W

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.4	2.2	2.3	.9	.2	*	1456	6.1	14.5	5.8	4.1	6.6	6.1	6.6	6.6	6.6	6.2								
NNE	.2	1.3	1.4	.6	.2	*	862	3.6	14.9	4.0	3.8	3.9	3.8	3.0	3.8	3.8	3.0								
NE	.5	2.1	2.0	.8	.2	*	1338	5.6	13.8	5.9	4.2	4.7	8.4	4.6	4.7	4.2	7.3								
ENE	.2	1.2	1.3	.6	.2	*	855	3.6	15.0	3.7	3.5	3.8	3.5	3.4	4.1	3.5	3.3								
E	.4	2.1	2.2	1.1	.3	*	1482	6.2	15.5	6.8	5.7	6.2	6.4	6.0	5.2	5.8	6.2								
ESE	.2	.9	1.6	.7	.2	*	855	3.6	15.2	3.9	4.5	3.7	3.3	3.1	5.3	3.0	3.4								
SE	.4	1.8	2.4	1.0	.3	.1	1431	6.0	15.8	5.6	6.9	5.6	6.5	5.6	6.0	5.7	7.2								
SSE	.2	1.2	1.8	.8	.3	*	1041	4.4	16.9	4.0	4.3	4.4	3.9	5.0	5.5	5.0	3.8								
S	.4	2.3	3.2	1.4	.3	.1	1809	7.2	15.7	7.4	8.0	8.5	7.2	9.0	8.0	6.7	6.7								
SSW	.2	1.5	2.3	1.1	.2	*	1269	5.3	16.4	5.3	4.6	5.5	4.9	5.5	6.3	6.0	4.5								
SW	.5	3.0	3.7	1.4	.3	*	2166	9.1	14.9	8.9	12.0	7.8	9.1	8.7	8.7	8.4	11.2								
WSW	.4	2.2	3.4	1.6	.4	.1	1924	8.1	16.8	8.2	9.0	7.6	8.0	8.9	9.0	7.5	7.5								
W	.6	3.7	4.7	2.1	.5	.1	2785	11.7	15.8	11.9	10.6	12.1	10.2	12.5	10.9	13.3	10.2								
WNW	.2	1.5	2.1	1.0	.2	.1	1216	5.1	16.5	4.6	5.2	5.9	4.8	6.3	5.8	5.2	3.8								
NW	.5	2.4	2.7	1.2	.3	*	1698	7.1	14.9	7.3	8.2	7.1	7.3	6.3	5.3	6.9	8.1								
NNW	.2	1.5	1.8	.8	.2	*	1066	4.5	15.1	4.4	4.7	4.6	3.9	4.7	5.3	5.0	3.7								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	2.4	7383	9294	4074	1027	161	572	2.4	.0	2.3	.8	2.2	2.8	2.6	.9	2.0	4.0								
TOT OBS	1885	7383	9294	4074	1027	161	23824	100.0	15.2	5712	1152	3412	2837	3533	1043	3216	2919								
TOT PCT	7.9	31.0	39.0	17.1	4.3	.7	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	WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	2.0	4.3	2.5	.8	.2	2318	9.7	14.7	9.9	7.9	10.5	9.8	9.6	8.1	10.4	9.2									
NE	2.2	3.9	2.1	.8	.1	2193	9.2	14.3	9.6	7.6	8.4	11.8	8.0	8.8	7.7	10.6									
E	1.8	4.1	2.7	1.0	.2	2337	9.8	15.7	10.7	10.2	9.8	9.7	9.1	10.5	8.8	9.6									
SE	1.9	4.3	2.8	1.1	.3	2472	10.4	16.3	9.6	11.2	10.0	10.4	10.5	11.5	10.7	11.0									
S	2.1	5.5	3.8	1.3	.2	3077	12.9	16.0	12.6	12.6	14.0	12.1	12.7	15.3	14.0	11.2									
SW	3.0	7.3	4.9	1.7	.3	4090	17.2	15.8	17.0	21.0	15.4	17.1	17.6	17.7	15.9	18.7									
W	2.8	7.2	4.7	1.7	.3	4001	16.8	16.0	16.5	15.8	18.0	15.0	18.7	16.7	18.5	14.0									
NW	2.3	5.1	2.8	1.2	.1	2764	11.6	15.0	11.7	12.8	11.7	11.3	11.0	10.5	12.0	11.8									
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	2.4	9957	6287	2317	405	572	2.4	.0	2.3	.8	2.2	2.8	2.6	.9	2.0	4.0									
TOT OBS	4858	9957	6287	2317	405	23824	100.0	15.2	5712	1152	3412	2837	3533	1043	3216	2919									
TOT PCT	20.4	41.8	26.4	9.7	1.7	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)

WIND DIR	HOUR	WIND SPEED (KNOTS)					PCT TOTAL
		1-3	4-10	11-21	22-33	34-47	
	0003	5.8	30.9	38.4	17.3	4.7	9
	0609	5.9	31.9	38.2	16.6	4.3	6
	1215	3.8	27.3	42.1	19.0	4.9	6
	1821	6.0	32.9	38.2	15.9	3.5	5
	TOT	1313	7583	9294	4074	1027	161
	PCT	5.5	31.0	39.0	17.1	4.3	.7
							2.4
							100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	TOTAL OBS	000	149	150	
N	.3	.3	2.1	3.5	762	6.9	.5	.1	.3
NNE	.2	.2	.9	2.2	430	6.9	.3	.1	.6
NE	.3	.2	.9	3.1	547	7.0	.5	.2	.7
ENE	.2	.1	.6	2.7	438	7.3	.4	.2	.5
E	.2	.2	1.0	5.0	785	7.4	1.1	.3	.9
ESE	.2	.1	.6	2.9	459	7.3	.6	.3	.4
SE	.1	.2	1.2	4.2	692	7.4	1.0	.4	.8
SSE	.1	.1	.7	3.8	581	7.4	1.0	.3	.7
S	.2	.3	1.5	6.5	1048	7.4	2.0	.6	1.3
SSW	.2	.3	1.1	4.0	697	7.2	1.1	.9	2.1
SW	.4	.5	1.8	5.1	956	7.0	1.3	1.5	1.5
WSW	.6	.7	1.9	4.6	965	6.7	1.0	1.2	1.8
W	.9	1.6	3.6	6.7	1570	6.5	1.1	1.9	3.3
WNW	.5	.7	1.9	2.8	714	6.4	.3	.9	1.8
NW	.4	.6	2.3	3.2	797	6.6	.4	.8	2.1
NNW	.3	.4	1.8	2.3	588	6.6	.2	.6	1.5
VAR	.0	.0	.0	.0	0	.0	.0	.0	.0
CALM	.2	.1	.4	1.3	247	6.7	.4	.3	.5
TOT OBS	659	805	2970	7842	12276	7.0	1639	155	3401
TOT PCT	5.4	6.6	24.2	63.9	100.0		13.4	1.3	17.46

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS	
	000	149	150	299	300	599	600	999	1000	2000			
N	.5	.1	.1	.3	.3	.8	1.9	1.1	.2	.2	.1	.1	762
NNE	.3	.1	.1	.2	.2	.6	1.1	.6	.1	.1	.1	.1	430
NE	.5	.1	.1	.3	.3	.7	1.3	.7	.1	.1	.1	.1	547
ENE	.4	.1	.1	.2	.2	.5	1.1	.7	.1	.1	.1	.1	438
E	1.1	.1	.1	.3	.3	.9	1.9	.9	.3	.1	.1	.1	785
ESE	.6	.1	.1	.3	.3	.4	1.1	.6	.1	.1	.1	.1	459
SE	1.0	.1	.1	.4	.4	.8	1.6	.7	.2	.2	.2	.2	692
SSE	1.0	.1	.1	.3	.3	.7	1.3	.6	.1	.1	.1	.1	581
S	2.0	.1	.1	.6	.6	1.4	2.1	.9	.2	.2	.2	.2	1048
SSW	1.1	.1	.1	.3	.3	1.0	1.5	.7	.1	.1	.1	.1	697
SW	1.3	.1	.1	.4	.4	1.0	1.8	.9	.2	.2	.2	.2	956
WSW	1.0	.1	.1	.3	.3	1.2	1.9	.9	.3	.1	.1	.1	965
W	1.1	.1	.1	.5	.5	2.0	3.3	1.9	.3	.1	.1	.1	1570
WNW	.3	.1	.1	.3	.3	.9	1.8	.7	.2	.2	.2	.2	714
NW	.4	.1	.1	.2	.2	.8	2.1	1.1	.2	.2	.2	.2	797
NNW	.2	.1	.1	.2	.2	.6	1.5	.8	.2	.2	.2	.2	588
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.4	.1	.3	1.3	2.47	6.7	.5	.3	.1	.1	.1	.1	247
TOT OBS	1639	155	597	1857	3401	1746	395	395	71	54	54	54	12276
TOT PCT	13.4	1.3	4.9	15.1	27.7	14.2	3.2	3.2	.6	.4	.4	.4	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.4	.8	.9	.9	.9	.9	.9	.9
OR >5000	.7	1.4	1.5	1.5	1.5	1.5	1.5	1.5
OR >3500	2.6	4.3	4.6	4.7	4.7	4.7	4.8	4.8
OR >2000	9.9	16.6	18.2	18.7	18.8	18.9	19.0	19.0
OR >1000	23.0	39.5	44.3	45.9	46.3	46.5	46.7	46.7
OR >600	28.4	50.5	58.0	60.5	61.3	61.6	61.8	61.8
OR >300	29.4	53.3	61.7	64.8	65.8	66.4	66.6	66.7
OR >150	29.6	53.8	62.5	65.9	66.9	67.6	67.9	67.9
OR > 0	30.0	55.8	66.3	71.2	74.3	77.7	80.9	81.2
TOTAL	3688	6859	8147	8751	9132	9548	9945	9982

TOTAL NUMBER OF OBS: 12296

PCT FREQ NH <5/8: 18.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	2.2	2.5	4.8	4.6	4.5	5.2	9.3	11.4	44.8	10.5 14077

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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		NNE		NE		ENE		E		ESE		SE		SSE		S		SSW		SW		WSW		W		WNW		NW		NNW		VAR		CALM		TOTAL		PCT	
	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP	PCP	NO PCP		
<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	.1	.2	.1	.2	.1	.2	.1	.2	.1	.2	.1	.2
	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3	.2	.3
	40	38	45	33	79	93	93	72	56	72	172	111	129	129	65	94	85	94	111	111	111	129	129	65	94	85	94	111	111	111	129	129	65	94	85	94	111	111	111	129
1/2<1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1
	31	18	37	37	57	54	64	40	40	89	89	58	78	78	59	72	72	59	58	58	58	78	72	59	72	72	59	58	58	58	72	72	59	72	72	59	72	72	59	72
1<2	.1	.1	.2	.2	.4	.2	.3	.2	.2	.4	.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
	.2	.1	.2	.2	.2	.1	.2	.1	.2	.4	.3	.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
	55	34	62	61	108	65	91	63	63	123	88	130	130	101	115	101	115	88	88	88	130	101	115	101	115	101	115	88	88	88	130	101	115	101	115	88	88	88	130	
2<5	.3	.2	.4	.3	.7	.4	.4	.4	.4	.6	.3	.5	.5	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
	.4	.2	.3	.3	.4	.4	.5	.3	.3	.7	.5	.7	.7	.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
	114	74	124	98	187	134	196	123	123	212	135	209	209	169	239	169	239	135	135	135	209	169	239	169	239	169	239	135	135	135	209	169	239	169	239	135	135	135	209	
5<10	.5	.3	.5	.4	.6	.5	.5	.3	.3	.7	.5	.6	.6	.6	.7	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	
	1.5	.8	1.0	.8	1.3	1.2	1.3	.8	.8	1.8	1.3	2.0	2.0	2.4	3.6	2.4	3.6	1.3	1.3	1.3	2.0	2.4	3.6	2.4	3.6	2.4	3.6	1.3	1.3	1.3	2.0	2.4	3.6	2.4	3.6	1.3	1.3	1.3	2.0	
	337	188	258	190	313	272	303	188	188	425	299	441	441	491	715	491	715	299	299	299	441	491	715	491	715	491	715	299	299	299	441	491	715	491	715	299	299	299	441	
10+	.1	.1	.1	.1	.2	.1	.1	.1	.1	.2	.1	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	
	2.6	1.2	1.6	1.1	1.5	1.1	2.0	1.2	1.2	2.0	1.2	2.2	2.2	2.5	4.7	2.5	4.7	1.2	1.2	1.2	2.2	2.5	4.7	2.5	4.7	2.5	4.7	1.2	1.2	1.2	2.2	2.5	4.7	2.5	4.7	1.2	1.2	1.2	2.2	
	459	213	285	207	286	195	348	205	205	357	226	393	393	457	837	457	837	226	226	226	393	457	837	457	837	457	837	226	226	226	393	457	837	457	837	226	226	226	393	
TOTAL	1036	565	811	626	1030	813	1378	675	675	1378	917	1380	1375	2059	885	1075	885	885	885	1375	1375	2059	885	1075	885	1075	885	885	885	1375	1375	2059	885	1075	885	1075	885	1075		
PCT	6.2	3.4	4.8	3.7	6.1	4.8	8.2	4.0	4.0	8.2	5.5	8.2	8.2	12.3	5.3	6.4	5.3	5.3	5.3	8.2	8.2	12.3	5.3	6.4	5.3	6.4	5.3	5.3	5.3	8.2	8.2	12.3	5.3	6.4	5.3	6.4	5.3	6.4		

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	.0	.3	171	.7
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.3	.2	.2	.1	.2	.1	.1	.1	.0	.0	479	2.0
	11-21	.1	.1	.1	.1	.1	.1	.1	.1	.4	.2	.2	.2	.2	.1	.1	.1	.0	.0	513	2.2
	22+	*	*	*	*	*	*	*	*	.1	.1	.1	.1	.1	*	*	*	.0	.0	184	.8
	TOTAL	49	41	47	36	77	57	84	94	192	125	134	95	107	38	64	43	0	64	1347	5.8
1/2<1	0-3	*	.0	*	*	*	*	*	.0	*	*	*	*	*	*	*	*	.0	.1	58	.2
	4-10	*	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	.1	*	.0	.0	246	1.1
	11-21	.1	*	.1	.1	.1	.1	.1	.1	.2	.2	.2	.1	.1	.1	*	*	.0	.0	342	1.5
	22+	*	*	*	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	*	*	.1	.0	.0	264	1.1
	TOTAL	36	22	50	42	81	44	60	56	98	70	91	83	69	25	37	34	0	12	910	3.9
1<2	0-3	*	*	*	*	*	*	*	*	*	*	.1	*	*	*	*	.0	.0	.2	132	.6
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.2	.2	.1	.1	*	.0	.0	450	1.9
	11-21	.1	.1	.1	.1	.1	.1	.2	.1	.2	.2	.3	.2	.3	.1	.1	.1	.0	.0	550	2.3
	22+	.1	.1	.1	.1	.2	.1	.2	.1	.2	.1	.2	.1	.1	.1	.1	*	.0	.0	438	1.9
	TOTAL	77	56	91	76	105	76	136	81	138	105	167	122	152	59	53	32	0	44	1570	6.7
2<5	0-3	.1	*	.1	*	.1	*	*	*	.1	*	.1	*	.1	*	*	*	.0	.3	256	1.1
	4-10	.2	.2	.3	.2	.3	.1	.3	.1	.2	.2	.4	.3	.4	.1	.2	.1	.0	.0	868	3.7
	11-21	.2	.1	.3	.2	.3	.3	.4	.3	.5	.3	.4	.4	.4	.1	.2	.1	.0	.0	1046	4.5
	22+	.2	.1	.2	.2	.3	.2	.3	.3	.4	.3	.3	.3	.4	.2	.2	.1	.0	.0	962	4.1
	TOTAL	164	112	194	136	248	154	242	160	258	173	290	235	320	115	163	94	0	74	3132	13.4
5<10	0-3	.1	.1	.1	.1	.1	*	.1	*	.1	*	.1	.1	.2	*	.2	.1	.0	.7	531	2.3
	4-10	.6	.4	.7	.4	.6	.3	.5	.4	.7	.5	1.1	.7	1.2	.5	.7	.4	.0	.0	2201	9.4
	11-21	.9	.5	.7	.4	.7	.5	.8	.7	1.1	.7	1.3	1.3	1.6	.7	.9	.6	.0	.0	3118	13.3
	22+	.5	.3	.4	.3	.4	.3	.5	.4	.6	.5	.6	.9	1.1	.5	.6	.4	.0	.0	1938	8.3
	TOTAL	485	285	430	268	435	243	433	357	573	412	752	691	952	398	567	345	0	162	7788	33.3
10+	0-3	.2	.1	.2	.1	.1	.1	.2	.1	.1	.1	.2	.1	.2	.1	.2	.1	.0	.9	684	2.9
	4-10	1.1	.6	.8	.5	.9	.4	.7	.4	.9	.5	1.1	.8	1.6	.7	1.2	.8	.0	.0	3026	12.9
	11-21	1.0	.6	.8	.5	.9	.5	.8	.5	.9	.7	1.2	1.2	2.1	1.1	1.4	.9	.0	.0	3560	15.2
	22+	.4	.2	.3	.2	.3	.1	.2	.2	.3	.2	.5	.7	1.0	.5	.5	.3	.0	.0	1391	5.9
	TOTAL	620	331	497	278	519	262	446	274	522	344	684	661	1152	572	790	499	0	210	8661	37.0
	TOTAL	1431	847	1309	836	1465	836	1401	1022	1781	1229	2118	1887	2752	1207	1674	1047	0	566	23408	100.0
	PCT	6.1	3.6	5.6	3.6	6.3	3.6	6.0	4.4	7.6	5.3	9.0	8.1	11.8	5.2	7.2	4.5	.0	2.4	100.0	

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	12.1	1.2	4.6	13.8	26.5	14.3	3.4	.8	.7	.4	77.9	22.1	3404
06009	12.0	1.4	4.6	15.3	27.7	13.5	3.5	.3	.3	.3	78.9	21.1	3182
12015	15.2	.9	4.4	13.6	27.2	13.7	2.6	.7	.3	.5	79.1	20.9	3059
18021	13.1	1.4	5.2	16.3	26.5	14.2	3.1	.5	.5	.5	81.2	18.8	3034
TOT	1656	155	599	1867	3419	1764	401	72	56	56	10045	2634	12679
PCT	13.1	1.2	4.7	14.7	27.0	13.9	3.2	.6	.4	.4	79.2	20.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	7.1	3.3	4.7	9.8	27.0	48.1	3262
06009	6.6	2.9	4.9	11.1	30.6	43.9	3083
12015	7.0	3.2	5.3	12.6	31.7	40.1	2999
18021	7.4	3.4	5.5	11.1	30.6	42.0	2952
TOT	866	390	624	1371	3680	5365	12296
PCT	7.0	3.2	5.1	11.1	29.9	43.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND	TOTAL OBS
00003	12.4	19.9	40.3	41.3	18.4	3262
06009	12.5	19.9	42.1	39.5	18.4	3083
12015	15.3	22.2	43.9	37.7	18.4	2999
18021	13.4	21.7	44.9	39.3	15.9	2952
TOT	1647	2568	5254	4856	2186	12296
PCT	13.4	20.9	42.7	39.5	17.8	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
65/69	.0	.0	.0	.0	.1	.1	.1	.1	14	.1
60/64	.0	.0	.0	.1	.1	.5	1.0	.8	57	.3
55/59	.0	.0	.1	.1	.5	1.2	5.1	6.9	426	2.6
50/54	.0	.0	.1	.1	.6	3.2	8.5	16.1	2266	13.8
45/49	.0	.0	.1	.2	1.4	3.6	6.8	13.8	4688	28.5
40/44	.0	.0	.1	.4	1.7	3.1	5.8	10.6	3553	21.6
35/39	.0	.0	.0	.1	.3	.9	2.2	2.7	1006	6.1
30/34	.0	.0	.0	.1	.1	.1	.2	.6	165	1.0
25/29	.0	.0	.0	.0	.0	.0	.0	.1	20	.1
20/24	.0	.0	.0	.0	.0	.0	.0	.1	20	.1
TOTAL	0	2	22	138	792	2093	4910	8476	16433	100.0
PCT	.0	.1	.8	4.6	12.7	29.9	51.6			

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	.2	.1	.1	.2	.5	.5	.6	.1	.0	.0
	.8	.8	.9	1.4	2.6	3.4	2.2	1.1	.0	.2
	2.5	2.4	2.8	2.9	3.9	5.3	4.0	2.9	.0	.6
	2.3	2.5	2.8	2.9	3.3	4.3	4.0	3.1	.0	.6
	2.4	2.3	2.5	2.3	2.1	3.3	3.5	2.9	.0	.3
	1.2	1.0	.5	.3	.3	.6	1.0	1.1	.0	.1
	.4	.2	.0	.0	.0	.0	.1	.2	.0	.0
	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0
	1611	1514	1529	1671	2092	2902	2767	1900	0	447
	9.8	9.2	9.3	10.2	12.7	17.7	16.8	11.6	.0	2.7

TABLE 15

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

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0603	66	58	54	45	34	29	19	44.2	6848
0609	67	57	53	43	33	28	18	43.4	6260
1215	63	54	51	43	32	27	19	42.1	4605
1821	66	55	52	43	32	27	19	42.6	6148
TOT	67	57	53	43	33	28	18	43.2	23861

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0603	.0	1.5	6.5	14.7	32.0	45.2	86	4787
0609	.0	.9	4.4	12.7	30.0	52.0	88	4595
1215	.0	.8	4.5	12.4	28.7	53.6	88	2596
1821	.0	.6	3.6	10.8	28.2	56.9	89	4541
TOT	0	162	796	2097	4938	8526	88	16519

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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	17	21	25	29	33	37	41	45	49	53	57	61	65	TOT	W	WO
	20	24	28	32	36	40	44	48	52	56	60	64	68	FUG	FUG	FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	*	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	22	.1	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.0	.0	90	.2	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.2	.6	.4	.1	.0	.0	172	.4	.9
7/8	.0	.0	.0	.0	.0	.0	.0	.6	1.0	.3	.1	.0	.0	334	.7	1.7
6	.0	.0	.0	.0	.0	.0	.2	.6	.5	.1	.0	.0	.0	214	.5	1.1
5	.0	.0	.0	.0	.0	.1	.7	1.4	1.1	.4	.1	.0	.0	521	.9	2.8
4	.0	.0	.0	.0	.0	.3	1.2	2.0	1.2	.4	.1	.0	.0	734	1.3	4.0
3	.0	.0	.0	.0	.0	.5	1.4	1.8	1.0	.2	.0	.0	.0	682	1.2	3.7
2	.0	.0	.0	.0	.1	1.3	2.9	4.6	1.7	.4	.0	.0	.0	1523	2.0	8.9
1	.0	.0	.0	.0	.1	1.8	2.5	2.5	1.2	.2	.0	.0	.0	1144	1.2	7.0
0	.0	.0	.0	.0	.6	3.9	6.1	5.7	1.9	.2	.0	.0	.0	2593	2.3	16.2
-1	.0	.0	.0	.0	.7	3.0	2.0	2.1	.9	.0	.0	.0	.0	1206	.9	7.7
-2	.0	.0	.0	.1	1.6	3.3	2.3	2.0	.6	.1	.0	.0	.0	1386	.8	9.1
-3	.0	.0	.0	.1	1.4	1.7	1.1	1.1	.3	.0	.0	.0	.0	775	.4	5.1
-4	.0	.0	.0	.3	1.7	1.7	.8	.8	.2	.0	.0	.0	.0	776	.3	5.3
-5	.0	.0	.0	.3	1.6	1.2	.5	.5	.1	.0	.0	.0	.0	598	.2	4.1
-6	.0	.0	.0	.4	1.9	.6	.3	.2	.1	.0	.0	.0	.0	334	.1	2.3
-7/-8	.0	.0	.0	1.0	1.2	.7	.2	.2	.0	.0	.0	.0	.0	466	.1	3.2
-9/-10	.0	.0	.3	.5	.4	.2	.1	.1	.0	.0	.0	.0	.0	218	*	1.5
-11/-13	.0	.0	.4	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	133	*	.9
-14/-16	*	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	42	.0	.3
-17/-19	*	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	.1
-20/-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL	3	28	121	408	1490	2842	3161	3666	1738	438	83	8	1	13987	1878	12109
PCT	*	.2	.9	2.9	10.7	20.3	22.6	26.2	12.4	3.1	.6	.1	*	100.0	13.4	86.6

PERIOD: (PRIMARY)  
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TABLE 18

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

HGT	N					NE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.2	.6	.0	.0	.0	*	.4	.0	.0	.0	.0	17
1-2	.1	1.4	1.1	.0	.0	.1	.8	.6	.0	.0	.0	61
3-4	*	.9	1.4	.1	.0	*	.6	1.1	.1	.0	.0	74
5-6	.0	.3	1.2	.5	.0	.0	.1	.8	.3	*	.0	49
7	.0	.1	.7	.4	.2	*	.1	.7	.4	*	.0	51
8-9	.0	*	.3	.4	*	.0	.0	.2	.2	.1	.0	21
10-11	.0	.0	.2	.2	.0	.0	*	.1	.1	.1	.0	11
12	.0	.0	.1	.1	.1	.0	.0	.0	.2	.1	.0	10
13-16	.0	.0	.0	.2	.1	.0	.0	.0	.1	*	.0	6
17-19	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.0	4
20-22	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	5
23-25	.0	.0	.0	.0	.1	.0	.0	.0	*	.0	.0	1
26-32	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.0	1
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
TOTAL	11	126	196	71	26	8	81	139	58	24	1	311
PCT	.3	3.2	4.9	1.8	.7	.2	2.0	3.5	1.5	.6	*	7.8

HGT	E					SE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		
<1	.3	.5	.0	.0	.0	.1	.3	.0	.0	.0	.0	17
1-2	.1	1.0	.9	.0	.0	*	1.0	.8	.0	.0	.0	71
3-4	*	.5	1.3	.2	.0	*	.6	1.1	.2	.0	.0	72
5-6	*	.2	.7	.3	*	.0	.3	.9	.3	*	.0	63
7	.0	.2	.6	.6	.2	.0	*	.5	.2	.0	.0	30
8-9	.0	.0	.4	.4	.1	.0	*	.2	.4	.1	.0	29
10-11	.0	.0	.1	.2	.1	.0	.0	.2	.2	.1	.0	18
12	.0	.0	*	.1	.1	.0	.0	*	.2	*	.0	9
13-16	.0	.0	*	.1	.1	.0	.0	*	.1	.2	.0	15
17-19	.0	.0	.0	.1	.0	.0	.0	*	*	.1	.0	4
20-22	.0	.0	.0	*	*	.0	.0	.0	.1	.0	.0	7
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	14	97	161	81	22	7	88	148	68	19	6	336
PCT	.4	2.4	4.0	2.0	.6	.2	2.2	3.7	1.7	.5	.2	8.4

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

HGT	S										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.1	.6	.0	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.21
1-2	.1	1.5	.0	.0	.0	.0	*	1.1	1.1	.0	.0	.0	.0	87
3-4	.1	.7	1.9	.4	.0	.0	.1	1.2	2.4	.0	.0	.0	.0	158
5-6	.0	.5	1.9	.7	*	.0	.0	.4	1.8	.7	.1	.0	.0	115
7	.0	*	1.2	.9	.1	.0	.0	.1	1.4	.9	*	.0	.0	94
8-9	.0	*	.2	.7	.2	.1	.0	.1	.5	.7	.1	.0	.0	51
10-11	.0	.0	.1	.3	.1	.0	.0	*	.4	.3	.1	.0	.0	32
12	.0	.0	.0	.2	.2	.1	.0	.0	.1	.3	*	.1	.0	16
13-16	.0	.0	.1	.2	.1	.1	.0	.0	.1	.2	.1	*	.0	16
17-19	.0	.0	.0	*	.1	.0	.0	.0	.0	*	.1	*	.0	3
20-22	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	.1	.0	.0	6
23-25	.0	.0	.0	.0	*	.0	.0	.0	.0	*	.0	*	.0	2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	8	132	266	136	30	10	10	126	305	19	136	19	7	603
PCT	.2	3.3	6.7	3.4	.8	.3	.3	3.2	7.7	.5	3.4	.5	.2	15.1

HGT	W										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.2	.8	.0	.0	.0	.0	.2	.6	.0	.0	.0	.0	.0	32
1-2	.1	1.8	1.5	.0	.0	.0	.1	1.3	1.0	.0	.0	.0	.0	92
3-4	*	1.4	2.6	.5	.0	.0	.1	1.1	1.7	.0	.0	.0	.0	120
5-6	.0	.6	3.3	.8	*	.0	.0	.2	1.2	.5	*	.0	.0	76
7	.0	.2	1.5	1.2	.1	.0	.0	.1	.8	.5	.0	.0	.0	55
8-9	.0	*	.6	.7	.1	.0	.0	.1	.2	.5	.1	.0	.0	37
10-11	.0	.0	.3	.8	.2	.1	.0	*	.2	.6	.1	.0	.0	190
12	.0	.0	.2	.4	.1	.0	.0	.0	*	.3	*	.0	.0	127
13-16	.0	*	.1	.4	.4	.0	.0	.0	.1	.2	.2	*	.0	18
17-19	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.0	*	.0	5
20-22	.0	.0	.0	.2	*	.0	.0	.0	.0	*	*	.0	.0	2
23-25	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	1
26-32	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	8
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	12	195	402	200	45	6	13	129	208	114	18	2	484	3986
PCT	.3	4.9	10.1	5.0	1.1	.2	.3	3.2	5.2	2.9	.5	.1	12.1	100.0

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	3.6	4.0	.0	.0	.0	.0					311
1-2	.6	9.6	8.3	.0	.0	.0					755
3-4	.3	6.7	13.1	1.9	.0	.0					906
5-6	*	2.5	11.5	3.9	.2	.0					743
7	*	.7	7.1	4.9	.6	*					552
8-9	.0	.2	2.5	3.9	.8	.1					309
10-11	.0	.1	1.3	2.5	.7	*					190
12	.0	.0	.4	1.5	.6	.1					105
13-14	.0	*	.3	1.5	1.0	.3					127
17-19	.0	.0	*	.4	.3	.1					34
20-22	.0	.0	.0	.4	.4	.1					40
23-25	.0	.0	.0	.1	.2	.1					15
26-32	.0	.0	.0	.0	.1	.1					8
33-40	.0	.0	.0	.0	.0	.0					0
41-48	.0	.0	.0	.0	.0	.0					0
49-60	.0	.0	.0	.0	.0	.0					0
61-70	.0	.0	.0	.0	.0	.0					0
71-86	.0	.0	.0	.0	.0	.0					0
87+	.0	.0	.0	.0	.0	.0					0
TOTAL	191	975	1825	864	203	37					4095
PCT	4.7	23.8	44.6	21.1	5.0	.9					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)														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	1.1	8.3	11.1	6.1	2.6	1.2	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1542	3
6-7	.0	1.1	4.8	7.7	5.6	2.9	1.8	.9	1.2	.5	.4	.1	*	.0	.0	.0	.0	.0	.0	.0	1329	6
8-9	.0	.3	2.1	3.5	4.2	3.0	1.7	1.3	1.2	.5	.3	.2	*	.0	.0	.0	.0	.0	.0	.0	898	7
10-11	.0	*	.3	.6	1.2	2.1	1.2	.7	.8	.2	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	372	9
12-13	.0	.0	.0	.1	.1	.6	.2	.5	.6	*	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	131	11
>13	.0	*	.0	.1	.2	.1	.1	.1	.3	.0	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	56	12
INDET	11.5	.1	.1	*	.1	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	590	0
TOTAL	622	488	904	887	684	487	289	164	217	56	60	29	11	0	0	0	0	0	0	0	4918	5
PCT	12.6	9.9	18.4	18.0	13.9	9.9	5.9	3.7	4.4	1.1	1.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	.1
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	.4
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	1.2
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	587	3.2
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1185	6.4
45/46	.2	.8	.3	.4	.6	.9	.8	.8	.7	.7	.1	.0	1607	8.7
43/44	1.6	4.5	1.5	1.9	3.1	2.4	2.3	12.1	12.1	17.7	2.5	.3	3156	17.0
41/42	8.4	7.6	3.2	3.7	9.7	20.1	17.2	18.8	21.0	9.1	1.0	.0	2976	16.0
39/40	12.3	33.3	10.1	11.4	23.1	35.9	35.9	20.1	25.3	37.5	17.2	5.3	2796	15.1
37/38	27.2	38.9	24.2	28.0	40.3	27.0	11.1	6.5	2.2	6.0	32.2	33.4	3033	16.3
35/36	8.2	11.3	16.4	13.2	18.2	14.4	3.8	1.2	.3	1.6	12.7	33.2	2085	11.2
33/34	1.7	3.5	3.5	2.7	4.1	4.3	.1	.0	.0	.5	1.6	8.6	652	3.5
31/32	.4	.0	.5	.6	.4	.0	.0	.0	.0	.2	.8	3.7	134	.7
29/30	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.6	24	.1
27/28	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	*
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*
TOTAL	1016	926	1074	1234	1802	2862	2325	2354	1676	1373	1002	928	18572	100.0
MEAN	39.1	38.4	38.3	38.5	40.0	42.5	45.4	47.5	47.9	45.8	42.7	40.6	43.0	

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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	DA		HR	MIN	YEAR	DA	HR
JAN	996	998	1001	993	1001	1002	1000	992	997	1279	1039	1950	23	00	953	1958	04	12
FEB	997	999	1000	996	1001	996	999	995	998	1158	1040	1950	04	12	958	1969	16	12
MAR	1007	1004	1007	1009	1006	1003	1006	1010	1007	1316	1041	1960	04	03	955	1949	21	12
APR	1008	1007	1010	1004	1012	1005	1011	1004	1008	1572	1038	1962	09	00	968	1964	06	15
MAY	1012	1011	1012	1012	1011	1010	1012	1010	1011	2121	1040	1964	08	12	972	1965	29	12
JUN	1012	1015	1013	1014	1012	1015	1012	1014	1013	3732	1037	1944	07	21	976	1949	10	12
JUL	1016	1016	1016	1015	1016	1016	1016	1015	1016	2892	1036	1943	13	00	984	1966	04	00
AUG	1013	1013	1012	1014	1013	1014	1013	1013	1013	2585	1038	1943	14	21	982	1964	30	06
SEP	1010	1008	1009	1009	1010	1010	1010	1009	1010	1881	1042	1944	20	09	975	1923	11	15
OCT	1008	1004	1008	1008	1008	1003	1008	1009	1008	1608	1042	1944	25	09	965	1960	29	18
NOV	1003	1002	1003	1002	1002	994	1003	1000	1002	1130	1043	1945	24	21	959	1958	03	06
DEC	1002	1002	1002	1000	1004	1003	1005	999	1002	1157	1047	1964	26	06	957	1943	26	21
ANN	1009	1012	1010	1008	1010	1010	1010	1008	1009	22531								
OBS	5362	1031	3332	2623	3401	975	3133	2674										

MO	PERCENTILES								
	1%	5%	25%	50%	75%	95%	99%		
JAN	962	971	985	997	1009	1024	1033		
FEB	965	975	989	998	1007	1020	1028		
MAR	968	980	998	1008	1018	1028	1035		
APR	974	982	998	1009	1019	1029	1035		
MAY	978	990	1003	1012	1020	1033	1037		
JUN	985	995	1007	1015	1020	1028	1033		
JUL	994	1001	1010	1017	1022	1027	1031		
AUG	989	996	1006	1014	1020	1027	1031		
SEP	979	990	1001	1011	1017	1028	1034		
OCT	969	981	1000	1010	1017	1028	1037		
NOV	964	976	992	1002	1012	1028	1039		
DEC	964	975	992	1002	1013	1028	1038		

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				FRZG PCPN	SNOW	OTHER					FG	SMOKE	DUST	NO	HAZE		BLWG	DUST
N	.2	.0	.5	.0	2.2	.0	.2	3.0	17	.0	.4	.0	.0	.0	.0	.0	3.4	38
NNE	.7	.0	.4	.0	1.1	.0	.0	1.3	7	.0	.4	.0	.0	.0	.0	.0	5.0	37
NE	.3	.2	.4	.0	1.8	.0	.0	2.9	16	.0	.5	.0	.0	.0	.0	.0	3.8	40
ENE	1.3	.0	.4	.0	1.3	.0	.4	3.0	17	.0	.4	.0	.0	.0	.0	.0	4.5	44
E	.4	.2	1.1	.0	2.5	.0	.2	4.3	24	.0	.4	.2	.0	.0	.0	.0	6.1	61
ESE	.5	.0	.5	.0	1.1	.0	.0	2.0	11	.0	.0	.0	.0	.0	.0	.0	2.5	25
SE	.7	.0	.5	.0	.5	.0	.0	1.8	10	.0	.0	.5	.0	.0	.0	.0	3.6	33
SSE	.0	.0	.0	.0	.2	.0	.0	.2	1	.0	.7	.0	.0	.0	.0	.0	1.3	12
S	1.1	.0	.7	.0	.4	.0	.0	2.0	11	.0	.7	.0	.0	.0	.0	.0	4.7	41
SSW	.0	.0	.2	.0	.5	.0	.0	.7	4	.0	.5	.0	.0	.0	.0	.0	2.5	21
SW	.2	.0	.0	.0	.2	.0	.0	.4	2	.0	.2	.7	.0	.0	.0	.0	4.3	31
WSW	.0	.0	.2	.0	.5	.0	.0	.7	4	.0	.0	.0	.0	.0	.0	.0	3.8	25
W	.0	.0	.2	.0	1.6	.0	.0	2.0	11	.0	.0	.0	.0	.0	.0	.0	5.7	43
WNW	.4	.0	.0	.0	1.1	.0	.2	1.6	9	.0	.0	.2	.0	.0	.0	.0	2.9	26
NW	.2	.2	.0	.0	1.3	.0	.0	1.6	9	.0	.0	.0	.0	.0	.0	.0	5.0	37
NNW	.0	.0	.2	.0	1.8	.0	.0	2.0	11	.0	.0	.0	.0	.0	.0	.0	4.7	37
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0	0
CALM	.0	.0	.2	.0	.0	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	.0	1.1	7
TOT OBS	32	3	28	2	100	0	5	.2	165	0	23	9	0	0	0	361	558	
TOT PCT	5.7	.5	5.0	.4	17.9	.0	.9	29.6		.0	4.1	1.6	.0	.0	.0	64.7	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS		
				FRZG PCPN	SNOW	OTHER					FG	SMOKE	DUST	NO	HAZE		BLWG	DUST
0000	5.4	.0	3.4	.0	23.5	.0	.7	32.2	48	.0	5.4	2.0	.0	.0	.0	.0	60.4	149
0600	6.9	.0	4.9	.0	18.8	.0	.7	30.6	44	.0	3.5	1.4	.0	.0	.0	.0	64.6	144
1200	4.7	1.6	5.5	.8	10.9	.0	.8	22.7	29	.0	2.3	.0	.0	.0	.0	.0	75.0	128
1800	5.4	.7	6.1	.7	19.0	.0	1.4	32.7	48	.0	4.8	2.7	.0	.0	.0	.0	59.9	147
TOT	32	3	28	2	104	0	5		169	0	23	9	0	0	0	367	568	
PCT	5.6	.5	4.9	.4	18.3	.0	.9	29.8		.0	4.0	1.6	.0	.0	.0	.0	64.6	100.0

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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	.4	2.7	2.4	1.4	.4	.0	61	7.3	15.6	6.6	.0	5.1	8.1	8.0	.0	9.7	7.5
NNE	.1	1.7	1.4	1.9	1.1	.2	54	6.4	22.2	7.9	.0	9.4	6.3	8.8	10.0	3.2	1.7
NE	.0	3.3	3.1	2.7	.8	.0	84	10.0	17.9	11.5	.0	5.1	13.5	6.4	10.0	6.5	16.7
ENE	.1	.8	2.1	2.4	1.1	.2	57	6.8	23.7	4.4	33.3	11.1	9.9	7.2	.0	4.8	5.0
E	.4	2.9	3.7	4.0	1.7	.2	108	12.9	21.5	11.9	16.7	6.8	20.7	8.8	50.0	12.1	15.0
ESE	.0	1.5	1.7	1.2	.2	.0	39	4.6	17.3	4.4	.0	2.6	7.2	3.2	10.0	4.8	5.8
SE	.0	1.2	3.0	1.4	.6	.0	52	6.2	18.8	9.3	.0	5.1	5.4	5.6	.0	4.8	5.0
SSE	.1	.7	1.0	.0	.1	.0	16	1.9	13.6	2.6	16.7	1.7	.0	1.6	.0	3.2	.8
S	.2	1.9	1.5	.8	1.8	.0	53	6.3	20.4	7.0	.0	5.1	.9	12.0	.0	6.5	5.8
SSW	.1	.7	1.4	.7	.2	.0	27	3.2	18.3	3.5	.0	5.1	1.8	3.2	20.0	2.4	1.7
SW	.5	1.5	2.6	.6	.1	.0	45	5.4	13.5	4.4	16.7	7.7	8.1	4.0	.0	4.8	4.2
WSW	.7	1.0	1.1	.7	.1	.0	31	3.7	16.0	3.1	.0	2.6	1.8	6.4	.0	6.5	2.5
W	.1	2.3	2.9	1.2	.1	.0	55	6.5	15.0	5.3	.0	9.4	4.5	7.2	.0	8.1	6.7
WNW	.2	1.3	1.8	.4	.2	.0	33	3.9	14.5	2.6	16.7	7.7	2.7	4.8	.0	4.0	2.5
NW	.5	2.7	3.1	.5	.7	.0	63	7.5	15.1	7.5	.0	9.4	6.3	6.4	.0	5.6	10.8
NNW	.2	2.1	1.4	1.3	.8	.0	50	6.0	18.3	6.2	.0	5.1	.9	4.8	.0	12.1	6.7
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4	239	287	179	85	7	12	1.4	.0	1.8	.0	.9	1.8	1.6	.0	.8	1.7
TOT OBS	43	285	342	213	101	8	840	100.0	17.9	227	6	117	111	125	10	124	120
TOT PCT	5.1	28.5	34.2	21.3	10.1	.8	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	2.3	4.0	4.3	2.4	.7	115	13.7	18.7	14.5	.0	14.5	14.4	16.8	10.0	12.9	9.2	
NE	2.0	5.6	4.8	3.9	.5	141	16.8	20.3	15.9	33.3	16.2	23.4	13.6	10.0	11.3	21.7	
E	1.7	5.8	4.9	4.0	1.1	147	17.5	20.4	16.3	16.7	9.4	27.9	12.0	60.0	16.9	20.8	
SE	.8	3.1	3.1	1.1	.0	68	8.1	17.6	11.9	16.7	6.8	5.4	7.2	.0	8.1	5.8	
S	1.8	3.3	1.3	2.9	.2	80	9.5	19.7	10.6	.0	10.3	2.7	15.2	20.0	8.9	7.5	
SW	2.3	3.6	2.5	.6	.1	76	9.0	14.5	7.5	16.7	10.3	9.9	10.4	.0	11.3	6.7	
W	1.7	5.1	2.9	.8	.0	88	10.5	14.8	7.9	16.7	17.1	7.2	12.0	.0	12.1	9.2	
NW	3.2	4.9	2.6	2.1	.6	113	13.5	16.5	13.7	.0	14.5	7.2	11.2	.0	17.7	17.5	
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	298	221	150	27	12	1.4	.0	1.8	.0	.9	1.8	1.6	.0	.8	1.7	
TOT OBS	144	35.5	26.3	17.9	3.2	840	100.0	17.9	227	6	117	111	125	10	124	120	
TOT PCT	17.1	35.5	26.3	17.9	3.2	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)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)								PCT TOTAL OBS	
	0003	0609	1215	1821	TOT	PCT	MEAN	FREQ		
0-3	4.3	33.5	30.9	34.2	21.3	10.1	.8	1.4	100.0	840
4-7	4.4	24.6	37.3	34.2	21.3	10.1	.8	1.4	100.0	840
8-11	1.5	18.5	37.8	34.2	21.3	10.1	.8	1.4	100.0	840
12-15	3.7	32.8	32.4	28.7	17.9	8.5	.7	1.2	100.0	244
16-19	3.1	23.9	28.7	34.2	21.3	10.1	.8	1.4	100.0	244
20-23	4.3	33.5	30.9	34.2	21.3	10.1	.8	1.4	100.0	233
24-27	4.4	24.6	37.3	34.2	21.3	10.1	.8	1.4	100.0	228
28-31	1.5	18.5	37.8	34.2	21.3	10.1	.8	1.4	100.0	135
TOT	3.7	32.8	32.4	28.7	17.9	8.5	.7	1.2	100.0	244
PCT	3.7	28.5	34.2	34.2	21.3	10.1	.8	1.4	100.0	840

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER			
N	.2	.9	2.1	2.8	26	6.5			
NNE	.7	.9	1.9	4.0	32	6.4			
NNE	.0	.0	1.7	4.7	31	7.1			
ENE	.0	.7	1.2	5.2	30	7.3			
E	.5	.5	1.9	6.6	40	7.1			
ESE	.2	.5	.9	2.1	16	6.4			
SE	.0	.2	1.2	5.0	27	7.5			
SSE	.0	.0	1.2	1.2	10	6.9			
S	1.2	.9	.5	5.4	34	6.4			
SSW	.9	.7	.9	1.4	17	5.3			
SW	1.4	.7	2.4	1.4	25	5.1			
WSW	.7	.9	1.7	1.7	21	5.6			
W	.7	1.2	5.0	.9	33	5.3			
WNW	1.2	.5	2.6	.7	21	5.1			
NW	.2	.9	2.1	3.1	27	6.6			
NNW	.5	.7	2.6	3.1	29	6.4			
VAR	.0	.0	.0	.0	0	.0			
CALM	.5	.2	.2	.2	5	4.0			
TOT OBS	38	49	127	210	424	6.3			
TOT PCT	9.0	11.6	30.0	49.5	100.0				

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS										
	000	149	150	299	300	599	600	999	1000	1999		2000	3499	4999	5000	6499	7999	8000+	ANY HGT	<5/8	TOTAL
N	.7	.0	.0	.0	.0	.0	.2	1.9	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	26
NNE	.5	.0	.0	.0	.0	.0	.2	2.1	1.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	32
NNE	.5	.0	.0	.0	.0	.0	.9	2.1	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	31
ENE	.0	.0	.0	.0	.0	.0	.5	1.9	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	30
E	1.2	.2	.2	.2	.2	.2	.7	2.4	2.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	40
ESE	.5	.0	.0	.0	.0	.0	.0	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	16
SE	.9	.0	.0	.0	.0	.0	.5	3.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	27
SSE	.2	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	10
S	.5	.0	.0	.0	.0	.0	1.7	1.2	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	34
SSW	.2	.0	.0	.0	.0	.0	.2	1.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	17
SW	.2	.0	.0	.0	.0	.0	.2	.5	1.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	25
WSW	.0	.0	.0	.0	.0	.0	.2	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	21
W	.0	.0	.0	.0	.0	.0	.5	1.4	1.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	33
WNW	.0	.0	.0	.0	.0	.0	.0	.7	.7	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	21
NW	.2	.0	.0	.0	.0	.0	.7	.9	.9	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.9	27
NNW	.0	.0	.0	.0	.0	.0	.5	1.4	1.2	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	29
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.5	.2	.2	.2	.2	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	5
TOT OBS	24	1	5	30	103	80	61	3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	424
TOT PCT	5.7	.2	1.2	7.1	24.3	18.9	14.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27.4	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.0	.2	.2	.2	.2	.2	.2	.2
OR >5000	.2	.7	.9	.9	.9	.9	.9	.9
OR >3500	2.6	12.6	14.0	14.5	14.5	14.5	15.2	15.4
OR >2000	8.6	25.2	29.7	32.0	32.5	32.5	33.6	33.9
OR >1000	17.1	41.1	50.7	55.4	55.8	56.1	57.7	57.9
OR >600	18.9	46.5	57.2	62.1	62.6	62.9	64.7	65.0
OR >300	19.6	47.4	58.4	63.3	63.8	64.0	65.9	66.1
OR >150	19.6	47.4	58.4	63.6	64.0	64.3	66.1	66.4
OR > 0	19.9	49.3	61.7	67.3	68.0	68.9	72.0	72.2
TOTAL	85	211	264	288	291	295	308	309

TOTAL NUMBER OF OBS: 428

PCT FREQ NH <5/8: 27.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	1.3	.9	10.2	5.0	9.1	8.0	12.5	8.0	39.7	5.4
										463

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT		
																						PCP	NO PCP
<1/2	.2 .4 1	.2 .4 3	.4 .4 4	.0 .0 0	.5 .0 3	.2 .0 2	.0 .5 2	.0 .0 0	.2 .2 2	.0 .4 2	.2 .0 1	.0 .0 0	.2 .0 1	.2 .0 1	.2 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	13 11 24	2.3 2.0 4.3	
1/2<1	.5 .0 3	.0 .0 3	.0 .2 1	1.1 .0 6	.0 .0 0	.4 .0 4	.0 .2 1	.0 .0 0	.2 .0 1	.0 .0 0	.0 .0 0	.4 .2 1	.4 .0 2	.4 .0 2	.0 .0 0	.4 .0 2	.4 .0 2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	20 5 25	3.6 .9 4.5
1<2	.5 .0 3	.5 .0 3	.7 .2 5	.5 .4 5	.9 .0 5	1.1 .4 8	.9 .0 5	.9 .0 5	.2 .0 1	.4 .0 2	.2 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.2 .0 1	.5 .2 4	.7 .0 4	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	42 6 48	7.6 1.1 8.6
2<5	.9 .5 8	.2 .4 3	1.3 .4 9	.7 .4 6	.4 .2 3	2.2 .5 15	.7 .7 8	.7 .7 8	.0 .0 0	.5 1.4 11	.0 .2 1	.0 .4 2	.0 .0 0	.7 .4 6	.9 .2 6	.4 .2 3	.4 1.3 9	.0 .0 0	.0 .0 0	.2 .0 1	.0 .0 0	52 39 91	9.4 7.0 16.4
5<10	.7 2.2 16	.5 2.2 15	.5 1.6 12	.7 2.0 15	.2 1.1 7	.5 2.7 18	.2 1.3 8	.2 1.3 8	.0 .7 4	.7 1.4 12	.4 1.4 10	.2 1.8 11	.2 1.8 10	.4 2.9 18	.2 .9 6	.0 2.9 16	.5 2.7 18	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	33 163 196	5.9 29.3 35.3
10+	.2 1.1 7	.0 2.5 14	.2 1.6 10	.0 2.2 12	.0 1.3 7	.0 2.5 14	.0 2.2 12	.0 2.2 12	.0 .5 3	.2 2.2 13	.0 1.3 7	.0 2.9 16	.0 2.0 11	.2 2.5 15	.0 2.0 11	.0 1.8 10	.0 .7 4	.0 .0 0	.0 1.1 6	.0 .0 0	.0 .0 0	4 168 172	.7 30.2 30.9
TOTAL PCT	38 6.8	38 6.8	41 7.4	44 7.9	25 4.5	61 11.0	33 5.9	33 5.9	12 2.2	41 7.4	21 3.8	31 5.6	24 4.3	42 7.6	25 4.5	36 6.5	37 6.7	0 .0	7 1.3	7 1.3	556 100.0	100.0	

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.1	
	4-10	.0	.1	.1	.0	.0	.1	.0	.1	.2	.1	.0	.1	.0	.0	.0	.1	.0	.0	8	1.0	
	11-21	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.1	.1	.0	.0	.0	9	1.1	
	TOTAL	.1	.2	.4	.1	.5	.1	.0	.0	.1	.3	.0	.1	.0	.0	.2	.1	.0	.0	13	1.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	4	.5	
	4-10	.2	.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.2	.0	.0	12	1.4	
	11-21	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	10	1.2	
	TOTAL	.1	.0	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	16	1.9	
1<2	0-3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.1	.2	.4	.2	.1	.2	.3	.0	.0	42	5.0	
	4-10	.6	.1	.4	.1	.5	.4	.1	.1	.1	.0	.1	.1	.1	.0	.1	.1	.0	.0	8	1.0	
	11-21	.1	.1	.5	.0	.5	.5	.4	.0	.1	.0	.1	.1	.1	.0	.2	.2	.0	.0	29	3.5	
	TOTAL	.1	.2	.5	.4	.5	.1	.2	.1	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	22	2.6	
2<5	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.2	.7	.6	.0	.0	84	10.0	
	4-10	.5	.1	.4	.4	.2	.5	.2	.1	.5	.1	.5	.0	.5	.2	.8	.5	.0	.0	6	.7	
	11-21	.4	.4	.7	.2	.8	.4	.6	.0	.2	.0	.0	.0	.1	.5	.4	.2	.0	.0	45	5.4	
	TOTAL	.4	.8	1.3	1.0	1.7	.4	.5	.0	.1	.1	.0	.0	.2	.2	.4	.7	.0	.0	38	4.5	
5<10	0-3	.1	.1	.0	.0	.1	.0	.0	.0	.1	.2	.5	.0	.7	.8	.13	.12	.0	.0	162	19.4	
	4-10	.6	.2	1.0	.1	.5	.4	.4	.1	.4	.4	.8	.2	.7	.4	.7	.7	.0	.0	14	1.7	
	11-21	1.6	.6	.8	.5	1.0	.8	.8	.2	.4	.3	.5	.1	1.6	.5	1.3	.6	.0	.0	57	6.8	
	TOTAL	.6	1.2	.7	1.2	2.0	.6	.4	.0	1.0	.7	.4	.6	.2	.0	.4	.4	.0	.0	92	11.0	
10+	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.2	.1	.2	.10	.21	.7	.21	.21	.0	.0	2	258	30.9
	4-10	.8	1.0	1.6	.2	1.3	.2	.5	.1	.8	.0	.8	.0	.0	.7	.6	.4	.0	.0	.7	10	1.2
	11-21	.4	.2	.7	1.1	1.4	.8	1.2	.8	.8	1.1	1.7	.6	.8	.7	1.0	.2	.0	.0	87	10.4	
	TOTAL	.5	.7	.5	.5	1.1	.2	.8	.0	.4	.0	.4	.2	.5	.0	.4	.2	.0	.0	6	259	31.0
TOTAL	PCT	61	54	84	57	108	39	52	16	53	27	45	30	54	32	62	50	0	12	836	100.0	
		7.3	6.5	10.0	6.8	12.9	4.7	6.2	1.9	6.3	3.2	5.4	3.6	6.5	3.8	7.4	6.0	.0	1.4	100.0		

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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	3.6	.0	.9	7.2	29.7	21.6	11.7	.0	.0	.0	74.8	25.2	111
06009	5.8	.0	1.0	8.7	22.1	20.2	17.3	1.0	.0	.0	76.0	24.0	104
12015	3.6	.9	1.8	5.4	24.1	17.0	13.4	.0	.0	.9	67.0	33.0	112
18021	10.4	.0	.9	6.6	18.9	15.0	15.1	1.9	.0	.0	69.8	30.2	106
TOT	25	1	5	30	103	81	62	3	0	1	311	122	433
PCT	5.8	.2	1.2	6.9	23.8	18.7	14.3	.7	.0	.2	71.8	28.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	5.6	.0	4.6	12.0	29.6	48.1	108
06009	4.9	.0	5.8	13.6	35.9	39.8	103
12015	5.4	.9	7.1	13.4	42.0	31.3	112
18021	1.0	1.9	6.7	12.4	46.7	31.4	105
TOT	18	3	26	55	165	161	428
PCT	4.2	.7	6.1	12.9	38.6	37.6	100.0

TABLE 12

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

HR	< 150 (GMT)	< 50 YD	< 1	< 600	< 1000	1000+ AND 5+	NH < 5/8	TOTAL OBS
00003	3.7	7.4	29.6	46.3	24.1	108		
06009	5.8	8.7	33.0	43.7	23.3	103		
12015	4.5	11.6	33.0	34.8	32.1	112		
18021	10.5	12.4	32.4	40.0	27.6	105		
TOT	26	43	137	176	115	428		
PCT	6.1	10.0	32.0	41.1	26.9	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				
45/49	.0	.0	.0	.4	.2	.0	.6	.0			6	1.3
40/44	.0	.0	.0	1.5	1.5	3.1	8.8			71	14.9	
35/39	.0	.0	.0	.6	2.9	6.1	11.9	19.7			197	41.3
30/34	.0	.0	.0	.2	2.7	5.7	11.3	13.4			159	33.3
25/29	.0	.0	.0	.0	.2	.4	2.3	4.6			36	7.5
20/24	.0	.0	.0	.0	.0	.2	.4	1.0			8	1.7
TOTAL	.0	.0	.0	.6	.6	66	142	227			477	100.0
PCT	.0	.0	.0	1.3	7.5	13.8	29.8	47.6				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.2	.2	.6	.2	.0	.0	.0	.0	.0			
.8	1.7	4.2	2.9	2.1	1.3	.2	1.5	.0	.2			
3.8	6.9	11.7	3.1	4.0	4.8	3.6	2.9	.0	.4			
5.9	6.5	4.8	2.1	2.9	2.5	2.5	5.7	.0	.4			
2.7	1.9	.2	.0	.6	.2	.4	1.5	.0	.0			
1.0	.2	.0	.0	.0	.0	.0	.4	.0	.0			
.68	.83	1.01	.42	.47	.42	.32	.57	.0	.5			
14.3	17.4	21.2	8.8	9.9	8.8	6.7	11.9	.0	1.0			

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	46	44	42	35	27	23	21	34.6			233
06009	47	45	41	34	27	24	23	34.4			232
12015	44	43	39	34	27	23	23	33.2			137
18021	45	42	41	34	26	23	22	33.7			246
TOT	47	44	41	34	27	23	21	34.1			848

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL OBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
00003	.0	.7	4.2	14.1	30.3	50.7	87			142	
06009	.0	1.4	9.9	12.1	35.5	41.1	85			141	
12015	.0	2.3	11.4	13.6	25.0	47.7	86			44	
18021	.0	1.3	7.2	15.0	25.5	51.0	87			153	
TOT	0	6	36	66	143	229	86			480	

PERIOD: (PRIMARY) 1944-1970  
 (OVER-ALL) 1935-1970

JANUARY

AREA 0010 ATTU  
 51-55N 172-180E

TABLE 17

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

AIR-SEA TMP DIF	21	25	29	33	37	41	45	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.0	.0	.5	.5	4	.7	.2
6	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
4	.0	.0	.0	.0	.5	1.2	.0	7	.2	1.4
3	.0	.0	.0	.0	.5	1.2	.0	7	.2	1.4
2	.0	.0	.0	.0	1.9	.9	.0	12	.2	2.5
1	.0	.0	.0	.5	1.9	.5	.0	12	.2	2.5
0	.0	.0	.0	1.4	7.4	.0	.0	38	.5	8.3
-1	.0	.0	.0	2.1	5.3	.2	.0	33	.2	7.4
-2	.0	.0	.0	6.0	1.9	.0	.0	34	.5	7.4
-3	.0	.0	.0	7.9	.7	.0	.0	37	.0	8.6
-4	.0	.0	.9	8.6	.2	.0	.0	42	.0	9.7
-5	.0	.0	1.2	5.1	.5	.0	.0	29	.0	6.7
-6	.0	.0	6.0	2.1	.5	.0	.0	37	.0	8.6
-7/-8	.0	.7	10.9	3.0	.0	.0	.0	63	.0	14.6
-9/-10	.0	6.0	3.5	.9	.0	.0	.0	45	.0	10.4
-11/-13	.5	2.3	1.4	.2	.0	.0	.0	19	.0	4.4
-14/-16	2.3	.5	.0	.0	.0	.0	.0	12	.0	2.8
TOTAL	12	41	103	163	91	19	3	432	12	420
PCT	2.8	9.5	23.8	37.7	21.1	4.4	.7	100.0	2.8	97.2

PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 JANUARY  
 TABLE 18  
 AREA 0010 ATTU 172-180E  
 51-55N

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

HGT	N						NE							
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	.0	.0	.0	1
1-2	.0	1.5	.0	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0
3-4	.0	1.5	2.5	.0	.0	.0	8	.0	.0	1.0	.0	.0	.0	2
5-6	.0	.0	1.0	.5	.0	.0	3	.0	.0	2.0	1.0	.0	.0	6
7	.0	.5	.0	.5	.0	.0	2	.0	.0	.5	1.0	.0	.0	3
8-9	.0	.0	.0	1.0	1.0	.0	4	.0	.0	.0	.0	.0	.0	0
10-11	.0	.0	.0	.0	.5	.0	1	.0	.0	.0	.5	.0	.0	1
12	.0	.0	.5	1.5	.5	.0	5	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	1.5	1.0	.0	5	.0	.0	.0	1.0	.0	.0	4
17-19	.0	.0	.0	1.0	.5	.0	3	.0	.0	.0	.5	.0	.0	1
20-22	.0	.0	.0	.5	.0	.0	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	7	8	13	7	0	35	.0	1	7	8	2	.0	18
PCT	.0	3.4	3.9	6.4	3.4	.0	17.2	.0	.5	3.4	3.9	1.0	.0	8.9

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

HGT	E						SE							
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.5	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
1-2	.0	1.0	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0
3-4	.0	.5	1.5	.0	.0	.0	4	.0	.5	.0	.0	.0	.0	1
5-6	.0	.0	1.5	1.5	.0	.0	6	.0	.0	2.0	.0	.0	.0	4
7	.0	.0	1.5	2.0	.0	.0	7	.0	.5	.5	.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	.5	.0	.0	.0	1
12	.0	.0	.0	.5	.5	.0	1	.0	.0	.0	.5	.0	.0	1
13-16	.0	.0	.0	.5	.5	.0	2	.0	.0	.0	.0	1.0	.0	2
17-19	.0	.0	.0	.5	.0	.0	1	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.5	.0	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	4	9	10	2	0	25	.0	2	6	1	2	.0	11
PCT	.0	2.0	4.4	4.9	1.0	.0	12.3	.0	1.0	3.0	.5	1.0	.0	5.4

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

HGT	S					SW								
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.0	.0	.0	.0	.0	0	.0	.5	.0	.0	.0	.0	1
1-2	.0	.5	.5	.0	.0	.0	2	.0	1.5	1.0	.0	.0	.0	5
3-4	.0	.0	.0	.0	.0	.0	0	.0	.5	1.5	.5	.0	.0	5
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.5	.0	.0	3
7	.0	.0	1.5	1.0	.0	.0	5	.0	.0	.5	.5	.0	.0	3
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	1.0	.5	.0	.0	2
10-11	.0	.0	.5	.0	.5	.0	2	.0	.5	.5	.0	.0	.0	2
12	.0	.0	.0	.0	1.5	.0	3	.0	.0	.0	2.0	.5	.0	5
13-16	.0	.0	.0	.0	3.0	.0	6	.0	.0	.5	.0	.0	.0	1
17-19	.0	.0	.0	.0	1.5	.0	3	.0	.0	.0	.5	.0	.0	1
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	1	5	2	13	0	21	0	6	12	9	1	0	28
PCT	.0	.5	2.5	1.0	6.4	.0	10.3	.0	3.0	5.9	4.4	.5	.0	13.8

HGT	W					NW								
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
1-2	.0	1.0	1.5	.0	.0	.0	5	.0	.0	1.0	.0	.0	.0	2
3-4	.0	1.5	3.0	.5	.0	.0	10	.0	.0	.5	.0	.0	.0	1
5-6	.0	.5	2.5	1.0	.0	.0	8	.0	.0	2.5	.0	.0	.0	5
7	.0	.0	1.0	1.0	.0	.0	4	.5	.0	3.4	.5	.0	.0	9
8-9	.0	.0	.5	.5	.0	.0	2	.0	.0	.5	1.5	1.0	.0	6
10-11	.0	.0	.0	.5	.0	.0	1	.0	.0	.0	1.5	.0	.0	3
12	.0	.0	.0	.5	.0	.0	1	.0	.0	.0	1.5	.5	.0	3
13-16	.0	.0	.0	.0	.5	.0	1	.0	.0	.0	1.5	1.0	.0	3
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	6	17	9	1	0	33	1	0	16	10	5	0	32
PCT	.0	3.0	8.4	4.4	.5	.0	16.3	.5	.0	7.9	4.9	2.5	.0	15.8

JANUARY

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

AREA 0010 ATTU  
51-55N 172-180E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	3.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	10
1-2	.0	5.2	3.8	.0	.0	.0	.0	.0	.0	.0	19
3-4	.0	4.3	9.5	1.0	.0	.0	.0	.0	.0	.0	31
5-6	.0	.5	11.9	4.3	.0	.0	.0	.0	.0	.0	35
7	.5	1.0	8.6	6.2	.0	.0	.0	.0	.0	.0	34
8-9	.0	.0	1.9	3.3	1.9	.0	.0	.0	.0	.0	15
10-11	.0	.5	1.4	2.4	1.0	.0	.0	.0	.0	.0	11
12	.0	.0	.5	4.8	2.9	.0	.0	.0	.0	.0	17
13-16	.0	.0	.5	4.8	7.1	.0	.0	.0	.0	.0	26
17-19	.0	.0	.0	2.4	2.4	.0	.0	.0	.0	.0	10
20-22	.0	.0	.0	.5	.5	.0	.0	.0	.0	.0	2
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
TOTAL	8	27	80	62	33	0	210				
PCT	3.8	12.9	38.1	29.5	15.7	.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)																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	.0	4.8	5.9	5.4	1.7	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
6-7	.0	.3	6.5	6.8	9.0	5.1	2.8	1.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	126
8-9	.0	.6	3.4	3.4	4.5	1.1	1.7	5.4	5.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	94
10-11	.0	.3	.0	.3	.0	.3	.6	.3	.8	.8	.6	.6	.6	.0	.0	.0	.0	.0	.0	15
12-13	.0	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
>13	.0	.0	.0	.0	.0	.0	.3	.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	4
INDET	11.9	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
TOTAL	42	21	56	56	56	26	23	24	32	13	3	2	0	0	0	0	0	0	0	43
PCT	11.9	5.9	15.8	15.8	15.8	7.3	6.5	6.8	9.0	3.7	.8	.6	.0	.0	.0	.0	.0	.0	.0	354
																				100.0

FEBRUARY

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1909-1970

AREA 0010 ATTU  
51-55N 172-18CE

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	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS							
				FRZG	SNOW	OTHER					FRZG	SMOKE	DUST	HAZE	BLWG		DUST	SIG	WEA				
N	.2	.2	.4	.0	5.7	.0	.2	6.5	37	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	
NNE	.2	.0	.0	.0	3.4	.0	.0	3.4	19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33
NE	.7	.0	.0	.0	4.4	.0	.0	5.0	28	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70
ENE	.2	.0	.7	.0	1.1	.0	.0	1.9	11	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36
E	.0	.0	.2	.0	2.8	.2	.0	3.2	18	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	54
ESE	.7	.2	.2	.0	1.6	.0	.0	2.7	15	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44
SE	.4	.2	.0	.0	.9	.0	.0	1.4	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
SSE	.4	.0	.2	.0	.5	.0	.0	1.1	6	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24
S	.5	.0	.0	.0	1.1	.0	.0	1.6	9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
SSW	.2	.0	.0	.0	.4	.0	.0	.5	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14
SW	.2	.0	.2	.0	1.6	.0	.0	1.8	10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27
WSW	.2	.2	.0	.0	.7	.0	.0	1.1	6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29
W	.2	.0	.0	.0	1.2	.0	.0	1.4	8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
WNW	.2	.0	.0	.0	.7	.0	.0	.7	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20
NW	.2	.0	.0	.0	2.5	.0	.0	2.7	15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22
NNW	.4	.0	.0	.0	1.1	.0	.0	1.4	8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
VAR	.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	.2	.0	.0	.2	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
TOT OBS	26	4	10	0	168	1	1	.2	206	2	8	4	3	342	.9	.5	.0	.0	.0	.0	.0	.0	565
TOT PCT	4.6	.7	1.8	.0	29.7	.2	.2	36.5		.4	1.4	.7	.5	60.5	.5	.5	.0	.0	.0	.0	.0	.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS							
				FRZG	SNOW	OTHER					FRZG	SMOKE	DUST	HAZE	BLWG		DUST	SIG	WEA				
00003	5.0	.0	1.3	.0	35.0	.0	.0	40.0	64	.6	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160
06009	3.2	2.5	2.6	.0	29.5	.6	.6	39.1	61	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	156
12015	3.4	.0	1.7	.0	20.5	.0	.0	25.6	30	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117
18021	6.2	.0	1.4	.0	31.7	.0	.0	37.9	55	.7	2.1	2.1	1.4	55.9	1.4	.0	.0	.0	.0	.0	.0	.0	145
TOT	26	4	10	0	172	1	1	.2	210	2	8	4	3	351	.3	.5	.0	.0	.0	.0	.0	.0	578
PCT	4.5	.7	1.7	.0	29.8	.2	.2	36.3		.3	1.4	.7	.5	60.7	.5	.5	.0	.0	.0	.0	.0	.0	100.0

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNDTS)										TOTAL OBS	PCT FREQ	MEAN SPD	BY HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.9	2.3	4.9	2.7	.6	.3	103	11.7	18.2	11.3	.0	13.3	15.3	12.7	10.0	10.8	7.8								
NNE	.2	1.1	1.7	2.0	.5	.0	49	5.6	19.9	4.7	60.0	8.3	6.9	4.2	.0	6.3	2.3								
NE	.6	2.0	5.0	2.6	1.1	.1	101	11.5	19.5	12.9	.0	10.8	6.1	11.9	10.0	15.3	11.6								
ENE	.0	.8	1.6	2.5	.2	.0	45	5.1	21.7	4.7	.0	7.5	3.8	9.3	10.0	3.6	2.3								
E	.3	1.9	2.8	3.3	.9	.1	83	9.4	20.6	10.2	.0	12.5	10.7	4.2	20.0	9.0	8.5								
ESE	.1	.7	2.4	2.2	.8	.1	55	6.3	23.4	5.9	.0	5.8	3.8	9.3	10.0	9.9	3.9								
SE	.1	2.4	2.7	1.3	.2	.0	59	6.7	15.9	7.4	.0	6.7	8.4	5.9	.0	2.7	8.5								
SSE	.0	.2	1.4	1.0	.3	.1	27	3.1	23.4	1.6	.0	5.0	3.1	5.9	.0	3.6	1.6								
S	.5	1.8	2.0	.6	.6	.0	48	5.5	15.4	5.1	.0	4.2	7.6	5.1	.0	3.6	7.8								
SSW	.0	.8	1.1	.6	.0	.1	23	2.6	17.7	3.1	20.0	2.5	.0	1.7	10.0	2.7	3.9								
SW	.3	2.8	2.2	1.0	.8	.0	63	7.2	15.6	7.8	.0	3.3	8.4	5.1	.0	6.3	11.6								
WSW	.0	1.1	.7	1.3	.6	.2	34	3.9	22.9	2.7	.0	5.8	3.1	5.9	.0	5.4	2.3								
W	.2	2.0	2.5	1.5	.8	.1	63	7.2	18.3	7.8	.0	2.5	10.7	4.2	20.0	9.0	7.0								
WNW	.2	.7	1.1	.7	.2	.0	26	3.0	17.4	3.9	20.0	4.2	.0	3.4	.0	4.5	.8								
NW	.3	2.5	2.2	.8	.1	.0	52	5.9	13.0	5.5	.0	2.5	8.4	.8	.0	2.7	15.5								
NNW	.3	1.3	1.7	.8	.2	.0	38	4.3	15.8	4.3	.0	4.2	2.3	7.6	10.0	4.5	3.1								
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	1.3	216	317	218	70	11	11	1.3	.0	1.2	.0	.8	1.5	2.5	.0	.0	.0								
TOT OBS	48	24.5	36.0	24.8	8.0	1.3	880	100.0	18.4	256	5	120	131	118	10	111	129								
TOT PCT	5.5	24.5	36.0	24.8	8.0	1.3	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 (KNDTS)										TOTAL OBS	PCT FREQ	MEAN SPD	BY HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12				15	18	21									
N	1.9	6.4	5.7	2.8	.5	152	17.3	18.8	16.0	60.0	21.7	22.1	16.9	10.0	17.1	10.1	7.8								
NE	1.0	5.7	5.9	3.4	.6	146	16.6	20.2	17.6	.0	18.3	9.9	21.2	20.0	18.9	14.0	2.3								
E	1.8	3.3	5.7	4.3	.6	138	15.7	21.7	16.0	.0	18.3	14.5	13.6	30.0	18.9	12.4	11.6								
SE	1.3	3.2	3.9	1.4	.1	86	9.8	18.3	9.0	.0	11.7	11.5	11.9	.0	6.3	10.1	2.3								
S	1.7	2.8	2.6	.7	.2	71	8.1	16.1	8.2	20.0	6.7	7.6	6.8	10.0	6.3	11.6	8.5								
SW	2.0	4.1	3.2	.8	.9	97	11.0	18.1	10.5	.0	9.2	11.5	11.0	.0	11.7	14.0	3.9								
WSW	1.3	4.5	2.2	1.9	.2	89	10.1	18.0	11.7	20.0	6.7	10.7	7.6	20.0	13.5	7.8	11.6								
NW	2.6	4.2	2.7	.6	.1	90	10.2	14.2	19.8	.0	6.7	10.7	8.5	10.0	7.2	18.6	8.5								
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0								
CALM	1.3	301	280	140	28	11	1.3	.0	1.2	.0	.8	1.5	2.5	.0	.0	1.6	11.6								
TOT OBS	131	34.2	31.8	15.9	3.2	880	100.0	100.0	256	5	120	131	118	10	111	129	129								
TOT PCT	14.9	34.2	31.8	15.9	3.2	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)				PCT TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+
0003	3.1	26.1	36.4	24.1	7.3	1.9
0609	6.0	27.9	31.1	26.3	6.8	.8
1215	.8	14.1	43.0	28.1	10.9	.8
1821	5.4	25.0	37.1	22.1	8.3	1.3
TOT	37	216	317	218	70	11
PCT	4.2	24.5	36.0	24.8	8.0	1.3
						100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	9-10	11-15	16-20	21-25		
N	.3	.3	4.6	6.2	44	6.9				
NNE	.0	.5	2.3	3.3	24	6.8				
NE	.0	.8	4.6	7.4	50	7.1				
ENE	.0	.0	2.6	3.6	24	7.1				
E	.3	1.0	2.1	6.2	37	7.0				
ESE	.3	.5	2.1	5.1	31	7.0				
SE	.0	.8	1.5	3.6	23	7.0				
SSE	.8	.3	1.3	2.6	19	6.0				
S	.8	.3	1.3	1.8	16	5.7				
SSW	.3	.3	1.0	1.3	11	6.4				
SW	.0	2.1	.8	1.5	17	5.5				
WSW	.5	.5	2.1	1.8	19	6.1				
W	.0	1.8	2.1	2.3	24	6.0				
WNW	.0	.8	2.1	1.8	18	6.7				
NW	.0	.0	1.0	.8	7	6.6				
NNW	.0	.3	2.3	2.8	21	6.9				
VAR	.0	.0	.0	.0	0	.0				
CALM	.3	.5	.5	.0	5	4.2				
TOT OBS	13	41	133	203	390	6.6				
TOT PCT	3.3	10.5	34.1	52.1	100.0					

TABLE 5

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PERCENTAGE FREQUENCY OF NH <5/8 BY WIND DIRECTION										NH <5/8 TOTAL						
	000	149	150	299	300	599	600	999	1000	2000		3499	4999	5000	6499	7999	8000+
N	.0	.0	.0	.0	.3	.5	.0	.0	4.4	1.8	2.1	.5	.5	.0	.3	1.5	44
NNE	.3	.0	.0	.0	.5	.0	.0	.0	2.1	1.3	.5	.0	.0	.0	.0	.5	24
NE	1.0	.0	.0	.0	.0	.0	.0	.0	5.4	3.1	1.5	.0	.0	.0	.0	1.5	50
ENE	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.8	1.8	.0	.0	.0	.0	.3	24
E	.5	.0	.0	.0	.0	.0	.0	.0	1.8	3.1	1.5	.5	.3	.0	.0	1.3	37
ESE	.5	.0	.0	.0	.3	.8	.0	.0	.5	3.6	.5	.0	.3	.0	.0	1.5	31
SE	.0	.0	.0	.0	.0	.3	.0	.0	2.1	1.8	.5	.0	.3	.0	.0	1.0	23
SSE	.3	.0	.0	.0	.3	.3	.0	.0	1.0	1.0	1.0	.0	.0	.0	.0	1.0	19
S	.0	.0	.0	.0	.5	.3	.0	.0	.5	1.0	.3	.0	.3	.0	.0	1.3	16
SSW	.0	.0	.0	.0	.5	.0	.0	.0	.0	1.3	.3	.0	.3	.0	.0	.5	11
SW	.3	.0	.0	.0	.3	.0	.0	.0	.3	.8	.5	.0	.0	.0	.0	2.1	17
WSW	.0	.0	.0	.0	.3	.3	.0	.0	.8	.5	.0	.0	.0	.0	.0	2.1	19
W	.0	.0	.3	.3	.3	1.0	.8	.0	1.3	1.0	.3	.0	.0	.0	.0	2.3	24
WNW	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.0	.3	.0	.0	.0	.0	1.0	18
NW	.0	.0	.0	.0	.0	.0	.0	.0	.8	.5	.0	.0	.0	.0	.0	.5	7
NNW	.0	.0	.0	.0	.5	.5	.0	.0	1.5	.3	1.5	.3	.0	.0	.0	.3	21
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
TOT OBS	13	41	133	203	390	6.6			99	93	51	7	7	7	1	77	390
TOT PCT	3.3	10.5	34.1	52.1	100.0				25.4	23.8	13.1	1.8	1.8	1.8	.3	19.7	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)	VSBY (NM)									
	>10	>5	>2	>1	>1/2	>1/4	>50yd	>0		
OR >6500	.0	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >5000	.5	2.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
OR >3500	1.5	10.3	15.0	16.3	16.3	16.3	16.3	16.3	16.5	16.8
OR >2000	9.8	28.6	36.6	38.3	39.1	39.6	40.1	40.4	40.1	40.4
OR >1000	16.5	45.6	57.9	60.9	62.2	63.2	64.9	65.4	64.9	65.4
OR >600	18.8	51.4	64.2	67.4	68.9	69.9	71.7	72.2	71.7	72.2
OR >300	18.8	52.9	66.4	70.2	71.9	73.9	75.7	76.2	75.7	76.2
OR >150	18.8	53.1	66.7	70.4	72.2	74.2	75.9	76.4	75.9	76.4
OR >0	19.3	53.6	67.7	71.9	74.4	76.7	79.2	79.7	79.2	79.7
TOTAL	77	214	270	287	297	306	316	318	316	318

TOTAL NUMBER OF OBS: 399

PCT FREQ NH <5/8: 20.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	1.6	.2	4.2	8.0	4.9	9.8	15.2	7.8	45.5	2.7
										448

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	PCP	.4	.2	.7	.2	.4	.4	.4	.4	.0	.0	.2	.0	.2	.0	.4	.4	.0	.0	22	3.9	
	NO PCP	.0	.0	.2	.2	.0	.0	.0	.2	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	7	1.2
	TOTAL	2	1	5	2	2	3	2	2	3	0	0	1	1	3	0	2	2	0	0	29	5.1
1/2<1	PCP	.4	.4	.5	.7	.2	.7	.0	.0	.5	.2	.4	.2	.0	.0	.5	.4	.0	.0	.0	28	4.9
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	3	.5
	TOTAL	2	2	3	4	2	4	0	0	3	1	2	1	1	1	3	3	0	0	0	31	5.4
1<2	PCP	1.2	.9	1.1	.9	.9	.4	.5	.2	.2	.2	.5	.0	.2	.2	.5	.2	.0	.0	.2	46	8.1
	NO PCP	.4	.4	.5	.4	.2	.2	.2	.0	.0	.0	.2	.2	.0	.0	.2	.0	.0	.0	.0	15	2.6
	TOTAL	9	7	9	7	6	6	3	4	1	1	4	1	1	1	4	1	0	0	1	61	10.7
2<5	PCP	2.3	1.1	1.8	.0	.5	.9	.2	.5	.4	.2	.5	.4	.7	.0	.9	.4	.0	.0	.0	60	10.5
	NO PCP	.9	.2	1.1	.9	.7	.5	.4	.4	.2	.0	.2	.2	.2	.0	.0	.4	.0	.0	.0	34	6.0
	TOTAL	18	7	16	5	7	8	3	3	5	3	1	4	3	5	5	4	0	0	0	94	16.5
5<10	PCP	2.1	.5	.9	.2	.9	.2	.5	.0	.4	.0	.2	.5	.2	.5	.7	.5	.0	.0	.0	47	8.2
	NO PCP	3.3	.7	2.8	1.8	3.7	2.8	1.8	1.6	1.2	.9	1.2	2.1	1.4	1.4	.2	2.1	.0	.0	.2	166	29.1
	TOTAL	31	7	21	11	26	17	13	13	9	9	5	8	15	9	11	5	15	0	1	213	37.3
10+	PCP	.0	.5	.2	.0	.4	.0	.2	.0	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	10	1.8
	NO PCP	1.4	1.2	2.8	1.2	1.4	1.4	1.6	1.1	1.4	1.1	1.2	1.4	2.5	1.4	.9	.4	.0	.0	.7	133	23.3
	TOTAL	8	10	17	7	10	9	11	6	9	6	7	8	16	8	5	2	0	0	4	143	25.0
TOTAL PCT	70	34	71	36	54	43	33	24	25	14	26	29	35	35	20	24	27	0	6	571	100.0	
	12.3	6.0	12.4	6.3	9.5	7.5	5.8	4.2	4.4	2.5	4.6	5.1	6.1	6.1	3.5	4.2	4.7	.0	1.1	100.0		

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TABLE 9

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

VSBY (NM)	SPD KTS	WIND DIRECTION																CALM TOTAL	PCT								
		N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW			VAR							
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.0	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.5
	11-21	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.8
	22+	.2	.0	.3	.1	.2	.1	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	2.2
TOTAL	2	1	5	3	3	2	3	0	0	0	1	1	3	0	0	2	2	0	0	0	0	0	0	0	0	30	3.4
1/2<1	0-3	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.8	
	4-10	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.7	
	11-21	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	1.1	
	22+	.1	.1	.3	.3	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	1.9	
TOTAL	2	2	5	4	3	4	1	0	0	4	1	1	3	0	0	4	0	0	0	0	0	0	0	0	1	40	4.6
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.5	
	4-10	.1	.3	.1	.1	.0	.1	.0	.1	.0	.0	.1	.3	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	20	2.3	
	11-21	.6	.1	.6	.2	.3	.2	.1	.0	.0	.1	.0	.1	.0	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	29	3.3	
	22+	.5	.5	.6	.5	.2	.2	.1	.1	.0	.2	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	32	3.7	
TOTAL	11	9	11	7	9	4	5	2	2	1	7	2	4	2	7	1	0	0	0	0	0	0	0	0	1	85	9.7
2<5	0-3	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.7	
	4-10	.5	.2	.3	.1	.8	.1	.2	.0	.0	.5	.1	.2	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	37	4.2	
	11-21	1.7	.5	.7	.3	.6	.5	.8	.1	.5	.2	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	60	6.9	
	22+	1.0	.6	1.1	.5	.6	.9	.2	.5	.3	.2	.1	.6	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	68	7.8	
TOTAL	28	11	20	8	19	13	11	5	9	4	12	4	7	0	11	6	0	0	0	0	0	0	0	0	3	171	19.6
5<10	0-3	.6	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	2.2	
	4-10	.8	.2	.7	.1	.7	.2	.0	.0	.7	.3	.0	.1	.0	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	66	7.6	
	11-21	2.2	.2	1.6	.6	.8	1.1	.7	.8	.0	.6	.3	.6	.0	.0	.5	.8	.0	.0	.0	.0	.0	.0	.0	118	13.5	
	22+	1.4	.8	1.4	.8	2.5	.7	.6	.3	.5	.1	.6	.9	.0	.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	110	12.6	
TOTAL	43	11	33	13	35	19	22	9	19	8	19	16	19	0	12	12	0	0	0	0	0	0	0	0	2	313	35.9
10+	0-3	.1	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1.4	
	4-10	.9	.3	.9	.2	.2	.2	.1	.2	.6	.0	.6	.9	.0	.3	1.3	.1	.0	.0	.0	.0	.0	.0	.0	83	9.5	
	11-21	.5	.7	1.7	.2	.8	.6	.5	.7	.5	.1	1.6	.7	.0	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	89	10.2	
	22+	.3	.6	.2	.6	.5	.6	.5	.2	.2	.1	.5	.6	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	49	5.6	
TOTAL	16	14	27	9	13	12	18	8	14	9	19	10	28	12	16	4	0	0	0	0	0	0	0	0	4	233	26.7
TOTAL	102	48	101	44	82	54	59	27	48	23	62	34	62	26	52	37	0	0	0	0	0	0	0	0	11	872	100.0
PCT	11.7	5.5	11.6	5.0	9.4	6.2	6.8	3.1	5.5	2.6	7.1	3.9	7.1	3.0	6.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	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

HR	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	3.5	.0	3.5	7.0	27.0	21.7	10.4	1.7	2.6	.9	78.3	21.7	115
06009	3.0	.0	5.0	6.9	24.8	23.8	16.8	4.0	1.0	.0	65.1	14.9	101
12015	3.3	1.1	4.4	5.6	24.4	21.1	15.6	.0	.0	.0	75.6	24.4	90
18021	3.1	.0	3.1	7.1	23.5	26.5	8.2	2.0	3.1	.0	76.5	23.5	98
TOT	13	1	16	27	101	94	51	8	7	1	319	85	404
PCT	3.2	.2	4.0	6.7	25.0	23.3	12.6	2.0	1.7	.2	79.0	21.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							
00003	6.1	1.8	4.4	13.2	38.6	36.0	114
06009	3.0	3.0	4.0	17.0	39.0	34.0	100
12015	5.6	1.1	2.2	19.1	40.4	31.5	89
18021	6.3	5.2	6.3	9.4	44.6	28.1	96
TOT	21	11	17	58	162	130	399
PCT	5.3	2.8	4.3	14.5	40.6	32.6	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH < 5/8	TOTAL
(GMT)						
00003	3.5	11.4	35.1	43.9	21.1	114
06009	3.0	10.0	33.0	54.0	13.0	100
12015	3.4	13.5	36.0	41.6	22.5	89
18021	5.2	15.6	35.4	42.7	21.9	96
TOT	15	50	139	182	78	399
PCT	3.8	12.5	34.8	45.6	19.5	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				
45/49	.0	.0	.0	.2	.2	.6	.0	.0	.0	.0	5	1.0
40/44	.0	.0	.0	.4	1.8	3.7	3.5	3.1			64	12.5
35/39	.0	.0	.0	.6	2.0	7.0	14.5	19.4			222	43.4
30/34	.0	.0	.0	.0	1.0	3.7	9.6	19.0			170	33.3
25/29	.0	.0	.0	.0	.0	1.0	2.2	4.7			40	7.8
20/24	.0	.0	.0	.0	.0	.0	1.0	1.0			10	2.0
TOTAL	0	0	0	6	25	82	157	241			511	100.0
PCT	.0	.0	.0	1.2	4.9	16.0	30.7	47.2				

TABLE 14

TEMP	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW				
45/49	.0	.0	.0	.0	.4	.2	.2	.2	.2	.2	.0	.0
40/44	1.0	1.2	.8	1.8	2.7	1.4	2.0	1.6	2.0	1.6	.0	.2
35/39	4.3	6.7	9.2	4.7	4.7	5.9	3.7	3.7	3.7	3.7	.0	.6
30/34	6.3	4.1	4.3	2.0	1.8	5.3	4.3	4.9	4.3	4.9	.0	.4
25/29	3.3	1.6	.0	.2	.0	.2	.4	1.8	.4	1.8	.0	.4
20/24	.2	.2	.0	.0	.0	.0	.6	1.0	.6	1.0	.0	.0
TOTAL	77	70	73	44	49	66	57	67	57	67	0	8
PCT	15.1	13.7	14.3	8.6	9.6	12.9	11.2	13.1	11.2	13.1	.0	1.6

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00&03	45	44	41	34	27	24	22	34.2			254
06&09	45	43	42	35	27	24	22	34.4			249
12&15	45	41	39	34	28	24	23	33.6			124
18&21	45	41	40	34	27	25	23	33.7			239
TOT	45	43	41	34	27	24	22	34.1			866

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		
00&03	.0	1.3	4.4	17.1	31.0	46.2	87			158	
06&09	.0	1.8	8.0	13.5	28.8	47.9	86			163	
12&15	.0	.0	.0	20.0	32.5	47.5	87			40	
18&21	.0	.6	3.2	16.2	32.5	47.4	87			154	
TOT	0	6	25	82	159	243	87			515	

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TABLE 17

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

AIR-SEA TMP DI,	71	25	29	33	37	41	45	TOT	W	WD
	28	32	36	40	44	48		FOG	FOG	FOG
7/6	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
6	.0	.0	.0	.0	.0	.2	.4	3	.0	.6
5	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
4	.0	.0	.0	.0	.4	.4	.2	5	.0	1.0
3	.0	.0	.0	.0	.4	.4	.2	5	.0	1.0
2	.0	.0	.0	1.0	1.5	1.0	.0	17	.2	3.3
1	.0	.0	.0	.6	3.1	.0	.0	18	.0	3.8
0	.0	.0	.0	2.9	5.0	.0	.0	38	.0	7.9
-1	.0	.0	.0	2.9	2.1	.0	.0	24	.0	5.0
-2	.0	.4	.4	7.5	3.5	.0	.0	55	.2	11.3
-3	.0	.0	.8	8.4	1.0	.0	.0	49	.0	10.2
-4	.0	.0	2.3	10.2	.0	.0	.0	60	.2	12.3
-5	.0	.6	4.2	6.1	.0	.0	.0	52	.0	10.9
-6	.0	.0	6.7	1.0	.0	.0	.0	37	.2	7.5
-7/-8	.0	.8	8.1	1.3	.0	.0	.0	49	.0	10.2
-9/-10	.0	2.7	4.2	.0	.0	.0	.0	33	.0	6.9
-11/-13	.6	4.0	1.0	.0	.0	.0	.0	27	.0	5.6
-14/-16	.8	.2	.0	.0	.0	.0	.0	5	.2	.8
TOTAL	7	40	133	201	82	12	4	479	5	474
PCT	1.5	8.4	27.8	42.0	17.1	2.5	.8	100.0	1.0	99.0

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 PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 TABLE 18  
 AREA 0010 ATTU  
 51-55N 172-180E

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

HGT	N										TOTAL		
	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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.0	.0	.0	.0	.0	.5	1.0	1.5	.0	.0	.0	.0
5-6	.0	.0	3.0	.5	.0	.0	.0	.0	1.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.0	.5	1.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.5	.0	.0	.0	.0	1.5	.0	.0	.0	.0
12	.0	.0	.0	1.0	.0	.0	.0	.0	.5	.0	.0	.0	.0
13-16	.0	.0	.0	1.0	1.0	.0	.0	.0	2.5	.5	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	4.0	1.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	.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	.4	.7	10	3	.0	.0	.3	8	.8	.0	.0	.0
TOTAL	.0	2.0	3.5	5.0	1.5	.0	.0	1.5	4.0	11.1	.5	.0	21.6
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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

HGT	E										TOTAL		
	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	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.5	.0	.0	.0	.0	1.0	2.0	.0	.0	.0	.0
5-6	.5	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.0	.0	.5	1.0	.0	.0	.0
8-9	.0	.0	.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.5	4.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0
12	.0	.0	.0	1.5	.5	.0	.0	.0	.5	1.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.0	.0	.5	.5	.0	.0	.0
17-19	.0	.0	.0	1.5	1.0	.0	.0	.0	.5	.5	.5	.0	.0
20-22	.0	.0	.0	1.5	.5	.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+	1	0	7	20	7	.0	.0	.7	9	.9	.0	.0	.0
TOTAL	.5	.0	3.5	10.1	3.5	.5	.0	1.5	4.5	4.5	.3	.0	12.1
PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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 TABLE 18  
 PERIOD: (PRIMARY) (OVER-ALL) 1963-1970  
 AREA 0010 ATTU  
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S					TOTAL	SW					TOTAL	
	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	.0	.0	.0	.0	0	.0	.0	.5	.0	.0	.0	3
3-4	.0	1.0	.0	.0	.0	2	.0	1.0	.0	.0	.0	.0	2
5-6	.0	.5	.5	.0	.0	2	.0	.0	.5	.0	.0	.0	1
7	.0	.0	.5	.0	.0	1	.0	.0	1.0	.0	.0	.0	2
8-9	.0	.0	.0	.0	.5	1	.0	.0	.0	.5	.0	.0	3
10-11	.0	.0	1.0	.0	.0	2	.0	.0	.0	.5	.0	.0	1
12	.0	.0	1.0	.0	.0	2	.0	.0	.0	.5	.0	.0	2
13-16	.0	.0	1.0	.0	.5	3	.0	.0	.0	.5	.0	.0	2
17-19	.0	.0	1.0	.0	.5	3	.0	.0	.0	.5	1.0	.0	1
20-22	.0	.0	.0	.5	.0	1	.0	.0	.0	.0	1.5	.0	3
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	1
26-32	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	3	10	1	3	17	0	4	4	4	9	0	21
PCT	.0	1.5	5.0	.5	1.5	8.5	.0	2.0	2.0	2.0	4.5	.0	10.6

HGT	M					TOTAL	NW					TOTAL	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47
<1	.0	.5	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	1
1-2	.0	.5	1.5	.0	.0	2	.0	.5	.0	.0	.0	.0	11
3-4	.0	.0	1.5	.5	.0	4	.0	.5	1.0	.0	.0	.0	4
5-6	.0	.0	1.0	.0	.0	1	.0	.0	.5	.0	.0	.0	29
7	.0	.0	.0	.5	.0	2	.0	.5	.5	.0	.0	.0	18
8-9	.0	.0	.0	.0	.0	1	.0	.0	.5	.0	.0	.0	15
10-11	.0	.0	.0	1.0	.0	2	.0	.0	.0	.0	.0	.0	13
12	.0	.0	.5	.5	.0	2	.0	.0	.0	1.5	.0	.0	26
13-16	.0	.0	.0	1.0	1.5	5	.0	.0	.0	1.0	.0	.0	18
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	27
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	23
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	15
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
TOTAL	0	2	8	7	3	20	0	3	4	7	0	0	14
PCT	.0	1.0	4.0	3.5	1.5	10.1	.0	1.5	2.0	3.5	.0	.0	7.0
													100.0

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

FEBRUARY

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	2.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	5
1-2	.0	3.0	2.5	.0	.0	.0	.0	.0	.0	.0	11
3-4	.5	5.9	7.4	.5	.0	.0	.0	.0	.0	.0	29
5-6	.5	.5	5.9	2.0	.0	.0	.0	.0	.0	.0	18
7	.0	.5	4.9	2.0	.0	.0	.0	.0	.0	.0	15
8-9	.0	.5	1.5	3.0	1.5	.0	.0	.0	.0	.0	13
10-11	.0	.0	1.5	10.3	1.0	.0	.0	.0	.0	.0	26
12	.0	.0	1.5	5.4	2.0	.0	.0	.0	.0	.0	18
13-16	.0	.0	1.5	6.9	4.4	.5	.0	.0	.0	.0	27
17-19	.0	.0	1.5	5.9	3.9	.0	.0	.0	.0	.0	23
20-22	.0	.0	.0	3.4	3.9	.0	.0	.0	.0	.0	15
23-25	.0	.0	.0	.0	1.0	.5	.0	.0	.0	.0	3
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
TOTAL	6	22	57	80	36	2	203				
PCT	3.0	10.8	28.1	39.4	17.7	1.0	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)														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	.0	1.5	6.7	2.9	.9	.3	2.0	.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55
6-7	.0	.3	.3	2.9	3.5	2.9	4.7	2.3	3.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71
8-9	.0	.0	1.7	.3	2.6	3.2	4.9	3.8	3.5	5.5	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	97
10-11	.0	.0	.0	.3	.6	.3	.9	.3	.9	2.9	2.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	31
12-13	.0	.0	.0	.3	.3	.0	.6	.6	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
>13	.0	.0	.0	.0	.0	.3	.3	.0	.6	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
INDET	18.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	69
TOTAL	65	6	30	23	21	27	46	26	35	33	23	3	0	0	0	0	0	0	0	0	344
PCT	18.9	1.7	8.7	6.7	7.8	7.8	13.4	7.6	10.2	9.6	6.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	100.0

MARCH

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1904-1970

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT OB TIME	TOTAL OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN					PCPN	PCPN	FOG WD	SMOKE	HAZE	
N	.3	.0	.0	.0	.0	.0	.0	2.9	21	.0	.7	.0	.0	.0	6.8	75
NNE	.0	.0	.3	.0	2.5	.1	.0	2.4	17	.0	.0	.0	.0	.0	3.9	45
NE	.1	.0	.1	.0	2.1	.0	.0	3.3	24	.0	.1	.0	.0	.0	4.7	59
ENE	.1	.0	.0	.0	3.1	.0	.1	2.5	18	.0	.4	.0	.0	.0	1.8	34
E	.8	.0	.7	.0	1.8	.0	.0	3.3	24	.0	.8	.1	.0	.0	5.6	71
ESE	1.0	.0	.0	.0	1.4	.0	.0	2.1	15	.0	.4	.0	.0	.0	2.8	38
SE	1.5	.0	.7	.0	.8	.0	.3	3.3	24	.0	.6	.0	.0	.0	2.5	47
SSE	.1	.0	.0	.0	1.0	.0	.0	1.1	8	.0	.8	.0	.0	.0	2.2	30
S	.6	.0	.1	.0	.7	.0	.0	1.4	10	.0	.6	.1	.0	.0	4.3	46
SSW	.3	.0	.0	.0	.1	.0	.0	.4	3	.0	.0	.0	.0	.0	3.6	29
SW	.4	.0	.1	.0	1.1	.0	.0	1.2	11	.0	.0	.0	.0	.0	3.9	39
WSW	.0	.0	.0	.0	1.1	.0	.0	1.1	8	.0	.0	.0	.0	.0	3.8	35
W	.0	.0	.1	.0	1.5	.0	.0	1.7	12	.0	.0	.0	.0	.0	5.4	51
WNW	.0	.3	.0	.0	1.1	.0	.0	1.3	9	.0	.0	.0	.0	.0	1.7	21
NW	.1	.0	.0	.0	1.1	.0	.0	2.4	17	.0	.1	.0	.0	.0	3.2	41
NNW	.0	.0	.0	.0	1.7	.0	.0	1.7	12	.0	.3	.1	.0	.0	2.8	35
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.1	.0	.1	.0	.0	.4	3	.0	.1	.0	.0	.0	2.6	23
TOT OBS	40	2	17	0	177	2	3	32.8	236	0	36	4	0	0	443	719
TOT PCT	5.6	.3	2.4	.0	24.6	.3	.4			.0	5.0	.6	.0	.0	61.6	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT OB TIME	TOTAL OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN					PCPN	PCPN	FOG WD	SMOKE	HAZE	
00003	4.0	.0	1.0	.0	31.3	.5	1.0	37.9	75	.0	6.1	1.0	.0	.0	55.1	198
06009	7.6	.5	3.0	.0	23.7	.0	.0	33.3	66	.0	5.6	1.0	.0	.0	60.1	198
12015	2.0	.0	2.0	.0	18.3	.0	.7	22.9	35	.0	4.6	.0	.0	.0	72.5	153
18021	7.2	.5	3.1	.0	22.2	.5	.0	32.5	63	.0	3.6	.0	.0	.0	63.9	194
TOT	40	2	17	0	180	2	3	32.2	239	0	37	4	0	0	463	743
PCT	5.4	.3	2.3	.0	24.2	.3	.4			.0	5.0	.5	.0	.0	62.3	100.0

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PERIOD: (PRIMARY) 1944-1970  
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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)											48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09	12					15	18	21									
N	.2	2.5	3.4	2.5	.7	.3	107	9.7	19.2	9.8	20.0	12.0	9.7	8.5	23.1	6.8	9.4										
NNE	.0	.8	2.5	1.7	1.0	.0	67	6.1	22.9	5.1	.0	7.6	5.8	6.5	.0	8.8	4.4										
NE	.3	1.4	2.9	2.4	.5	.4	86	7.8	20.8	8.2	.0	7.0	5.2	9.2	7.7	7.5	9.4										
ENE	.0	.5	1.5	1.8	.6	.1	51	4.6	23.3	4.4	.0	7.6	2.6	5.2	.0	2.0	6.3										
E	.4	3.5	4.9	3.5	.7	.0	144	13.0	17.8	16.5	20.0	9.5	20.8	8.5	.0	6.8	13.1										
ESE	.0	.6	1.4	2.1	.4	.0	49	4.4	22.0	3.8	.0	4.4	3.9	6.5	.0	4.8	4.4										
SE	.4	2.5	2.6	1.2	.4	.1	79	7.1	16.1	8.2	.0	4.4	5.2	5.2	15.4	6.1	11.9										
SSE	.0	1.1	1.1	.9	.3	.0	37	3.3	18.2	3.5	.0	5.1	3.2	3.3	.0	4.8	.6										
S	.4	2.4	2.2	.8	.3	.0	66	6.0	14.8	6.6	.0	6.3	4.5	3.9	7.7	9.5	4.4										
SSW	.0	1.3	1.5	.5	.0	.0	36	3.3	14.3	2.8	.0	4.4	1.9	5.2	7.7	2.7	2.5										
SW	.4	1.1	2.5	1.1	.2	.0	58	5.2	16.0	5.1	20.0	5.1	5.8	5.9	7.7	6.1	3.1										
WSW	.0	1.4	1.5	1.9	.5	.0	58	5.2	20.1	6.0	.0	5.1	4.5	5.2	7.7	4.8	5.0										
W	.5	1.9	3.3	1.3	.4	.4	84	7.6	18.0	8.5	.0	8.2	7.1	6.5	15.4	8.2	5.6										
WNW	.3	1.1	1.0	.6	.1	.0	34	3.1	14.7	1.6	20.0	1.9	4.5	4.6	7.7	2.7	3.8										
NW	.7	2.2	2.1	1.0	.4	.1	71	6.4	14.8	6.3	.0	3.8	7.8	5.2	.0	7.5	8.8										
NNW	.2	.9	2.3	.9	.3	.0	50	4.5	18.2	1.9	20.0	5.1	5.2	6.5	.0	5.4	5.6										
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
CALM	2.6	278	406	267	73	14	29	2.6	17.8	1.6	.0	2.5	1.9	3.9	.0	5.4	1.9										
TOT OBS	68	25.1	36.7	24.1	6.6	1.3	1106	100.0	17.8	316	5	158	154	153	13	147	160										
TOT PCT	6.1	25.1	36.7	24.1	6.6	1.3	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)											41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12	15					18	21										
N	1.1	5.3	5.7	2.4	1.2	174	15.7	20.7	14.9	20.0	19.6	15.6	15.0	23.1	15.6	13.8											
NE	1.2	3.8	3.5	3.0	.9	137	12.4	21.8	12.7	.0	14.6	7.8	14.4	7.7	9.5	15.6											
E	2.1	5.4	6.6	2.9	.5	193	17.5	18.9	20.3	20.0	13.9	24.7	15.0	.0	11.6	17.5											
SE	1.8	3.9	3.2	1.4	.3	116	10.5	16.7	11.7	.0	9.5	8.4	8.5	15.4	10.9	12.5											
S	1.2	4.8	2.6	.5	.1	102	9.2	14.6	9.5	.0	10.8	6.5	9.2	15.4	12.2	6.9											
SW	1.0	4.2	3.6	1.4	.4	116	10.5	18.0	11.1	20.0	10.1	10.4	11.1	15.4	10.9	8.1											
W	1.6	4.6	2.7	1.2	.5	118	10.7	17.1	10.1	20.0	10.1	11.7	11.1	23.1	10.9	9.4											
NW	1.6	4.5	3.7	.9	.2	121	10.9	16.2	8.2	20.0	8.9	13.0	11.8	.0	12.9	14.4											
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
CALM	2.6	404	350	151	44	29	2.6	17.8	1.6	.0	2.5	1.9	3.9	.0	5.4	1.9											
TOT OBS	157	36.5	31.6	13.7	4.0	1106	100.0	17.8	316	5	158	154	153	13	147	160											
TOT PCT	14.2	36.5	31.6	13.7	4.0	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) 1944-1970  
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TABLE 4

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)						PCT TOTAL OBS	
	1-3	4-10	11-21	22-33	34-47	48+		
00003	3.4	26.8	36.4	25.9	5.0	.9	17.5	321
06009	4.5	22.4	38.1	23.1	7.7	1.9	18.3	312
12015	.6	22.3	38.0	24.7	9.6	1.2	19.3	166
18021	4.2	27.7	34.9	23.1	5.5	1.0	16.9	307
TOT	39	278	406	267	73	14	29	1106
PCT	3.5	25.1	36.7	24.1	6.6	1.3	2.6	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)								MEAN CLOUD COVER	TOTAL OBS
	0-2	3-4	5-7	8 &	8 &	8 &	8 &	8 &		
N	.2	2.2	4.3	4.5	57	6.4				
NNE	.0	1.0	1.6	3.4	30	6.7				
NE	.0	.4	2.2	4.9	38	7.3				
ENE	.0	.2	.6	3.4	21	7.6				
E	.6	.2	3.4	6.3	53	7.0				
ESE	.2	.4	1.2	3.0	24	6.9				
SE	.0	.2	1.0	3.0	21	7.4				
SSE	.2	.2	.8	3.2	22	7.2				
S	1.0	.8	2.4	2.8	35	5.8				
SSW	.4	1.0	2.6	.6	23	5.3				
SW	.2	1.4	2.2	2.8	33	6.2				
WSW	.2	.2	3.2	1.0	23	6.2				
W	.2	1.2	4.3	2.6	42	6.1				
WNW	.2	.2	.6	2.0	15	7.0				
NW	.4	.8	2.8	1.2	26	5.6				
NNW	.4	.8	2.6	1.4	26	5.8				
VAR	.0	.0	.0	.0	0	.0				
CALM	.4	.2	.6	2.4	18	6.7				
TOT OBS	23	57	183	244	507	6.5				
TOT PCT	4.5	11.2	36.1	48.1	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)										NH <5/8 ANY HGT	TOTAL OBS	
	000	149	150	299	300	300	300	300	300	300			
N	.6	.0	.0	.0	.4	1.4	1.6	3.4	1.0	.0	.2	.0	57
NNE	.0	.0	.0	.0	.2	.2	1.2	2.2	.6	.2	.4	.0	30
NE	.4	.0	.0	.0	.4	.8	2.4	1.8	.8	.0	.0	.0	38
ENE	.6	.0	.0	.0	.0	.2	1.8	1.2	.0	.0	.0	.2	21
E	1.2	.0	.0	.0	.0	.4	2.8	3.4	1.2	.0	.0	.0	53
ESE	.6	.0	.0	.0	.0	.4	1.2	1.2	.6	.0	.0	.0	24
SE	1.0	.0	.0	.0	.0	.2	1.0	1.4	.0	.2	.0	.0	21
SSE	.8	.0	.0	.0	.0	.4	.8	.8	.2	.0	.0	.0	22
S	.4	.0	.0	.0	.0	.4	1.2	1.4	1.6	.0	.0	.2	35
SSW	.0	.0	.0	.0	.0	.4	.8	1.2	.6	.0	.0	.0	23
SW	.2	.0	.0	.0	.0	.0	.6	2.2	2.0	.0	.0	.0	33
WSW	.0	.0	.0	.0	.0	.0	.2	1.4	1.8	.0	.0	.0	23
W	.4	.0	.0	.0	.0	.2	1.6	2.0	2.0	.4	.0	.2	42
WNW	.6	.0	.0	.0	.2	.6	.4	.4	.2	.2	.0	.0	15
NW	.2	.0	.0	.0	.0	.4	.8	.6	1.0	.6	.0	.0	26
NNW	.4	.0	.0	.0	.4	.2	1.0	1.2	.6	.2	.0	.0	26
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	2.6	.2	.0	.0	.0	.0	18
TOT OBS	37	0	0	0	8	31	110	130	71	9	3	4	507
TOT PCT	7.3	.0	.0	.0	1.6	6.1	21.7	25.6	14.0	1.8	.6	.8	100.0

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1904-1970

MARCH

AREA 0010 ATTU  
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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	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	= OR	
OR >6500	.2	1.2	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
OR >5000	1.0	2.9	3.1	3.1	3.1	3.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	
OR >3500	8.0	16.0	16.6	17.0	17.0	17.0	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	
OR >2000	15.0	35.7	39.2	41.5	41.5	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	
OR >1000	20.9	46.0	56.9	62.8	62.8	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	
OR >600	22.8	50.9	62.8	68.6	68.6	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	
OR >300	22.8	51.1	63.7	70.0	70.0	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
OR >150	22.8	51.1	63.7	70.0	70.0	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	
OR > 0	23.0	52.0	66.5	73.1	73.1	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	
TOTAL	118	267	341	375	375	387	387	387	387	387	387	387	387	387	387	387	387

TOTAL NUMBER OF OBS: 513 PCT FREQ NH <5/8: 20.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
2.0	.3	4.7	6.4	5.5	7.7	14.8	10.4	41.1	7.0	596

MARCH

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1904-1970

AREA 0010 ATTU  
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TABLE 6

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	VAR	CALM	TOTAL	PCT	
																					PCP
<1/2	4	.1	.0	.0	.3	.4	.4	.0	.6	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	25	3.5
1/2<1	3	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	2.9
1<2	6	.4	1.2	.8	.1	.6	.1	.7	.1	.4	.3	.0	.3	.4	.7	.6	.3	.0	.0	51	7.1
2<5	14	.8	.4	.8	.6	.7	.6	.1	.3	.8	.4	.3	.1	.7	.1	.3	.6	.0	1.1	63	8.7
5<10	27	.6	.6	.4	.1	.7	.7	1.4	.4	.0	.1	.8	2.1	1.9	.3	.6	.0	.0	.4	125	17.3
10+	21	.1	.8	1.7	.4	2.5	1.1	1.5	1.4	2.5	1.1	1.5	2.1	2.8	.6	1.5	.0	.0	.0	19	2.6
TOTAL	75	50	59	36	70	38	38	46	29	45	29	39	36	52	22	40	0	22	722	100.0	
PCT	10.4	6.9	8.2	5.0	9.7	5.3	5.3	6.4	4.0	6.2	4.0	5.4	5.0	7.2	3.0	5.5	.0	3.0	100.0		

MARCH

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1904-1970

AREA 0010 ATTU  
51-55N 172-180E

TABLE 9

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

VSBY (NH)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	
	4-10	.1	.0	.1	.2	.2	.1	.2	.3	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	15	1.4
	11-21	.3	.0	.0	.1	.2	.3	.1	.0	.0	.1	.1	.0	.0	.1	.0	.1	.0	.0	.0	14	1.3
	22+	.0	.2	.3	.2	.3	.0	.0	.0	.1	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	17	1.6
	TOTAL	4	2	4	5	7	6	3	5	2	1	1	2	0	2	1	1	0	0	46	4.2	
1/2<1	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.3
	4-10	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.3
	11-21	.1	.3	.3	.4	.0	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	19	1.7
	22+	.2	.0	.5	.2	.0	.1	.0	.0	.0	.2	.0	.3	.3	.4	.1	.1	.1	.0	.0	19	1.7
	TOTAL	3	3	11	8	1	3	0	1	2	0	0	2	4	1	1	4	0	0	44	4.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.4	7	.6
	4-10	.0	.2	.0	.0	.3	.0	.0	.1	.1	.1	.0	.0	.0	.2	.1	.2	.0	.0	.0	13	1.2
	11-21	.5	.7	.5	.2	.4	.0	.3	.0	.2	.2	.0	.5	.4	.0	.1	.3	.0	.0	.0	44	4.0
	22+	.1	.5	.4	.2	.6	.5	.4	.1	.1	.2	.2	.1	.2	.2	.4	.4	.0	.0	.0	44	4.0
	TOTAL	6	15	9	4	14	5	7	2	7	3	2	6	6	5	7	6	0	4	108	9.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.1	.1	.1	.0	.0	.7	15	1.4
	4-10	.5	.1	.2	.1	.5	.0	.1	.2	.4	.3	.2	.2	.3	.2	.6	.1	.1	.0	.0	42	3.8
	11-21	.4	.2	.4	.1	.5	.3	.8	.1	.4	.1	.2	.1	.4	.2	.1	.8	.0	.0	.0	53	4.9
	22+	.9	1.1	.7	.7	.9	.5	.3	.5	.0	.1	.1	.3	.3	.3	.3	.2	.0	.0	.0	78	7.1
	TOTAL	19	15	14	10	21	9	15	8	10	5	5	6	10	8	12	13	0	8	188	17.2	
5<10	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	.3	.0	.0	.0	.6	17	1.6
	4-10	1.2	.4	.4	.1	.5	.2	.7	.3	.7	.7	.5	.3	.7	.6	.8	.4	.0	.0	.0	93	8.5
	11-21	1.1	1.1	.8	.4	1.3	.5	.8	.4	.6	.4	1.3	.9	1.1	.2	1.2	.3	.0	.0	.0	135	12.4
	22+	1.6	.6	.7	.8	.9	.5	.8	.3	.4	.4	.5	.6	.7	.1	.5	.4	.0	.0	.0	110	10.1
	TOTAL	44	23	21	14	30	14	26	10	19	16	27	20	32	10	31	11	0	7	355	32.5	
10+	0-3	.1	.0	.1	.0	.4	.0	.2	.0	.1	.0	.2	.0	.1	.1	.3	.0	.0	.0	.8	25	2.3
	4-10	.8	.2	.7	.0	1.8	.4	1.6	.3	1.0	.2	.5	.8	.9	.1	.6	.0	.0	.0	.0	111	10.2
	11-21	1.2	.3	1.0	.5	2.6	.2	.5	.4	.9	.8	1.0	.1	1.4	.5	.7	.5	.0	.0	.0	136	12.5
	22+	.6	.4	.6	.5	1.3	.5	.2	.3	.3	.0	.5	1.1	.5	.0	.0	.5	.0	.0	.0	79	7.2
	TOTAL	30	9	27	10	66	12	26	10	25	11	23	22	32	7	18	14	0	9	351	32.1	
	TOTAL	106	67	86	51	139	49	77	36	65	36	58	58	84	33	70	49	0	28	1092	100.0	
	PCT	9.7	6.1	7.9	4.7	12.7	4.5	7.1	3.3	6.0	3.3	5.3	5.3	7.7	3.0	6.4	.5	.0	2.6	100.0		

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1904-1970

MARCH

AREA 0010 ATTU  
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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		TOTAL OBS
	149	7.6	299	.0	599	1.5	999	4.5	1999	18.2	3499	31.1	4999	14.4	6499	1.5	7999	.8	3.0	82.6	17.4		
00003																							132
06009																							133
12015																							127
18021																							136
TOT	41	7.6	0	0	8	31	112	135	71	9	3	5	415	113	528								
PCT	7.8	1.5	0	1.5	5.9	21.2	25.6	13.4	1.7	.6	.9	78.6	21.4	100.0									

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2		1/2<1		1<2		2<5		5<10		10+		TOTAL OBS	
	22	4.3	12	2.3	44	8.6	78	15.2	34.7	178	34.9	179	513	100.0
00003	5.5	2.3	2.3	6.3	11.7	34.4	39.8	128						
06009	3.8	2.3	2.3	14.6	35.4	41.5	130							
12015	5.0	2.5	14.9	18.2	33.9	25.6	121							
18021	3.0	2.2	11.2	16.4	35.1	32.1	134							
TOT	22	12	44	78	178	34.9	513							
PCT	4.3	2.3	8.6	15.2	34.7	34.9	100.0							

TABLE 12

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

HOUR (GMT)	<150		<600		<1000		1000+ NH <5/8		TOTAL OBS
	<50YD	<1	<1	<5	AND5+	AND 5+			
00003	6.3	9.4	29.7	54.7	15.6	128			
06009	4.6	10.0	30.0	47.7	22.3	130			
12015	10.7	17.4	45.5	37.2	17.4	121			
18021	6.0	9.0	41.0	14.9	134				
TOT	35	58	187	236	90	513			
PCT	6.8	11.3	36.5	46.0	17.5	100.0			

MARCH

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1904-1970

AREA 0010 ATTU  
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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
45/49	.0	.0	.0	.0	.0	.0	.7	.0	4	.7
40/44	.0	.0	.0	.2	1.1	3.0	4.8	8.0	96	17.0
35/39	.0	.0	.0	.4	1.6	6.0	12.9	22.1	243	43.0
30/34	.0	.0	.0	.0	1.4	3.7	10.1	16.6	180	31.9
25/29	.0	.0	.0	.0	.0	.2	1.9	4.8	39	6.9
20/24	.0	.0	.0	.0	.0	.0	.0	.5	3	.5
TOTAL	0	0	0	3	23	73	172	294	565	100.0
PCT	.0	.0	.0	.5	4.1	12.9	30.4	52.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	.2	.0	.2	.0	.0	.0	.0
	1.4	6.2	4.1	2.5	1.2	1.2	1.2	.2	.0	.2
	4.4	11.3	6.0	4.2	6.0	3.4	2.3	.0	.0	.7
	6.9	3.0	2.8	.5	1.9	3.2	8.0	.0	.0	.5
	2.7	1.1	.4	.0	.0	.9	1.6	.0	.0	.4
	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0
	80	70	120	74	41	53	49	68	0	10
	14.2	12.4	21.2	13.1	7.3	9.4	8.7	12.0	.0	1.8

TABLE 15

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

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	45	44	43	36	27	25	23	35.4	316
06009	45	44	41	35	26	23	23	34.6	308
12015	42	40	39	34	27	23	23	33.3	166
18021	42	41	40	34	26	23	23	33.9	310
TOT	45	42	41	35	27	23	23	34.4	1100

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.6	4.5	10.6	31.8	52.5	88			179
06009	.0	1.1	4.0	14.9	32.0	48.0	87			175
12015	.0	.0	10.3	17.2	31.0	41.4	85			29
18021	.0	.0	2.7	12.6	27.3	57.4	89			183
TOT	0	3	23	73	172	295	88			566

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1904-1970

MARCH

AREA 0010 ATTU  
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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	21	25	29	33	37	41	45	TOT	W	MO
	24	28	32	36	40	44	48		FOG	FOG
9/10	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.2	.6	.4	6	.0	1.1
6	.0	.0	.0	.0	.9	.7	.0	9	.6	1.1
5	.0	.0	.0	.0	.2	1.5	.0	9	.0	1.7
4	.0	.0	.0	.2	1.7	.9	.0	15	.2	2.6
3	.0	.0	.0	.0	.9	.9	.0	10	.0	1.8
2	.0	.0	.0	.4	6.7	.2	.0	39	.6	6.7
1	.0	.0	.0	.6	5.0	.2	.0	31	.4	5.4
0	.0	.0	.4	3.1	8.5	.0	.0	65	1.5	10.5
-1	.0	.0	.0	2.8	2.8	.0	.0	30	.4	5.2
-2	.0	.0	.4	7.8	1.3	.0	.0	51	.7	8.7
-3	.0	.0	.4	6.3	.6	.0	.0	39	.2	7.0
-4	.0	.0	1.1	4.8	.7	.0	.0	36	.4	6.3
-5	.0	.4	2.8	4.1	.6	.0	.0	42	.4	7.4
-6	.0	.2	4.1	2.0	.0	.0	.0	34	.2	6.1
-7/-8	.0	3.0	7.2	1.3	.7	.0	.0	66	.4	11.8
-9/-10	.0	3.7	1.1	.0	.0	.0	.0	26	.2	4.6
-11/-13	.9	2.2	.6	.0	.0	.0	.0	20	.0	3.7
-14/-16	1.5	.2	.6	.0	.0	.0	.0	12	.0	2.2
TOTAL	13	52	100	180	166	28	.2	541	32	509
PCT	2.4	9.6	18.5	33.3	30.7	5.2	.4	100.0	5.9	94.1

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

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

HGT	AREA 0010 ATTU 51-55N 172-180E													
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
1-2	.0	1.1	.0	.0	.0	.0	2	.0	.0	.6	.0	.0	.0	1
3-4	.0	2.8	.6	.0	.0	.0	6	.0	1.1	.6	1.1	.0	.0	5
5-6	.0	.0	.6	.6	.0	.0	1	.0	.0	1.7	.6	.0	.0	1
7	.0	.0	1.7	2.2	.0	.0	7	.0	.0	.0	.0	.0	.0	3
8-9	.0	.0	2.8	.0	.0	.0	5	.0	.0	1.7	.6	.0	.0	1
10-11	.0	.0	1.7	1.7	.6	.6	8	.0	.0	1.1	1.1	.0	.0	4
12	.0	.0	1.1	.0	.6	.0	3	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	1.7	.6	.0	4	.0	.0	.0	.6	.6	.0	2
17-19	.0	.0	.0	.6	.0	.0	1	.0	.0	.0	1.1	.0	.6	2
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	2.2	.0	4
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	7	14	12	3	1	37	0	2	7	9	5	1	24
PCT	.0	3.9	7.8	6.7	1.7	.6	20.7	.0	1.1	3.9	5.0	2.8	.6	13.4

HGT	AREA 0010 ATTU 51-55N 172-180E													
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL
<1	.0	.0	.0	.0	.0	.0	1	.0	.6	.0	.0	.0	.0	1
1-2	.0	.0	.6	.0	.0	.0	1	.0	.0	1.1	.0	.0	.0	3
3-4	.0	1.1	1.1	.0	.0	.0	4	.0	2.8	1.1	.0	.0	.0	7
5-6	.0	.6	.6	2.2	.0	.0	6	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.6	1.7	.0	.0	1	.0	.0	1.1	1.1	.0	.0	4
8-9	.0	.0	.6	1.7	.0	.0	4	.0	.0	.0	.6	.0	.0	1
10-11	.0	.0	.6	1.7	.0	.0	3	.0	.0	.0	.6	.0	.0	1
12	.0	.0	.6	.6	.0	.0	2	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.6	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	4	7	11	2	0	24	0	7	6	4	0	0	17
PCT	.0	2.2	3.9	6.1	1.1	.0	13.4	.0	3.9	3.4	2.2	.0	.0	9.5

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

HGT	S					TOTAL	SH					TOTAL
	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
1-2	.0	.6	.0	.0	.0	1	.0	.0	.6	.0	.0	1
3-4	.0	2.8	1.1	.0	.0	7	.0	1.1	.0	.0	.0	2
5-6	.0	.0	1.1	.6	.0	3	.0	.6	1.1	.0	.0	3
7	.0	.0	1.7	1.7	.0	6	.0	2.2	.6	.0	.0	5
8-9	.0	.0	.6	.0	.0	1	.0	.0	1.1	.0	.0	2
10-11	.0	.0	.6	.0	.0	1	.0	.0	.6	.0	.0	1
12	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	0	.0	.6	1.7	.0	.0	0
17-19	.0	.0	.0	.0	.0	0	.0	.0	1.1	.6	.0	7
20-22	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	1
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	1.1	.0	2
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
TOTAL	.0	3.4	5.0	2.2	.0	19	.0	8	9	4	.0	24
PCT	.0	.0	.0	.0	.0	10.6	.0	4.5	5.0	2.2	1.7	13.4

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

HGT	W					TOTAL	NW					TOTAL
	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
1-2	.0	.6	.6	.0	.0	2	.6	1.1	.0	.0	.0	2
3-4	.0	1.7	1.7	.0	.0	6	.0	.0	1.1	.0	.0	2
5-6	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
7	.0	.0	1.7	.0	.0	3	.0	.0	.6	.0	.0	1
8-9	.0	.0	.0	.0	.0	0	.0	.0	.6	.0	.0	1
10-11	.0	.0	.6	.6	.0	2	.0	.0	.0	1.1	.0	2
12	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	1
13-16	.0	.0	.0	.0	.0	4	.0	.0	.0	.6	.0	6
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.6	.0	1	.0	.0	.0	.0	1.7	3
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
87+	.0	.4	.8	.0	.0	0	.0	.0	.0	.0	.0	0
TOTAL	.0	2.2	4.5	3.9	.0	19	.6	3	5	1.7	3	15
PCT	.0	.0	.0	.0	.0	10.6	.6	1.7	2.8	1.7	1.7	8.4

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

MARCH

AREA 0010 ATTU  
51-55N 172-180E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	10.6	1.5	.0	.0	.0	.0			24
1-2	.0	3.5	3.0	.0	.0	.0			13
3-4	.0	12.1	6.5	1.0	.0	.0			39
5-6	.0	1.0	3.0	3.5	.0	.0			15
7	.0	2.0	8.5	4.5	.0	.0			30
8-9	.0	.0	5.0	2.5	.0	.0			15
10-11	.0	.0	3.5	6.5	.5	.5			22
12	.0	.0	1.5	1.0	.5	.0			6
13-16	.0	.5	1.5	5.5	2.0	.0			19
17-19	.0	.0	.0	2.0	.0	.5			5
20-22	.0	.0	.0	.5	5.0	.0			11
23-25	.0	.0	.0	.0	.0	.0			0
26-32	.0	.0	.0	.0	.0	.0			0
33-40	.0	.0	.0	.0	.0	.0			0
41-48	.0	.0	.0	.0	.0	.0			0
49-60	.0	.0	.0	.0	.0	.0			0
61-70	.0	.0	.0	.0	.0	.0			0
71-86	.0	.0	.0	.0	.0	.0			0
87+	.0	.0	.0	.0	.0	.0			0
TOTAL	21	41	65	54	16	2			199
PCT	10.6	20.6	32.7	27.1	8.0	1.0			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	3-4	5-6	7	8-9	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	.5	4.0	4.3	2.6	1.2	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	3	
6-7	.0	.7	3.3	2.6	1.2	2.1	3.8	1.2	.9	.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	8
8-9	.0	2.4	3.6	2.6	2.6	2.6	3.1	.9	2.6	.7	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	8
10-11	.0	.0	.2	.0	.0	.0	.7	.7	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	11
12-13	.0	.0	.0	.0	.0	.2	.0	.5	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	13
>13	.0	.0	.0	.0	.0	.5	.2	.0	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	12
INDET	33.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	0
TOTAL	142	30	48	33	14	28	34	14	23	9	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	422	5
PCT	33.6	7.1	11.4	7.8	3.3	6.6	8.1	3.3	5.5	2.1	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

APRIL

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1902-1969

AREA 0010 ATTU  
51-55N 172-180E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	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					FG MD	SMOKE	DUST	HAZE	BLWG	
N	.0	.0	.0	.0	1.2	.0	.0	1.2	10	.0	.2	.0	.0	.0	4.8	53
NNE	.1	.0	.0	.0	.4	.0	.0	.4	4	.0	.1	.2	.0	.0	2.7	30
NE	.4	.0	.1	.0	1.4	.0	.0	1.4	16	.0	.0	.0	.0	.0	2.0	33
ENE	.5	.0	.1	.0	.1	.0	.0	.7	6	.0	.1	.0	.0	.0	2.5	28
E	.8	.4	.5	.0	.8	.0	.0	2.4	20	.0	1.1	.0	.0	.0	2.4	49
ESE	.2	.0	.4	.0	1.1	.0	.0	1.4	12	.0	.8	.1	.0	.0	1.5	33
SE	.5	.0	.4	.0	.2	.0	.0	1.1	9	.0	.4	.0	.0	.0	2.7	35
SSE	.6	.0	.4	.0	.7	.0	.0	1.1	9	.0	.1	.0	.0	.0	1.8	25
S	.7	.1	1.1	.0	.0	.0	.0	2.6	22	.0	.9	.0	.0	.0	4.5	69
SSW	.5	.0	.5	.0	.4	.0	.0	1.2	10	.0	.5	.2	.0	.0	5.4	62
SW	.2	.0	.5	.0	.2	.0	.0	.9	8	.0	.7	.0	.0	.0	5.0	56
WSW	.5	.0	.2	.0	.8	.0	.0	1.3	11	.0	.1	.4	.0	.0	10.3	102
W	.0	.0	.2	.0	1.4	.0	.0	1.7	14	.0	.6	.1	.0	.0	10.0	105
WNW	.1	.2	.1	.0	1.3	.0	.0	1.5	13	.0	.0	.0	.1	.0	4.6	53
NW	.0	.0	.1	.0	.8	.0	.0	.9	8	.0	.0	.0	.0	.0	4.6	47
NNW	.1	.0	.0	.0	.8	.0	.0	.9	8	.0	.0	.1	.0	.0	3.3	37
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.2	.0	.2	.0	.0	.5	4	.0	.0	.0	.0	.0	3.2	31
TOT OBS	44	6	40	0	103	0	0	184	184	1	48	10	1	604	848	
TOT PCT	5.2	.7	4.7	.0	12.1	.0	.0	21.7	21.7	.1	5.7	1.2	.1	71.2	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	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					FG MD	SMOKE	DUST	HAZE	BLWG	
0003	7.1	.5	4.3	.0	11.0	.0	.0	21.9	46	.0	7.6	.5	.0	.0	70.0	210
0609	4.9	.0	6.7	.0	16.4	.0	.0	26.7	60	.0	3.1	1.8	.0	.0	68.4	225
12015	1.5	1.0	3.5	.0	9.5	.0	.0	14.4	29	.0	3.5	1.5	.0	.0	80.6	201
18021	6.8	1.4	4.1	.0	10.9	.0	.0	22.2	49	.5	8.1	1.4	.5	.0	67.4	221
TOT	44	6	40	0	103	0	0	184	184	1	48	11	1	612	857	
PCT	5.1	.7	4.7	.0	12.0	.0	.0	21.5	21.5	.1	5.6	1.3	.1	.1	71.4	100.0

APRIL

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1902-1969

AREA 0010 ATTU  
51-55N 172-180E

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	1.0	3.5	2.0	1.1	.1	.0	92	7.7	11.5	9.0	9.1	6.9	6.0	5.0	25.0	6.4	11.0
NNE	.1	.8	1.6	.8	.1	.0	40	3.4	16.6	2.9	9.1	3.7	2.3	4.0	.0	3.2	4.1
NE	1.2	2.5	1.6	.2	.1	.0	66	5.5	9.4	7.1	.0	2.7	12.0	2.0	.0	3.2	9.7
ENE	.3	1.1	.7	.8	.0	.0	34	2.9	14.3	3.2	9.1	3.7	2.3	1.0	18.8	2.7	2.1
E	.3	2.9	2.9	.4	.2	.0	79	6.6	12.7	7.4	.0	4.3	12.8	4.0	6.3	4.8	9.0
ESE	.1	1.4	1.1	.7	.1	.0	40	3.4	15.2	2.6	9.1	5.9	3.0	2.0	.0	2.7	4.8
SE	.7	1.7	1.6	1.1	.2	.1	63	5.3	15.0	7.7	9.1	3.2	6.8	5.5	.0	2.7	4.8
SSE	.0	.2	1.9	.8	.1	.0	35	2.9	19.1	2.2	.0	2.7	3.8	5.0	.0	2.7	2.1
S	.3	1.6	3.3	1.4	.8	.1	90	7.6	19.0	4.8	.0	6.4	5.3	10.6	18.8	12.2	6.2
SSW	.1	1.4	2.7	1.3	.6	.0	73	6.1	18.4	6.4	.0	7.4	1.5	8.0	.0	7.4	4.8
SW	.5	2.0	2.2	1.2	.7	.0	78	6.5	16.1	6.1	.0	6.9	6.0	6.5	.0	9.6	4.8
WSW	.0	2.3	3.4	3.5	.6	.0	116	9.7	19.7	9.3	9.1	10.6	6.0	13.6	6.3	13.8	2.8
W	.9	3.4	4.5	2.3	.8	.1	143	12.0	15.9	9.6	9.1	14.9	11.3	12.1	6.3	15.4	10.3
WNW	.2	1.4	2.2	1.3	.4	.1	66	5.5	18.3	7.4	18.2	4.3	2.3	7.5	6.3	4.8	3.4
NW	.8	2.5	2.3	1.2	.1	.0	82	6.9	13.5	6.4	18.2	6.4	9.8	3.5	12.5	4.3	12.4
NNW	.3	1.3	1.8	.8	.1	.0	52	4.4	14.8	3.5	.0	5.9	5.3	4.0	.0	4.3	4.8
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	359	226	225	37	4	43	3.6	15.1	4.5	.0	4.3	3.8	5.5	.0	.5	2.8
TOT OBS	121	30.1	35.7	18.9	4.8	.3	1192	100.0		312	11	188	133	199	16	188	145
TOT PCT	10.2	30.1	35.7	18.9	4.8	.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)										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	2.9	4.9	2.3	.9	.0	132	11.1	13.1	11.9	18.2	10.6	8.3	9.0	25.0	9.6	15.2
NE	3.2	3.2	1.6	.4	.0	100	8.4	11.0	10.3	9.1	6.4	14.3	3.0	18.8	5.3	11.7
E	2.0	5.5	1.6	.8	.1	119	10.0	13.6	9.9	9.1	10.1	15.8	6.0	6.3	7.4	13.8
SE	1.3	2.7	3.5	.7	.1	98	8.2	16.5	9.9	9.1	5.9	10.5	10.6	.0	5.3	6.9
S	2.0	4.5	4.8	1.7	.7	163	13.7	18.8	11.2	.0	13.8	6.8	18.6	18.8	19.7	11.0
SW	2.2	5.1	6.5	2.3	.2	194	16.3	18.2	15.4	9.1	17.6	12.0	20.1	6.3	23.4	7.6
W	3.2	7.0	5.0	1.9	.4	209	17.5	16.7	17.0	27.3	19.1	13.5	19.6	12.5	20.2	13.8
NW	2.3	4.8	3.4	.8	.0	134	11.2	14.0	9.9	18.2	12.2	15.0	7.5	12.5	8.5	17.2
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	449	341	114	17	43	3.6	15.1	4.5	.0	4.3	3.8	5.5	.0	.5	2.8
TOT OBS	271	37.7	28.6	9.6	1.4	1192	100.0		312	11	188	133	199	16	188	145
TOT PCT	22.7	37.7	28.6	9.6	1.4	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)

WIND DIR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										PCT TOTAL OBS				
	000	149	000	150	300	600	1000	2000	3500	5000		6500	8000+	NH <5/8	TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN	FREQ						
N	7.7	31.6	35.3	16.7	3.4	.9	4.3	14.1	100.0						323
NNE	7.5	30.8	32.1	21.5	3.7	.3	4.0	15.0	100.0						321
NE	1.9	22.3	40.9	23.3	6.5	.0	5.1	17.1	100.0						215
E	7.5	33.0	36.3	15.6	6.0	.0	1.5	14.9	100.0						333
ESE	78	359	426	225	57	4	43	15.1							1192
SE	6.5	30.1	35.7	18.9	4.8	.3	3.6		100.0						
SSE															
S															
SSW															
SW															
WSW															
W															
WNW															
NW															
NNW															
VAR															
CALM															
TOT OBS	32	193	399	596	72	193	399	596	72	193	399	596	72	193	
TOT PCT	4.6	10.3	27.7	57.3	100.0										100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION										MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	TOTAL OBS						
N	.1	.1	1.9	4.5	46	7.2					
NNE	.1	.1	.7	2.3	23	7.1					
NE	.4	.0	.3	1.9	18	6.8					
ENE	.6	.0	.6	2.2	23	6.5					
E	.3	.4	.4	3.4	32	6.9					
ESE	.1	.0	.1	2.9	22	7.7					
SE	.1	.1	.9	3.4	32	7.3					
SSE	.1	.4	.3	2.3	22	7.0					
S	.1	.3	.9	6.2	52	7.5					
SSW	.1	.6	2.6	4.3	53	6.9					
SW	.1	.6	2.7	3.4	48	6.7					
WSW	.6	2.2	5.7	4.3	89	6.0					
W	.6	2.6	3.6	6.0	89	6.3					
WNW	.1	1.3	2.0	3.3	47	6.6					
NW	.3	1.0	2.0	2.4	40	6.1					
NNW	.3	.3	2.6	1.3	31	6.2					
VAR	.0	.0	.0	.0	0	.0					
CALM	.3	.3	.4	3.2	29	7.0					
TOT OBS	32	72	193	399	596	6.7					
TOT PCT	4.6	10.3	27.7	57.3	100.0						

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										PCT TOTAL OBS		
	000	150	300	600	1000	2000	3500	5000	6500	8000+		NH <5/8	TOTAL
N	.1	.0	.0	.0	.0	1.7	2.9	1.1	.0	.0	.0	.7	46
NNE	.9	.0	.1	.3	.6	.6	.6	.1	.0	.0	.0	.3	23
NE	.0	.0	.1	.3	.6	.3	.3	.6	.0	.0	.0	.7	18
ENE	.1	.0	.0	.0	.3	1.7	.3	.1	.0	.0	.0	.7	23
E	1.4	.0	.0	.0	.9	.6	.6	.1	.1	.0	.1	.7	32
ESE	.1	.0	.3	.1	1.0	.6	.6	.0	.0	.0	.3	.1	22
SE	.4	.0	.0	.3	.7	1.0	1.3	.1	.0	.0	.1	.6	32
SSE	.6	.0	.3	.0	.6	.4	.7	.0	.0	.0	.0	.7	22
S	1.0	.0	.0	.3	1.7	2.7	.9	.1	.0	.0	.0	.7	52
SSW	.6	.0	.0	.1	1.6	2.2	1.6	.3	.0	.0	.0	1.3	53
SW	.4	.0	.1	.3	1.6	2.4	.3	.0	.1	.0	.0	1.6	48
WSW	.1	.0	.1	.6	1.9	2.6	3.3	.6	.0	.0	.0	3.6	89
W	.6	.0	.0	.7	2.2	2.7	2.3	.1	.0	.0	.1	4.0	89
WNW	.3	.1	.7	.1	.4	1.6	1.6	.1	.0	.0	.0	1.7	47
NW	.0	.0	.1	.1	1.6	1.0	1.1	.3	.0	.0	.0	1.4	40
NNW	.0	.0	.0	.0	.9	1.0	1.0	.4	.0	.0	.1	1.0	31
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	47	1	14	23	139	174	122	17	3	11	145	696	29
TOT PCT	6.8	.1	2.0	3.3	20.0	25.0	17.5	2.4	.4	1.6	20.8	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	1.0	1.7	1.9	1.9	1.9	2.0	2.0	2.0
OR >5000	1.7	4.0	4.3	4.3	4.3	4.4	4.4	4.4
OR >3500	7.3	18.7	22.1	22.3	22.3	22.4	22.4	22.4
OR >2000	15.3	38.0	44.9	45.6	46.6	46.9	47.1	47.1
OR >1000	20.0	53.4	63.3	64.6	66.1	66.7	67.0	67.0
OR >600	22.0	55.9	66.0	67.4	69.4	70.0	70.3	70.3
OR >300	22.4	57.0	67.7	69.1	71.4	72.0	72.3	72.3
OR >150	22.4	57.0	67.7	69.1	71.6	72.1	72.4	72.4
OR > C	23.3	58.7	70.0	71.9	75.3	77.0	79.1	79.1
TOTAL	163	411	490	503	527	539	554	554

TOTAL NUMBER OF OBS: 700 PCT FREQ NH <5/8: 20.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)										
	0	1	2	3	4	5	6	7	8	TOTAL OBS
2.0	1.1	5.2	6.7	5.1	6.7	13.9	7.9	44.9	6.4	746

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 ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT		
																						PCP	ND PCP
<1/2	.0 .0 0	.0 .1 0	.0 .0 1	.0 .0 0	.1 .1 2	.2 .8 9	.4 .1 4	.0 .2 2	.0 .0 0	.0 .6 5	.1 .4 4	.0 .4 3	.1 .0 1	.1 .1 2	.0 .0 0	.1 .0 1	.0 .0 0	.0 .0 0	.1 .0 1	11 24 35	1.3 2.8 4.1		
1/2<1	.0 .1 1	.0 .1 1	.0 .0 0	.0 .0 0	.0 .5 4	.5 .0 4	.6 .5 9	.5 .0 4	.4 .0 3	.5 .4 7	.0 .1 1	.0 .2 2	.0 .0 0	.1 .0 1	.1 .0 1	.0 .0 0	.1 .0 1	.0 .0 0	.0 .0 0	.1 .0 1	24 12 36	2.8 1.4 4.2	
1<2	.0 .1 1	.0 .1 1	.2 .0 2	.2 .0 2	.1 .0 1	.2 .0 2	.0 .2 2	.1 .0 1	.2 .0 2	.6 .2 7	.1 .0 1	.1 .2 3	.1 .4 5	.2 .0 0	.1 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	19 13 32	2.2 1.5 3.8	
2<5	.2 .4 5	.4 .4 6	.6 .0 5	.1 .4 4	.1 .6 8	1.2 .4 13	.4 .6 8	.1 .6 6	.4 .5 7	.9 .4 11	.9 .5 12	.2 .7 8	.7 .8 13	.6 .5 9	.6 .2 7	.1 .2 3	.4 .1 4	.0 .0 0	.0 .0 0	.0 .0 0	.1 .0 1	67 55 122	7.9 6.5 14.3
5<10	1.1 2.8 33	.1 1.2 11	1.5 1.5 22	.2 .5 6	.2 .5 6	.2 1.4 14	.7 .7 7	.4 1.2 13	.1 .7 7	.6 2.2 24	.0 2.6 22	.5 2.0 21	.2 6.5 57	.4 4.8 44	.6 2.1 23	.6 2.0 22	.2 1.3 13	.0 .0 0	.0 1.9 17	.1 .1 17	55 301 356	6.5 35.3 41.8	
10+	.0 1.6 14	.0 1.2 10	.1 .5 5	.1 1.6 15	.1 .4 3	.1 .8 8	.0 .4 3	.1 1.1 10	.0 .7 6	.0 1.6 14	.0 2.5 21	.1 2.1 19	.1 3.1 27	.4 4.8 44	.2 2.3 22	.2 2.3 22	.2 2.0 19	.0 .0 0	.0 1.3 12	.1 .3 12	16 255 271	1.9 29.9 31.8	
TOTAL PCT	54 6.3	30 3.5	34 4.0	28 3.3	33 3.9	50 5.9	33 3.9	36 4.2	25 2.9	68 8.0	61 7.2	56 6.6	101 11.9	105 12.3	54 6.3	48 5.6	37 4.3	0 .0	32 3.8	852 100.0	100.0		

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	2	.2
	4-10	.3	.1	.0	.1	.5	.1	.2	.0	.2	.3	.2	.0	.1	.0	.0	.0	.0	.0	23	1.9
	11-21	.0	.1	.0	.0	.3	.1	.0	.3	.1	.1	.1	.0	.0	.2	.2	.1	.0	.0	19	1.6
	22+	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	5	.4
	TOTAL	4	2	0	2	9	4	2	4	6	4	3	1	2	2	2	1	0	1	49	4.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.1	.0	.0	.0	.4	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1.0
	11-21	.0	.0	.1	.0	.0	.1	.0	.2	.0	.0	.1	.0	.1	.1	.0	.1	.0	.0	10	.8
	22+	.1	.1	.0	.0	.2	.3	.3	.1	.3	.1	.1	.0	.0	.1	.0	.0	.0	.0	20	1.7
	TOTAL	2	1	1	0	7	9	4	3	8	1	2	0	1	2	0	1	0	1	43	3.6
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.3
	4-10	.0	.0	.1	.0	.1	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	8	.7
	11-21	.1	.1	.1	.0	.2	.1	.1	.0	.2	.1	.1	.2	.0	.0	.0	.0	.0	.0	15	1.3
	22+	.0	.0	.0	.1	.1	.0	.0	.2	.3	.0	.2	.2	.3	.1	.0	.0	.0	.0	15	1.3
	TOTAL	1	1	3	1	4	3	3	2	9	1	3	4	5	1	0	0	0	0	41	3.5
2<5	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.3
	4-10	.0	.1	.2	.2	.4	.5	.3	.0	.1	.2	.1	.1	.1	.0	.1	.0	.0	.0	27	2.3
	11-21	.3	.0	.1	.0	.9	.3	.3	.5	.5	.5	.3	.3	.5	.2	.2	.3	.0	.0	62	5.2
	22+	.3	.4	.2	.3	.2	.0	.1	.2	.8	.6	.5	.9	.4	.4	.1	.2	.0	.0	65	5.5
	TOTAL	8	6	5	6	19	10	8	8	16	15	11	16	12	7	4	5	0	1	157	13.2
5<10	0-3	.3	.0	.3	.0	.1	.0	.4	.0	.0	.1	.4	.0	.4	.2	.2	.3	.0	.0	54	4.5
	4-10	1.9	.3	1.6	.3	.9	.3	.5	.0	.7	.5	.7	.7	.9	.5	.8	.7	.0	.0	132	11.1
	11-21	1.0	.8	.9	.3	1.2	.4	.7	.5	1.2	.8	1.2	2.2	1.8	.9	.8	.5	.0	.0	180	15.2
	22+	.7	.3	.1	.1	.1	.2	.7	.2	.8	.9	.5	2.6	1.3	.6	.8	.3	.0	.0	119	10.0
	TOTAL	46	16	34	8	27	10	27	8	31	28	33	65	53	26	29	29	0	24	485	40.9
10+	0-3	.7	.1	.8	.3	.1	.1	.3	.0	.1	.0	.1	.0	.5	.0	.6	.0	.0	.0	58	4.9
	4-10	1.2	.3	.7	.6	.5	.1	.7	.2	.3	.5	1.1	1.4	2.2	.9	1.7	.7	.0	.0	155	13.1
	11-21	.6	.7	.4	.3	.3	.9	.4	.4	.9	1.2	.4	.7	2.2	.8	1.3	.9	.0	.0	139	11.7
	22+	.2	.1	.0	.3	.1	.3	.3	.3	.3	.3	.6	.3	.9	.6	.4	.5	.0	.0	60	5.1
	TOTAL	31	14	23	17	12	4	19	10	19	23	26	29	69	28	47	25	0	16	412	34.7
	TOTAL	92	40	66	34	78	40	63	35	89	72	78	115	142	66	82	52	0	43	1187	100.0
	PCT	7.8	3.4	5.6	2.9	6.6	3.4	5.3	2.9	7.5	6.1	6.6	9.7	12.0	5.6	6.9	4.4	.0	3.6	100.0	

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999				
00003	4.0	.0	3.4	1.1	18.8	23.9	22.7	1.1	.0	2.3	77.3	22.7	176
06009	3.3	.0	1.6	4.9	19.2	27.5	17.0	3.3	1.1	2.7	80.8	19.2	182
12015	11.6	.6	.6	3.3	16.6	22.1	15.5	2.8	.6	.0	73.5	26.5	181
18021	8.4	.0	2.4	3.6	24.6	25.1	16.2	2.4	.0	1.2	83.8	16.2	167
TOT	48	1	14	23	139	174	126	17	3	11	556	150	706
PCT	6.8	.1	2.0	3.3	19.7	24.6	17.8	2.4	.3	1.6	78.8	21.2	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	3.5	5.2	1.7	9.2	40.5	39.9	173
06009	2.7	1.1	2.2	11.5	43.4	39.0	182
12015	4.5	3.9	1.7	13.5	46.1	30.3	178
18021	4.8	4.2	1.8	15.0	41.9	32.3	167
TOT	27	25	13	86	301	248	700
PCT	3.9	3.6	1.9	12.3	43.0	35.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8	TOTAL OBS
00003	4.6	11.6	22.0	57.2	20.8	173
06009	3.3	7.1	23.1	58.2	18.7	182
12015	11.2	15.7	31.5	44.9	23.6	178
18021	8.4	13.2	31.1	53.3	15.6	167
TOT	48	83	188	374	138	700
PCT	6.9	11.9	26.9	53.4	19.7	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				
45/49	.0	.0	.2	.0	.4	2.1	.2	.6			18	3.5
40/44	.0	.0	.0	.8	3.7	5.5	8.0	10.9			148	28.9
35/39	.0	.0	.0	1.8	4.3	8.2	11.5	25.6			263	51.4
30/34	.0	.0	.0	.0	.6	1.8	5.9	6.4			75	14.6
25/29	.0	.0	.0	.0	.0	.6	.6	.4			8	1.6
TOTAL	0	0	1	13	46	93	134	225			512	100.0
PCT	.0	.0	.2	2.5	9.0	18.2	26.2	43.9				

TABLE 14

	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
	N	NE	E	SE	S	SW	W	NW	VAR	CALM	
45/49	.4	.4	.6	.2	.4	.8	.4	.2	.0	.2	
35/39	3.1	3.1	5.1	3.9	3.3	2.7	4.1	1.8	.0	1.8	
30/34	4.9	7.2	6.4	4.3	4.0	7.8	8.6	7.0	.0	.6	
25/29	2.5	2.0	.8	.2	.3	.8	3.3	4.5	.0	.0	
TOTAL	.4	.2	.0	.0	.0	.0	.4	.6	.0	.0	
PCT	58	66	66	44	45	62	56	72	0	13	
	11.3	12.9	12.9	8.6	8.8	12.1	16.8	14.1	.0	2.5	

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR									
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS	
00003	46	45	44	38	31	27	27	37.8	314	
06009	46	45	44	37	31	28	27	37.2	311	
12015	43	41	40	36	30	27	27	35.1	209	
18021	46	45	42	36	30	27	27	36.2	327	
TOT	46	45	43	37	30	28	27	36.7	1161	

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS		
00003	.0	1.9	10.8	20.3	22.8	44.3	85	158		
06009	.0	4.0	9.3	18.5	27.2	41.1	84	151		
12015	.0	12.8	12.8	15.4	20.5	38.5	79	39		
18021	.0	.0	6.0	16.8	29.9	47.3	87	167		
TOT	0	14	46	94	135	226	85	515		

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1902-1969

APRIL

AREA 0010 ATTU  
51-55N 172-180E

TABLE 17

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

AIR-SEA TMP DIF	25	29	33	37	41	45	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.5	.3	5	.0	.8
6	.0	.0	.0	.0	.3	.0	2	.2	.2
5	.0	.0	.0	.6	1.1	.3	13	.3	1.7
4	.0	.0	.0	1.7	2.2	.2	26	.3	3.8
3	.0	.0	.0	1.7	1.1	.0	18	.2	2.7
2	.0	.0	1.3	5.6	.8	.0	49	.6	7.0
1	.0	.0	.8	5.3	.6	.0	43	.6	6.1
0	.0	.2	4.2	11.3	.0	.0	100	1.6	14.1
-1	.0	.3	2.5	4.5	.3	.0	49	.5	7.2
-2	.0	.0	6.7	3.0	.0	.0	62	.3	9.4
-3	.0	.8	6.3	2.7	.0	.0	62	.5	9.2
-4	.0	.8	8.9	.3	.0	.0	64	.6	9.4
-5	.0	1.3	6.1	.2	.0	.0	48	.2	7.3
-6	.0	3.8	.3	.0	.0	.0	26	.0	4.1
-7/-8	.2	5.9	1.3	.2	.0	.0	48	.0	7.5
-9/-10	1.4	1.4	.0	.0	.0	.0	18	.0	2.8
-11/-13	.5	.3	.2	.0	.0	.0	6	.0	.9
TOTAL	13	94	246	237	44	6	640	37	603
PCT	2.0	14.7	38.4	37.0	6.9	.9	100.0	5.8	94.2

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

APRIL  
TABLE 18

AREA 0010 ATTU  
51-55N 172-180E

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

HGT	N							TOTAL	48+	NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	1-3			4-10	11-21	22-33	34-47	
<1	.4	.0	.0	.0	.0	.0	1	.0	.7	1.4	.0	.0	.0	6
1-2	.0	2.5	1.1	.0	.0	.0	10	.0	.4	1.1	.0	.0	.0	6
3-4	.0	1.1	1.1	.0	.0	.0	6	.0	.0	.4	.0	.0	.0	1
5-6	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
7	.0	.0	.4	1.1	.0	.0	4	.0	.0	.7	.0	.0	.0	2
8-9	.0	.0	.0	.4	.0	.0	1	.0	.0	.4	.0	.0	.0	1
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.7	.0	.0	2	.0	.0	.0	.4	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	1	10	7	6	0	6	24	.0	3	7	1	.0	.0	17
PCT	.4	3.6	2.5	2.1	.0	2.1	8.5	.0	1.1	2.5	.4	.0	.0	6.0

HGT	E							TOTAL	48+	SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	1-3			4-10	11-21	22-33	34-47	
<1	.0	.7	.0	.0	.0	.0	2	.0	.4	.0	.0	.0	.0	1
1-2	.0	2.8	1.8	.0	.0	.0	13	.0	.0	.7	.0	.0	.0	5
3-4	.0	.7	2.8	.0	.0	.0	10	.0	.0	2.1	.0	.0	.0	9
5-6	.0	.0	.4	.4	.0	.0	2	.0	.0	.7	.4	.0	.0	3
7	.0	.0	1.1	.0	.0	.0	3	.0	.0	.4	.0	.0	.0	1
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.4	.0	.0	.0	1
10-11	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.4	.0	.0	1
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	1.1	.0	.0	3	.0	.0	.0	.7	.0	.0	2
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.0	.4	.0	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	0	12	17	6	0	6	35	.0	1	6	4	.0	.0	24
PCT	.0	4.3	6.0	2.1	.0	2.1	12.5	.0	.4	2.1	1.4	.0	.0	8.5

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

APRIL  
TABLE 18

AREA 0010 ATTU  
51-55N 172-180E

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

HGT	S							TOTAL	48+	SW							TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3			4-10	11-21	22-33	34-47	48+						
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.4	3.2	.7	.0	.0	.0	12	.0	2.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.4	.0	.4	.0	.0	5	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.7	.0	.0	.0	.0	2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.4	.0	.4	.0	2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.4	1.4	.4	.0	6	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.7	.4	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.4	.0	.0	3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.7	.4	.0	.0	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	1.4	.4	.0	.0	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.4	.7	.0	.0	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.4	.4	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.4	.4	.0	1	.0	.0	.0	.0	.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
TOTAL	0	4	24	11	11	11	11	51	1	6	13	16	16	8	0	0	0	0	0	0
PCT	.0	1.4	8.5	3.9	3.9	3.9	3.9	18.1	.4	2.1	4.6	5.7	5.7	2.8	.0	.0	.0	.0	.0	15.3

HGT	W							TOTAL	48+	NW							TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3			4-10	11-21	22-33	34-47	48+						
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.4	2.1	.4	.0	.0	.0	.0	8	.0	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.8	.4	1.1	.0	.0	.0	9	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.1	2.1	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.5	2.1	.0	.0	.0	13	.0	.0	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.0	2	.0	.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	1.4	.0	.4	.0	5	.0	.0	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.0	.4	.0	.0	2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.0	1	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.4	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.4	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.4	.7	.0	.0	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.4	.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
TOTAL	1	11	17	24	24	24	24	58	1	6	14	8	8	1	0	0	0	0	0	29
PCT	.4	3.9	6.0	8.5	8.5	8.5	8.5	20.6	.4	2.1	5.0	2.8	2.8	.4	.0	.0	.0	.0	.0	10.3

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

APRIL

AREA 0010 ATTU  
51-55N 172-180E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	9.4	1.9	.0	.0	.0	.0					35
1-2	1.6	12.9	6.8	1.6	.0	.0					66
3-4	.0	5.2	12.3	1.6	.0	.0					59
5-6	.0	.0	4.5	2.6	.3	.0					23
7	.0	.0	6.5	3.6	.0	.0					31
8-9	.0	.0	1.3	1.6	.3	.0					10
10-11	.0	.0	2.9	4.2	1.3	.0					26
12	.0	.0	1.0	1.6	1.0	.0					11
13-16	.0	.0	.0	5.2	1.3	.0					20
17-19	.0	.0	.3	2.3	.3	.0					9
20-22	.0	.0	.0	1.3	1.9	.3					11
23-25	.0	.0	.0	.3	.6	.3					3
26-32	.0	.0	.0	.3	1.0	.3					5
33-40	.0	.0	.0	.0	.0	.0					0
41-48	.0	.0	.0	.0	.0	.0					0
49-60	.0	.0	.0	.0	.0	.0					0
61-70	.0	.0	.0	.0	.0	.0					0
71-86	.0	.0	.0	.0	.0	.0					0
87+	.0	.0	.0	.0	.0	.0					0
TOTAL	34	62	110	76	25	2					309
PCT	11.0	20.1	35.6	24.6	8.1	.6					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	3-4	5-6	7	8-9	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	.5	7.4	7.4	3.6	1.3	.2	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	3
6-7	.0	.4	.9	1.3	3.8	2.2	3.4	1.8	1.8	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	9
8-9	.0	.0	6.1	1.3	4.0	1.3	1.6	1.8	3.6	3.2	1.8	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	147	10
10-11	.0	.0	.2	.2	.2	.4	1.4	.0	.0	.2	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	20	13
12-13	.0	.0	.0	.2	.0	.0	.4	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	12
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	23
INDET	30.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	0
TOTAL	171	43	82	36	51	22	42	21	32	22	20	7	7	0	0	0	0	0	0	0	0	556	5
PCT	30.8	7.7	14.7	6.5	9.2	4.0	7.6	3.8	5.8	4.0	3.6	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

MAY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1909-1969

AREA 0010 ATTU  
51-55N 172-180E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN		DRZL	PRECIPITATION TYPE			HAIL	HAIL		TOTAL PCPN AT OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	SHWR	SHMR		FRZG PCPN	SNOW	OTHER		FRZN PCPN	PCPN AT OBS			PCPN	FOG	SMOKE	DUST	BLWG	
N	.6	.0	.3	.0	.1	.1	.0	.0	1.1	19	.0	.2	.0	.0	.0	5.9	126
NNE	.2	.1	.1	.0	.0	.0	.0	.0	.4	7	.0	.2	.0	.0	.0	3.5	73
NE	.5	.1	.3	.0	.1	.0	.0	.0	.9	16	.0	.4	.0	.0	.0	3.4	82
ENE	.3	.0	.1	.0	.1	.0	.0	.0	.5	8	.0	.2	.3	.0	.0	1.7	45
E	1.0	.0	.4	.0	.1	.0	.1	.0	1.5	26	.0	.5	.2	.0	.0	3.3	95
ESE	.5	.0	.6	.0	.1	.0	.0	.0	1.2	21	.0	.4	.0	.0	.0	3.1	82
SE	1.1	.0	.6	.0	.0	.0	.1	.0	1.7	29	.0	.4	.1	.0	.0	3.9	106
SSE	.9	.0	.6	.0	.0	.0	.0	.0	1.4	25	.0	.2	.0	.0	.0	2.6	74
S	1.0	.2	1.8	.0	.1	.0	.0	.0	3.0	53	.0	1.5	.1	.1	.0	5.8	182
SSW	.3	.0	.6	.0	.0	.0	.0	.0	1.0	17	.0	1.3	.1	.0	.0	3.4	100
SW	.5	.1	.8	.0	.0	.0	.0	.0	1.4	25	.0	1.1	.1	.0	.0	4.8	130
WSW	.1	.0	.2	.0	.1	.0	.0	.0	.4	7	.0	.9	.1	.0	.0	5.5	119
W	.6	.0	.4	.0	.0	.0	.0	.0	1.0	17	.0	.8	.1	.0	.0	7.4	162
WNW	.2	.1	.1	.0	.0	.0	.0	.0	.4	7	.0	.2	.2	.1	.0	5.1	104
NW	.6	.2	.2	.0	.1	.1	.0	.0	1.1	20	.0	.4	.0	.1	.1	4.9	114
NNW	.3	.0	.2	.0	.0	.0	.0	.0	.5	9	.0	.1	.1	.0	.0	4.1	84
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0	0
CALM	.1	.0	.4	.0	.0	.0	.0	.0	.5	3	.0	.3	.0	.0	.0	3.4	73
TOT OBS	154	13	136	0	11	2	2	2	17.9	314	0	160	19	3	1255	1751	
TOT PCT	8.8	.7	7.8	.0	.6	.1	.1	.1	17.9	314	.0	9.1	1.1	.2	71.7	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN		DRZL	PRECIPITATION TYPE			HAIL	HAIL		TOTAL PCPN AT OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
	SHWR	SHMR		FRZG PCPN	SNOW	OTHER		FRZN PCPN	PCPN AT OBS			PCPN	FOG	SMOKE	DUST	BLWG	
00003	8.8	.9	4.1	.0	.0	.2	.2	.2	14.1	66	.0	10.0	.6	.2	.2	75.0	468
06009	7.8	.2	10.8	.0	.7	.2	.2	.2	19.8	84	.0	7.8	2.4	.2	.2	69.9	425
12015	9.7	.7	9.0	.0	.5	.0	.0	.0	19.6	81	.0	8.7	.2	.0	.0	71.4	413
18021	9.0	1.1	7.4	.0	1.3	.0	.0	.0	18.3	84	.0	9.8	1.1	.2	.2	70.5	458
TOT	155	13	136	0	11	2	2	2	17.9	315	0	161	19	3	1266	1764	
PCT	8.8	.7	7.7	.0	.6	.1	.1	.1	17.9	315	.0	9.1	1.1	.2	.2	71.8	100.0

MAY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1909-1969

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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	.4	2.3	4.0	1.3	.1	.0	193	8.2	14.4	10.0	7.8	9.2	10.3	7.0	6.3	4.6	9.1
NNE	.0	1.4	1.8	1.2	*	.0	106	4.5	16.1	4.8	8.6	2.3	4.0	4.7	4.5	4.3	5.4
NE	.1	2.0	2.3	.6	.1	.0	121	5.1	13.9	5.4	6.0	3.7	5.8	4.9	5.4	4.6	6.6
ENE	.2	.8	1.6	.6	.1	.0	74	3.1	15.5	3.0	4.3	2.0	6.3	2.6	3.6	1.6	4.5
E	.3	2.7	2.1	1.2	.1	.0	151	6.4	13.9	5.6	7.8	3.2	12.1	4.9	7.1	4.6	12.0
ESE	.3	1.8	1.6	.8	.4	.0	114	4.8	15.8	4.7	6.0	4.3	6.3	5.5	7.1	3.5	4.1
SE	.3	1.4	2.6	1.7	.2	.0	144	6.1	16.8	6.1	4.3	6.6	4.9	6.8	8.9	4.6	7.4
SSE	.1	.9	1.4	1.0	.3	.0	87	3.7	17.9	3.9	5.2	4.9	2.7	4.7	2.7	2.5	7.5
S	.6	2.4	4.2	1.6	.3	.0	212	9.0	15.3	8.6	12.1	9.5	8.0	7.8	1.8	11.6	7.4
SSW	.3	1.7	2.2	.9	*	.0	120	5.1	14.3	4.8	1.7	6.6	3.6	5.5	5.4	6.2	4.1
SW	.6	2.3	3.1	1.1	.1	.0	171	7.3	13.7	8.1	6.0	7.5	6.3	8.1	8.0	7.0	5.4
WSW	.2	1.5	3.1	.9	.3	.0	142	6.0	17.0	4.8	5.2	8.9	4.5	8.8	5.4	5.4	3.3
W	.7	2.2	3.9	1.5	.6	.0	209	8.9	16.2	9.3	6.9	9.2	9.8	7.3	6.3	12.2	6.2
WNW	*	2.2	1.9	1.3	.1	.0	131	5.6	14.9	5.4	4.3	6.3	3.1	5.5	4.5	7.8	5.0
NW	.2	2.3	3.5	.8	.1	.0	161	6.8	14.3	6.6	11.2	8.0	5.4	3.9	7.1	8.1	7.4
NNW	.1	1.6	2.6	.6	.1	.0	118	5.0	14.7	3.9	1.7	4.6	4.0	6.8	8.0	5.9	5.0
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	694	986	400	68	4	101	4.3	14.6	4.8	.9	3.2	3.1	5.5	3.6	5.1	4.5
TOT OBS	203	29.5	41.9	17.0	2.9	.2	2355	100.0		558	116	348	224	385	112	370	242
TOT PCT	8.6									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	1.9	5.9	3.9	1.0	.0	299	12.7	15.0	14.9	16.4	11.5	14.3	11.7	10.7	8.9	14.5
NE	1.1	4.1	2.5	.6	.0	195	8.3	14.5	8.4	10.3	5.7	12.1	7.5	8.9	6.2	11.2
E	1.9	5.3	2.9	1.1	*	265	11.3	14.7	10.2	13.8	7.5	18.3	10.4	14.3	8.1	16.1
SE	1.4	3.2	4.0	1.1	*	231	9.8	17.2	10.0	9.5	11.5	7.6	11.4	10.7	7.3	9.9
S	2.3	6.2	4.6	.8	.1	332	14.1	14.9	13.4	13.8	16.1	11.6	13.2	12.5	17.8	11.6
SW	2.1	5.9	4.3	.7	.2	313	13.3	15.2	12.9	11.2	16.4	10.7	16.9	13.4	12.4	8.7
W	2.6	6.2	4.1	1.4	.1	340	14.4	15.7	14.7	11.2	15.5	12.9	12.7	10.7	20.0	11.2
NW	1.4	6.3	3.4	.7	.0	279	11.8	14.5	10.6	12.9	12.6	9.4	10.6	15.2	14.1	12.4
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	1016	702	173	13	101	4.3	.0	4.8	.9	3.2	3.1	5.5	3.6	5.1	4.5
TOT OBS	451	43.1	29.8	7.3	.6	2355	100.0		558	116	348	224	385	112	370	242
TOT PCT	19.2								100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1944-1969  
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)												TOTAL OBS		
	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100		1200	
0003	3.9	30.6	43.0	15.4	2.7	.3	4.2	14.4	100.0	674					674
0609	4.9	29.9	40.4	18.5	3.0	.2	3.1	14.9	100.0	572					572
12015	3.2	27.2	42.9	17.7	3.8	.2	5.0	15.1	100.0	497					497
18021	5.2	29.7	41.2	16.7	2.3	.0	4.9	14.0	100.0	612					612
TOT	102	694	986	400	68	4	101	14.6	100.0	2355					2355
PCT	4.3	29.5	41.9	17.0	2.9	.2	4.3	14.6	100.0						

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION												TOTAL OBS	MEAN CLOUD COVER	
	0-2	3-4	5-7	8-8	OBSCD	8-8	9-9	10-10	11-11	12-12	13-13	14-14			
N	.4	.6	3.0	3.0	3.0	110	6.6								
NNE	.1	.1	2.1	2.7	79	7.1									
NE	.4	.2	1.8	2.3	75	6.6									
ENE	.1	.3	.8	.9	31	6.7									
E	.8	.3	1.2	2.5	75	6.1									
ESE	.1	.0	1.0	3.6	75	7.4									
SE	.1	.1	.7	5.1	95	7.5									
SSE	.0	.0	.6	3.5	64	7.8									
S	.1	.1	1.6	8.5	162	7.7									
SSW	.1	.1	1.2	4.6	96	7.4									
SW	.4	.4	1.4	5.1	115	7.0									
WSW	.4	.3	1.6	4.9	115	7.1									
W	.9	.4	2.5	5.8	151	6.7									
WNW	.6	.2	1.8	3.4	95	6.6									
NW	.3	.4	2.0	3.4	97	6.8									
NNW	.7	.2	1.1	2.8	76	6.5									
VAR	.0	.0	.0	.0	0	6.0									
CALM	.4	.1	.5	3.5	71	7.1									
TOT OBS	95	57	392	1038	1582	7.0									
TOT PCT	6.0	3.6	24.8	65.6	100.0										

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION												TOTAL OBS									
	000	149	150	299	300	599	600	999	1000	1999	2000	3499		3500	4999	5000	6499	6500	7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.4	.1	.0	.3	.6	.6	.6	1.5	1.9	.8	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	110
NNE	.4	.4	.0	.0	.2	.2	.2	.2	1.3	2.1	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	79
NE	.4	.4	.0	.0	.2	.3	.3	.3	1.2	.8	.6	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	75
ENE	.1	.1	.0	.0	.1	.1	.1	.1	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31
E	.5	.7	.1	.1	.3	.3	.3	.3	.8	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75
ESE	.7	.7	.0	.0	.2	.5	.5	.5	1.2	1.2	.3	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	75
SE	.4	.4	.1	.1	.3	.8	.8	.8	1.5	2.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95
SSE	.4	.4	.1	.1	.3	.4	.4	.4	1.9	.7	.6	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	64
S	2.1	2.1	.0	.0	.3	.7	.7	.7	3.6	1.8	.7	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	42
SSW	1.3	1.3	.3	.3	.1	.6	.6	.6	2.1	.6	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	96
SW	1.1	1.1	.0	.0	.3	.8	.8	.8	1.9	1.2	.7	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	115
WSW	1.1	1.1	.1	.1	.2	.4	.4	.4	1.9	1.2	.6	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	115
W	.9	.9	.0	.0	.3	.0	.0	.0	3.4	2.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151
WNW	.4	.4	.1	.1	.0	.3	.3	.3	1.6	1.6	.7	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	95
NW	.4	.4	.1	.1	.3	.6	.6	.6	1.6	1.4	.6	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	97
NNW	.4	.4	.0	.0	.4	.2	.2	.2	1.9	.6	.6	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	76
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	.2	.0	.0	.1	.2	.2	.2	2.1	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	176	176	14	14	57	108	108	108	440	346	130	28	28	28	28	28	28	28	28	28	28	71
TOT PCT	11.1	11.1	.9	.9	3.6	6.8	6.8	6.8	27.8	21.9	8.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	100.0

PERIOD: (PRIMARY) 1944-1969  
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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	.8	2.3	2.4	2.4	2.5	2.5	2.5	2.5
OR >5000	1.6	4.0	4.2	4.2	4.2	4.2	4.2	4.2
OR >3500	4.9	11.7	12.2	12.4	12.5	12.5	12.5	12.5
OR >2000	15.5	30.2	32.9	33.9	34.1	34.4	34.4	34.4
OR >1000	24.7	52.4	58.8	61.3	61.7	62.1	62.1	62.1
OR >600	27.1	57.7	64.9	67.8	68.5	68.9	69.0	69.0
OR >300	27.7	59.9	67.5	70.9	71.7	72.4	72.6	72.6
OR >150	27.8	60.1	67.9	71.5	72.4	73.2	73.4	73.4
OR > 0	29.0	63.3	72.5	77.4	79.5	82.2	84.2	84.5
TOTAL	460	1003	1149	1227	1260	1303	1335	1340

TOTAL NUMBER OF OBS: 1585 PCT FREQ NH <5/8: 15.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	3.4	2.2	3.6	2.3	3.5	4.6	10.3	12.7	48.5	8.7
										1891

MAY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1909-1969

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TABLE 8

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

VSBY (NM)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
PCP	.1	.0	.0	.0	.0	.1	.1	.2	.3	.1	.3	.0	.0	.0	.0	.1	.0	.0	17	1.0
NO PCP	.2	.2	.0	.1	.1	.2	.1	.2	.6	.8	.5	.4	.2	.1	.2	.0	.0	.0	66	3.8
TOTAL	4	3	0	1	2	3	2	5	16	15	14	7	4	1	3	1	0	1	83	4.7
PCP	.1	.0	.1	.1	.0	.3	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	21	1.2
NO PCP	.1	.2	.2	.1	.1	.1	.1	.1	.3	.1	.1	.2	.2	.1	.0	.2	.0	.0	33	1.9
TOTAL	4	0	5	2	2	7	4	3	8	2	3	4	5	2	0	3	0	0	54	3.1
PCP	.1	.1	.1	.1	.1	.4	.3	.5	.7	.3	.3	.0	.1	.0	.3	.0	.0	.0	61	3.5
NO PCP	.2	.1	.0	.2	.1	.2	.1	.2	.6	.2	.2	.1	.2	.1	.1	.2	.0	.0	45	2.6
TOTAL	5	3	2	1	4	11	7	11	22	10	9	2	4	2	6	3	0	4	106	6.1
PCP	.3	.1	.2	.2	.5	.2	.6	.3	.9	.5	.5	.1	.3	.2	.1	.2	.0	.0	95	5.4
NO PCP	.3	.2	.1	.2	.3	.2	.3	.3	.9	.6	.9	.7	.0	.4	.5	.1	.0	.0	127	7.3
TOTAL	12	5	5	8	15	8	15	10	31	19	24	15	22	11	11	5	0	6	222	12.7
PCP	.3	.2	.4	.1	.7	.2	.6	.3	.9	.1	.2	.2	.3	.2	.6	.2	.0	.0	98	5.6
NO PCP	2.0	1.3	1.1	.7	1.0	1.1	1.9	1.2	3.3	1.3	1.8	2.9	3.5	1.9	1.8	1.1	.0	2.8	539	30.8
TOTAL	41	25	27	15	30	24	43	27	42	24	35	53	68	37	42	24	0	50	637	36.4
PCP	.1	.1	.1	.0	.2	.0	.0	.1	.2	.0	.2	.1	.2	.0	.1	.1	.0	.0	22	1.3
NO PCP	3.3	2.1	2.3	1.0	2.3	1.7	2.0	.9	1.7	1.7	2.4	2.1	3.1	2.9	2.9	2.7	.0	.6	624	35.7
TOTAL	60	37	42	18	43	29	35	17	33	30	45	38	57	51	52	48	0	11	646	37.0
TOTAL	126	73	81	45	96	82	106	74	182	100	130	119	160	104	114	84	0	72	1748	100.0
PCT	7.2	4.2	4.6	2.6	5.5	4.7	6.1	4.2	10.4	5.7	7.4	6.8	9.2	5.9	6.5	4.8	.0	4.1	100.0	

MAY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1909-1969

AREA 0010 ATTU  
51-55N 172-180E

TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM TOTAL	PCT	
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	*	5	.2
	4-10	.0	.1	.0	*	*	.1	*	.1	*	.2	.3	.0	.1	.0	*	.0	.0	.0	24	1.0
	11-21	.1	.0	.0	.0	.0	.0	.0	.1	.3	.4	.3	.2	.1	*	*	*	.0	.0	42	1.8
	22+	.0	.0	.0	.0	.0	*	.0	.1	.3	.1	.0	.0	*	*	*	*	.0	.0	16	.7
	TOTAL	4	3	0	1	3	3	2	6	16	15	14	7	5	1	3	2	0	1	87	3.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	2	.1
	4-10	.1	.0	*	.0	.0	.1	.0	*	.0	*	*	*	.1	*	.0	.0	.0	.0	12	.5
	11-21	.0	.0	.0	.0	.0	.0	.1	*	.0	.1	.1	.1	*	.0	.0	.1	.0	.0	18	.8
	22+	.1	.0	*	.1	.0	.3	*	*	.0	.0	*	.0	*	*	.0	.0	.0	.0	25	1.1
	TOTAL	4	0	5	2	2	9	4	3	8	2	4	4	5	2	0	3	0	0	57	2.4
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	8	.3
	4-10	.1	.0	.1	.0	.0	.1	.2	.1	.1	.0	.2	*	*	.0	.1	.1	.0	.0	27	1.1
	11-21	.1	.1	.0	*	.1	.1	.2	.3	.4	.3	.1	*	.2	.1	.1	.1	.0	.0	52	2.2
	22+	.1	*	*	.0	.1	.3	*	.3	.5	.2	.2	.1	*	.0	.0	.0	.0	.0	43	1.8
	TOTAL	9	4	3	1	6	13	9	11	23	12	12	4	6	2	6	4	0	5	130	5.5
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	*	.1	.1	.0	*	.0	.0	.0	.0	.0	18	.8
	4-10	.3	.1	.1	.0	.3	.0	.1	*	.4	.3	.3	*	.2	.1	.2	.0	.0	.0	57	2.4
	11-21	.3	.2	.1	.2	.3	.2	.3	.2	.7	.3	.5	.4	.6	.3	.3	.1	.0	.0	111	4.7
	22+	.1	.1	.1	.2	.3	.1	.3	.2	.3	.3	.3	.4	.6	.1	*	.1	.0	.0	81	3.4
	TOTAL	14	9	8	9	23	9	17	10	35	20	26	19	32	11	11	5	0	9	267	11.4
5<10	0-3	.1	.0	.1	.1	.2	.0	.1	.0	.3	.0	.3	*	.2	*	*	.0	.0	2.3	88	3.7
	4-10	.7	.5	.8	.2	1.0	.8	.4	.2	1.2	.6	.8	.9	1.7	1.1	.8	.6	.0	.0	273	11.6
	11-21	1.7	.7	1.0	.8	1.0	.5	1.0	.8	1.8	.5	1.1	1.1	1.7	.6	1.4	1.1	.0	.0	387	16.5
	22+	.6	.5	.2	.3	.5	.3	1.1	.6	.3	.2	.3	.5	.8	.5	.5	.2	.0	.0	171	7.3
	TOTAL	72	40	48	33	57	37	59	37	85	31	58	60	85	53	64	45	0	55	919	39.1
10+	0-3	.3	.0	.0	*	.1	.1	.1	.1	.3	.2	.2	.1	.4	.0	.1	.1	.0	1.3	81	3.4
	4-10	1.2	.7	1.0	.6	1.2	.8	.7	.5	.6	.6	.8	.4	.8	.9	1.1	.9	.0	.0	300	12.8
	11-21	1.8	.8	1.1	.6	1.1	.1	1.1	.1	.8	.6	1.0	1.3	1.2	.9	1.7	1.2	.0	.0	373	15.9
	22+	.5	.6	.3	*	.4	.3	.3	.2	.2	.1	.4	.3	.7	.9	.3	.3	.0	.0	134	5.7
	TOTAL	89	50	56	28	60	43	53	20	45	38	56	48	74	62	77	59	0	30	888	37.8
	TOTAL	192	106	120	74	151	114	144	87	212	119	170	142	207	131	161	118	0	100	2348	100.0
	PCT	8.2	4.5	5.1	3.2	6.4	4.9	6.1	3.7	9.0	5.1	7.2	6.0	8.8	5.6	6.9	5.0	.0	4.3	100.0	

MAY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1909-1969

AREA 0010 ATTU  
51-55N 172-180E

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
	149	299	599	999	1999	3499	4999	6499	7999				
00003	8.9	.5	3.0	6.2	2.5	21.3	8.9	1.1	.7	2.1	79.2	20.8	437
06009	8.7	.5	3.9	8.1	2	10.5	10.2	1.0	1.0	2.4	81.9	18.1	381
12015	16.7	.5	3.2	7.2	26	10.4	4.7	.5	.2	2.0	82.0	18.0	401
18021	9.5	2.0	3.9	5.1	30.0	22.9	8.3	4.1	.0	1.2	87.1	12.9	410
TOT	178	14	57	108	442	347	131	28	8	31	1344	285	1629
PCT	10.9	.9	3.5	6.6	27.1	21.3	8.0	1.7	.5	1.9	82.5	17.5	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	5.2	2.1	4.0	9.5	37.9	41.2	420
06009	4.2	2.4	5.6	8.8	34.5	44.6	377
12015	6.5	3.4	4.9	11.1	41.3	32.8	387
18021	4.5	1.5	5.7	10.5	41.9	35.9	401
TOT	81	37	80	158	617	612	1585
PCT	5.1	2.3	5.0	10.0	38.9	38.6	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	TOTAL OBS
00003	9.0	14.5	29.8	54.3	16.0	420
06009	8.8	13.8	31.3	52.5	16.2	377
12015	17.1	23.5	40.3	45.5	14.2	387
18021	9.7	16.5	32.2	57.1	10.7	401
TOT	176	270	528	831	226	1585
PCT	11.1	17.0	33.3	52.4	14.3	100.0

MAY

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1909-1969

AREA 0010 ATTU  
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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
50/54	.0	.1	.0	.0	.4	.4	.3	.0	15	1.2
45/49	.0	.0	.1	.3	.7	3.3	2.6	1.5	104	8.5
40/44	.0	.0	.1	.4	2.0	6.7	15.9	26.0	626	51.1
35/39	.0	.0	.0	.2	1.1	6.2	11.6	19.4	472	38.6
30/34	.0	.0	.0	.0	.0	.1	.3	.2	7	.6
TOTAL	.0	.1	.2	.12	.51	2.05	3.77	5.76	1224	100.0
PCT	.0	.1	.2	1.0	4.2	16.7	30.8	47.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.1	.0	.2	.2	.3	.2	.0	.1	.0	.1
45/49	1.0	.9	.8	.5	1.9	1.2	1.1	.7	.0	.4
40/44	4.8	4.6	9.1	5.9	7.5	4.7	6.7	6.3	.0	1.6
35/39	5.6	5.0	3.9	3.4	3.8	4.4	5.5	6.4	.0	.6
30/34	.2	.1	.0	.1	.0	.0	.1	.2	.0	.0
TOTAL	143	129	172	123	165	130	164	166	0	32
PCT	11.7	10.5	14.1	10.0	13.5	10.6	13.4	13.6	.0	2.6

TABLE 15

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

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	54	50	46	41	37	34	32	41.0	664
06009	53	49	46	40	37	34	32	40.6	560
12015	50	46	43	39	36	32	30	38.9	488
18021	52	48	44	39	36	33	30	39.5	603
TOT	54	49	45	40	36	34	30	40.1	2315

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	6.0	16.3	32.3	43.6	86	381
06009	.0	1.0	3.7	16.9	32.8	45.6	87	296
12015	.0	1.4	1.0	17.8	30.3	49.5	87	208
18021	.0	.6	4.4	16.4	27.9	50.7	87	341
TOT	0	15	51	205	378	577	87	1226

PERIOD: (PRIMARY) 1944-1969  
 (OVER-ALL) 1909-1969

MAY

AREA 5010 ATTU  
 51-55N 172-180E

TABLE 17

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

AIR-SEA TMP DIF	29	33	37	41	45	49	53	TOT	W	WD
	32	36	40	44	48	52	56		FOG	FOG
11/13	.0	.0	.0	.0	.1	.5	.1	8	.1	.5
9/10	.0	.0	.0	.1	1.0	.2	.0	17	.1	1.2
7/8	.0	.0	.0	.4	2.0	.1	.0	32	.4	2.0
6	.0	.0	.0	1.1	.6	.0	.0	22	.2	1.5
5	.0	.0	.1	2.4	1.4	.0	.0	50	.5	3.3
4	.0	.0	.3	4.0	.5	.0	.0	64	.3	4.6
3	.0	.0	.5	5.8	.1	.0	.0	84	.8	5.5
2	.0	.0	4.4	7.7	.2	.0	.0	163	1.2	11.2
1	.0	.2	5.9	3.8	.2	.0	.0	133	1.4	8.6
0	.0	.8	20.9	4.0	.1	.0	.0	339	2.2	23.5
-1	.0	.0	7.7	.9	.0	.0	.0	113	.8	7.7
-2	.0	1.7	7.2	.7	.1	.0	.0	127	1.0	8.6
-3	.0	1.0	4.1	.2	.0	.0	.0	69	.2	5.0
-4	.1	2.0	1.7	.1	.0	.0	.0	51	.1	3.8
-5	.1	.8	.5	.0	.0	.0	.0	18	.1	1.3
-6	.4	.2	.5	.0	.0	.0	.0	14	.0	1.1
-7/-8	.4	.3	.1	.0	.0	.0	.0	10	.0	.8
-9/-10	.1	.2	.0	.0	.0	.0	.0	4	.0	.3
TOTAL	13	94	709	410	81	10	1	1318	123	1195
PCT	1.0	7.1	53.8	31.1	6.1	.8	.1	100.0	9.3	90.7

PERIOD: (PRIMARY) MAY  
(OVER-ALL) 1963-1969

MAY

TABLE 18

AREA 0010 ATTU  
51-55N 172-180E

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

HGT	N					NE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
<1	.2	.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
1-2	.0	1.2	2.7	.0	.0	.0	.0	.4	.7	.0	.0	.0
3-4	.0	.4	1.1	.4	.0	.0	.0	1.1	.4	.0	.0	.0
5-6	.0	.2	1.2	.4	.2	.0	.0	.2	.5	.0	.2	.0
7	.0	.0	.7	.9	.2	.0	.0	.0	1.2	.4	.0	.0
8-9	.0	.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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
TOTAL	1	14	35	16	2	0	11	16	2	1	0	0
PCT	.2	2.5	6.2	2.8	.4	.0	2.0	2.8	.4	.2	.0	5.3

HGT	E					SE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
<1	.5	.9	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
1-2	.0	2.7	1.2	.0	.0	.0	.0	1.2	1.8	.0	.0	.0
3-4	.0	.9	1.8	.2	.0	.0	.0	.7	2.7	1.4	.0	.0
5-6	.0	.2	.7	.7	.0	.0	.0	.4	.7	.5	.0	.0
7	.0	.0	.5	.2	.0	.0	.0	.0	.4	1.4	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.4	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.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
TOTAL	3	26	24	6	0	0	15	32	27	5	0	79
PCT	.5	4.6	4.3	1.1	.0	.0	2.7	5.7	4.8	.9	.0	14.0

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
MAY  
TABLE 18  
AREA 0010 ATTU 172-180E  
51-55N

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

HGT	S					SW					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		48+
<1	.2	.5	.0	.0	.0	.4	.5	.0	.0	.0	.0	5
1-2	.4	2.1	2.7	.0	.0	.4	2.0	1.6	.0	.0	.0	22
3-4	.0	1.1	3.2	.7	.0	.0	.5	1.6	.4	.0	.0	14
5-6	.0	.4	2.7	.7	.0	.0	.2	2.5	.2	.0	.0	16
7	.0	.0	1.1	1.1	.0	.0	.0	.5	.2	.0	.0	4
8-9	.0	.0	.4	.2	.0	.0	.0	.2	.2	.0	.0	2
10-11	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0	2
12	.0	.0	.0	.4	.0	.0	.0	.2	.2	.0	.0	2
13-16	.0	.0	.0	.5	.4	.0	.0	.0	.0	.5	.0	3
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
TOTAL	3	23	56	22	2	4	18	37	8	3	0	70
PCT	.5	4.1	9.9	3.9	.4	.7	3.2	6.6	1.4	.5	.0	12.4

HGT	W					NW					TOTAL	
	1-3	4-10	11-21	22-33	34-47	1-3	4-10	11-21	22-33	34-47		48+
<1	.2	.4	.0	.0	.0	.0	.9	.0	.0	.0	.0	5
1-2	.4	4.4	1.4	.0	.0	.2	1.1	2.1	.0	.0	.0	19
3-4	.0	1.2	2.1	1.4	.0	.0	.4	1.1	.0	.0	.0	8
5-6	.0	.0	1.4	.7	.0	.0	.0	.7	.4	.0	.0	6
7	.0	.0	1.1	.7	.0	.0	.0	1.8	.4	.0	.0	12
8-9	.0	.0	.4	.5	.0	.0	.0	.0	.4	.0	.0	2
10-11	.0	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0	1
12	.0	.0	.0	.2	.0	.0	.0	.0	.4	.0	.0	2
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
TOTAL	3	35	37	22	0	1	13	33	8	0	0	55
PCT	.5	6.2	6.6	3.9	.0	.2	2.3	5.9	1.4	.0	.0	9.8

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	10.8	4.1	.0	.0	.0	.0	94				
1-2	1.8	13.5	12.7	.0	.0	.0	176				
3-4	.0	5.6	12.4	4.0	.0	.0	138				
5-6	.0	1.4	9.4	3.2	.3	.0	90				
7	.0	.0	6.5	4.6	.2	.0	71				
8-9	.0	.0	1.1	3.0	.3	.0	28				
10-11	.0	.0	.3	1.3	.2	.0	11				
12	.0	.0	.3	1.0	.3	.0	10				
13-16	.0	.0	.2	.6	.8	.0	10				
17-19	.0	.0	.0	.0	.0	.0	0				
20-22	.0	.0	.0	.0	.0	.0	0				
23-25	.0	.0	.0	.0	.0	.0	0				
26-32	.0	.0	.0	.0	.0	.0	0				
33-40	.0	.0	.0	.0	.0	.0	0				
41-48	.0	.0	.0	.0	.0	.0	0				
49-60	.0	.0	.0	.0	.0	.0	0				
61-70	.0	.0	.0	.0	.0	.0	0				
71-86	.0	.0	.0	.0	.0	.0	0				
87+	.0	.0	.0	.0	.0	.0	0				
TOTAL	79	155	270	111	13	0	628				
PCT	12.6	24.7	43.0	17.7	2.1	.0	100.0				

TABLE 19

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	1.2	16.9	11.2	6.1	1.9	.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	343	3
6-7	.0	1.7	4.2	4.3	3.4	2.2	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	159	5
8-9	.0	.8	5.1	3.9	7.5	1.8	1.7	1.4	1.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	215	6
10-11	.0	.0	.0	.0	.7	.1	1.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	9
12-13	.0	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	6
INDET	18.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
TOTAL	176	175	188	130	124	41	32	23	15	3	0	0	0	0	0	0	0	0	0	0	165	0
PCT	19.4	19.3	20.7	14.3	13.7	4.5	3.5	2.5	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	907	3
																					100.0	

PERIOD: (PRIMARY) 1950-1969  
(OVER-ALL) 1927-1969

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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	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG MO	SMOKE	HAZE	DUST	BLWG	
N	.4	*	.4	.0	.0	.0	.0	.9	35	.0	1.5	*	.0	5.1	290	
NNE	.2	.0	.3	.0	.0	.0	.0	.5	19	.0	.6	*	.0	3.1	160	
NE	.5	*	.3	.0	.0	.0	.0	.9	33	.0	1.5	*	.0	3.7	235	
ENE	.6	*	.7	.0	.0	.0	.0	1.4	53	.0	.9	.1	.0	3.6	234	
E	.9	.1	.9	.0	.0	.0	.0	1.8	69	.0	1.5	*	.0	5.4	337	
ESE	.5	*	.6	.0	.0	.0	.0	1.1	43	.0	.9	.1	.0	2.4	171	
SE	1.0	.0	.5	.0	.0	.0	.0	1.5	58	.0	1.1	*	.0	2.0	179	
SSE	.8	.1	.3	.0	.0	.0	.0	1.2	48	.0	.8	.1	.0	2.2	166	
S	1.3	.0	.9	.0	.0	.0	.0	2.3	87	.0	1.6	.1	.0	3.3	282	
SSW	.7	.0	.4	.0	.0	.0	.0	1.1	44	.0	1.1	.1	.0	2.3	176	
SW	.6	.1	.6	.0	.0	.0	.0	1.3	52	.0	1.8	.2	.0	2.9	240	
WSW	.3	*	.5	.0	.0	.0	.0	.8	30	.0	.8	.0	.0	3.5	198	
W	.6	.1	1.3	.0	.0	.0	.0	2.0	77	.0	1.4	.1	.0	7.7	430	
WNW	.3	.1	.6	.0	.0	.0	.0	1.0	37	.0	.9	*	.0	4.0	228	
NW	.1	.1	.4	.0	.0	.0	.0	.6	22	.0	.9	*	.0	3.1	179	
NNW	.2	.1	.2	.0	.0	.0	.0	.5	18	.0	.7	*	.0	3.7	190	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	0	
CALM	.1	.0	.3	.0	.0	.0	.0	.4	15	.0	1.1	.0	.0	2.6	158	
TOT OBS	354	27	360	0	1	0	0	.4	740	0	737	33	0	2343	3853	
TOT PCT	9.2	.7	9.3	.0	*	.0	.0	19.2		.0	19.1	.9	.0	60.8	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	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 MO	SMOKE	HAZE	DUST	BLWG	
0000	5.5	.5	7.4	.0	.0	.0	.0	13.4	140	.0	20.2	.8	.0	65.6	1047	
0600	9.6	1.0	8.5	.0	.1	.0	.0	19.1	175	.0	19.4	1.3	.0	60.2	918	
1200	12.8	.7	10.3	.0	.0	.0	.0	23.8	235	.0	13.0	.6	.0	62.6	987	
1800	9.1	.8	11.2	.0	.0	.0	.0	21.0	192	.0	24.2	.9	.0	53.9	916	
TOT	355	28	360	0	1	0	0	.9	742	0	740	34	0	2352	3868	
PCT	9.2	.7	9.3	.0	*	.0	.0	19.2		.0	19.1	.9	.0	60.8	100.0	

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)											TOTAL OBS		PCT FREQ	MEAN SPD	WIND DIRECTION BY HOUR (GMT)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09	12	15	18			21											
N	.5	2.7	2.1	1.0	.2	.0	365	7.6	13.6	9.0	7.0	10.0	5.7	8.0	6.4	6.9											
NNE	.3	1.7	1.9	.4	*	.0	204	4.3	12.8	4.1	3.5	5.8	3.6	4.0	6.4	3.0											
NE	.5	2.6	2.5	.5	.1	.0	299	6.2	11.8	7.9	4.3	6.3	4.7	6.3	6.0	6.9											
ENE	.1	2.0	2.1	.9	.1	.0	251	5.2	14.5	4.1	4.0	4.2	5.1	6.6	7.1	5.2											
E	.6	3.3	2.8	1.0	.1	.0	379	7.9	12.6	6.8	10.5	7.8	8.3	7.8	8.1	7.3											
ESE	.4	1.5	1.8	.2	*	.0	186	3.9	11.9	3.5	5.1	3.5	3.8	5.4	3.1	2.6											
SE	.6	1.6	1.8	.5	*	.0	213	4.4	11.9	4.8	4.3	4.0	6.2	3.8	3.6	4.7											
SE+	.2	1.3	1.9	.7	*	.0	193	4.0	14.7	4.0	4.3	3.8	5.7	4.0	3.8	3.9											
S	.6	2.7	2.8	1.1	.3	.0	355	7.4	13.6	7.7	7.8	6.1	9.6	6.3	6.3	10.1											
SSW	.2	1.5	2.5	.9	*	.0	242	5.0	14.4	3.8	4.0	4.3	5.1	4.7	5.5	6.0											
SW	.6	2.8	3.2	.6	.1	.0	354	7.4	12.6	6.0	8.8	5.7	8.3	7.7	7.3	8.6											
WSW	.2	2.4	2.2	.3	*	.0	245	5.1	11.3	5.3	5.9	5.1	6.8	5.1	6.7	3.4											
W	.4	4.0	5.0	1.2	.1	.0	514	10.7	13.2	11.4	9.7	13.1	9.6	11.8	10.0	8.0											
WNW	.3	2.0	2.8	.8	*	.0	286	6.0	13.6	5.9	9.4	5.6	4.0	4.8	7.8	5.6											
NW	.3	1.8	2.6	.6	*	.0	257	5.4	13.5	5.6	4.3	5.1	4.5	4.5	6.1	6.5											
NNW	.2	1.8	2.6	.6	*	.0	250	5.2	13.4	4.7	4.8	4.9	5.3	5.8	5.5	4.9											
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
CALM	4.2	17.4	19.7	5.42	59	0	200	4.2	.0	5.4	2.4	4.9	3.6	3.4	1.7	3.9											
TOT OBS	481	1714	41.7	11.3	1.2	.0	4793	100.0	12.6	931	373	720	470	726	418	688											
TOT PCT	10.0	35.8	41.7	11.3	1.2	.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	WIND DIRECTION BY HOUR (GMT)											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12	15	18	21														
N	2.3	6.3	2.5	.8	.0	569	11.9	13.3	13.1	10.5	15.8	9.4	12.0	7.7	12.4	9.9											
NE	2.3	6.1	2.7	.4	.1	550	11.5	13.1	12.0	8.3	10.4	9.8	12.9	11.0	13.1	12.0											
E	2.9	6.0	2.4	.5	.0	565	11.8	12.4	10.3	15.5	11.3	12.1	13.2	12.9	11.2	9.9											
SE	1.9	4.0	2.1	.5	.0	406	8.5	13.2	8.8	8.6	7.8	11.9	7.8	7.7	7.4	8.6											
S	2.9	5.0	4.1	.4	.1	599	12.5	13.9	11.5	11.8	10.4	14.7	11.0	15.8	11.8	16.1											
SW	2.9	6.7	2.6	.3	.0	599	12.5	12.1	11.3	14.7	10.8	15.1	12.8	16.0	10.8	12.0											
W	3.1	8.4	4.6	.5	.0	800	16.7	13.4	17.3	19.0	18.6	13.6	16.6	15.1	17.9	13.5											
NW	1.9	5.5	2.7	.5	.0	507	10.6	13.5	10.3	9.1	10.0	9.8	10.3	12.2	11.6	11.4											
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0											
CALM	4.2	22.98	11.34	189	9	200	4.2	.0	5.4	2.4	4.9	3.6	3.4	1.7	3.9	6.5											
TOT OBS	1163	47.9	23.7	3.9	.2	4793	100.0	12.6	931	373	720	470	728	418	688	465											
TOT PCT	24.3	47.9	23.7	3.9	.2	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)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										TOTAL OBS
	000	01-03	04-10	11-21	22-33	34-47	48+	CALM	MEAN	PCT FREQ	
00003	6.3	34.2	42.3	11.3	1.5	0	4.5	12.6	100.0	1304	
00009	5.8	36.5	41.3	11.1	.9	0	4.4	12.4	100.0	1190	
12015	5.0	36.0	45.1	9.9	1.2	0	2.8	12.7	100.0	1146	
18021	6.3	36.5	37.9	13.0	1.3	0	4.9	12.5	100.0	1153	
TOT	281	1714	1997	542	59	0	200	12.6		4793	
PCT	5.9	35.8	41.7	11.3	1.2	0	4.2		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	TOTAL OBS	000	150	300	
N	.2	.4	1.6	5.8	265	7.3	1.1	.3	3
NNE	.1	.1	1.1	3.3	153	7.4	.2	.4	4
ENE	.1	.1	1.2	4.0	187	7.6	.6	.1	1
E	*	*	.8	4.8	196	7.8	.9	.1	1
ESE	.1	.1	.9	8.3	309	7.7	1.5	.1	1
SE	.1	.1	.3	3.8	141	7.9	.8	.2	2
SSE	.0	.0	.1	3.7	134	7.6	.9	.3	4
S	.1	.1	.3	5.6	224	7.4	.7	.4	4
SSW	.2	.1	.7	3.4	149	7.7	1.1	.7	7
SW	*	.2	1.1	4.6	197	7.7	1.1	.7	7
WSW	*	.1	.6	4.4	170	7.4	.4	.4	4
W	.4	.3	2.5	8.6	391	7.3	1.2	1.3	8
WNW	.2	.2	1.3	4.2	200	7.3	.5	.5	2
NW	.2	.1	.8	3.7	160	7.1	.5	.6	1
NNW	.4	.2	1.0	3.9	181	7.1	.7	.3	2
VAR	.0	.0	.0	.0	0	.0	.0	.0	0
CALM	.1	*	.7	3.4	142	7.6	.8	.3	1
TOT OBS	75	79	539	2647	3340	7.5	477	143	143
TOT PCT	2.2	2.4	16.1	79.3	100.0		14.3	4.3	4.3

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 ANY HGT	
N	1.1	.3	.3	.8	1.5	2.2	.6	.1	.1	.1	265
NNE	.2	.1	.4	.5	1.3	1.2	.3	.1	.0	.4	153
ENE	.6	.1	.1	.5	1.5	1.4	.4	.1	.0	.8	187
E	.9	.2	.1	.5	1.9	1.1	.5	.1	.0	.5	196
ESE	1.5	.4	.1	1.1	2.5	2.1	.5	.1	.0	.7	309
SE	.8	.2	.2	.3	1.2	1.0	.1	.0	.0	.4	141
SSE	.9	.1	.3	.4	1.3	.8	.2	.0	.0	.1	141
S	.7	.1	.1	.3	1.6	.7	.2	.0	.0	.2	134
SSW	1.6	.1	.4	.5	1.7	1.2	.3	.1	.0	.6	224
SW	.7	.2	.4	.5	1.2	.7	.1	.0	.0	.5	149
WSW	1.1	.2	.7	.6	1.4	1.0	.1	.0	.0	.6	197
W	.4	.3	.1	.4	2.4	.6	.4	.0	.0	.4	170
WNW	1.2	.7	.4	1.3	3.4	2.0	.8	.1	.1	1.7	391
NW	.5	.1	.2	.5	1.9	1.6	.3	.0	.0	.8	200
NNW	.5	.1	.1	.6	1.8	.9	.1	.0	.0	.5	160
VAR	.7	*	.2	.3	2.0	1.1	.1	.1	.0	.8	181
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	477	111	143	323	1011	685	177	33	19	347	3340
TOT PCT	14.3	3.3	4.3	9.7	30.3	20.5	5.3	1.0	.6	10.4	100.0

PERIOD: (PRIMARY) 1950-1969  
(OVER-ALL) 1927-1969

JUNE

AREA 0010 ATTU  
51-55N 172-180E

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		>0	
	OR	DR	OR	DR	OR	DR	OR	DR	OR	DR	OR	DR	OR	DR
OR >6500	.6		1.0		1.0		1.0		1.0		1.0		1.0	
OR >5000	1.3	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >3500	3.9	6.5	7.2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
OR >2000	12.3	23.8	26.8	27.6	27.6	27.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
OR >1000	21.2	45.1	54.5	57.1	58.0	58.0	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
OR >600	22.8	50.0	62.0	66.1	67.4	67.4	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
OR >300	23.2	51.6	64.9	69.7	71.4	71.4	72.1	72.1	72.1	72.1	72.1	72.1	72.1	72.1
OR >150	23.3	52.5	66.5	71.8	74.0	74.0	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
OR > 0	23.6	53.4	68.4	76.0	80.4	80.4	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
TOTAL	786	1780	2280	2533	2679	2679	2843	2843	2843	2843	2843	2843	2843	2843

TOTAL NUMBER OF OBS: 3332

PCT FREQ NH <5/8: 10.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	1.6	1.5	2.9	2.1	2.5	3.4	6.6	10.8	57.5	11.1
										3658

JUNE

AREA 0010 ATTU  
51-55N 14-180E

PERIOD: (PRIMARY) 1950-1959  
(OVER-ALL) 1927-1969

TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	PCP	.1	.1	.1	.3	.2	.2	.3	.1	.2	.0	.0	.0	.3	.1	*	.1	.0	.0	.73	1.9
	NO PCP	.9	.2	.6	.4	.9	.5	.7	.4	1.0	.5	.8	.3	.7	.3	.4	.5	.0	.0	.382	10.0
	TOTAL	1.0	1.1	2.6	2.6	3.9	2.5	2.5	3.9	1.7	4.7	1.9	3.0	1.3	4.0	1.5	2.3	0	0	4.55	11.9
1/2<1	PCP	.2	.1	.2	.1	.3	.3	.3	.3	.5	.2	.2	.1	.4	.2	.0	*	.0	.0	1.25	3.3
	NO PCP	.1	.1	.2	.2	.3	.2	.2	.3	.2	.2	.3	.1	.3	.2	.1	.0	.0	.0	1.16	3.0
	TOTAL	1.0	1.0	1.5	1.4	2.2	1.8	1.8	2.1	2.1	2.7	1.4	2.0	1.0	2.6	1.1	1.1	0	1	2.41	6.3
1<2	PCP	.1	.0	.1	.4	.5	.2	.3	.3	.5	.2	.4	.2	.3	.1	.1	.1	.0	.0	1.51	3.9
	NO PCP	.2	.2	.4	.3	.4	.2	.2	.3	.5	.4	.5	.2	.6	.2	.3	.2	.0	.0	1.97	5.1
	TOTAL	1.2	1.2	1.8	1.9	3.2	2.5	2.5	2.6	3.9	2.4	3.8	1.6	3.3	1.4	1.4	.9	0	9	3.48	9.1
2<5	PCP	.3	.2	.3	.5	.5	.3	.4	.4	.6	.4	.5	.1	.4	.2	.2	.2	.0	.0	2.20	5.7
	NO PCP	.6	.2	.7	.4	1.0	.4	.3	.6	.8	.6	.7	.8	1.3	.9	.7	.4	.0	.0	4.14	10.8
	TOTAL	3.3	3.3	3.9	3.5	5.6	3.9	3.9	4.7	5.5	4.1	4.7	3.6	6.4	4.3	3.2	2.5	0	16	6.34	16.5
5<10	PCP	.2	.2	.2	.2	.4	.2	.2	.1	.3	.2	.1	.2	.5	.3	.2	.1	.0	.0	1.36	3.5
	NO PCP	2.0	1.4	1.2	1.6	2.7	1.1	1.0	.8	1.5	.7	1.2	1.3	3.4	1.7	1.2	1.2	.0	.0	9.93	25.9
	TOTAL	8.3	6.2	5.3	6.8	12.0	5.0	4.5	5.0	5.0	6.9	3.6	5.8	15.0	7.9	5.5	5.0	0	68	11.29	29.4
10+	PCP	.1	*	.1	*	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	*	.0	.0	.0	31	.8
	NO PCP	2.8	1.5	2.1	1.7	1.7	.9	.8	.7	1.0	1.0	1.4	1.6	2.9	1.5	1.4	2.1	.0	.8	9.96	26.0
	TOTAL	11.2	6.0	8.3	6.6	6.6	3.3	3.0	2.7	4.4	4.2	5.8	6.5	11.6	5.9	5.6	8.1	0	29	10.27	26.8
TOTAL PCT	286 7.5	159 4.1	234 6.1	233 6.1	335 8.7	171 4.5	179 4.7	166 4.3	281 7.3	176 4.6	240 6.3	198 5.2	429 11.2	429 11.2	224 5.8	177 4.9	189 4.9	0	1.57 4.1	3834 100.0	100.0

JUNE

PERIOD: (PRIMARY, 1950-1969  
(OVER-ALL) 1957-1969)

AREA 0010 ATTU  
51-55N 172-180E

TABLE 9

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

VSBY (NM)	SPD KT.S	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.1	.1	.2	.1	.1	.2	0	0	.0	0	.1	.4	.2	.1	*	.0	.7	82	1.7
	4-10	.4	.1	.4	.3	.3	.3	.2	.1	*	.2	.3	.4	.2	.1	.2	.4	.0	.0	203	4.3
	11-21	.2	.1	.2	.1	.2	.2	.2	.2	.3	.2	.3	.3	.3	.1	.1	.1	.0	.0	168	3.5
	22+	.1	.1	*	.1	.1	*	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	34	.7
TOTAL	38	15	30	27	41	25	50	19	30	13	43	19	43	17	17	29	29	0	467	10.2	
1/2<1	0-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	*	11	.2
	4-10	*	.1	.2	.1	.1	.2	.1	.1	.1	.2	.1	.2	.1	.1	.1	.0	.0	.0	73	1.5
	11-21	.1	*	.1	.2	.3	.2	.2	.3	.1	.3	.1	.3	.3	.1	*	*	.0	.0	123	2.6
	22+	.1	.0	*	.1	.1	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	58	1.2
TOTAL	10	6	16	14	27	19	33	15	23	10	30	14	30	17	14	1	1	0	265	5.6	
1<2	0-3	*	*	0	0	0	0	0	0	0	0	0	0	0	0	0	*	.0	.3	35	.7
	4-10	.1	.1	.2	.2	.1	.1	.2	.2	.2	.3	.2	.3	.6	.2	.1	*	.0	.0	106	2.2
	11-21	.1	.1	.2	.2	.3	.2	.3	.4	.4	.4	.7	.3	.6	.2	.1	.1	.0	.0	210	4.4
	22+	*	0	.1	.2	.3	.0	.1	.1	.4	.2	.3	*	.1	.1	.1	.1	.0	.0	97	2.0
TOTAL	14	8	24	25	37	16	46	35	64	27	43	22	43	16	16	10	10	0	448	9.4	
2<5	0-3	0	0	.1	*	0	.1	0	0	.1	.1	.1	.1	.1	.1	0	0	.0	.4	57	1.2
	4-10	.4	.2	.4	.3	.4	.2	.3	.2	.5	.6	.6	.6	.8	.3	.2	.1	.0	.0	262	5.5
	11-21	.3	.2	.5	.3	.3	.4	.7	.3	.6	.8	.8	.8	.8	.5	.6	.4	.0	.0	361	7.6
	22+	.3	.1	.2	.2	.3	.1	.3	.1	.1	.4	.1	.1	.4	.3	.3	.1	.0	.0	158	3.3
TOTAL	45	26	53	36	59	33	70	58	81	54	85	56	85	51	51	33	0	20	838	17.6	
5<10	0-3	.1	*	*	*	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	1.8	154	3.2
	4-10	.5	.6	.7	.6	.9	.6	.7	.7	.7	1.3	.6	.7	1.3	.6	.5	.3	.0	.0	469	10.3
	11-21	1.1	.8	.7	.7	.9	.7	.5	.6	.6	1.8	1.2	1.8	1.8	1.2	1.1	.9	.0	.0	612	12.8
	22+	.5	.2	.2	.2	.3	.1	.2	.1	.1	.3	.3	.3	.3	.3	.2	.3	.0	.0	177	3.7
TOTAL	104	78	68	74	138	58	88	60	76	68	173	97	173	89	89	73	0	87	1432	30.0	
10+	0-3	.3	.1	.3	.2	.1	.2	.1	.2	.1	.1	.1	.1	.1	.1	.1	*	.0	.9	140	2.9
	4-10	1.2	.6	1.0	.8	.8	.3	.7	.8	.8	1.3	.6	.8	1.3	.6	.8	.9	.0	.0	574	12.0
	11-21	1.3	.6	.8	.6	.6	.4	.5	.7	.7	1.2	.7	.7	1.2	.7	.7	1.1	.0	.0	507	10.6
	22+	.3	.1	.1	.1	.0	.1	.1	.1	.0	.3	.1	.3	.3	.1	.1	.1	.0	.0	75	1.6
TOTAL	149	69	106	73	75	35	67	54	79	73	138	74	138	74	76	103	0	44	1296	27.2	
TOTAL	360	202	297	249	377	186	354	241	353	245	512	282	512	254	254	249	0	199	4766	100.0	
PCT	7.6	4.2	6.2	5.2	7.9	3.9	7.4	5.1	7.4	5.1	10.7	5.9	10.7	5.3	5.3	5.2	.0	4.2	100.0		

JUNE

PERIOD: (PRIMARY) 1950-1969  
(OVER-ALL) 1927-1969

AREA 0010 ATTU  
51-55N 172-180E

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				OBS
00003	12.8	2.1	3.0	8.5	31.0	21.7	5.2	1.2	.4	.5	86.4	13.6	922
06009	13.0	4.1	4.5	10.2	29.0	19.4	6.0	.4	.5	.2	87.3	12.7	814
12015	15.7	3.2	4.5	10.8	28.4	19.9	5.2	1.5	.5	.3	89.9	10.1	873
18021	14.9	4.0	5.0	8.7	30.9	20.3	4.7	.8	.9	.5	90.6	9.4	784
TOT	478	111	143	323	1012	691	179	33	19	14	3003	390	3393
PCT	14.1	3.3	4.2	9.5	29.8	20.4	5.3	1.0	.5	.4	89.5	11.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL
(GMT)							OBS
00003	8.1	4.2	6.7	14.2	32.0	34.8	906
06009	8.4	4.8	8.0	14.0	32.2	32.6	798
12015	8.6	5.0	8.7	19.8	34.2	23.7	860
18021	12.4	3.9	7.3	14.8	32.9	28.6	768
TOT	309	149	256	525	1094	999	3332
PCT	9.3	4.5	7.7	15.8	32.8	30.0	100.0

TABLE 12

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

HR	< 150	< 600	< 1000	1000+	NH < 5/8	TOTAL
(GMT)	< 50YD	< 1	< 5	AND 5+	AND 5+	OBS
00003	12.6	19.4	40.6	48.2	11.1	906
06009	13.0	23.8	44.9	43.9	11.3	798
12015	16.0	26.3	51.0	40.6	8.4	860
18021	15.1	25.7	43.8	47.7	6.5	768
TOT	472	789	1517	1502	313	3332
PCT	14.2	23.7	45.5	45.1	9.4	100.0

JUNE

PERIOD: (PRIMARY) 1950-1969  
(OVER-ALL) 1927-1969

AREA 0010 ATTU  
51-55N 172-180E

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				
60/64	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
55/59	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0	11	.7
50/54	.0	.0	.0	.1	.5	1.1	4.4	2.2			123	8.3
45/49	.0	.0	.0	.2	.5	3.1	8.4	15.7			416	27.9
40/44	.0	.0	.0	.0	.6	4.8	11.9	39.4			845	56.7
35/39	.0	.0	.0	.0	.0	.2	1.6	4.5			94	6.3
TOTAL	.0	.0	.0	.4	.25	142	398	921			1490	100.0
PCT	.0	.0	.0	.3	1.7	9.5	26.7	61.8				

TABLE 14

TEMP	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										
	N	NE	E	SE	S	SW	W	NW	VAR	CALM	
60/64	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
55/59	.1	.1	.1	.0	.3	.1	.1	.0	.0	.1	
50/54	.7	.9	.5	1.2	1.7	1.0	.5	.9	.0	.6	
45/49	2.5	3.5	2.5	3.6	4.6	4.1	2.8	1.7	.0	2.7	
40/44	7.1	5.8	7.2	4.9	6.0	7.2	9.7	7.4	.0	1.4	
35/39	1.4	.5	1.1	.0	.1	.2	1.3	1.6	.0	.1	
TOTAL	177	162	169	145	189	187	214	174	0	73	
PCT	11.9	10.9	11.3	9.7	12.7	12.6	14.4	11.7	.0	4.9	

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL		
00603	60	54	50	43	39	37	34	44.1	1281		
06609	60	54	50	43	39	37	35	43.5	1177		
12615	57	49	45	41	38	37	36	41.6	1130		
18621	58	52	48	42	38	37	35	42.2	1142		
TOT	60	53	49	43	39	37	34	42.9	4730		

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		
00603	.0	.0	.3	1.3	1.3	10.4	30.5	57.6	90	394	
06609	.0	.2	.2	1.2	1.2	11.4	26.6	60.3	90	403	
12615	.0	.4	.4	2.2	2.2	7.0	22.5	67.9	91	271	
18621	.0	.2	.2	2.1	2.1	8.5	25.9	63.2	90	424	
TOT	0	4	4	25	25	142	399	922	90	1492	

PERIOD: PRIMARY) 1950-1969  
 (SECONDARY) 1927-1969

JUNE

AREA 0010 ATTU  
 51-55N 172-180E

TABLE 17

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

AIR-SEA TMP DIF	33	37	41	45	49	53	57	TOT	W FOG	MO FOG
14/16	.0	.0	.0	.0	.2	.1	.1	9	.1	.2
11/13	.0	.0	.0	*	.6	.3	.1	26	.4	.6
9/10	.0	.0	.0	.6	.8	.3	*	48	.8	1.0
7/8	.0	.0	.1	1.8	.9	.1	.0	76	1.1	1.8
6	.0	.0	.5	1.3	.4	.0	.0	56	.7	1.4
5	.0	.0	.8	2.1	.3	.0	.0	83	.6	2.5
4	.0	.0	2.7	3.6	.2	.0	.0	174	1.1	5.4
3	.0	.2	3.0	1.2	.1	.0	.0	121	1.1	3.5
2	.0	.2	9.3	5.9	*	.0	.0	411	3.0	12.4
1	.0	.8	5.8	.9	.0	.0	.0	198	1.8	5.6
0	.0	6.5	25.8	3.8	.0	.0	.0	962	5.7	30.4
-1	*	3.3	2.6	.2	.0	.0	.0	161	1.3	4.7
-2	.0	5.6	3.8	.4	.0	.0	.0	258	2.3	7.4
-3	.2	.6	.5	.1	.0	.0	.0	36	.2	1.2
-4	.2	.8	.3	.1	.0	.0	.0	37	.6	.8
-5	.0	*	.2	.0	.0	.0	.0	6	.1	.2
-6	.0	.0	*	.0	.0	.0	.0	1	.0	*
-7/-8	.0	*	.1	.0	.0	.0	.0	3	*	.1
TOTAL	13	478	1473	585	91	21	5	2666	558	2108
PCT	.5	17.9	55.3	21.9	3.4	.8	.2	100.0	20.9	79.1

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

HGT	N					NE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.3	1.5	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	7
1-2	.6	5.1	1.8	.0	.0	.0	.0	2.4	1.7	.0	.0	.0	29
3-4	.0	.8	2.2	.0	.0	.0	.0	1.4	1.8	.1	.0	.0	24
5-6	.0	.0	1.8	.3	.0	.0	.0	.0	1.9	.6	.1	.0	19
7	.0	.1	1.0	.4	.0	.0	.0	.0	1.0	.1	.0	.0	8
8-9	.0	.0	.1	.1	.0	.0	.0	.1	.3	.3	.0	.0	5
10-11	.0	.0	.1	.8	.1	.0	.0	.1	.0	.0	.0	.0	1
12	.0	.0	.0	.3	.1	.0	.0	.0	.1	.0	.0	.0	1
13-16	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	6	55	51	15	3	0	0	36	50	8	1	0	95
PCT	.8	7.6	7.1	2.1	.4	.0	.0	5.0	6.9	1.1	.1	.0	13.2

HGT	E					SE					TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+
<1	.4	1.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	3
1-2	.1	3.3	2.1	.0	.0	.0	.3	1.3	.7	.0	.0	.0	16
3-4	.0	.7	1.5	.1	.0	.0	.0	.1	1.1	.0	.0	.0	9
5-6	.0	.1	1.5	.3	.0	.0	.1	.0	.0	.1	.0	.0	2
7	.0	.0	.3	.6	.0	.0	.0	.0	.3	.0	.0	.0	2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	4
10-11	.0	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.0	1
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	2
13-16	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	4	37	42	7	1	0	5	11	17	8	0	0	41
PCT	.6	5.1	5.8	1.0	.1	.0	.7	1.5	2.4	1.1	.0	.0	5.7

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

HGT	S										TOTAL	48+	SW				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47	48+			
<1	.1	.4	.0	.0	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.8	.0	.0	.0	.0	.0	.0	1.4	1.3	.0	.0	.0	.0	.0	.0	
3-4	.0	.1	.6	.0	.0	.0	.0	.0	.6	1.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.1	.0	.1	.0	.0	.0	.0	.3	1.3	.1	.0	.0	.0	.0	.0	
7	.0	.0	.4	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.3	.0	.0	.0	.0	.1	.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	
TOTAL	1	11	15	3	0	0	0	3	22	32	1	0	0	0	58	0	
PCT	.1	1.5	2.1	.4	.0	.0	.0	.4	3.1	4.4	.1	.0	.0	.0	8.1	.0	

HGT	W										TOTAL	48+	NW				TOTAL	GRAND TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33			34-47	48+				
<1	.8	.8	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	4.2	1.8	.0	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	1.3	5.1	.3	.0	.0	.0	.0	.6	1.8	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.1	2.4	.4	.0	.0	.0	.0	.4	1.3	.6	.0	.0	.0	.0	.0	.0	
7	.0	.1	2.2	1.3	.1	.0	.0	.0	.0	1.3	.4	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	1.9	.8	.0	.0	.0	.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	6	47	100	24	1	0	0	178	28	48	19	0	0	0	97	720	0	
PCT	.8	6.5	13.9	3.3	.1	.0	.0	24.7	3.9	6.7	2.6	.0	.0	.0	13.5	100.0	.0	

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	48+	48+	48+	48+	
<1	11.5	6.5	.0	.0	.0	.0	.0	.0	.0	.0	144
1-2	1.7	17.6	11.1	.0	.0	.0	.0	.0	.0	.0	244
3-4	.1	5.0	13.6	.5	.0	.0	.0	.0	.0	.0	154
5-6	.1	1.0	9.1	2.2	.1	.0	.0	.0	.0	.0	101
7	.0	.5	5.9	2.5	.1	.0	.0	.0	.0	.0	72
8-9	.0	.1	3.0	2.0	.0	.0	.0	.0	.0	.0	41
10-11	.0	.1	.7	2.1	.2	.0	.0	.0	.0	.0	26
12	.0	.0	.4	.7	.1	.0	.0	.0	.0	.0	10
13-16	.0	.0	.5	.5	.1	.0	.0	.0	.0	.0	9
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
TOTAL	108	247	355	85	6	0	0	0	0	0	801
PCT	13.5	30.8	44.3	10.6	.7	.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	3-4	5-6	7	8-9	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	2.0	19.1	14.0	5.5	2.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	440	3
6-7	.2	1.8	8.1	6.8	4.6	1.4	.4	.9	.8	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	5
8-9	.1	.6	1.8	2.2	1.6	.8	1.5	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	6
10-11	.0	.0	.3	.5	.0	1.7	1.0	.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	8
12-13	.0	.0	.0	.0	.0	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
>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	15.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160	0
TOTAL	181	215	245	150	87	47	40	14	16	1	4	0	0	0	0	0	0	0	0	0	0	1000	3
PCT	18.1	21.5	24.5	15.0	8.7	4.7	4.0	1.4	1.6	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1943-196.  
(OVER-ALL) 1924-1969

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG	SNOW	OTHER					FG	SMOKE	HAZE	BLWG	DUST		SIG
N	.1	.0	.5	.0	.0	.0	.0	.6	13	.0	.8	.0	.0	.0	.0	1.5	63
NNE	.1	.0	.4	.0	.0	.0	.0	.5	11	.0	.8	.0	.0	.0	.0	1.0	50
NE	.2	.0	.2	.0	.0	.0	.0	.4	9	.0	1.5	.0	.0	.0	.0	1.3	71
ENE	.1	.0	.3	.0	.0	.0	.0	.4	9	.0	1.1	.0	.0	.0	.0	2.3	83
E	1.0	.0	.7	.0	.0	.0	.0	1.6	35	.0	2.3	.0	.0	.0	.0	3.0	149
ESE	.6	.0	.6	.0	.0	.0	.0	1.1	24	.0	1.6	.0	.0	.0	.0	1.9	101
SE	1.5	*	.8	.0	.0	.0	.0	2.3	50	.0	2.5	.1	.0	.0	.0	1.9	147
SSE	.9	*	.6	.0	.0	.0	.0	1.5	33	.0	2.9	.0	.0	.0	.0	1.5	130
S	1.9	.0	.8	.0	.0	.0	.0	2.7	59	.0	4.1	.1	.0	.0	.0	3.1	218
SSW	.8	.1	.8	.0	.0	.0	.0	1.8	39	.0	2.2	.1	*	.0	.0	2.6	149
SW	1.6	.1	1.0	.0	.0	.0	.0	2.6	57	.0	5.8	.5	.0	.0	.0	4.3	308
WSW	.2	.0	.8	.0	.0	.0	.0	1.0	22	.0	3.1	.0	.0	.0	.0	4.1	177
W	.2	.0	.3	.0	.0	.0	.0	.6	12	.0	3.6	.1	*	.0	.0	4.5	190
WNW	*	.0	.3	.0	.0	.0	.0	.3	7	.0	1.1	.0	.0	.0	.0	2.1	76
NW	*	.0	.0	.0	.0	.0	.0	.1	2	.0	.9	.0	.0	.0	.0	2.5	77
NNW	*	.0	.1	.0	.0	.0	.0	.2	4	.0	.6	.0	.0	.0	.0	1.5	49
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.3	.0	.0	.0	.0	.4	9	.0	2.5	.0	.0	.0	.0	2.9	124
TOT OBS	208	9	182	0	0	0	0	18.3	395	0	831	26	2	2	908	2162	
TOT PCT	9.6	.4	8.4	.0	.0	.0	.0	18.3	395	.0	38.4	1.2	.1	.1	42.0	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS	
				FRZG	SNOW	OTHER					FG	SMOKE	HAZE	BLWG	DUST		SIG
0003	8.9	.2	6.5	.0	.0	.0	.0	15.3	94	.0	37.4	1.5	.0	.0	.0	45.9	615
0609	10.6	.4	8.0	.0	.0	.0	.0	18.8	101	.0	40.0	1.5	.0	.0	.0	39.8	538
12015	11.0	.9	11.2	.0	.0	.0	.0	22.8	106	.0	30.8	.2	.0	.0	.0	46.0	465
18021	8.1	.4	8.6	.0	.0	.0	.0	17.0	95	.0	44.7	1.4	.0	.0	.0	36.7	559
TOT	208	9	183	0	0	0	0	18.2	396	0	838	26	2	2	915	2177	
PCT	9.6	.4	8.4	.0	.0	.0	.0	18.2	396	.0	38.5	1.2	.1	.1	42.0	100.0	

JULY

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1924-1969

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										TOTAL OBS	PCT FREQ	MEAN SPD	WIND SPEED (KNOTS)											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09				12	15	18	21								
N	.6	1.1	1.2	.5	.1	.0	95	3.4	1.2	2.2	3.2	3.1	4.9	4.4											
NNE	.3	1.2	.8	.2	.0	.0	68	1.3	2.9	3.0	2.6	3.4	2.1	3.5											
NE	.5	1.9	.8	.4	*	.0	99	3.8	2.9	4.0	4.1	2.1	4.2	3.8											
ENE	.3	1.2	1.5	.6	.0	.0	99	3.7	3.5	3.8	2.9	4.7	4.4	2.6											
E	.6	2.1	2.8	.8	*	.0	73	6.3	5.9	5.4	4.1	6.3	8.7	6.7											
ESE	.4	1.7	1.9	.3	*	.0	118	4.2	6.5	5.4	5.2	5.2	4.3	2.0											
SE	.5	2.1	3.3	.4	*	.0	174	6.6	5.9	6.7	7.6	6.3	3.6	5.3											
SSE	.6	1.8	2.2	.8	*	.0	149	5.0	3.5	5.4	5.2	7.3	8.7	3.5											
S	1.0	3.4	4.2	1.2	*	.0	270	10.6	9.4	10.0	10.5	8.6	1.4	9.9											
SSW	.4	2.7	2.9	.7	.1	.0	184	6.4	8.2	6.2	7.6	6.8	8.7	5.8											
SW	1.6	5.9	5.7	1.5	.3	.0	414	14.7	17.6	11.9	21.5	11.7	6.0	21.9											
WSW	.2	2.8	4.4	.9	.0	.0	227	7.2	7.6	8.4	4.1	10.4	9.9	7.3											
W	.5	3.8	4.5	.5	*	.0	258	10.3	8.8	10.5	7.6	8.1	10.2	9.1											
WNW	*	1.6	1.7	.3	.0	.0	98	2.9	5.9	4.6	4.7	3.1	4.3	1.2											
NW	.3	1.8	1.6	.2	.1	.0	110	4.3	4.1	5.1	4.1	4.9	3.6	3.5											
NNW	.1	1.0	.9	.1	.1	.0	65	2.7	2.9	2.2	2.0	1.8	2.2	1.8											
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0											
CALM	5.7	990	1109	256	26	0	156	6.7	2.9	5.4	3.2	6.3	2.9	7.6											
TOT OBS	376	35.9	40.2	9.3	.9	.0	2757	624	170	371	344	384	138	342											
TOT PCT	13.6	12.8	12.8	3.4	3.4	0.0	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	WIND SPEED (KNOTS)											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12	15	18				21											
N	1.8	2.5	1.3	.3	*	163	4.6	4.1	5.1	5.8	6.5	7.0	7.9														
NE	2.5	2.9	1.5	.3	.0	198	7.5	6.5	7.8	7.0	6.8	4.3	6.4														
E	2.6	5.3	2.3	.4	.0	291	10.4	12.4	10.8	9.3	11.5	13.0	8.8														
SE	2.4	6.2	2.9	.3	.0	323	11.5	9.4	12.1	12.8	13.5	12.3	8.8														
S	3.6	8.2	4.1	.5	*	454	17.0	17.6	16.2	18.0	15.4	10.1	15.8														
SW	5.2	11.2	5.8	1.0	*	641	22.0	25.3	20.2	25.6	22.1	31.2	29.2														
W	2.8	7.1	2.8	.2	.0	356	13.1	14.7	15.1	12.2	11.2	13.8	10.2														
NW	2.0	3.0	1.1	.2	*	175	7.1	7.1	7.3	6.1	6.8	5.8	5.3														
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0														
CALM	5.7	1278	600	86	4	156	6.7	2.9	5.4	3.2	6.3	2.9	7.6														
TOT OBS	789	46.4	21.8	3.1	.1	2757	624	170	371	344	384	138	342														
TOT PCT	28.6	12.8	10.0	3.1	1.4	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)

WIND DIR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)												TOTAL OBS
	HOUR	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN	PCT FREQ	TOTAL OBS		
N	00603	7.7	37.4	38.9	8.7	1.4	.0	5.9	11.7	100.0	794		
NNE	06609	9.4	38.7	38.0	8.4	1.1	.0	4.3	11.5	100.0	715		
NE	12615	4.4	30.5	48.9	10.3	.6	.0	5.4	12.9	100.0	522		
E	18621	9.5	35.4	37.6	10.1	.6	.0	6.9	11.3	100.0	726		
ESE	TOT	220	990	1109	256	26	0	156	11.8	100.0	2757		
SE	PCT	8.0	35.9	40.2	9.3	.9	.0	5.7	11.8	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

BY WIND DIRECTION

WIND DIR	BY WIND DIRECTION								MEAN CLOUD COVER	TOTAL OBS
	0-2	3-4	5-7	8 &	8 BSCD	8 &	8 BSCD	8 &		
N	.2	.1	.4	2.0	47	7.2	7.2	7.2	47	
NNE	.0	.1	.1	2.3	43	7.8	7.8	7.8	43	
NE	.1	.1	.6	2.7	60	7.6	7.6	7.6	60	
ENE	.0	.1	.3	3.4	65	7.8	7.8	7.8	65	
E	.1	.1	.6	7.1	135	7.8	7.8	7.8	135	
ESE	.2	.0	.2	4.7	86	7.7	7.7	7.7	86	
SE	.2	.1	.1	5.8	108	7.6	7.6	7.6	108	
SSE	.2	.0	.3	5.2	99	7.7	7.7	7.7	99	
S	.2	.1	.8	9.3	178	7.7	7.7	7.7	178	
SSW	.2	.2	.9	5.0	107	7.5	7.5	7.5	107	
SW	.3	.2	1.8	9.1	196	7.5	7.5	7.5	196	
WSW	.1	.1	1.2	7.2	148	7.7	7.7	7.7	148	
W	.2	.2	1.5	7.9	168	7.6	7.6	7.6	168	
WNW	.1	.1	.6	3.5	72	7.7	7.7	7.7	72	
NW	.3	.0	.4	3.1	65	7.4	7.4	7.4	65	
NNW	.1	.2	.1	2.2	43	7.5	7.5	7.5	43	
VAR	.0	.0	.0	.0	0	.0	.0	.0	0	
CALM	.1	.1	.7	4.6	95	7.6	7.6	7.6	95	
TOT OBS	40	29	184	1462	1715	7.6	7.6	7.6	1715	
TOT PCT	2.3	1.7	10.7	85.2	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	999	1000	1999	3500	5000		6500	8000+	NH <5/8 ANY HGT
N	.5	.0	.0	.3	.2	.2	.2	.2	.6	.6	.1	.0	.0	.1	.3	47
NNE	.8	.0	.0	.2	.3	.2	.2	.2	.4	.5	.2	.0	.0	.0	.1	43
NE	.9	.1	.1	.1	.7	.2	.2	.2	.7	.2	.2	.2	.1	.0	.3	60
ENE	1.3	.0	.0	.4	.2	.4	.2	.2	1.2	.4	.1	.1	.0	.0	.2	65
E	2.3	.1	.1	.8	1.0	.8	1.0	.8	1.6	.8	.2	.1	.0	.0	1.0	135
ESE	1.5	.0	.3	.3	.5	.3	.5	.3	1.2	.8	.2	.1	.0	.0	.5	86
SE	2.6	.2	.2	.6	.4	.4	.4	.4	1.6	.4	.2	.0	.0	.0	.3	108
SSE	2.6	.2	.2	.3	.6	.3	.6	.3	1.2	.3	.2	.0	.0	.0	.3	99
S	4.1	.2	.2	1.1	.9	.9	.9	.9	2.0	.9	.5	.1	.0	.0	.4	178
SSW	1.7	.2	.2	.5	.6	.5	.6	.5	1.5	.7	.3	.1	.1	.0	.4	107
SW	3.6	.5	.5	1.6	1.2	1.2	1.2	1.2	2.6	.6	.3	.0	.0	.0	.6	196
WSW	2.3	.2	.2	.8	1.0	.8	1.0	.8	2.3	1.1	.1	.1	.1	.1	.6	148
W	2.8	.1	.1	.5	2.0	2.2	2.0	2.2	2.2	1.1	.3	.1	.1	.1	.6	168
WNW	.8	.1	.1	.2	.5	.9	.5	.9	1.2	.7	.2	.0	.0	.0	.2	72
NW	.6	.0	.0	.1	.2	.9	.2	.9	1.1	.3	.2	.2	.1	.0	.4	65
NNW	.3	.1	.1	.0	.2	1.0	.2	1.0	.3	.2	.1	.0	.0	.0	.3	43
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	2.0	.0	.0	.1	.3	1.9	.3	1.9	1.9	.6	.1	.0	.0	.0	.3	95
TOT OBS	527	32	135	188	407	203	62	19	127	1715	5	127	1715	1715	1715	
TOT PCT	30.7	1.9	7.9	11.0	23.7	11.8	3.6	1.1	3.6	11.1	.6	.3	7.4	100.0	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.4	.6	.8	.8	.8	.8	.9	.9
OR >5000	.9	1.7	1.9	1.9	1.9	2.0	2.1	2.1
OR >3500	2.3	5.0	5.3	5.5	5.6	5.7	5.8	5.8
OR >2000	6.7	14.0	16.6	17.3	17.5	17.8	17.9	17.9
OR >1000	13.4	31.0	37.6	40.1	40.6	41.3	41.6	41.7
OR >600	15.1	36.0	45.2	49.7	51.1	52.1	52.5	52.5
OR >300	15.5	37.9	49.2	55.6	57.6	59.9	60.4	60.4
OR >150	15.5	38.0	49.5	56.4	58.6	61.4	62.2	62.3
OR > 0	16.1	39.7	52.9	61.2	66.1	76.8	90.8	92.5
TOTAL	275	677	902	1042	1126	1308	1548	1577

TOTAL NUMBER OF OBS: 1704

PCT FREQ NH <5/8: 7.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
1.1	1.5	1.9	1.2	2.0	1.7	4.0	6.3	56.4	24.1	1983
										OBSCD
										OBSCD

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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	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
PCP	* .1	* .3	.1	.8	.6	.7	.4	.3	.2	.1	.1	.3	.2	.1	.0	.1	.0	.2	99	4.6
NO PCP	.3	.5	.7	1.6	1.9	2.9	1.3	3.2	1.8	2.4	3.2	1.8	2.4	.7	.5	.4	.0	1.6	480	22.5
TOTAL	7	12	16	17	31	22	51	53	77	37	30	45	56	16	10	10	0	39	579	27.1
PCP	* .1	* .3	.0	.3	.2	.4	.2	.5	.1	.1	.1	.1	.1	.0	.0	*	.0	.1	58	2.7
NO PCP	.1	.1	.1	.3	.4	.3	.3	1.5	.6	.3	1.5	.7	.4	*	.1	.0	.0	.3	118	5.5
TOTAL	3	3	5	3	15	11	12	12	21	11	41	17	10	1	2	1	0	8	176	8.2
PCP	.3	.1	*	.1	.4	.3	.5	.3	.7	.5	.4	.1	*	.1	*	.0	.0	.0	83	3.9
NO PCP	.2	.2	.3	.1	.3	.1	.3	.4	.4	.7	1.6	.7	.6	.3	.2	.2	.0	.4	153	7.2
TOTAL	11	7	7	5	14	9	16	15	23	25	42	18	14	10	6	5	0	9	236	11.0
PCP	.1	.1	.1	.2	.5	.2	.5	.3	.5	.2	.7	.1	.1	.1	.0	*	.0	.1	85	4.0
NO PCP	.3	.4	.3	.5	.7	.2	.5	.4	.8	.9	1.8	1.3	1.4	.6	.4	.2	.0	.4	243	11.4
TOTAL	10	10	9	20	25	9	21	15	29	24	54	31	33	15	8	5	0	10	328	15.4
PCP	.1	.2	.1	*	.2	.2	.3	.2	.2	.4	.5	.2	.1	.0	*	.0	.0	.0	59	2.8
NO PCP	.6	.2	.5	1.0	1.8	1.1	.7	2.4	1.5	1.1	2.4	1.7	1.4	.7	1.1	.6	.0	1.6	398	18.6
TOTAL	14	9	12	22	42	28	20	20	37	32	62	40	32	16	25	12	0	34	457	21.4
PCP	.0	.4	.0	.1	.0	.1	*	.0	.1	.0	*	.1	.0	.0	.0	.0	.0	*	11	.5
NO PCP	.8	.8	1.0	.8	.9	.8	1.0	.6	1.1	.8	1.3	1.1	1.9	.8	1.1	.7	.0	1.0	349	16.3
TOTAL	18	8	21	16	20	20	23	13	26	18	29	26	41	18	24	16	0	23	360	16.9
TOTAL	63	49	70	83	147	99	143	128	213	147	308	177	186	76	75	49	0	123	2136	100.0
PCT	2.9	2.3	3.3	3.9	6.9	4.6	6.7	6.0	10.0	6.9	14.4	8.3	8.7	3.6	3.5	2.3	.0	5.8	100.0	

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.1	.1	.1	.1	.0	.2	.3	.2	.5	*	.1	.0	*	*	.0	1.5	91	3.3
	4-10	.1	.3	.3	.4	.6	.3	.6	.7	.5	.5	1.1	.7	1.1	.4	.1	.2	.0	.0	207	7.6
	11-21	.1	.1	.2	.4	1.2	.4	1.2	.8	1.5	.6	1.2	1.0	1.3	.2	.1	.1	.0	.0	267	9.8
	22+	.0	*	.0	.1	.1	.1	.1	.3	.5	.2	.3	.0	.0	.0	.1	*	.0	.0	50	1.8
	TOTAL	8	12	17	19	34	25	52	53	77	39	86	47	69	17	10	10	0	40	615	22.6
1/2<1	0-3	*	*	*	.0	*	.0	*	.1	*	.0	.1	*	*	.0	.0	.0	.0	.3	20	.7
	4-10	.0	*	.1	.1	.1	.1	.1	.1	.3	.1	.6	.3	.2	.0	.0	.1	.0	.0	58	2.1
	11-21	.1	*	.2	.1	.2	.3	.3	.1	.4	.2	.6	.3	.2	*	.1	*	.0	.0	82	3.0
	22+	.0	.0	.0	.0	.2	*	*	.1	.1	*	.4	.1	.0	.0	.0	.1	.0	.0	33	1.2
	TOTAL	3	3	8	3	15	11	13	12	24	11	43	19	11	1	3	5	0	8	193	7.1
1<2	0-3	.1	.1	*	.0	*	.0	*	.1	.2	*	.2	*	.1	.0	.0	.1	.0	.4	39	1.4
	4-10	.2	.1	.2	.1	.1	.1	.2	.2	.3	.5	.7	.3	.4	.1	.1	.1	.0	.0	104	3.8
	11-21	.3	.1	.0	.1	.3	.2	.3	.1	.4	.4	.6	.2	.1	.1	.1	.0	.0	.0	93	3.4
	22+	.1	.0	*	*	.1	*	.1	.1	.2	.1	.3	.2	.0	.1	.0	.1	.0	.0	41	1.5
	TOTAL	19	8	8	5	16	9	17	17	30	27	48	20	16	11	7	8	0	11	277	10.2
2<5	0-3	*	.0	*	.1	*	.1	.1	.1	.1	.0	.3	*	.0	.0	.0	.0	.0	.6	43	1.6
	4-10	.1	.3	.3	.2	.3	.1	.3	.2	.6	.6	.6	.4	.5	.1	.1	.1	.0	.0	130	4.8
	11-21	.1	.1	.1	.4	.5	.3	.4	.1	.3	.4	1.1	.7	.9	.4	.1	.2	.0	.0	170	6.2
	22+	.3	.1	.1	.3	.2	.0	.1	.2	.2	.1	.2	.2	.1	.1	*	.0	.0	.0	62	2.3
	TOTAL	18	14	14	24	27	14	28	17	36	28	59	36	41	16	9	7	0	17	405	14.9
5<10	0-3	.2	.1	.1	.1	.2	.1	.1	.1	.1	.1	.2	.0	.1	*	.1	.0	.0	1.7	91	3.3
	4-10	.3	.2	.5	.4	.6	.6	.4	.3	1.1	.6	1.7	.6	.8	.4	.7	.1	.0	.0	252	9.2
	11-21	.2	.1	.1	.3	.9	.4	.7	.5	.7	1.0	1.7	1.5	.8	.3	.5	.3	.0	.0	273	10.0
	22+	.1	*	.1	.1	.2	.1	.0	.1	.1	.2	.6	.3	.3	*	.1	.1	.0	.0	69	2.5
	TOTAL	21	14	21	25	51	34	32	27	57	52	112	64	53	22	38	15	0	47	685	25.1
10+	0-3	.1	.1	.3	.1	.2	.1	.2	*	.2	.1	.3	.1	.2	.0	.1	*	.0	1.2	91	3.3
	4-10	.4	.3	.6	.4	.4	.3	.4	.2	.5	.4	1.4	.6	.9	.4	.8	.4	.0	.0	229	8.4
	11-21	.4	.3	.2	.3	.3	.4	.4	.4	.8	.3	.6	.8	1.1	.6	.5	.3	.0	.0	209	7.7
	22+	*	.0	.1	*	.1	.0	.0	.1	*	.1	.1	*	.1	.1	*	.0	.0	.0	23	.8
	TOTAL	26	16	30	23	28	23	28	21	41	24	65	41	64	31	40	19	0	32	552	20.2
	TOTAL	95	67	98	99	171	116	170	147	265	181	413	227	254	98	107	64	0	155	2727	100.0
	PCT	3.5	2.5	3.6	3.6	6.3	4.3	6.2	5.4	9.7	6.6	15.1	8.3	9.3	3.6	3.9	2.3	.0	5.7	100.0	

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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL	
(GMT)	149	299	599	999	1999	3499	4999	6499	7999			OBS	
00003	24.0	1.6	8.4	12.2	25.3	12.2	3.3	1.0	.8	.4	89.2	10.8	491
06009	30.0	1.9	8.6	9.8	22.8	11.4	4.7	1.6	.2	.0	90.9	9.1	430
12015	35.5	1.8	6.9	9.9	20.3	11.4	3.3	1.0	.5	.5	91.1	8.9	394
18021	32.9	2.1	7.0	10.9	24.4	12.1	3.5	.9	.7	.2	94.7	5.3	431
TOT	529	32	135	188	407	206	64	20	10	5	1596	150	1746
PCT	30.3	1.8	7.7	10.8	23.3	11.8	3.7	1.1	.6	.3	91.4	8.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	21.5	4.0	7.9	15.3	26.6	24.7	478
06009	28.4	5.3	7.0	11.3	25.2	22.8	416
12015	28.8	5.5	7.8	15.8	24.9	17.1	385
18021	29.9	5.9	10.1	13.2	24.7	16.2	425
TOT	459	87	140	237	433	348	1704
PCT	26.9	5.1	8.2	13.9	25.4	20.4	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND 5+	AND 5+	OBS
00003	23.8	36.0	56.7	34.7	8.6	478
06009	30.5	44.7	62.0	32.2	5.8	416
12015	35.8	48.6	67.5	26.5	6.0	385
18021	33.2	46.4	66.4	29.9	3.8	425
TOT	520	742	1071	529	104	1704
PCT	30.5	43.5	62.9	31.0	6.1	100.0

JULY

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1924-1969

AREA 0010 ATTU  
51-55N 172-180E

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				
60/64	.0	.0	.0	.1	.3	.3	.1	.0	.0	.0	11	.8
55/59	.0	.0	.0	.1	.1	2.5	2.4	1.6	1.6	1.6	98	6.7
50/54	.0	.0	.0	.1	.5	1.9	9.0	10.8	10.8	10.8	324	22.2
45/49	.0	.0	.0	.0	.1	1.9	8.4	46.0	46.0	46.0	821	56.3
40/44	.0	.0	.0	.0	.1	.2	1.0	12.8	12.8	12.8	204	14.0
TOTAL	0	0	0	3	15	98	304	1038	1038	1038	1458	100.0
PCT	.0	.0	.0	.2	1.0	6.7	20.9	71.2	71.2	71.2		

TABLE 14

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR	CALM
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
60/64	.3	.1	.0	.1	.1	.1	.1	.1	.0	.0	.0	.1
55/59	.6	.5	.4	.3	.8	2.1	1.3	.4	.0	.0	.0	.3
50/54	1.4	1.3	.9	2.6	3.7	5.7	2.3	1.4	.0	.0	.0	2.9
45/49	1.7	3.1	6.7	9.0	11.0	13.0	6.2	3.4	.0	.0	.0	2.3
40/44	2.1	1.0	1.8	1.3	2.2	4.0	1.0	.3	.0	.0	.0	.3
TOTAL	89	86	143	194	258	364	158	80	0	0	0	86
PCT	6.1	5.9	9.8	13.3	17.7	25.0	10.8	5.5	.0	.0	.0	5.9

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL OBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
0003	65	61	56	47	43	41	37	48.3	41	37	766
0609	65	52	58	47	43	41	39	48.5	41	39	691
1215	56	53	50	45	41	41	39	45.4	41	39	555
1821	62	60	54	46	42	39	38	47.0	39	38	695
TOT	65	60	56	46	43	41	37	47.4	41	37	2657

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	.2	.2	1.6	1.6	8.8	25.3	64.1	91	434	
0609	.0	.0	.0	1.8	1.8	7.4	22.9	67.9	92	393	
1215	.0	.4	.4	.0	.0	3.0	12.9	83.7	95	233	
1821	.0	.2	.2	.2	.2	6.0	18.5	75.1	93	401	
TOT	0	3	3	15	15	98	304	1041	92	1461	

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1924-1969

JULY

AREA 0010 ATTU  
51-55N 172-180E

TABLE 17

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

AIR-SEA TMP DIF	37	41	45	49	53	57	61	65	TOT	M FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.2	3	.1	.1
17/19	.0	.0	.0	.0	.0	.1	.3	.0	6	.2	.2
14/16	.0	.0	.0	.3	.5	.4	.2	.1	26	.5	.8
11/13	.0	.0	.0	.4	.9	.6	.2	.0	39	1.1	1.0
9/10	.0	.0	.7	1.0	1.3	.3	.0	.0	63	1.6	1.8
7/8	.0	.1	1.6	2.9	1.0	.2	.0	.0	109	3.0	2.8
6	.0	.5	1.2	1.8	.3	.0	.0	.0	72	1.8	2.0
5	.0	.6	2.4	3.1	.3	.0	.0	.0	122	3.0	3.5
4	.1	.4	5.9	2.7	.2	.0	.0	.0	175	4.0	5.3
3	.0	1.0	5.0	1.4	.1	.1	.0	.0	141	3.5	4.0
2	.0	2.7	9.8	1.3	.1	.0	.0	.0	261	5.3	8.6
1	.0	2.1	8.3	1.5	.1	.0	.0	.0	225	4.9	7.0
0	.1	5.4	15.2	.5	.1	.0	.0	.0	399	5.9	15.3
-1	.1	2.2	3.9	.1	.0	.0	.0	.0	119	1.4	4.9
-2	.3	1.5	2.2	.0	.0	.0	.0	.0	75	2.0	2.0
-3	.1	.2	.6	.0	.0	.0	.0	.0	16	.5	.4
-4	.1	.4	.5	.0	.0	.0	.0	.0	20	.7	.4
-5	.0	.1	.1	.0	.0	.0	.0	.0	4	.1	.1
-6	.1	.1	.0	.0	.0	.0	.0	.0	2	.1	.1
-7/-8	.1	.2	.0	.0	.0	.0	.0	.0	4	.0	.2
-9/-10	.0	.1	.0	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	14	328	1088	315	91	30	13	4	1883	746	1137
PCT	.7	17.4	57.5	16.7	4.8	1.6	.7	.2	100.0	39.6	60.4

PERIOD: (PRIMARY) (OVER-ALL) 1963-1969  
 JULY  
 TABLE 18  
 AREA 0010 ATTU  
 51-55N 172-180E

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

HGT	N										NE		TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47		48+
<1	.1	.7	.0	.0	.0	.0	6	.7	.7	.0	.0	.0	.0	10
1-2	.1	.6	.1	.0	.0	.0	6	.1	.7	.6	.0	.0	.0	10
3-4	.0	.1	1.1	.0	.0	.0	9	.0	.4	.6	.0	.0	.0	7
5-6	.0	.0	.4	.0	.0	.0	3	.0	.0	.3	.0	.0	.0	2
7	.0	.0	.4	.3	.0	.0	5	.0	.0	.3	.3	.0	.0	4
8-9	.0	.0	.1	.3	.0	.0	3	.0	.0	.1	.1	.1	.0	3
10-11	.0	.0	.3	.0	.0	.0	2	.0	.0	.1	.3	.0	.0	3
12	.0	.0	.1	.1	.0	.0	2	.0	.0	.1	.0	.0	.0	1
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	2
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	2
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	2	10	19	5	0	0	36	6	13	15	9	1	0	44
PCT	.3	1.4	2.7	.7	.0	.0	5.1	.8	1.8	2.1	1.3	.1	.0	6.2

HGT	E										SE		TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47		48+
<1	.4	.8	.0	.0	.0	.0	9	.4	1.4	.0	.0	.0	.0	13
1-2	.3	2.3	1.7	.0	.0	.0	30	.0	3.4	1.3	.0	.0	.0	33
3-4	.0	.3	2.3	.1	.0	.0	19	.0	1.6	4.7	.3	.0	.0	46
5-6	.0	.1	1.6	.1	.0	.0	13	.0	.1	2.5	.1	.0	.0	20
7	.0	.0	1.0	.7	.0	.0	12	.0	.0	.7	.6	.0	.0	9
8-9	.0	.0	.1	.3	.0	.0	3	.0	.0	.1	.6	.0	.0	5
10-11	.0	.0	.1	.1	.0	.0	2	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.0	.3	.0	.0	2	.0	.0	.0	.1	.1	.0	2
13-16	.0	.0	.1	.3	.0	.0	3	.0	.0	.6	.3	.0	.0	6
17-19	.0	.0	.1	.1	.0	.0	2	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.0	.0	.0	1
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	5	25	50	15	0	0	95	3	46	71	14	1	0	135
PCT	.7	3.5	7.1	2.1	.0	.0	13.4	.4	6.5	10.0	2.0	.1	.0	19.0

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

HGT	S					TOTAL	SM					TOTAL	
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47		
<1	.1	1.4	.0	.0	.0	11	.3	2.1	.0	.0	.0	.0	17
1-2	.3	2.4	2.4	.0	.0	36	.0	2.1	1.8	.0	.0	.0	28
3-4	.0	1.6	3.4	.3	.0	37	.0	1.6	3.9	.4	.0	.0	42
5-6	.0	.1	3.0	.1	.0	23	.0	.3	3.0	.4	.0	.0	26
7	.0	.0	1.0	.4	.0	10	.0	.0	.4	.3	.0	.0	5
8-9	.0	.3	.1	.3	.0	5	.0	.0	.3	.4	.0	.0	0
10-11	.0	.0	.1	.3	.1	4	.0	.0	.0	.0	.0	.0	0
12	.0	.0	.4	.3	.0	5	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.3	.6	.0	5	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.2	.6	.0	6	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.1	.0	1	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	3	41	78	20	1	143	2	43	67	11	0	0	123
PCT	.4	5.8	11.0	2.8	.1	20.2	.3	6.1	9.4	1.6	.0	.0	17.3

HGT	M					TOTAL	NW					TOTAL	
	1-3	4-10	11-21	22-33	34-47		1-3	4-10	11-21	22-33	34-47		
<1	.3	.8	.0	.0	.0	8	.1	.7	.0	.0	.0	.0	6
1-2	.0	2.5	1.7	.0	.0	30	.0	1.6	1.4	.0	.0	.0	21
3-4	.0	1.1	3.0	.1	.0	30	.0	.8	1.3	.0	.0	.0	15
5-6	.0	.0	1.3	.4	.0	12	.0	.0	.7	.0	.0	.0	5
7	.0	.0	.1	.1	.0	2	.0	.0	.3	.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	.1	.0	1	.0	.0	.0	.0	.0	.0	0
17-19	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
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
TOTAL	2	32	43	6	0	83	1	22	27	0	0	0	50
PCT	.3	4.5	6.1	.8	.0	11.7	.1	3.1	3.8	.0	.0	.0	7.1



AUGUST

PERIOD: (PRIMARY) 1944-1969  
(OVER-ALL) 1926-1969

AREA 0010 ATTU  
51-55N 172-180E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	DUST	BLWG	
N	.4	.0	.3	.0	.0	.0	.0	.7	14	.0	.5	.0	.0	.0	1.6	54
NNE	.4	.0	.1	.0	.0	.0	.0	.5	9	.0	.3	.0	.0	.0	.8	30
NE	.5	.0	.3	.0	.0	.0	.0	.8	15	.0	.9	.0	.0	.0	1.4	59
ENE	.1	.0	.3	.0	.0	.0	.0	.3	6	.0	.4	.0	.0	.0	1.2	35
E	.2	.0	.4	.0	.0	.0	.0	.6	12	.0	.9	.0	.0	.0	1.7	63
ESE	.5	.0	.5	.0	.0	.0	.0	.9	17	.0	1.2	.0	.0	.0	1.3	64
SE	1.4	.1	.3	.0	.0	.0	.0	1.8	34	.0	2.7	.1	.0	.0	1.1	107
SSE	.8	.1	.4	.0	.0	.0	.0	1.3	24	.0	2.7	.1	.0	.0	1.2	99
S	.9	.0	1.3	.0	.0	.0	.0	2.2	41	.0	5.6	.2	.0	.0	4.5	235
SSW	1.1	.1	1.5	.0	.0	.0	.0	2.6	49	.0	2.5	.0	.0	.0	3.5	162
SW	1.4	.1	1.6	.0	.0	.0	.0	3.0	57	.0	4.6	.1	.0	.0	6.9	276
WSW	.4	.0	.8	.0	.0	.0	.0	1.2	23	.0	2.9	.1	.0	.0	4.6	168
W	.2	.0	.5	.0	.0	.0	.0	.7	13	.0	2.8	.3	.0	.0	7.6	216
WNW	.2	.1	.3	.0	.0	.0	.0	.5	9	.0	.7	.0	.0	.0	4.5	107
NW	.2	.0	.2	.0	.0	.0	.0	.4	8	.0	.8	.1	.1	.1	3.7	197
NNW	.2	.0	.2	.0	.0	.0	.0	.3	6	.0	1.0	.0	.0	.0	2.0	64
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
CALM	.2	.0	.1	.0	.0	.0	.0	.3	5	.0	1.1	.0	.0	.0	2.3	68
TOT OBS	171	7	171	0	0	0	0	18.0	342	0	601	15	1	945	1904	1904
TOT PCT	9.0	.4	9.0	.0	.0	.0	.0			.0	31.6	.8	.1	49.6	100.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	HAZE	DUST	BLWG	
0000	9.8	.2	7.5	.0	.0	.0	.0	17.4	91	.0	33.7	1.1	.2	.0	47.6	523
0600	9.4	.2	8.2	.0	.0	.0	.0	16.8	84	.0	32.7	1.2	.0	.0	49.3	501
1200	6.5	.7	12.3	.0	.0	.0	.0	19.6	81	.0	26.4	.0	.0	.0	54.0	413
1800	9.4	.4	8.8	.0	.0	.0	.0	18.1	89	.0	33.0	.6	.0	.0	48.3	491
TOT	171	7	174	0	0	0	0	18.1	345	0	611	15	1	956	1928	1928
PCT	8.9	.4	9.0	.0	.0	.0	.0	17.9		.0	31.7	.8	.1	49.6	100.0	100.0

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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 SPD	00	03	06	09	12	15	18	21
N	.5	1.4	.8	.4	.1	.0	74	3.1	11.9	3.0	2.9	3.1	4.4	2.8	4.2	2.2	2.9
NNE	.1	.6	.7	.4	.0	.0	44	1.8	14.5	1.4	2.0	2.2	2.1	2.2	.0	1.9	2.2
NE	.3	1.2	1.1	.3	.0	.0	69	2.9	11.2	2.8	1.0	3.4	2.9	3.7	2.1	3.4	1.9
ENE	.2	.7	.7	.0	.0	.0	38	1.6	9.5	.5	2.9	3.1	2.1	1.8	3.1	1.9	.0
E	.7	2.1	.7	.0	.0	.0	84	3.5	8.1	5.0	2.0	3.1	1.8	4.0	2.1	3.1	4.1
ESE	.3	1.3	1.0	.4	*	.0	71	3.0	12.4	2.8	4.9	4.3	2.4	1.8	1.0	4.3	2.2
SE	.8	1.6	2.3	.6	.2	.0	132	5.5	12.4	4.4	9.8	4.6	7.6	4.9	8.3	3.4	6.7
SSE	.5	1.8	2.4	.3	.0	.0	119	5.0	11.9	5.3	7.8	4.0	5.0	5.2	5.2	5.6	3.5
S	.8	4.7	4.7	1.0	.1	.0	268	11.2	12.3	11.9	8.8	11.1	10.9	10.5	15.6	10.6	11.5
SSW	.3	3.0	3.4	1.3	.2	.0	193	8.1	14.1	9.1	8.8	9.3	8.5	8.3	6.3	7.1	5.7
SW	1.6	6.2	6.3	1.5	.1	.0	373	15.6	12.0	14.6	14.7	13.6	19.7	13.5	18.8	13.4	19.1
WSW	.3	3.4	3.9	1.0	.1	.0	210	8.8	13.4	8.5	5.9	9.0	7.1	11.1	7.3	9.9	8.9
W	1.7	4.2	4.5	1.2	.0	.0	275	11.5	11.5	12.3	10.8	9.9	10.6	11.4	11.5	12.4	12.4
WNW	.3	2.7	1.8	.6	.0	.0	127	5.3	11.9	5.0	8.3	6.5	3.8	5.8	5.2	6.5	3.5
NW	.6	2.3	2.2	.3	.0	.0	126	5.3	11.5	5.2	2.0	5.3	4.1	5.5	7.3	6.8	5.4
NNW	.2	1.4	1.3	.3	*	.0	78	3.3	12.6	2.8	5.9	4.3	3.2	2.8	2.1	3.7	2.5
VAR	.0	.0	.0	.0	0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	921	897	225	21	0	103	4.3	.0	5.2	1.0	3.1	3.8	4.6	.0	3.7	7.3
TOT OBS	320	38.6	37.6	9.4	.9	.0	2384	100.0	11.6	562	102	323	340	325	96	322	314
TOT PCT	13.4	15.9	14.5	10.9	3.9	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 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	1.4	2.1	1.1	.4	.0	118	4.9	12.8	4.4	4.9	5.3	6.5	4.9	4.2	4.0	5.1
NE	1.4	2.3	.5	.2	.0	107	4.5	10.6	3.4	3.9	6.5	5.0	5.5	5.2	5.3	1.9
E	2.3	3.3	.8	.1	.0	155	6.5	9.9	7.8	6.9	7.4	4.1	5.8	3.1	7.5	6.4
SE	2.6	3.5	2.1	.3	*	251	10.5	12.2	9.8	17.6	8.7	12.6	10.2	13.5	9.0	10.2
S	4.1	9.8	4.5	.9	*	461	19.3	13.1	21.0	17.6	20.4	19.4	18.8	21.9	17.7	17.2
SW	5.4	12.8	5.6	.6	.0	583	24.5	12.5	23.1	20.6	22.6	26.8	24.6	26.0	23.3	28.0
W	4.4	8.7	3.3	.5	.0	402	16.9	11.6	17.3	19.6	16.4	14.4	17.2	16.7	18.9	15.9
NW	1.9	4.3	2.3	.1	.0	204	8.6	12.0	8.0	7.8	9.6	7.4	8.3	9.4	10.6	8.0
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	1162	481	74	2	103	4.3	.0	5.2	1.0	3.1	3.8	4.6	.0	3.7	7.3
TOT OBS	665	48.7	20.2	3.1	.1	2384	100.0	11.6	562	102	323	340	325	96	322	314
TOT PCT	27.9	18.7	14.5	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

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)	WIND SPEED (KNOTS)		CALM		PCT		TOTAL OBS
	48+	48+	MEAN	FREQ	MEAN	FREQ	
0003	10.2	39.3	8.1	1.1	4.5	11.3	564
0609	11.5	40.9	7.7	.9	3.5	11.0	653
1215	3.8	37.1	11.9	.5	3.6	12.9	421
1821	9.0	36.6	11.0	.9	5.5	11.7	636
TOT	217	921	225	21	103	11.6	2384
PCT	9.1	36.6	9.4	.9	4.3	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8	6	ORSCD	8	6		
N	.2	.0	.6	1.9	42	7.3				
NNE	.0	.1	.3	1.5	30	7.6				
NE	.0	.1	.1	3.0	50	7.9				
ENE	.0	.0	.4	1.7	33	7.8				
E	.1	.1	.3	2.8	50	7.6				
ESE	.0	.1	.1	3.5	57	7.9				
SE	.1	.0	.2	5.0	81	7.9				
SSE	.1	.0	.5	4.8	85	7.7				
S	.2	.2	1.0	9.3	174	7.7				
SSW	.2	.3	.8	6.9	129	7.5				
SW	1.4	.3	1.5	10.3	210	7.0				
WSW	.8	.2	.6	7.5	140	7.2				
W	1.2	.6	2.2	7.4	177	6.8				
WNW	.5	.5	1.9	3.6	100	6.8				
NW	.1	.3	1.2	3.7	84	7.2				
NNW	.2	.1	1.2	2.4	61	7.1				
VAR	.0	.0	.0	.0	0	.0				
CALM	.2	.2	.5	2.4	52	7.0				
TOT OBS	80	47	209	1219	1555	7.3				
TOT PCT	5.1	3.0	13.4	78.4	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)

WIND DIR	AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION												TOTAL OBS			
	000	149	150	299	300	599	600	999	1000	2000	3500	5000		6500	8000+	NH < 5/8 ANY HGT
N	.5	.0	.0	.0	.1	.1	.1	.1	.9	.4	.1	.1	.1	.0	.5	42
NNE	.5	.0	.0	.0	.1	.1	.0	.3	.6	.5	.0	.1	.0	.0	.2	30
NE	1.1	.0	.0	.0	.1	.6	.3	.9	.9	.6	.1	.0	.0	.1	.1	50
ENE	.5	.0	.0	.0	.0	.3	.3	.6	.6	.3	.1	.0	.0	.1	.3	33
E	1.0	.0	.0	.0	.1	.2	.2	.8	.9	.6	.1	.2	.0	.0	.3	50
ESE	1.3	.0	.0	.0	.2	.6	.6	.9	.9	.5	.0	.0	.0	.0	.3	57
SE	2.5	.1	.1	.3	.3	.2	.2	1.5	.2	.2	.0	.1	.0	.0	.3	81
SSE	2.8	.0	.0	.5	.5	.3	.3	.6	.5	.5	.0	.0	.0	.0	.5	85
S	4.8	.1	.0	.3	.3	.7	.3	3.2	.8	1.0	.1	.0	.0	.1	.9	174
SSW	2.3	.0	.0	.3	.3	1.5	.7	2.4	.8	1.0	.1	.0	.0	.0	.8	129
SW	3.4	.1	.1	.5	.5	1.9	.7	3.4	.7	1.3	.7	.3	.0	.0	.9	210
WSW	2.6	.1	.1	.2	.2	1.0	.8	2.6	.8	2.3	.3	.1	.0	.0	1.3	140
W	2.0	.0	.0	.3	.3	.8	.8	2.5	.3	2.3	.6	.1	.0	.0	2.9	177
WNW	.6	.0	.0	.1	.1	.8	.2	2.1	.9	.4	.0	.0	.0	.0	1.4	100
NW	1.0	.0	.0	.1	.1	.2	.1	1.4	.1	1.1	.5	.1	.1	.1	1.0	84
NNW	1.2	.0	.0	.2	.2	.1	.1	.8	.8	.8	.1	.0	.0	.0	.7	61
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.5	.0	.0	.0	.0	.1	.1	1.4	.5	.5	.1	.0	.0	.0	.6	52
TOT OBS	443	5	52	145	417	203	.8	16	.4	.1	.1	.1	.0	.1	217	1555
TOT PCT	28.5	.3	3.3	9.3	26.8	13.1	3.1	1.0	.3	.3	.3	.3	.3	.3	14.0	100.0

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TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEDUS 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	.3	.6	.6	.6	.6	.6	.6	.6
OR >5000	.6	1.4	1.5	1.6	1.6	1.6	1.6	1.6
OR >3500	2.1	4.3	4.5	4.7	4.7	4.7	4.7	4.7
OR >2000	8.8	15.7	16.7	17.5	17.8	17.9	17.9	17.9
OR >1000	14.1	34.5	40.1	43.3	44.0	44.7	45.1	45.2
OR >600	14.8	39.8	47.7	51.8	52.8	53.9	54.4	54.5
OR >300	14.9	40.4	49.3	53.9	55.3	56.6	57.8	57.9
OR >150	14.9	40.4	49.4	54.1	55.4	56.8	58.1	58.2
OR > 0	15.3	41.9	52.9	60.2	63.3	73.2	84.4	85.7
TOTAL	236	647	817	929	976	1129	1303	1323

TOTAL NUMBER OF OBS: 1543

PCT FREQ NH <5/8: 14.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

		0	1	2	3	4	5	6	7	8	TOTAL
2.5	2.3	4.4	2.1	2.5	2.5	2.5	6.2	5.7	44.8	27.0	1619

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	.1 .4 8	.1 .2 4	.0 .6 12	.1 .2 6	.1 .2 6	.1 .9 18	.3 .9 23	.5 1.7 41	.4 2.1 47	.4 3.9 80	.3 1.7 37	.3 2.7 55	.3 1.5 33	.2 1.2 26	.1 .4 8	.0 .5 9	.0 .7 13	.0 .0 0	.1 .7 15	56 379 435	3.0 20.3 23.2	
1/2<1	.0 .1 0	.2 .1 4	.0 .1 2	.0 .0 0	.1 .1 3	.1 .1 3	.1 .1 2	.1 .1 2	.1 .3 8	.3 .3 12	.3 .2 10	.6 .3 17	.2 .4 11	.0 .4 8	.0 .1 1	.0 .0 0	.1 .1 2	.0 .0 0	.0 .1 1	.0 .1 1	37 47 84	2.0 2.5 4.5
1<2	.5 .1 11	.2 .1 4	.2 .2 8	.1 .1 3	.1 .1 3	.2 .1 6	.1 .1 4	.4 .3 12	.1 .1 4	.7 .7 27	.8 .3 20	.1 1.2 36	.1 .9 18	.2 .8 19	.2 .3 9	.2 .2 7	.1 .1 4	.0 .0 0	.0 .0 0	.0 .2 3	90 105 195	4.8 5.6 10.4
2<5	.2 .2 7	.1 .1 3	.4 .2 10	.1 .1 2	.1 .1 2	.2 .1 5	.3 .2 10	.5 .5 22	.4 .3 13	.4 1.2 30	.7 .7 26	1.1 1.6 51	.3 .9 23	.1 1.0 19	.1 .2 6	.2 .4 11	.2 .2 7	.0 .0 0	.0 .0 0	.1 .4 9	100 154 254	5.3 8.2 13.6
5<10	.0 .5 10	.1 .3 7	.1 .6 13	.1 .9 18	.1 .7 15	.0 .9 16	.1 .7 15	.3 1.1 25	.2 .6 15	.3 2.8 58	.5 2.1 49	.3 3.6 73	.3 2.6 54	.3 3.3 66	.1 .2 49	.1 1.8 34	.0 1.1 20	.0 .0 0	.0 .7 14	47 489 536	2.5 26.1 28.6	
10+	.0 1.0 18	.0 .4 7	.1 .6 14	.0 .3 5	.0 .4 8	.1 .7 14	.0 .2 4	.0 .2 4	.1 .5 12	.0 1.3 25	.0 1.0 18	.1 2.1 40	.1 1.2 25	.0 3.7 69	.1 1.7 32	.1 1.8 34	.0 .9 16	.0 .0 0	.1 1.3 26	11 356 367	.6 19.0 19.6	
TOTAL PCT	54 2.9	29 1.5	59 3.2	34 1.8	62 3.3	106 5.7	99 5.3	232 12.4	160 8.6	272 14.5	164 8.8	207 11.1	207 11.1	105 5.6	95 5.1	62 3.3	0 .0	0 .0	68 3.6	1871 100.0	100.0	

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TABLE 9

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

VSBY (NH)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.0	.1	.2	.1	.1	.1	.2	.1	.1	.0	.1	*	.1	.0	.0	.6	47	2.0
	4-10	.2	.1	.2	.1	.5	.5	.1	.6	1.0	.4	.9	.7	.5	.2	.1	.3	.0	.0	146	6.2
	11-21	.1	.1	.3	*	.1	.2	1.1	1.4	2.0	.9	1.3	.7	.5	.1	.2	.3	.0	.0	220	9.4
	22+	.0	.0	*	.0	.0	.2	.4	.0	.2	.1	.2	.1	*	.0	.0	.0	.0	.0	29	1.2
	TOTAL	8	4	12	6	19	23	41	47	80	37	58	35	26	8	10	13	0	15	442	18.8
1/2<1	0-3	.0	*	.0	.0	.0	.0	*	.1	.0	*	.1	*	*	.0	.0	.0	.0	.1	12	.5
	4-10	.0	.0	.2	.0	.1	.4	*	.2	.3	.1	.3	.1	.1	.0	*	*	.0	.0	31	1.3
	11-21	.0	.1	.1	.0	.1	.4	.0	*	.2	.1	.2	.3	.2	.0	.0	*	.0	.0	31	1.3
	22+	.0	*	.0	.0	.1	.1	.0	*	.0	.2	.2	.1	.1	.0	.0	*	.0	.0	17	.7
	TOTAL	0	4	3	0	3	3	2	9	12	10	17	11	9	1	1	3	0	3	91	3.9
1<2	0-3	*	.0	*	*	*	.0	.1	*	.0	*	.2	.0	.1	*	*	.0	.0	.2	21	.9
	4-10	.2	*	*	*	.2	.4	.1	*	.6	.2	.6	.2	.4	.1	.2	.1	.0	.0	72	3.1
	11-21	.1	.0	.2	*	*	.2	.2	.1	.4	.4	.6	.3	.3	.2	.1	.1	.0	.0	73	3.1
	22+	.3	.1	.1	.0	.1	.1	.1	*	.3	.3	.4	.3	.1	.1	*	*	.0	.0	54	2.3
	TOTAL	13	4	9	3	7	4	12	6	31	22	41	18	20	10	9	6	0	5	220	9.4
2<5	0-3	.2	.0	.1	.0	.1	*	.1	.1	.2	*	.2	.1	.1	*	*	.0	.0	.9	53	2.3
	4-10	.2	.1	.2	*	.1	.1	.4	.5	.6	.4	1.2	.3	.6	.2	.2	.2	.0	.0	124	5.3
	11-21	.1	.0	.1	*	.1	.3	.3	.2	.6	.5	1.1	.5	.5	.1	.2	.2	.0	.0	116	4.9
	22+	.1	.1	.1	.0	.1	.1	.1	.0	.2	.3	.5	.3	.1	.1	*	.0	.0	.0	48	2.0
	TOTAL	14	5	13	2	6	11	23	19	38	31	69	29	30	10	12	9	0	20	341	14.5
5<10	0-3	.0	.0	*	.0	.0	.1	.2	*	.2	.0	.5	.1	.6	.1	.1	*	.0	.6	65	2.8
	4-10	.3	.1	.2	.3	.7	.4	.7	.2	1.2	1.2	1.9	1.1	1.1	1.2	.9	.5	.0	.0	277	11.8
	11-21	.1	.3	.3	.6	.2	.1	.3	.3	1.0	1.0	1.7	1.4	1.3	.8	.7	.3	.0	.0	251	10.7
	22+	*	.2	*	.0	.0	.0	.1	.1	.3	.3	.2	.3	.6	.2	.1	.2	.0	.0	64	2.7
	TOTAL	10	13	15	19	20	15	31	16	64	61	102	68	83	55	43	23	0	19	657	28.0
10+	0-3	.2	.1	.1	*	.3	*	.3	.1	.1	.1	.6	.1	.8	*	.3	.1	.0	1.7	120	5.1
	4-10	.6	.2	.5	.2	.6	.3	.3	.4	1.1	.7	1.4	.9	1.4	.9	1.0	.3	.0	.0	255	10.9
	11-21	.3	.3	.1	.3	.3	.3	.3	.3	1.3	.3	1.3	.8	1.7	.6	.7	.4	.0	.0	191	8.1
	22+	*	.0	.0	.0	.0	.0	.0	.1	.1	.1	.2	.1	.3	.2	*	.1	.0	.0	31	1.3
	TOTAL	29	13	17	7	28	14	22	22	39	29	82	45	97	41	49	22	0	41	597	25.4
	TOTAL	74	43	69	37	83	70	131	119	264	190	369	206	265	125	124	76	0	103	2348	100.0
	PCT	3.2	1.8	2.9	1.6	3.5	3.0	5.6	5.1	11.2	8.1	15.7	8.8	11.3	5.3	5.3	3.2	.0	4.4	100.0	

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	149	27.9	.2	4.5	10.3	25.3	13.1	2.4	1.0	.2	85.2	14.8	419
0600	25.1	.3	3.3	10.8	28.2	12.6	3.3	1.5	.5	.3	85.9	14.1	390
1200	32.0	.8	2.9	9.0	24.9	13.0	2.4	.3	.3	.3	85.7	14.3	378
1800	29.2	.0	2.3	6.9	29.2	13.3	4.1	1.3	.0	.5	86.7	13.3	391
TOT	450	5	52	146	424	205	48	16	4	5	1355	223	1578
PCT	28.5	.3	3.3	9.3	26.9	13.0	3.0	1.0	.3	.3	85.9	14.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	22.1	4.2	6.9	10.3	31.9	24.8	408
0600	21.8	3.1	7.3	9.7	33.3	24.7	381
1200	23.7	3.3	7.9	16.6	27.8	20.7	367
1800	23.5	2.1	8.5	12.4	29.5	24.0	387
TOT	351	49	118	188	473	364	1543
PCT	22.7	3.2	7.6	12.2	30.7	23.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8	TOTAL OBS
0000	26.5	34.8	51.7	35.8	12.5	408
0600	24.9	31.0	50.9	36.5	12.6	381
1200	31.1	37.9	58.0	29.2	12.8	367
1800	28.9	33.9	52.2	36.4	11.4	387
TOT	429	530	820	533	190	1543
PCT	27.8	34.3	53.1	34.5	12.3	100.0

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TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP										TOTAL OBS	PCT PREC
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100				
65/69	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	3	.2
60/64	.0	.0	.0	.1	.3	1.1	.2	.1	.0	.0	27	1.9
55/59	.0	.0	.0	.1	.6	2.7	3.6	3.3	.0	.0	149	10.4
50/54	.0	.0	.1	.0	.3	1.0	11.2	25.4	.0	.0	547	38.1
45/49	.0	.0	.0	.4	.5	2.3	7.4	36.7	.0	.0	679	47.3
40/44	.0	.0	.0	.0	.0	.4	.7	1.0	.0	.0	30	2.1
TOTAL	0	0	1	10	26	111	332	955			1435	103.0
PCT	.0	.0	.1	.7	1.8	7.7	23.1	66.6				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP										VAR CALM	
	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
65/69	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1
60/64	.4	.0	.1	.1	.2	.3	.3	.2	.2	.2	.0	.2
55/59	.6	.5	.4	1.1	2.0	2.6	1.6	.3	.3	.0	.0	.2
50/54	1.6	1.2	1.3	4.0	8.7	11.4	5.4	2.3	.0	.0	.0	1.3
45/49	1.5	1.6	2.9	6.2	11.3	11.4	7.9	4.0	.0	.0	.0	1.9
40/44	.2	.5	.2	.1	.1	.2	.6	.2	.0	.0	.0	.6
TOTAL	62	54	69	164	320	372	226	108	0	0	0	60
PCT	4.3	3.8	4.8	11.4	22.3	25.9	15.7	7.5	.0	.0	.0	4.2

TABLE 15

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

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	63	58	50	45	43	39	50.8	653
06009	66	63	59	50	45	43	39	51.0	649
12015	66	57	54	48	45	43	39	48.2	422
18021	62	59	55	50	45	43	41	49.7	618
TOT	66	62	57	50	45	43	39	50.1	2342

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.7	2.6	10.0	25.3	61.3	91	419
06009	.0	1.0	1.7	9.7	23.3	64.4	91	404
12015	.0	1.0	.0	4.3	18.6	76.2	94	210
18021	.0	.5	2.0	5.1	23.9	68.5	92	410
TOT	0	11	26	111	337	958	92	1443

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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	41	45	49	53	57	61	65	TOT	W	WO
	44	48	52	56	60	64	68	FOG	FOG	FOG
20/22	.0	.0	.0	.0	.0	.1	.1	2	.1	.0
17/19	.0	.0	.0	.0	.0	.2	.0	3	.0	.2
14/16	.0	.0	.2	.2	.2	.1	.0	7	.1	.3
11/13	.0	.0	.6	.9	1.3	.1	.0	49	.6	2.2
9/10	.0	.0	1.5	1.6	.7	.1	.0	66	1.1	2.8
7/8	.0	.5	2.5	2.5	.2	.0	.0	98	1.9	3.9
6	.0	.6	3.2	.6	.1	.0	.0	76	1.9	2.6
5	.0	2.0	3.9	1.1	.0	.0	.0	119	3.2	3.7
4	.0	3.2	3.0	1.1	.3	.0	.0	128	2.9	4.6
3	.0	5.2	3.5	.7	.0	.0	.0	159	3.2	6.2
2	.1	10.0	5.7	1.7	.0	.0	.0	298	6.0	11.5
1	.3	7.7	2.9	.4	.0	.0	.0	192	3.7	7.6
0	.8	9.8	7.4	.6	.0	.0	.0	319	5.0	13.6
-1	.4	3.0	.8	.1	.0	.0	.0	73	1.1	3.2
-2	.3	2.9	1.1	.0	.0	.0	.0	74	.8	3.5
-3	.1	.6	.2	.0	.0	.0	.0	15	.4	.5
-4	.1	.9	.2	.0	.0	.0	.0	19	.0	1.1
-5	.2	.2	.1	.0	.0	.0	.0	7	.1	.3
-6	.1	.1	.0	.0	.0	.0	.0	3	.1	.1
TOTAL	36	796	626	193	48	7	1	1707	550	1157
PCT	2.1	46.6	36.7	11.3	2.8	.4	.1	100.0	32.2	57.8

PERIOD: (PRIMARY) AUGUST AREA 0010 ATTU 51-55N 172-180E  
 (OVER-ALL) 1963-1969 TABLE 18

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.1	.1	.0	.0	.0	.0	2	.1	.1	.0	.0	.0	.0	2	
1-2	.1	.6	.5	.0	.0	.0	10	.1	1.0	1.5	.0	.0	.0	21	
3-4	.0	.7	.5	.0	.0	.0	10	.0	.4	1.1	.2	.0	.0	14	
5-6	.0	.0	.0	.1	.1	.0	2	.0	.0	.0	.0	.0	.0	0	
7	.0	.0	.1	.4	.0	.0	4	.0	.0	.0	.1	.0	.0	1	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.1	.0	.0	1	.0	.0	.0	.1	.0	.0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	.2	1.5	1.1	.7	.1	.1	3.6	.2	1.5	2.5	.5	.0	.0	39	
PCT	.2	1.5	1.1	.7	.1	.1	3.6	.2	1.5	2.5	.5	.0	.0	4.7	

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.1	1.3	.0	.0	.0	.0	12	.1	.6	.0	.0	.0	.0	6	
1-2	.1	2.4	.8	.0	.0	.0	28	.0	1.6	2.2	.0	.0	.0	31	
3-4	.0	.4	.4	.0	.0	.0	6	.0	.7	2.9	.1	.0	.0	31	
5-6	.0	.0	.2	.5	.0	.0	6	.0	.0	1.2	1.1	.0	.0	19	
7	.0	.0	.1	.4	.0	.0	4	.0	.0	.0	.2	.1	.0	3	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.0	.0	1	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.2	.1	.0	.0	3	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	.2	4.1	1.3	.8	.0	.0	56	.1	2.4	6.5	1.4	.1	.0	94	
PCT	.2	4.1	1.3	.8	.0	.0	56	.1	2.4	6.5	1.4	.1	.0	11.4	

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TABLE 18

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

HGT	S					SW					TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+	
<1	.2	.5	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	9
1-2	.1	3.8	4.2	.0	.0	.0	.1	4.0	1.7	.0	.0	.0	.0	48
3-4	.1	1.9	5.7	1.2	.0	.0	.0	2.4	4.5	.4	.0	.0	.0	60
5-6	.0	.1	3.5	.6	.5	.0	.1	.4	4.2	1.3	.0	.0	.0	50
7	.0	.0	.4	.4	.1	.0	.0	.0	1.0	.7	.0	.0	.0	14
8-9	.0	.0	.0	.1	.1	.0	.0	.2	.2	.5	.0	.0	.0	8
10-11	.0	.0	.1	.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	2
12	.0	.0	.1	.1	.0	.0	.0	.6	.1	.4	.0	.0	.0	4
13-16	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	4	52	115	25	6	0	2	67	98	28	1	0	0	196
PCT	.5	6.3	13.9	3.0	.7	.0	.2	8.1	11.9	3.4	.1	.0	.0	23.7

HGT	W					NW					TOTAL			
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47	48+	
<1	.2	.5	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	4
1-2	.2	4.8	1.6	.0	.0	.0	.0	1.5	.7	.0	.0	.0	.0	18
3-4	.0	.8	2.5	.0	.0	.0	.0	1.2	1.8	.0	.0	.0	.0	25
5-6	.0	.2	2.4	.6	.0	.0	.0	.0	.2	.0	.0	.0	.0	2
7	.0	.0	.8	.8	.0	.0	.0	.1	.6	.5	.0	.0	.0	10
8-9	.0	.2	.4	.7	.0	.0	.0	.0	.2	.1	.0	.0	.0	3
10-11	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	0
12	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	1
13-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	4	55	66	20	0	0	2	25	36	6	1	0	0	64
PCT	.5	6.7	8.0	2.4	.0	.0	.2	3.0	3.6	.7	.1	.0	.0	7.7

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	5.5	4.3	.0	.0	.0	.0	.0	.0	.0	.0	85
1-2	1.4	18.6	12.5	.0	.0	.0	.0	.0	.0	.0	283
3-4	.2	8.2	18.4	1.8	.0	.0	.0	.0	.0	.0	249
5-6	.1	.7	11.3	4.0	.6	.0	.0	.0	.0	.0	145
7	.0	.1	2.9	3.3	.2	.0	.0	.0	.0	.0	57
8-9	.0	.5	.8	1.5	.1	.0	.0	.0	.0	.0	25
10-11	.0	.0	.7	.6	.0	.0	.0	.0	.0	.0	11
12	.0	.0	.1	.9	.0	.0	.0	.0	.0	.0	9
13-16	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	6
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
TOTAL	63	281	406	110	10	0	0	0	0	0	870
PCT	7.2	32.3	46.7	12.6	1.1	.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	3-4	5-6	7	8-9	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	1.3	15.9	18.2	8.1	2.5	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	499	3	
6-7	.1	3.0	9.4	8.7	2.7	2.5	1.2	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	304	4
8-9	.0	.7	1.1	3.0	3.4	.2	.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	6
10-11	.0	.1	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
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	14.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	0
TOTAL	173	210	306	212	93	34	21	10	9	0	0	0	0	0	0	0	0	0	0	0	0	1068	3
PCT	16.2	19.7	28.7	19.9	8.7	3.2	2.0	.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	NO SIG	
N	.8	.1	.6	.0	.0	.0	.0	1.5	21	.0	1.2	.1	.0	6.9	136
NNE	.9	.1	.4	.0	.0	.0	.0	1.4	19	.0	.3	.1	.1	2.8	64
NE	.5	.1	.4	.0	.0	.0	.0	1.1	15	.0	.6	.0	.0	3.5	73
ENE	.6	.1	.3	.0	.0	.0	.0	.9	13	.0	.4	.0	.0	1.2	35
E	1.1	.1	.9	.0	.0	.0	.0	1.9	27	.0	.4	.0	.0	3.1	76
ESE	.6	.1	.6	.0	.0	.0	.0	1.2	17	.0	.6	.0	.0	3.0	67
SE	1.0	.0	.4	.0	.0	.0	.0	1.4	19	.0	.6	.0	.0	2.3	59
SSE	.8	.0	.4	.0	.0	.0	.0	1.1	16	.0	.5	.1	.0	1.9	51
S	.7	.1	.5	.0	.0	.0	.0	1.1	18	.0	1.1	.0	.0	2.7	72
SSW	.3	.0	.6	.0	.0	.0	.0	1.3	13	.0	.6	.1	.0	2.4	56
SW	.8	.0	.4	.0	.0	.0	.0	.9	17	.0	.7	.0	.0	4.3	87
WSW	.0	.3	.1	.0	.0	.0	.0	1.2	6	.0	.7	.1	.0	6.6	109
W	.6	.2	.2	.0	.0	.0	.0	.4	14	.0	1.9	.2	.0	9.7	178
WNW	.4	.0	.1	.0	.0	.0	.0	.4	6	.0	1.9	.0	.0	5.7	92
NW	.3	.2	.2	.0	.0	.0	.0	.7	10	.0	.6	.1	.0	6.4	109
NNW	.3	.0	.4	.0	.0	.0	.0	.6	9	.0	.7	.1	.0	5.4	95
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.1	.0	.0	.0	.0	.1	2	.0	.2	.0	.0	2.4	39
TOT OBS	133	18	93	0	0	0	0	.1	242	0	162	11	1	982	1398
TOT PCT	9.5	1.3	6.7	.0	.0	.0	.0	17.3	242	.0	11.6	.8	.1	70.2	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FOG	SMOKE	DUST	NO SIG	
0003	10.2	1.1	4.9	.0	.0	.0	.0	16.2	20	.0	15.4	.3	.3	67.9	371
0609	7.7	1.1	6.0	.0	.0	.0	.0	14.5	53	.0	12.9	1.4	.0	71.2	365
1215	10.0	.6	5.5	.0	.0	.0	.0	16.1	50	.0	5.5	.6	.0	77.3	311
1821	10.1	2.2	10.1	.0	.0	.0	.0	22.1	79	.0	11.5	.8	.0	65.6	358
TOT	133	18	93	0	0	0	0	.1	242	0	162	11	1	989	1405
PCT	9.5	1.3	6.6	.0	.0	.0	.0	17.2	242	.0	11.5	.8	.1	70.4	100.0

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)										WIND SPEED (KNOTS)						WIND SPEED (KNOTS)					
	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21					
N	.9	3.4	3.7	1.2	.1	.0	181	9.4	13.3	9.9	9.7	8.7	10.4	6.6	9.4	8.9	12.4					
NNE	.2	1.6	1.3	1.1	.3	.0	86	4.5	16.7	3.2	2.8	3.0	3.2	6.9	6.3	6.0	5.2					
NE	1.0	2.3	1.1	1.2	.0	.0	110	5.7	12.0	5.2	8.3	5.0	8.8	4.2	6.3	4.6	7.6					
ENE	.1	.4	1.1	.6	.1	.0	43	2.2	19.0	1.9	1.4	3.0	3.2	1.0	3.1	1.4	3.3					
E	.4	1.5	2.1	1.2	.1	.0	101	5.2	16.0	5.4	5.6	3.7	4.4	8.0	3.1	6.8	2.9					
ESE	.1	1.6	1.5	1.0	.1	.0	79	4.2	14.9	4.7	4.2	2.7	2.8	5.2	9.4	4.3	3.8					
SE	.4	1.5	1.2	.9	.2	.0	52	4.1	14.6	3.7	2.8	3.3	5.2	4.2	6.3	5.0	3.3					
SSE	.1	.8	1.2	.5	.1	.0	52	2.7	16.6	1.5	1.4	4.3	.8	3.1	6.3	4.6	1.4					
S	.7	2.1	1.9	.7	.1	.0	103	5.3	12.1	6.5	2.8	7.7	4.8	5.6	3.1	3.2	4.3					
SSW	.3	1.4	1.7	.6	.0	.0	78	4.0	13.4	5.0	4.2	1.7	5.6	2.8	4.7	5.3	3.3					
SW	.4	3.7	2.2	.8	.2	.1	139	7.2	13.0	8.8	4.2	6.7	9.2	5.6	7.8	7.1	2.9					
WSW	.3	2.5	2.9	.8	.2	.1	129	6.7	14.4	6.3	6.9	11.0	4.4	6.9	7.8	7.1	2.9					
W	.4	4.4	5.6	1.6	.9	.1	247	12.8	15.5	13.8	11.1	10.7	12.4	14.2	7.8	13.5	13.3					
WNW	.2	2.0	3.0	1.0	.2	.0	122	6.3	14.9	6.0	5.3	6.0	4.4	8.7	7.8	5.7	6.2					
NW	.8	3.1	4.3	.8	.3	.0	179	9.3	13.5	8.6	16.7	10.4	11.6	6.9	12.5	6.4	10.0					
NNW	.6	2.2	2.5	1.2	.0	.0	125	6.5	13.6	5.8	8.3	9.0	6.0	6.9	3.1	6.8	4.3					
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	3.7	661	716	297	51	3	72	3.7	.0	3.7	1.4	3.0	2.4	3.1	.0	4.6	8.1					
TOT OBS	199	34.3	37.2	15.4	2.6	.2	1927	100.0	13.8	464	72	299	249	288	64	281	210					
TOT PCT	10.3	34.3	37.2	15.4	2.6	.2	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 SPEED (KNOTS)						WIND SPEED (KNOTS)					
	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	5.2	4.1	1.3	.0	267	13.9	14.4	13.1	12.5	11.7	13.7	13.5	15.6	14.9	17.6						
NE	2.5	2.1	2.6	.7	.0	153	7.9	13.9	7.1	9.7	8.0	12.0	5.2	6.3	6.0	11.0						
E	1.9	3.4	3.3	.9	.0	182	9.4	15.5	10.1	9.7	6.4	7.2	13.2	12.5	11.0	6.7						
SE	1.3	2.8	1.9	.7	.1	131	6.8	15.4	5.2	4.2	7.7	6.0	7.3	12.5	9.6	4.8						
S	2.7	3.7	2.6	.4	.0	181	9.4	12.7	11.4	6.9	9.4	10.4	8.3	7.8	8.5	7.6						
SW	2.4	7.7	2.6	1.0	.2	268	13.9	13.7	15.1	11.1	17.7	13.7	12.5	14.1	12.8	10.5						
W	3.7	7.2	6.0	1.5	.3	359	19.1	15.3	19.8	19.4	16.7	16.9	22.9	15.6	19.2	19.5						
NW	3.7	7.1	4.3	.6	.2	204	15.8	13.5	14.4	25.0	19.4	17.7	13.9	15.6	13.2	14.3						
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	3.7	767	525	137	13	72	3.7	.0	3.7	1.4	3.0	2.4	3.1	.0	4.6	8.1						
TOT OBS	485	39.8	27.2	7.1	.7	1927	100.0	13.8	464	72	299	249	288	64	281	210						
TOT PCT	25.2	39.8	27.2	7.1	.7	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)

WIND SPEED (KNOTS)	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)										TOTAL OBS
	0000	0300	0600	0900	1200	1500	1800	2100	2400	TOTAL	
00-03	14.7	17.5	14.8	14.3	14.3	13.4	13.8	100.0	536		
03-06	2.0	3.4	2.7	13.3	100.0	548					
06-09	3.4	2.6	14.8	100.0	352						
09-12	2.6	6.1	13.4	100.0	491						
12-15	51	72	13.9	1927							
15-18	2.6	3.7	100.0								
18-21											
21-24											
TOT	136	121	416	211	30	7	9	5	1316		
PCT	10.3	9.2	31.6	16.0	2.3	.5	.7	.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION										TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	000	150	300	600	1000	2000		
N	.8	.6	2.0	6.2	126	6.9						
NNE	.1	.3	.5	3.6	58	7.4						
NE	.2	.1	1.8	3.1	69	7.0						
ENE	.1	.0	.2	2.0	30	7.7						
E	.2	.2	.6	4.8	75	7.6						
ESE	.0	.2	.6	3.9	61	7.7						
SE	.2	.2	.8	2.9	52	7.3						
SSE	.3	.2	.4	2.5	45	7.0						
S	.2	.3	.8	3.6	64	7.2						
SSW	.2	.2	1.4	1.7	46	6.7						
SW	.5	.3	1.9	3.2	77	6.6						
WSW	1.1	.7	2.9	3.5	107	6.1						
W	2.8	1.5	2.9	5.5	167	5.5						
WNW	1.0	.9	2.1	2.9	90	5.8						
NW	.7	.6	3.0	3.9	108	6.4						
NNW	.4	1.0	2.3	3.9	99	6.5						
VAR	.0	.0	.0	.0	0	.0						
CALM	.4	.3	1.0	1.5	42	6.1						
TOT OBS	117	98	330	771	1316	6.6						
TOT PCT	8.9	7.4	25.1	58.6	100.0							

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)

WIND DIR	AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		NH < 5/8 ANY HGT
N	1.1	.0	.3	1.1	3.1	1.6	.1	.0	.2	.0	2.1	126
NNE	.6	.0	.1	.5	1.4	1.3	.0	.0	.0	.0	.5	58
NE	.8	.0	.3	.4	1.6	1.1	.0	.0	.1	.0	1.0	69
ENE	.4	.0	.2	.2	.8	.5	.0	.0	.0	.0	.2	30
E	1.1	.0	.2	1.2	1.5	.5	.3	.0	.1	.0	.8	75
ESE	.9	.0	.1	.3	2.3	.5	.1	.0	.0	.0	.5	61
SE	.4	.1	.2	.2	2.1	.4	.0	.0	.0	.0	.6	52
SSE	.6	.1	.0	.5	.7	.5	.2	.1	.0	.0	.7	45
S	.8	.0	.1	.5	1.6	1.0	.0	.0	.0	.1	.8	64
SSW	.5	.0	.1	.4	1.1	.5	.0	.0	.0	.0	1.0	46
SW	.2	.0	.2	.3	2.5	.9	.2	.1	.1	.0	1.4	77
WSW	.3	.0	.2	.3	2.1	2.0	.1	.1	.1	.2	2.9	107
W	.9	.0	.2	1.2	2.3	2.2	.4	.1	.1	.2	5.4	167
WNW	.4	.0	.0	1.1	1.7	.7	.2	.0	.0	.1	2.8	90
NW	.5	.0	.1	.5	3.2	.6	.5	.2	.1	.0	2.5	108
NNW	.8	.0	.1	.4	2.2	1.4	.1	.1	.0	.0	2.5	99
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.1	.0	.0	.1	1.3	.3	.2	.0	.1	.1	1.1	42
TOT OBS	136	2	27	121	416	211	30	7	9	5	352	1316
TOT PCT	10.3	.2	2.1	9.2	31.6	16.0	2.3	.5	.7	.4	26.7	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
OR >5000	.8	1.6	1.7	1.7	1.7	1.7	1.7	1.7
OR >3500	1.7	3.4	3.9	3.9	3.9	3.9	4.0	4.0
OR >2000	8.6	17.2	18.8	19.5	19.6	19.6	20.1	20.1
OR >1000	17.7	41.6	48.2	50.3	51.1	51.5	52.1	52.1
OR >600	20.2	47.3	55.7	58.8	60.0	60.6	61.4	61.4
OR >300	20.5	48.3	57.2	60.4	61.6	62.5	63.5	63.5
OR >150	20.6	48.5	57.4	60.6	61.8	62.6	63.6	63.6
OR > 0	20.6	49.2	59.1	63.9	65.7	70.0	72.7	73.0
TOTAL	269	642	772	834	858	914	949	954

TOTAL NUMBER OF OBS: 1306

PCT FREQ NH < 5/8: 27.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	3.7	4.4	7.1	6.4	4.9	6.2	8.2	7.0	42.0	1366
									10.1	

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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 ND PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT			
																						PCP	ND PCP	TOTAL
<1/2	.0 .5 7	.1 .1 4	.0 .3 4	.6 .3 4	.1 .2 4	.1 .3 5	.4 .3 9	.2 .1 5	.1 .4 7	.1 .4 6	.2 .4 8	.1 .1 4	.0 .4 6	.1 .8 12	.0 .3 4	.0 .5 7	.1 .4 8	.0 .0 0	.0 .1 1	.0 .1 1	23 78 101	1.7 5.7 7.3		
1/2<1	.1 .1 3	.2 .0 3	.3 .0 4	.3 .0 1	.1 .0 2	.1 .0 2	.1 .1 2	.2 .1 4	.3 .1 5	.3 .4 9	.0 .0 0	.0 .2 5	.0 .1 2	.0 .1 2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	26 15 41	1.9 1.1 3.0	
1<2	.2 .3 7	.2 .1 4	.1 .0 2	.1 .0 3	.2 .0 6	.4 .1 6	.4 .1 10	.4 .2 9	.1 .1 4	.3 .3 8	.2 .0 3	.3 .0 5	.1 .3 7	.1 .4 5	.1 .2 4	.1 .1 2	.1 .1 3	.1 .0 0	.0 .0 0	.0 .0 0	.1 .0 2	.1 .0 2	50 35 85	3.6 2.5 6.2
2<5	.7 .7 20	.3 .4 10	.4 .3 9	.3 .2 7	.3 .2 7	1.1 .1 17	.1 .6 10	.3 .3 8	.3 .0 4	.3 .7 13	.3 .9 17	.3 .1 2	.1 .1 2	.4 1.2 21	.2 .2 6	.1 .6 10	.1 .1 3	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 3	.0 .0 3	76 102 178	5.5 7.4 12.9
5<10	.1 3.2 46	.4 1.4 25	.3 1.8 29	.3 .7 13	.3 .7 13	.3 1.5 25	.1 1.1 18	.1 .8 13	.3 .7 14	.1 1.3 20	.2 .9 15	.1 3.0 46	.3 4.0 59	.3 4.0 59	.1 2.1 30	.4 2.8 44	.2 2.8 41	.0 .0 0	.0 .0 0	.0 .0 0	.0 1.2 17	.0 1.2 17	52 427 479	3.8 30.9 34.7
10+	.3 3.4 51	.1 1.2 17	.0 1.7 23	.0 .5 7	.0 .5 7	.0 1.4 19	.1 1.4 21	.1 1.3 19	.0 1.2 17	.1 .9 14	.0 .9 13	.0 3.4 47	.1 5.4 76	.1 5.4 76	.1 3.4 48	.1 3.0 44	.1 2.5 37	.0 .0 0	.0 .0 0	.0 .0 0	.0 1.2 16	.0 1.2 16	15 481 496	1.1 34.9 35.9
TOTAL PCT	134 9.7	63 4.6	71 5.1	35 2.5	51 3.7	72 5.2	58 4.2	58 4.2	86 6.2	107 7.8	56 4.1	86 6.2	177 12.8	177 12.8	92 6.7	107 7.8	92 6.7	0 .0	39 2.6	1380 100.0	100.0			

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	MSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	5	.3
	4-10	.1	.0	.2	.1	.2	.3	.2	.1	.1	.2	.2	.1	.1	.1	.0	.1	.0	.0	31	1.6
	11-21	.3	.1	.1	.0	.1	.2	.1	.2	.1	.0	.0	.1	.6	.2	.4	.2	.0	.0	48	2.5
	22+	.1	.2	.1	.2	.1	.1	.2	.0	.1	.1	.4	.7	.13	.0	.0	.7	.0	.0	27	1.4
	TOTAL	8	4	6	4	8	10	5	7	7	8	4	7	13	4	7	8	0	1	111	5.8
1/2<1	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.2
	4-10	.0	.1	.1	.1	.1	.1	.0	.1	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	12	.6
	11-21	.1	.0	.1	.0	.0	.1	.1	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	13	.7
	22+	.0	.1	.2	.0	.1	.1	.1	.0	.3	.0	.1	.1	.1	.0	.0	.0	.0	.0	17	.9
	TOTAL	3	3	5	1	2	2	4	5	10	1	6	1	2	0	0	0	0	0	45	2.4
1<2	0-3	.1	.1	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.1	.1	.0	.3	14	.7
	4-10	.1	.1	.1	.0	.1	.1	.4	.0	.3	.0	.4	.2	.3	.1	.1	.0	.0	.0	41	2.2
	11-21	.2	.1	.0	.1	.1	.0	.3	.2	.2	.0	.3	.1	.2	.1	.1	.0	.0	.0	28	1.5
	22+	.2	.1	.1	.1	.2	.3	.3	.1	.1	.2	.1	.1	.1	.1	.1	.1	.0	.0	37	1.9
	TOTAL	9	5	4	3	8	6	14	4	11	4	14	6	11	5	7	3	0	6	120	6.3
2<5	0-3	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0	.2	.0	.1	.0	.0	.1	.0	.4	21	1.1
	4-10	.5	.1	.2	.1	.1	.3	.2	.1	.2	.3	.6	.2	.2	.2	.3	.1	.0	.0	62	3.3
	11-21	.4	.2	.3	.3	.4	.2	.2	.1	.5	.6	.2	.0	.7	.2	.4	.1	.0	.0	88	4.6
	22+	.5	.4	.3	.1	.5	.2	.2	.2	.1	.1	.4	.0	.4	.1	.2	.1	.0	.0	69	3.6
	TOTAL	28	12	16	8	19	12	9	5	17	21	26	4	25	10	16	5	0	7	240	12.6
5<10	0-3	.3	.1	.2	.1	.1	.0	.0	.0	.2	.1	.0	.2	.2	.0	.1	.2	.0	1.4	58	3.1
	4-10	1.4	.8	.8	.1	.6	.4	.4	.2	.8	.4	.8	1.1	1.5	.6	1.1	1.3	.0	.0	234	12.2
	11-21	1.3	.5	.3	.3	.8	.6	.2	.3	.7	.6	.8	.9	1.5	1.1	1.8	.9	.0	.0	241	12.7
	22+	.3	.7	.5	.5	.2	.2	.1	.3	.1	.2	.3	.5	1.1	.4	.3	.3	.0	.0	109	5.7
	TOTAL	60	39	35	17	31	24	14	14	34	22	37	53	83	39	61	52	0	27	642	33.8
10+	0-3	.5	.1	.6	.0	.3	.0	.3	.1	.2	.2	.2	.0	.1	.2	.6	.3	.0	1.6	96	5.0
	4-10	1.3	.6	1.0	.1	.4	.6	.5	.4	.6	.5	1.6	1.1	2.2	.9	1.6	.7	.0	.0	271	14.3
	11-21	1.6	.5	.4	.4	.6	.7	.3	.3	.4	.4	.8	1.6	2.7	1.4	1.6	1.3	.0	.0	288	15.1
	22+	.4	.1	.2	.0	.2	.1	.2	.1	.1	.1	.1	.3	.8	.7	.6	.6	.0	.0	88	4.6
	TOTAL	71	22	42	10	31	25	31	17	24	22	51	56	111	61	84	54	0	31	743	39.1
	TOTAL	179	85	108	43	99	79	77	52	103	78	138	127	245	119	175	122	0	72	1901	100.0
	PCT	9.4	4.5	5.7	2.3	5.2	4.2	4.1	2.7	5.4	4.1	7.3	6.7	12.9	6.3	9.2	6.4	.0	3.8	100.0	

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL ANY HGT	TOTAL NH <5/8	TOTAL OBS
00003	11.0	.3	2.5	9.6	30.7	18.9	2.0	.3	.6	.6	76.3	23.7	355
06009	8.7	.0	1.2	7.8	31.0	17.1	2.3	.6	.9	.6	70.1	29.9	345
12015	11.3	.0	2.6	7.6	29.1	12.3	2.0	1.0	.7	.7	67.2	32.8	302
18021	10.3	.3	1.8	11.2	34.8	14.8	2.7	.3	.6	.0	77.0	23.0	330
TOT	137	2	27	121	419	212	30	7	9	6	970	362	1332
PCT	10.3	.2	2.0	9.1	31.5	15.9	2.3	.5	.7	.5	72.8	27.2	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	8.0	1.7	5.7	9.5	36.4	38.7	349
06009	7.1	2.4	4.7	8.5	35.3	42.1	340
12015	6.5	2.4	4.1	12.6	38.8	35.7	294
18021	8.0	.9	4.6	13.0	37.5	35.9	323
TOT	97	24	63	141	482	499	1306
PCT	7.4	1.8	4.8	10.8	36.9	38.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1000 <1	1000+ <5 AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	10.3	15.5	33.5	43.6	22.9
06009	7.9	12.1	28.5	42.6	28.8
12015	10.9	17.0	33.0	36.4	30.6
18021	9.6	13.6	35.3	42.7	22.0
TOT	126	189	425	542	339
PCT	9.6	14.5	32.5	41.5	26.0

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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	TOTAL PCT
60/64	.0	.0	.1	.2	.5	.7	.2	.0	22	1.7
55/59	.0	.0	.0	.5	.5	1.3	2.7	.7	74	5.8
50/54	.0	.0	.0	.1	1.6	2.4	11.8	9.2	322	25.1
45/49	.0	.0	.0	.2	1.4	7.3	16.4	33.0	747	58.3
40/44	.0	.0	.0	.0	.5	2.0	2.3	4.2	116	9.1
TOTAL	0	0	1	11	60	177	428	604	1281	100.0
PCT	.0	.0	.1	.9	4.7	13.8	33.4	47.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/64	.2	.0	.2	.0	.4	.2	.3	.5	.0	.0
55/59	.7	.3	.4	.3	1.1	.7	1.0	.9	.0	.4
50/54	2.3	2.0	1.8	1.7	2.2	5.2	4.8	3.7	.0	1.6
45/49	9.8	5.2	5.5	4.1	6.2	7.2	10.3	8.8	.0	1.2
40/44	1.2	.4	.5	.1	.4	.9	3.4	1.8	.0	.2
TOTAL	183	101	108	79	131	181	254	200	0	44
PCT	14.3	7.9	8.4	6.2	10.2	14.1	19.8	15.6	.0	3.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00Z03	64	61	58	49	45	43	41	49.5	507
06Z09	62	60	58	49	44	43	41	49.3	524
12Z15	57	56	52	46	43	41	41	46.6	322
18Z21	61	59	54	47	43	41	39	47.8	472
TOT	64	60	56	48	43	42	39	48.5	1825

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
00Z03	.0	2.1	7.1	13.2	31.5	46.0	87	378
06Z09	.0	.8	4.5	12.9	34.2	47.6	88	357
12Z15	.0	.0	3.0	9.4	39.6	48.0	89	202
18Z21	.0	.3	3.2	17.8	31.5	47.3	88	349
TOT	0	12	60	177	421	606	87	1286

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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	37	41	45	49	53	57	61	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.2	.2	.1	5	.1	.3
11/13	.0	.0	.0	.4	.2	1.1	.0	22	.3	1.5
9/10	.0	.0	.0	.5	.6	1.0	.0	25	.2	1.8
7/8	.0	.0	.4	1.7	.7	.0	.0	34	.2	2.6
6	.0	.0	.4	1.1	.3	.0	.0	22	.2	1.6
5	.0	.0	1.0	3.0	.2	.1	.0	52	.6	3.7
4	.0	.2	3.2	3.4	.8	.0	.0	92	1.5	6.1
3	.0	.1	7.1	1.1	.4	.0	.0	107	1.4	7.4
2	.0	.5	9.5	2.4	.0	.0	.0	151	1.1	11.2
1	.0	.8	8.9	2.0	.4	.0	.0	148	1.7	10.4
0	.0	2.8	12.5	4.4	.1	.0	.0	241	2.8	17.0
-1	.0	2.0	7.5	1.3	.1	.0	.0	132	1.3	9.5
-2	.0	2.0	5.3	1.1	.0	.0	.0	102	.5	7.9
-3	.0	1.1	1.7	.5	.0	.0	.0	41	.2	3.2
-4	.1	.7	1.2	.2	.0	.0	.0	28	.1	2.2
-5	.0	.7	.3	.1	.0	.0	.0	13	.1	1.0
-6	.0	.1	.2	.0	.0	.0	.0	3	.0	.2
TOTAL	1	133	722	283	49	29	1	1218	149	1069
PCT	.1	10.9	59.3	23.2	4.0	2.4	.1	100.0	12.2	87.8

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TABLE 18

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

HGT	N										NE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.4	.9	.0	.0	.0	.0	10	.3	1.2	.0	.0	.0	.0	11							
1-2	.0	2.3	1.4	.0	.0	.0	29	.3	.7	.7	.0	.0	.0	12							
3-4	.0	.9	3.1	.4	.0	.0	34	.0	.8	1.0	.7	.0	.0	19							
5-6	.0	.3	1.6	.4	.1	.0	18	.0	.0	.8	.4	.0	.0	9							
7	.0	.0	1.3	1.0	.1	.0	19	.0	.0	.3	.5	.0	.0	6							
8-9	.0	.0	1.7	.0	.0	.0	13	.0	.0	.0	.3	.0	.0	2							
10-11	.0	.0	.4	.0	.0	.0	3	.0	.0	.0	.0	.0	.0	0							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	.1	.0	2							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	3	34	57	30	2	0	126	4	20	21	15	1	0	61							
PCT	.4	4.4	7.4	3.9	.3	.0	16.4	.5	2.6	2.7	2.0	.1	.0	8.0							

HGT	E										SE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.1	.5	.0	.0	.0	.0	5	.0	1.4	.0	.0	.0	.0	11							
1-2	.3	1.4	1.6	.0	.0	.0	25	.0	.3	1.4	.0	.0	.0	13							
3-4	.0	.7	1.6	.8	.0	.0	23	.0	.5	1.4	.3	.0	.0	17							
5-6	.0	.0	.9	.8	.0	.0	13	.0	.1	.1	.0	.0	.0	2							
7	.0	.0	.4	.5	.0	.0	7	.0	.0	.3	.3	.1	.0	5							
8-9	.0	.0	.0	.1	.0	.0	1	.0	.0	.4	.5	.1	.0	8							
10-11	.0	.0	.0	.3	.0	.0	2	.0	.0	.0	.0	.0	.0	0							
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	2							
13-16	.0	.0	.0	.0	.1	.0	1	.0	.0	.0	.3	.0	.0	2							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	3	20	34	19	1	0	77	0	18	28	12	2	0	60							
PCT	.4	2.6	4.4	2.5	.1	.0	10.0	.0	2.3	3.7	1.6	.3	.0	7.8							

SEPTEMBER  
TABLE 18

AREA 0010 ATTU  
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PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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

HGT	S										SW										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.1	.7	.0	.0	.0	.0	6	.1	.5	.0	.0	.0	.0	5							
1-2	.1	1.2	.8	.0	.0	.0	16	.0	2.7	1.6	.1	.0	.0	34							
3-4	.0	.4	1.4	.0	.0	.0	14	.1	1.3	2.7	.1	.0	.0	33							
5-6	.0	.0	1.3	.5	.0	.0	14	.0	.3	1.7	.3	.0	.0	17							
7	.0	.3	.0	.4	.0	.0	5	.0	.4	1.5	.5	.0	.0	11							
8-9	.0	.0	.0	.0	.0	.0	0	.0	.3	.0	.1	.0	.0	3							
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.1	.0	.0	2							
12	.0	.0	.1	.1	.0	.0	2	.0	.0	.0	.1	.0	.0	1							
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.1	.5	.1	.0	6							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	2	19	28	8	0	0	57	2	42	52	15	1	0	112							
PCT	.3	2.5	3.7	1.0	.0	.0	7.4	.3	5.5	6.8	2.0	.1	.0	14.6							

HGT	W										NW										GRAND TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.1	.5	.0	.0	.0	.0	5	.4	.9	.0	.0	.0	.0	10							
1-2	.4	2.7	1.6	.0	.0	.0	36	.1	1.8	1.2	.0	.0	.0	23							
3-4	.0	1.7	5.0	.0	.0	.0	51	.0	.7	3.4	.4	.0	.0	188							
5-6	.0	.0	2.3	.7	.0	.0	23	.0	.0	1.6	1.0	.0	.0	226							
7	.0	.0	1.3	1.2	.1	.0	20	.0	.1	1.6	.8	.0	.0	116							
8-9	.0	.0	.0	.3	.0	.0	2	.0	.1	.1	.4	.0	.0	19							
10-11	.0	.0	.5	.8	.0	.0	10	.0	.1	.4	.0	.1	.0	5							
12	.0	.0	.1	.1	.0	.0	2	.0	.0	.0	.1	.0	.0	22							
13-16	.0	.0	.1	.5	.0	.0	5	.0	.0	.0	.1	.0	.0	10							
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.1	.0	15							
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	1							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	4	38	84	27	1	0	154	4	29	63	22	2	0	767							
PCT	.5	5.0	11.0	3.5	.1	.0	20.1	.5	3.8	8.2	2.9	.3	.0	15.6							

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+					
<1	5.4	6.4	.0	.0	.0	.0	94				
1-2	1.1	12.6	9.8	.1	.0	.0	189				
3-4	.4	6.6	18.9	2.5	.0	.0	227				
5-6	.0	.6	9.9	3.9	.1	.0	116				
7	.0	.8	5.4	5.0	.4	.0	92				
8-9	.0	.4	.5	3.3	.1	.0	34				
10-11	.0	.1	1.0	1.5	.1	.0	22				
12	.0	.0	.3	1.9	.1	.0	10				
13-16	.0	.0	.3	1.4	.3	.0	15				
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				
TOTAL	55	220	367	148	10	0	800				
PCT	6.9	27.5	45.9	18.5	1.3	.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	3-4	5-6	7	8-9	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	1.2	16.5	12.5	3.1	2.1	.4	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	372	3
6-7	.0	2.2	8.6	9.1	5.0	2.3	1.9	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	303	5
8-9	.0	.4	.5	2.8	4.6	2.6	2.0	.7	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	7
10-11	.0	.0	.0	.0	.1	.9	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
12-13	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.0	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	16.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	168	0
TOTAL	179	195	219	152	123	62	48	19	16	3	0	0	0	0	0	0	0	0	0	0	0	0	1016	0
PCT	17.6	19.2	21.6	15.0	12.1	6.1	4.7	1.9	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4

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PERIOD: (PRIMARY) 1944-1969  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG MO PCPN	SMOKE HAZE	DUST BLWG SNOW	SIG WEA	
N	.2	.4	.2	.0	.1	.0	.0	7	.0	.0	.0	.0	5.6	53
NNE	.2	.4	.5	.0	.0	.0	.0	7	.0	.0	.0	.0	2.1	26
NE	.4	.1	.1	.0	.0	.0	.0	5	.0	.0	.0	.0	1.6	22
ENE	.4	.0	.1	.0	.0	.0	.0	4	.0	.0	.0	.0	1.6	17
E	1.7	.1	.1	.0	.0	.0	.0	16	.0	.0	.0	.0	2.8	40
ESE	1.2	.2	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	3.2	39
SE	1.1	.0	.5	.0	.0	.0	.0	12	.0	.0	.0	.0	2.2	31
SSE	.5	.0	.2	.0	.0	.0	.0	6	.0	.0	.0	.0	2.2	24
S	.7	.0	1.0	.0	.0	.0	.0	14	.0	.0	.0	.0	4.9	59
SSW	1.2	.1	1.3	.0	.0	.0	.0	18	.0	.0	.0	.0	3.9	55
SW	.9	.4	.7	.0	.0	.0	.0	16	.0	.0	.0	.0	5.9	66
WSW	.6	.2	.4	.0	.1	.0	.0	10	.0	.0	.0	.0	4.7	50
W	1.1	.6	.6	.0	.1	.0	.0	18	.0	.0	.0	.0	10.7	106
WNW	.4	.0	.2	.0	.4	.0	.0	8	.0	.0	.0	.0	7.2	67
NW	.9	.1	.5	.0	.0	.0	.0	13	.0	.0	.0	.0	7.8	81
NNW	.1	.1	.4	.0	.0	.0	.0	5	.0	.0	.0	.0	5.1	48
VAR	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CALM	.4	.1	.0	.0	.0	.0	.0	4	.0	.0	.0	.0	3.4	32
TOT OBS	98	24	57	0	6	0	1	175	0	19	10	0	612	816
TOT PCT	12.0	2.9	7.0	.0	.7	.0	.1	21.4	.0	2.3	1.2	.0	75.0	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN SHWR	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN				FOG MO PCPN	SMOKE HAZE	DUST BLWG SNOW	SIG WEA	
00003	14.4	2.5	7.2	.0	1.3	.0	.4	55	.0	3.0	.8	.0	72.9	236
06009	8.5	4.5	6.3	.0	.9	.0	.0	44	.0	4.0	1.8	.0	74.6	224
12015	11.3	2.1	5.2	.0	1.0	.0	.0	36	.0	2.6	.0	.0	78.9	194
18021	11.2	.9	8.4	.0	.9	.0	.0	45	.0	1.4	1.9	.0	75.8	215
TOT	99	24	59	0	9	0	1	180	0	24	10	0	655	869
PCT	11.4	2.8	6.8	.0	1.0	.0	.1	20.7	.0	2.8	1.2	.0	75.4	100.0

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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	00	03	06	09	12	15	18	21
N	.2	2.7	2.8	.5	.2	.0	73	6.3	13.0	5.5	8.0	5.1	8.3	5.9	.0	8.3	6.3
NNE	.3	1.1	.9	.3	.3	.0	35	3.0	15.0	2.9	8.0	3.4	3.0	2.2	5.0	1.1	5.5
NE	.0	1.6	1.1	1.0	.1	.0	43	3.7	15.4	2.6	4.0	3.4	7.5	3.8	15.0	1.7	3.9
ENE	.0	.9	.5	.4	.	.0	22	1.9	15.7	2.3	.0	1.1	1.5	1.6	.0	3.3	1.6
E	.1	.6	1.7	.4	.3	.3	51	4.4	17.5	4.9	8.0	6.2	.8	4.3	10.0	3.9	3.9
ESE	.1	1.0	1.2	1.0	.3	.1	42	3.6	18.2	2.3	4.0	3.9	1.5	4.3	15.0	6.1	2.4
SE	.2	.9	1.6	.9	.6	.1	48	4.2	19.9	5.5	.0	2.8	5.3	4.9	5.0	2.2	3.9
SSE	.1	.7	1.0	.5	.1	.1	28	2.4	18.4	1.6	.0	1.1	1.5	4.3	10.0	4.4	.8
S	.1	2.2	2.2	1.3	.3	.0	72	6.2	15.9	6.5	20.0	6.7	4.5	4.9	.0	8.3	3.9
SSW	.3	1.4	2.9	1.5	.6	.0	77	6.7	18.4	6.2	8.0	9.0	9.0	4.9	5.0	3.9	8.7
SW	.6	1.9	3.7	1.6	.9	.0	100	8.7	17.4	8.8	4.0	9.6	10.5	9.7	5.0	6.7	7.9
WSW	.2	1.5	2.2	1.2	.3	.0	62	5.4	16.3	6.2	8.0	3.9	3.0	6.5	5.0	7.2	3.1
W	.8	3.4	5.3	3.0	.7	.0	152	13.1	16.8	14.3	4.0	14.0	9.8	11.9	5.0	13.9	16.5
WNW	.4	2.1	3.4	1.7	.8	.0	97	8.4	17.4	8.1	8.0	9.6	7.5	8.6	5.0	8.9	7.9
NW	1.0	5.2	4.3	2.0	.7	.0	152	13.1	14.0	14.6	.0	11.2	19.5	1.4	5.0	8.9	18.1
NNW	.4	1.6	2.4	1.0	.1	.0	64	5.5	15.1	4.9	16.0	5.1	3.8	7.0	10.0	5.0	5.5
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3	342	430	212	73	6	38	3.3	.0	2.9	.0	3.9	3.0	3.8	.0	6.1	.0
TOT OBS	93	29.6	37.2	18.3	6.3	.5	1156	100.0	15.8	308	25	178	133	185	20	180	127
TOT PCT	8.0	29.6	37.2	18.3	6.3	.5	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 SPD	00	03	06	09	12	15	18	21
N	2.2	4.6	1.8	.6	.1	108	9.3	13.6	8.4	16.0	8.4	11.3	8.1	5.0	9.4	11.8
NE	1.0	2.8	1.3	.5	.1	65	5.6	15.5	4.9	4.0	4.5	9.0	5.4	15.0	5.0	5.5
E	1.6	3.4	1.5	1.0	.6	93	8.0	17.8	7.1	12.0	10.1	2.3	8.6	25.0	10.0	6.3
SE	1.0	2.0	2.1	1.0	.4	76	6.6	19.4	7.1	.0	3.9	6.8	9.2	15.0	6.7	4.7
S	1.6	4.8	4.4	1.8	.2	149	12.9	17.2	12.7	28.0	15.7	13.5	9.7	5.0	12.2	12.6
SW	2.3	5.0	4.5	2.0	.2	162	14.0	17.0	14.9	12.0	13.5	13.5	16.2	10.0	13.9	11.0
W	3.6	8.1	6.0	3.5	.3	249	21.5	17.0	22.4	12.0	23.6	17.3	20.5	10.0	22.8	24.4
NW	4.2	8.1	4.3	2.0	.0	216	18.7	14.3	19.5	16.0	16.3	23.3	18.4	15.0	13.9	23.6
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3	449	299	144	22	38	3.3	.0	2.9	.0	3.9	3.0	3.8	.0	6.1	.0
TOT OBS	242	38.8	25.9	12.5	1.9	1156	100.0	15.8	308	25	178	133	185	20	180	127
TOT PCT	20.9	38.8	25.9	12.5	1.9	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

HOUR	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)							PCT FREQ	TOTAL OBS	
	1-3	4-10	11-21	22-33	34-47	48+	CALM			
00003	3.9	30.9	37.2	17.7	6.9	.6	2.7	16.0	100.0	333
06009	7.4	31.5	34.1	16.7	6.8	.0	3.5	14.9	100.0	311
12015	.5	19.5	49.8	21.5	4.9	.5	3.4	17.2	100.0	205
18021	5.9	32.9	31.9	18.6	6.2	1.0	3.6	15.5	100.0	307
TOT	55	342	430	212	73	6	38	15.8		1156
PCT	4.8	29.6	37.2	18.3	6.3	.5	3.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION							TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-6	OBSCD	8-6	OBSCD		
N	.5	1.8	2.7	1.9			51	5.4	
NNE	.0	.7	1.2	1.2			23	6.1	
NE	.1	.3	.3	1.5			16	6.8	
ENE	.0	.0	.5	1.5			15	7.5	
E	.1	.3	.8	4.5			42	7.4	
ESE	.3	.3	.4	3.7			34	7.3	
SE	.0	.5	.5	2.3			25	7.0	
SSE	.5	.7	.3	1.5			22	5.5	
S	.3	.1	1.6	4.9			51	7.2	
SSW	.3	1.1	1.0	3.5			43	6.7	
SW	.7	1.5	2.0	4.3			63	6.5	
WSW	.4	.8	2.9	2.2			46	6.1	
W	1.2	1.9	4.5	6.1			101	6.1	
WNW	.8	1.8	2.3	3.0			58	5.8	
NW	.8	1.8	2.9	4.2			71	6.0	
NNW	.5	1.4	2.2	1.8			43	5.7	
VAR	.0	.0	.0	.0			0	.0	
CALM	.5	.7	.8	2.3			32	6.2	
TOT OBS	53	114	198	371			736	6.3	
TOT PCT	7.2	15.5	26.9	50.4			100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS				
	000	149	150	299	300	599	600	999	1000	2000			3500	5000	6500	8000+
N	.1	.0	.0	.0	.0	.0	.5	1.4	.8	.5	.1	.3	.0	.0	3.1	51
NNE	.1	.0	.0	.0	.1	.0	.1	1.2	.3	.0	.0	.1	.0	.0	1.1	23
NE	.0	.0	.0	.0	.4	.0	.0	.4	.7	.0	.0	.1	.0	.0	.5	16
ENE	.1	.0	.0	.1	.1	.0	.1	.4	.7	.4	.1	.0	.0	.0	.0	15
E	.0	.1	.1	.1	.1	.0	.3	2.3	1.2	.8	.0	.1	.0	.0	.7	42
ESE	.1	.1	.1	.0	.0	.0	.4	1.9	.7	.4	.0	.1	.0	.0	.8	34
SE	.3	.0	.0	.0	.0	.0	.1	.7	1.0	.1	.0	.3	.1	.0	.8	25
SSE	.0	.1	.0	.0	.0	.0	.0	1.0	.1	.0	.0	.4	.0	.0	1.4	22
S	.3	.0	.0	.0	.0	.0	.4	2.3	1.9	.5	.0	.0	.0	.0	2.0	51
SSW	.4	.0	.0	.0	.0	.0	.5	1.5	.7	.3	.0	.0	.0	.0	2.0	43
SW	.1	.0	.0	.0	.0	.0	.3	3.8	.5	.1	.5	.0	.0	.0	3.1	63
WSW	.4	.0	.0	.0	.0	.0	.3	2.2	.5	.4	.0	.4	.0	.0	1.8	46
W	.0	.0	.0	.1	.1	.0	.7	4.8	2.3	1.4	.5	.3	.0	.0	3.8	101
WNW	.0	.0	.0	.0	.0	.0	.1	3.3	.8	.3	.0	.3	.0	.0	3.0	58
NW	.0	.0	.0	.0	.0	.0	.3	2.7	1.4	.5	.7	.1	.1	.0	3.8	71
NNW	.0	.0	.0	.0	.0	.0	.0	1.0	1.4	.4	.1	.0	.0	.0	3.0	43
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	1.9	.5	.1	.1	.0	.0	.0	1.6	32
TOT OBS	15	3	3	7	7	32	32	240	114	47	17	19	9	233	736	
TOT PCT	2.0	.4	.4	1.0	4.3	4.3	4.3	32.6	15.5	6.4	2.3	2.6	1.2	31.7	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	>5	>2	>1	>1/2	>1/4	>50YD	>0		
OR >6500	1.6	3.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
OR >5000	3.0	5.4	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
OR >3500	5.8	10.6	11.5	11.9	11.9	12.1	12.1	12.1	12.1	12.1
OR >2000	14.4	25.2	27.4	27.9	28.0	28.1	28.1	28.1	28.1	28.1
OR >1000	31.9	50.3	56.4	58.5	60.2	60.4	60.7	60.7	60.7	60.7
OR >600	33.2	53.2	60.1	62.6	64.3	64.6	64.9	64.9	64.9	64.9
OR >300	33.2	54.0	61.0	63.6	65.2	65.5	65.8	65.8	65.8	65.8
OR >150	33.5	54.3	61.3	63.9	65.6	66.0	66.3	66.3	66.3	66.3
OR > 0	33.6	54.6	61.6	64.5	66.1	66.7	67.1	67.1	67.1	67.1
TOTAL	259	421	475	497	510	514	517	517	517	517

TOTAL NUMBER OF OBS: 771 PCT FREQ NH <5/8: 32.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	9	TOTAL
1.6	3.3	8.8	10.1	8.0	6.6	11.3	6.4	41.2	2.6	808	

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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 TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT	
																						PCP
<1/2	PCP	.0	.0	.0	.1	.2	.2	.2	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	11	1.4
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.1	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	6	.7
	TOTAL	0	0	0	1	2	2	3	0	0	3	2	0	1	1	0	0	1	0	0	17	2.1
1/2<1	PCP	.0	.2	.0	.0	.1	.4	.2	.1	.1	.0	.4	.1	.1	.0	.2	.1	.0	.0	.0	18	2.2
	NO PCP	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.4
	TOTAL	0	2	1	0	2	4	2	1	1	0	3	1	1	0	2	1	0	0	0	21	2.6
1<2	PCP	.0	.0	.0	.1	.5	.2	.1	.1	.5	.5	.1	.1	.4	.1	.2	.1	.0	.0	.0	26	3.2
	NO PCP	.0	.0	.1	.0	.1	.1	.0	.0	.2	.2	.1	.2	.2	.2	.0	.0	.0	.0	.0	14	1.7
	TOTAL	0	0	1	1	5	3	1	1	6	6	2	3	5	3	2	1	0	0	0	40	5.0
2<5	PCP	.1	.1	.1	.1	.4	.1	.2	.1	.6	.9	.4	.2	.5	.6	.2	.0	.0	.0	.1	40	5.0
	NO PCP	.1	.2	.1	.0	.0	.4	.2	.4	.7	.2	.5	.5	.7	.1	.6	.2	.0	.0	.0	42	5.2
	TOTAL	2	3	2	1	3	4	4	4	11	9	7	6	10	6	7	2	0	0	1	82	10.1
5<10	PCP	.6	.5	.5	.1	.7	.4	.5	.4	.4	.5	.7	.7	1.0	.2	.1	.1	.0	.0	.2	63	7.8
	NO PCP	1.4	.4	.9	1.2	2.0	.9	1.1	.6	1.4	1.4	1.6	.9	2.2	1.5	2.2	1.6	.0	.0	.1	172	21.3
	TOTAL	16	7	11	11	22	10	13	8	14	15	19	13	26	14	19	14	0	0	3	235	29.1
10+	PCP	.1	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2	.0	.2	.0	.7	.4	.0	.0	.1	19	2.4
	NO PCP	4.1	1.6	.9	.4	.7	1.7	.9	1.2	2.8	2.2	3.8	3.1	7.7	5.3	5.6	3.3	.0	3.3	.1	394	48.8
	TOTAL	34	13	7	3	6	15	8	10	2.2	20	33	25	64	43	51	30	0	28	.2	413	51.1
TOTAL PCT	52 6.4	25 3.1	22 2.7	17 2.1	40 5.0	38 4.7	31 3.8	24 3.0	56 6.9	53 6.6	66 8.2	48 5.9	107 13.2	67 8.3	81 10.0	49 6.1	0	0	32 4.0	808 100.0		

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	3	.3
	4-10	.0	.0	.2	.1	.0	.0	.0	.1	.0	.2	.0	.0	.1	.1	.1	.0	.0	.0	9	.8
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.0	.1	.1	.0	.0	6	.5
	22+	.0	.0	.0	.0	.1	.2	.2	.0	.0	.1	.1	.0	.1	.1	.1	.0	.0	.0	9	.8
	TOTAL	0	0	2	1	2	2	3	1	1	3	2	1	3	2	3	1	0	0	27	2.4
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.1	.1	.2	.1	.0	.0	.1	.0	.0	.0	8	.7
	11-21	.1	.0	.1	.0	.0	.0	.2	.0	.1	.0	.2	.0	.0	.1	.0	.0	.0	.0	8	.7
	22+	.0	.2	.0	.0	.2	.2	.0	.1	.1	.2	.1	.1	.2	.0	.1	.1	.1	.0	16	1.4
	TOTAL	1	2	1	0	2	4	2	1	3	6	6	2	2	1	2	1	0	0	33	2.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.0	.1	.0	.0	.0	5	.4
	4-10	.0	.0	.1	.0	.0	.0	.1	.0	.3	.3	.2	.0	.1	.1	.1	.0	.0	.0	14	1.2
	11-21	.0	.0	.0	.0	.0	.2	.1	.0	.2	.3	.2	.0	.1	.0	.1	.1	.0	.0	13	1.1
	22+	.0	.0	.0	.1	.4	.1	.0	.1	.2	.2	.0	.2	.3	.3	.3	.0	.0	.0	20	1.8
	TOTAL	0	0	1	1	5	3	2	1	8	7	5	3	7	4	4	1	0	0	52	4.6
2<5	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	.1	.2	.2	.0	.0	13	1.1
	4-10	.1	.2	.4	.1	.1	.0	.4	.0	.1	.2	.0	.0	.8	.4	.3	.0	.0	.0	34	3.0
	11-21	.1	.0	.0	.0	.2	.1	.0	.2	.6	.4	.4	.3	.3	.1	.2	.1	.0	.0	31	2.7
	22+	.1	.1	.2	.1	.1	.3	.4	.2	.3	.5	.4	.4	.3	.2	.5	.2	.0	.0	47	4.1
	TOTAL	3	4	7	2	4	4	9	4	11	13	11	8	16	9	13	5	0	2	125	11.0
5<10	0-3	.0	.1	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.3	.3	.2	.2	.0	.0	20	1.8
	4-10	.5	.2	.6	.4	.8	.3	.1	.2	.7	.1	.7	.6	1.3	.2	.8	.4	.0	.0	89	7.8
	11-21	1.1	.2	.6	.4	1.2	.4	.4	.3	.4	.9	.8	.3	1.2	1.0	.9	.5	.0	.0	121	10.7
	22+	.3	.4	.5	.4	.3	.3	.8	.3	.4	.5	.7	.6	1.1	.4	.7	.5	.0	.0	90	7.9
	TOTAL	21	9	20	13	26	10	15	10	17	18	26	17	44	20	29	19	0	6	320	28.2
10+	0-3	.1	.2	.0	.0	.0	.1	.2	.0	.0	.1	.3	.0	.2	.1	.5	.1	.0	.0	49	4.3
	4-10	2.0	.7	.2	.4	.6	.6	.4	.4	1.1	.8	.8	.6	1.1	1.3	4.0	1.1	.0	.0	182	16.0
	11-21	1.6	.7	.4	.1	.4	.7	.8	.4	1.1	1.1	2.2	1.7	3.8	2.2	3.0	1.4	.0	.0	238	21.0
	22+	.4	.1	.4	.0	.1	.4	.2	.1	.7	.7	1.1	.3	1.9	1.7	1.2	.4	.0	.0	108	9.5
	TOTAL	46	19	11	5	12	17	17	10	28	31	50	29	80	60	99	34	0	29	577	50.9
	TOTAL	71	34	42	22	51	40	48	27	68	75	100	60	152	96	150	61	0	37	1134	100.0
	PCT	6.3	3.0	3.7	1.9	4.5	3.5	4.2	2.4	6.0	6.6	8.8	5.3	13.4	8.5	13.2	5.4	.0	3.3	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)										OCCURRENCE OF NH < 5/8 BY HOUR		TOTAL NH < 5/8 ANY HGT OBS	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	8000+			
00003	2.7	.5	.5	5.0	29.9	15.4	4.1	2.3	3.2	2.3	65.6	2.3	34.4	221	221
06009	3.0	.0	1.5	4.5	31.3	17.9	5.0	2.0	2.0	.5	67.7	.5	32.3	201	201
12015	3.4	.6	.6	2.8	28.4	14.2	6.8	1.1	4.0	.6	62.5	.6	37.5	176	176
18021	1.0	1.0	1.0	3.7	37.7	15.2	8.4	3.7	.5	1.0	73.3	1.0	26.7	191	191
TOT	20	4	7	32	251	124	47	18	19	9	531	9	258	789	789
PCT	2.5	.5	.9	4.1	31.8	15.7	6.0	2.3	2.4	1.1	67.3	1.1	32.7	100.0	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+	10+	TOTAL			
00003	.9	1.4	3.2	6.5	25.8	62.2	217	217	217	217	217
06009	.5	1.5	5.6	6.1	27.4	58.9	197	197	197	197	197
12015	1.8	1.8	1.8	12.0	27.5	55.1	167	167	167	167	167
18021	1.1	2.1	1.6	6.3	31.6	57.4	190	190	190	190	190
TOT	8	13	24	58	216	452	771	771	771	771	771
PCT	1.0	1.7	3.1	7.5	28.0	58.6	100.0	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)	CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR CEILING HGT (FEET, NH > 4/8), BY HOUR				TOTAL OBS
	<150 FEET	<600 FEET	<1000 FEET	<5/8 NH AND 5+	
00003	1.4	4.1	16.6	34.6	217
06009	1.0	4.1	17.3	32.0	197
12015	.0	4.8	21.0	35.3	167
18021	1.1	5.3	16.3	26.3	190
TOT	7	35	136	388	771
PCT	.9	4.5	17.6	50.3	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			
55/59	.0	.0	.0	.4	.2	.2	.0	.0	.0	.0	4	.7
50/54	.0	.0	.0	.5	1.5	1.6	2.0	2.2	2.0	2.2	43	7.6
45/49	.0	.0	.2	.7	3.3	11.4	16.7	20.3	29.0	52.6	290	52.6
40/44	.0	.0	.0	.5	3.8	6.7	10.9	13.1	19.3	35.0	193	35.0
35/39	.0	.0	.0	.0	.4	.7	1.1	1.6	2.1	3.8	21	3.8
TOTAL	0	0	1	12	50	114	169	205	551	100.0		
PCT	.0	.0	.2	2.2	9.1	20.7	30.7	37.2				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.0	.0	.0	.0	.0	.0	.7	.0	.0	.0			
.2	.5	.0	.4	1.1	2.4	2.2	.9	.0	.2			
3.6	4.2	2.9	2.7	8.5	10.5	11.3	8.5	.0	.4			
4.7	1.6	2.0	2.9	4.9	4.7	6.5	6.7	.0	.9			
.9	.0	.0	.4	.0	.2	1.3	1.1	.0	.0			
52	35	27	35	80	98	121	95	0	8			
9.4	6.4	4.9	6.4	14.5	17.8	22.0	17.2	.0	1.5			

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		
57	55	52	46	40	36	36	45.7	335			
54	52	50	45	40	37	35	44.5	317			
52	50	48	43	37	36	36	43.3	210			
54	53	50	44	37	36	36	43.9	321			
57	54	50	45	39	36	35	44.5	1183			

TABLE 16

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR									
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS		
0303	.0	3.4	13.5	18.5	25.8	38.8	83	178		
0609	.0	2.6	8.3	19.9	31.4	37.8	65	156		
1215	.0	1.6	4.8	22.6	41.9	29.0	84	62		
1821	.0	1.2	6.8	24.8	30.4	36.6	85	161		
TOT	0	13	51	118	170	205	84	557		

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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	33	36	37	40	41	44	45	48	49	52	53	56	57	60	TOT	M FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.3	.3	.0	.0	12	.0	1.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.1	.3	.3	.0	.0	24	.0	3.3
6	.0	.0	.0	.0	.0	.0	.1	.3	.3	.1	.3	.3	.0	.0	4	.0	.6
5	.0	.0	.0	.0	.1	.1	1.8	.8	.8	.3	.3	.3	.0	.0	22	.0	3.0
4	.0	.0	.0	.4	.4	.4	4.4	.3	.3	.0	.0	.0	.0	.0	37	.1	5.0
3	.0	.0	.0	.8	.8	.8	5.1	1.0	.3	.0	.1	.0	.0	.0	51	.3	6.8
2	.0	.0	.6	3.4	3.4	3.4	8.8	.3	.3	.0	.0	.0	.0	.0	91	.6	12.0
1	.0	.0	.6	5.8	5.8	5.8	4.7	.3	.3	.0	.0	.0	.0	.0	82	.7	10.6
0	.0	.0	.4	6.8	6.8	6.8	7.7	.7	.7	.0	.0	.0	.0	.0	113	.4	15.2
-1	.0	.0	.8	6.1	6.1	6.1	3.3	.4	.4	.0	.0	.0	.0	.0	77	.1	10.5
-2	.0	.0	1.5	7.0	7.0	7.0	1.4	.0	.0	.0	.0	.0	.0	.0	72	.1	9.8
-3	.0	.0	.7	2.1	2.1	2.1	.3	.0	.0	.0	.0	.0	.0	.0	22	.0	3.0
-4	.0	.0	1.9	3.3	3.3	3.3	1.2	.0	.0	.0	.0	.0	.0	.0	47	.0	6.5
-5	.1	.1	2.3	1.2	1.2	1.2	.6	.0	.0	.0	.0	.0	.0	.0	31	.0	4.3
-6	.0	.0	.4	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	10	.1	1.2
-7/-8	1.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.0	2.6
-9/-10	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.8
-11/-13	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.6
TOTAL	11	77	281	286	60	8	8.3	1.1	8.3	1.1	1.1	1.1	.3	2	725	18	707
PCT	1.5	10.6	38.8	39.4	8.3	1.1	1.1	.3	100.0	2.5	97.5						

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

HGT	N										NE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.3	.3	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0	
1-2	.0	2.2	.3	.0	.0	.0	8	.0	.3	.9	.0	.0	.0	4	
3-4	.0	1.2	1.2	.0	.0	.0	8	.0	.0	.6	.0	.0	.0	2	
5-6	.0	.0	.6	.0	.0	.0	2	.0	.0	1.2	.0	.0	.0	4	
7	.0	.0	1.6	.3	.0	.0	6	.0	.0	.0	.9	.0	.0	3	
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
13-16	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.3	.0	1	
17-19	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	12	12	2	1	0	28	0	1	9	3	1	0	14	
PCT	.3	3.7	3.7	.6	.3	.0	8.7	.0	.3	2.8	.9	.3	.0	4.3	

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

HGT	E										SE				TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	
<1	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
1-2	.3	3.7	1.9	.0	.0	.0	19	.0	.9	.0	.0	.0	.0	7	
3-4	.0	.6	1.2	.6	.0	.0	8	.0	.0	1.2	.0	.0	.0	5	
5-6	.0	.0	.3	.3	.0	.0	2	.0	.0	1.6	.0	.6	.0	5	
7	.0	.0	.0	.3	.0	.0	1	.0	.0	.3	.0	.0	.0	0	
8-9	.0	.0	.3	.3	.0	.0	2	.0	.0	.3	.0	.0	.0	3	
10-11	.0	.0	.0	.0	.6	.0	2	.0	.0	.0	.0	.0	.0	1	
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	1	
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.6	.0	.0	4	
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.3	.0	0	
20-22	.0	.0	.3	.0	.3	.0	2	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.3	.0	1	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0	
TOTAL	1	14	13	5	5	0	38	0	6	11	7	3	2	29	
PCT	.3	4.3	4.0	1.6	1.6	.0	11.8	.0	1.9	3.4	2.2	.9	.6	9.0	

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969

OCTOBER  
 TABLE 18

AREA 0010 ATTU  
 51-55N 172-180E

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

HGT	S										NW										GRAND TOTAL		
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+		TOTAL	
<1	.0	.6	.0	.0	.0	.0	2	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
1-2	.0	2.2	3.1	.0	.0	.0	17	.0	.6	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
3-4	.0	.0	1.9	.3	.0	.0	7	.0	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
5-6	.0	.0	1.6	.9	.0	.0	8	.0	.0	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
7	.0	.0	.6	1.2	.0	.0	6	.0	.0	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
8-9	.0	.0	.0	.3	.0	.0	1	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
10-11	.0	.0	.0	.6	.0	.0	3	.0	.0	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
12	.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	.3	.0	.0	.0	1	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.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
41-48	.0	.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	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
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
87+	.0	.9	2.6	1.0	.0	.0	4.5	1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
TOTAL	.0	2.8	8.1	3.1	.0	.0	14.0	.3	1.6	6.2	3.1	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40
PCT	.0																						12.4

PERIOD: (PRIMARY)  
(OVER-ALL) 1963-1969

OCTOBER

AREA 0010 ATTU  
51-55N 172-180E

TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)								TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+			
<1	9.0	2.8	.0	.0	.0	.0	.0	.0	42
1-2	1.1	12.4	14.4	.0	.0	.0	.0	.0	99
3-4	.0	2.5	12.1	1.7	.0	.0	.0	.0	58
5-6	.0	.6	7.9	4.2	.8	.0	.0	.0	48
7	.0	.0	3.1	5.4	.0	.0	.0	.0	30
8-9	.0	.0	1.1	2.5	.6	.0	.0	.0	15
10-11	.0	.0	5.1	2.8	1.1	.3	.0	.0	33
12	.0	.0	.3	.7	.0	.0	.0	.0	2
13-16	.0	.0	1.1	1.7	1.1	.3	.0	.0	15
17-19	.0	.0	.0	.3	.3	.0	.0	.0	2
20-22	.0	.0	.0	.3	.3	.0	.0	.0	3
23-25	.0	.0	.0	.3	.3	.0	.0	.0	3
26-32	.0	.0	.0	.0	.6	.0	.0	.0	4
33-40	.0	.0	.0	.0	1.1	.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
TOTAL	36	65	161	69	21	2	2	2	354
PCT	10.2	18.4	45.5	19.5	5.9	.6	.6	.6	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	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	.8	19.2	7.5	3.4	2.2	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	202	3	
6-7	.0	.8	3.6	5.4	2.0	1.4	1.9	.5	.7	.3	.5	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	7
8-9	.0	1.2	2.5	.7	2.2	1.0	5.1	.8	1.9	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	194	8
10-11	.0	.0	.3	.2	.0	.2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
12-13	.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	1	13
>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	.0	0	0
INDET	30.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	0
TOTAL	183	125	82	58	38	20	43	7	20	3	3	3	4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	589	3
PCT	31.1	21.2	13.9	9.8	6.5	3.4	7.3	1.2	3.4	.5	.5	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	0

NOVEMBER

PERIOD: (PRIMARY) 1945-1968  
(OVER-ALL) 1901-1968

AREA 0010 ATTU  
51-55N 172-180E

TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	
N	.3	.0	.4	.0	.4	.0	.0	.9	6	.0	.4	.0	.0	3.1	30
NNE	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	1.0	7
NE	.0	.0	.0	.0	.1	.0	.0	.1	1	.0	.0	.0	.0	2.1	16
ENE	1.2	.0	.3	.0	.4	.0	.0	1.9	13	.0	.0	.0	.0	.9	19
E	.6	.0	.7	.0	.4	.0	.0	1.6	11	.0	.1	.0	.0	2.1	26
ESE	.6	.0	.9	.0	.4	.0	.0	1.9	12	.0	.0	.0	.0	1.0	19
SE	.6	.0	.6	.0	.3	.0	.0	1.5	10	.0	.1	.0	.0	1.8	23
SSE	1.0	.3	.3	.0	.1	.0	.0	1.6	11	.0	.1	.1	.1	2.3	29
S	1.3	.3	1.3	.0	.6	.0	.1	3.5	24	.0	.1	.0	.0	6.0	67
SSW	1.2	.1	1.0	.0	.3	.0	.0	2.3	16	.0	.1	.2	.0	3.5	43
SW	.7	.1	.4	.0	.7	.0	.0	2.1	14	.0	.4	.0	.0	7.5	68
WSW	.7	.1	.4	.0	.7	.0	.0	2.1	14	.0	.0	.0	.0	8.7	73
W	.6	1.0	.9	.0	2.3	.0	.1	4.4	30	.0	.1	.1	.0	14.1	128
WNW	.3	.0	.0	.0	1.2	.0	.0	1.3	9	.0	.0	.0	.0	5.0	43
NW	.6	.3	.3	.0	2.1	.0	.0	2.8	19	.0	.1	.0	.0	5.1	55
NNW	.3	.4	.1	.0	.3	.0	.0	1.0	7	.0	.0	.1	.0	3.2	30
VAR	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	0
CAIM	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.7	5
TOT OBS	68	19	53	0	75	0	2	28.9	197	0	14	5	1	464	681
TOT PCT	10.0	2.8	7.8	.0	11.0	.0	.3			.0	2.1	.7	.1	68.1	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG	SNOW	OTHER					PCPN	FOG	SMOKE	DUST	
0000	9.9	1.0	7.3	.0	16.8	.0	.0	30.9	59	.0	3.1	.5	.0	65.4	191
0600	10.6	5.0	8.9	.0	8.3	.0	1.1	31.7	57	.0	2.2	.6	.6	65.0	180
1200	6.7	2.7	4.0	.0	9.3	.0	.0	19.3	29	.0	1.3	.7	.0	78.7	150
1800	12.2	3.5	9.9	.0	9.9	.0	.0	32.6	56	.0	1.2	1.2	.0	65.1	172
TOT	69	21	53	0	78	0	2	29.0	201	0	14	5	1	472	693
PCT	10.0	3.0	7.6	.0	11.3	.0	.3			.0	2.0	.7	.1	68.1	100.0

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TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)											TOTAL OBS	PCT FREQ	MEAN SPD	WIND DIRECTION BY SPEED AND BY HOUR											
	0-3	4-10	11-21	22-33	34-47	48+	00	03	06	09	12				15	18	21									
N	.0	.8	2.0	1.0	.6	.1	4.4	4.6	21.4	6.5	14.3	1.9	3.0	5.4	.0	4.0	3.8									
NNE	.0	.6	.8	.3	.0	.0	17	1.8	14.6	2.3	.0	1.3	3.0	.0	.0	2.7	1.9									
NE	.1	.7	.9	.7	.3	.0	27	2.8	19.6	2.7	.0	1.9	4.0	3.6	.0	2.7	2.9									
ENE	.0	.0	.6	.5	1.1	.2	24	2.5	33.0	1.5	14.3	1.9	5.0	1.8	.0	2.7	2.9									
E	.0	.4	2.4	1.7	.8	.0	51	5.3	22.1	5.7	.0	3.2	5.9	4.2	18.2	4.7	8.7									
ESE	.0	.5	.9	.8	.5	.1	28	2.9	24.2	2.7	14.3	.6	6.9	2.4	.0	2.0	3.8									
SE	.5	1.0	1.8	1.5	.5	.2	53	5.5	19.5	6.9	.0	6.5	9.9	4.2	9.1	2.7	2.9									
SSE	.0	.6	1.5	.9	.8	.1	38	4.0	23.5	3.4	.0	2.6	2.0	6.6	.0	5.4	3.8									
S	.1	.9	3.9	1.8	1.5	.4	82	8.5	23.9	9.2	.0	13.6	5.9	5.4	.0	8.1	9.6									
SSW	.1	1.3	2.5	1.1	.7	.0	55	5.9	19.0	4.6	.0	3.2	5.9	6.0	27.3	7.4	7.7									
SW	.3	2.4	3.3	2.8	.8	.0	95	9.9	18.6	8.8	.0	10.4	9.9	9.6	9.1	11.4	11.5									
WSW	.5	1.7	4.1	2.3	1.0	.3	95	9.9	19.8	12.3	35.7	7.8	6.9	11.4	.0	7.4	8.7									
W	1.0	2.9	7.8	3.2	1.6	.2	161	16.8	19.1	15.7	21.4	22.1	9.9	19.9	.0	18.1	12.5									
WNW	.4	1.6	2.8	1.6	.6	.1	68	7.1	18.7	7.3	.0	7.1	6.9	7.8	.0	7.4	8.7									
NW	.5	1.6	4.1	1.6	.3	.0	77	8.0	16.5	7.7	.0	9.1	10.9	6.0	9.1	7.4	5.8									
NNW	.2	.8	2.0	.9	.2	.0	40	4.2	17.8	2.3	.0	5.8	4.0	4.2	.0	4.0	7.7									
VAR	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0									
CALM	.5	17.4	39.7	21.9	11.1	1.7	5	.5	20.0	.4	.0	.6	.0	1.2	.0	.7	.0									
TOT OBS	42	174	41.4	22.8	11.6	1.8	960	100.0	20.0	261	14	154	101	166	11	149	104									
TOT PCT	4.4	18.1	41.4	22.8	11.6	1.8	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	WIND DIRECTION BY SPEED AND BY HOUR											
	0-6	7-16	17-27	28-40	41+	00	03	06	09	12	15				18	21										
N	.3	2.5	2.4	.7	.4	61	6.4	19.5	8.8	14.3	3.2	5.9	5.4	.0	6.7	5.8										
NE	.2	1.1	1.9	1.0	1.0	51	5.3	25.9	4.2	14.3	3.9	6.9	5.4	.0	5.4	5.8										
E	.2	2.8	2.4	2.4	.4	79	8.2	22.8	8.4	14.3	3.9	12.9	6.6	18.2	6.7	12.5										
SE	1.3	3.0	2.3	2.3	.6	91	9.5	21.2	10.3	.0	9.1	11.9	10.8	9.1	8.1	6.7										
S	1.1	3.9	5.2	3.1	.9	137	14.3	21.9	13.8	.0	16.9	11.9	11.4	27.3	15.4	17.3										
SW	2.8	6.9	5.7	3.3	1.0	190	19.8	19.2	21.1	35.7	18.2	16.8	21.1	9.1	18.8	20.2										
W	2.9	7.7	8.0	4.3	.9	229	23.9	19.0	23.0	21.4	29.2	16.8	27.7	9.1	25.5	18.3										
NW	1.6	4.3	5.3	.9	.1	117	12.2	17.0	10.0	.0	14.9	14.9	10.2	27.3	12.8	13.5										
VAR	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0										
CALM	.5	30.9	31.9	17.4	5.3	5	.5	20.0	.4	.0	.6	.0	1.2	.0	.7	.0										
TOT OBS	105	309	319	174	53	960	100.0	20.0	261	14	154	101	166	11	149	104										
TOT PCT	10.9	32.2	33.2	18.1	5.5	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)

HJUR	1-3	4-10	11-21	WIND SPEED (KNOTS)				PCT FREQ	TOTAL OBS	
				22-33	34-47	48+	CALM			MEAN
00E03	4.4	18.5	38.9	24.0	11.6	2.2	.4	20.3	100.0	275
06E09	4.7	16.5	45.1	22.4	8.2	2.7	.4	19.6	100.0	255
12E15	2.3	15.3	41.2	23.7	14.7	1.7	1.1	21.2	100.0	177
18E21	2.6	21.3	40.3	21.3	12.6	.4	.4	19.4	100.0	253
TOT	37	174	397	219	111	17	5	20.0		960
PCT	3.9	18.1	41.4	22.8	11.6	1.8	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	OBSCD	8 &	8 &	8 &		
N	.3	.5	1.4	3.0	3.0	30	6.6			
NNE	.3	.2	.5	.3	.3	8	5.1			
NE	.3	.0	.2	1.7	1.3	13	6.6			
ENE	.0	.0	.2	1.9	1.2	12	7.9			
E	.0	.0	.5	3.3	2.2	22	7.7			
ESE	.0	.0	.3	2.1	1.4	14	7.8			
SE	.2	.0	1.0	3.8	2.9	18	7.3			
SSE	.3	.0	.9	1.9	1.9	18	6.7			
S	.2	.0	2.3	7.1	5.5	27	7.4			
SSW	.7	.2	1.2	2.6	2.7	27	6.3			
SW	1.2	1.7	1.7	5.2	5.7	57	6.1			
WSW	1.4	1.9	4.7	3.7	6.1	61	5.8			
W	2.1	2.4	7.1	8.4	11.5	115	6.1			
WNW	.7	.5	2.8	2.8	3.9	39	6.1			
NW	.7	.9	4.7	1.6	4.5	45	5.8			
NNW	.3	.5	1.7	1.6	2.4	24	6.1			
VAR	.0	.0	.0	.0	.0	0	.0			
CALM	.0	.0	.3	.5	.5	5	7.0			
TOT OBS	51	45	182	296	574	574	6.4			
TOT PCT	8.9	7.8	31.7	51.6	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION																TOTAL OBS
	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8	TOTAL					
N	.2	.2	.9	.5	.9	.5	.9	.0	.0	.0	.0	30					
NNE	.0	.0	.0	.2	.3	.2	.2	.0	.0	.0	.0	8					
NE	.0	.0	.0	.0	.9	.9	.2	.0	.0	.0	.0	13					
ENE	.3	.0	.7	.3	.3	.3	.0	.0	.0	.0	.0	12					
E	.2	.0	.0	.3	1.9	1.2	.0	.0	.0	.0	.0	22					
ESE	.0	.0	.0	.3	1.0	.3	.0	.0	.0	.0	.0	14					
SE	.3	.0	.0	.3	1.2	.5	.3	.0	.0	.0	.0	29					
SSE	.0	.0	.0	.0	1.2	.9	.2	.0	.0	.0	.0	18					
S	.5	.2	.2	.2	2.1	2.8	.2	.2	.3	.2	.5	55					
SSW	.0	.2	.0	.2	1.6	.7	.9	.3	.0	.0	.9	27					
SW	.9	.2	.0	.2	2.8	.3	1.0	.5	.7	.2	3.1	57					
WSW	.0	.2	.2	.5	2.4	1.7	1.7	.3	.5	.2	3.0	61					
W	.0	.0	.0	1.0	5.9	3.8	2.1	.3	1.4	.2	5.2	115					
WNW	.2	.0	.3	.7	2.1	1.2	.5	.0	.0	.0	1.7	39					
NW	.0	.0	.0	.5	2.3	1.7	1.0	.2	.2	.0	1.9	45					
NNW	.2	.0	.0	.3	.9	.9	.3	.2	.0	.0	1.2	24					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0					
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0					
TOT OBS	16	4	13	33	161	105	68	13	18	15	128	574					
TOT PCT	2.8	.7	2.3	5.7	28.0	18.3	11.8	2.3	3.1	2.6	22.3	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)	>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	3.4	5.2	5.9	8.3	5.9	8.3	5.9	8.3	6.0	8.4	6.0	8.4	6.0	8.4	6.0	8.4
= OR >5000	4.6	7.4	8.3	20.0	8.3	20.0	8.3	20.0	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
= OR >3500	8.8	16.7	37.5	38.0	38.0	38.0	38.0	38.0	38.5	38.5	38.5	38.5	38.5	38.5	38.5	38.5
= OR >2000	13.1	33.4	54.0	63.2	64.2	64.2	64.2	64.2	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
= OR >1000	18.6	54.0	68.0	69.5	69.5	69.5	69.5	69.5	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
= OR >600	21.5	58.3	68.0	69.5	69.5	69.5	69.5	69.5	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
= OR >300	21.9	59.2	69.5	70.2	70.2	70.2	70.2	70.2	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
= OR >150	22.2	59.9	70.2	71.3	71.3	71.3	71.3	71.3	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
= OR > 0	22.2	60.2	71.3	73.5	73.5	73.5	73.5	73.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
= OR TOTAL	129	350	414	427	427	427	427	427	440	440	440	440	440	440	440	440

TOTAL NUMBER OF OBS: 581

PCT FREQ NH <5/8: 22.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)		TOTAL								
0	1	2	3	4	5	6	7	8	OBSCD	DBS
3.6	.5	7.2	3.9	6.9	10.1	13.2	7.0	45.0	2.6	613

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TABLE 8

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

VSBY (NM)	PCP NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	.0 .0 0	.0 .0 0	.0 .0 0	.0 .1 1	.0 .0 1	.1 .0 1	.1 .0 1	.0 .0 0	.1 .3 3	.1 .0 1	.0 .1 1	.1 .0 1	.0 .1 1	.1 .0 1	.4 .0 3	.3 .1 3	.0 .0 0	.0 .0 0	11 6 17	1.6 .9 2.5
1/2<1	.1 .0 1	.0 .0 1	.0 .0 0	.0 .0 1	.1 .0 2	.3 .0 3	.1 .0 3	.1 .0 2	.4 .0 3	.3 .1 5	.6 .1 5	.3 .0 2	.4 .3 5	.4 .3 3	.0 .0 0	.0 .0 0	.0 .0 0	.0 .0 0	23 6 29	3.4 .9 4.2
1<2	.1 .3 3	.0 .0 0	.0 .0 0	.7 .0 5	.4 .0 3	.4 .0 3	.4 .0 3	.3 .1 2	.7 .1 6	.4 .0 3	.3 .1 3	.1 .0 1	.4 .0 3	.1 .0 1	.4 .1 4	.1 .0 1	.0 .0 0	.0 .0 0	34 7 41	5.0 1.0 6.0
2<5	.3 .4 5	.0 .0 0	.0 .3 2	.7 .0 5	.4 .1 5	.6 .3 9	.6 .3 9	.4 .3 7	.7 1.8 17	1.0 .7 12	.6 .7 9	.6 .6 8	.3 1.0 9	.3 .3 4	.4 .1 4	.1 .1 2	.0 .0 0	.0 .0 0	52 53 105	7.6 7.8 15.4
5<10	.3 1.2 10	.0 .6 4	.1 1.0 8	.3 .6 6	.4 .4 10	.4 1.3 10	.4 .4 6	.6 1.0 11	.3 3.5 34	1.5 2.2 18	.4 4.0 31	.9 5.3 42	2.9 8.1 75	.3 1.9 15	1.2 2.9 28	.4 1.0 10	.0 .0 0	.0 .0 0	71 250 321	10.4 36.6 47.0
10+	.0 1.6 11	.0 .4 3	.0 .7 5	.0 .3 2	.0 .4 4	.0 .4 3	.0 .4 3	.0 .4 3	.1 .6 5	.0 .9 6	.0 2.6 18	.0 2.8 19	.6 4.8 37	.0 2.6 18	.3 2.0 16	.1 2.0 15	.0 .0 0	.0 .4 3	9 161 170	1.3 23.6 24.9
TOTAL PCT	30 4.4	7 1.0	16 2.3	19 2.6	26 3.8	26 3.8	19 2.8	23 3.4	68 10.0	43 6.3	67 9.8	73 10.7	130 19.0	42 6.1	55 8.1	31 4.5	0 .0	5 .7	263 100.0	100.0

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.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	.0	.0	.0	.0	.0	.0	0	.0
	11-21	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	9	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.1	.1	.1	.1	.2	.0	.0	11	1.2
	TOTAL	0	1	2	0	1	1	0	3	3	1	2	1	2	1	4	3	0	0	22	2.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.2	.3	.1	.0	.0	.0	.0	12	1.3
	22+	.0	.0	.0	.1	.1	.0	.0	.3	.1	.2	.4	.4	.2	.2	.0	.0	.0	.0	21	2.2
	TOTAL	1	0	0	1	2	1	2	4	3	5	6	5	5	3	1	0	0	0	37	3.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	.4	.0	.0	.0	8	.8
	11-21	.0	.0	.0	.2	.3	.1	.0	.0	.3	.2	.1	.2	.4	.0	.2	.1	.0	.0	16	1.7
	22+	.4	.0	.2	.5	.0	.5	.0	.3	.5	.2	.3	.0	.1	.0	.2	.2	.0	.0	23	2.4
	TOTAL	5	1	3	7	5	6	6	9	5	8	8	2	9	1	8	4	0	0	83	8.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.7
	11-21	.4	.1	.0	.0	.0	.0	.3	.1	1.0	.2	.2	.6	.2	.3	.3	.2	.0	.0	30	3.1
	22+	.4	.0	.2	.5	.3	.3	.7	.7	.9	.8	.6	.2	.6	.0	.2	.0	.0	.0	65	6.8
	TOTAL	8	2	4	5	13	9	12	20	14	17	13	8	14	8	8	6	0	0	166	17.4
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.3	.3	.2	.0	.0	.0	.0	.3	.3	.0	.0	.1	.4	.3	.1	.0	.0	.0	11	1.2
	11-21	.5	.5	.3	.1	.2	.0	.5	1.9	1.9	.0	.9	.6	1.7	.7	2.2	.4	.0	.0	64	6.7
	22+	.6	.0	.4	.5	1.0	.4	.4	1.7	1.7	.3	1.6	2.3	2.3	.7	.7	.4	.0	.0	159	16.6
	TOTAL	14	8	9	6	13	6	13	37	21	35	45	85	22	32	11	0	0	371	38.8	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.3	.1	.2	.0	.0	.0	.0	.3	.4	.0	.0	.3	1.1	.6	.5	.2	.0	.0	15	1.6
	11-21	1.0	.1	.4	.3	.7	.2	.8	1.9	1.9	.2	1.0	.4	1.2	.6	.5	.2	.0	.0	59	6.2
	22+	.3	.3	.2	.2	.6	.2	.6	1.7	1.7	.2	.6	1.5	1.9	1.6	1.0	1.0	.0	.0	128	13.4
	TOTAL	16	5	9	5	17	5	20	9	11	27	28	44	32	24	16	0	0	277	29.0	
	TOTAL	44	17	27	24	51	28	53	82	55	94	95	159	166	67	77	40	0	5	956	100.0
	PCT	4.6	1.8	2.8	2.5	5.3	2.9	5.5	8.6	5.8	9.8	9.9	16.6	7.0	8.1	4.2	.0	.0	.5	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 OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	2.4	.6	2.4	7.3	26.7	16.4	14.5	3.0	4.2	1.8	79.4	20.6	165
06009	4.0	.7	3.4	4.7	36.2	19.5	10.1	2.0	2.0	2.7	85.2	14.8	149
12015	3.5	.7	2.1	4.2	20.3	17.5	9.8	1.4	1.4	3.5	64.3	35.7	143
18021	.8	.8	.8	6.8	26.5	18.9	12.9	3.0	5.3	3.0	78.8	21.2	132
TOT	16	4	13	34	162	106	70	14	19	16	454	135	589
PCT	2.7	.7	2.2	5.8	27.5	18.0	11.9	2.4	3.2	2.7	77.1	22.9	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	1.8	3.7	3.0	10.4	43.3	37.8	164
06009	3.4	.7	1.4	12.2	54.4	27.9	147
12015	.7	3.6	1.4	7.9	49.3	37.1	140
18021	.8	1.5	3.1	16.2	44.6	33.8	130
TOT	10	14	13	67	278	199	581
PCT	1.7	2.4	2.2	11.5	47.8	34.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	2.4	9.1	24.4	56.1	19.5	164
06009	4.1	10.2	25.2	59.9	15.0	147
12015	2.9	7.9	20.7	45.0	34.3	140
18021	.8	4.6	26.2	54.6	19.2	130
TOT	15	47	140	314	127	581
PCT	2.6	8.1	24.1	54.0	21.9	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				
45/49	.0	.0	.0	.0	.2	1.9	1.9	5.9	42	9.9		
40/44	.0	.0	.0	.5	4.3	6.1	9.5	23.2	184	43.5		
35/39	.0	.0	.0	1.4	2.4	5.7	7.6	20.6	159	37.6		
30/34	.0	.0	.0	.0	.2	2.1	1.9	4.5	37	8.7		
25/29	.0	.0	.0	.0	.0	.0	.0	.2	1	.2		
TOTAL	0	0	0	8	30	67	88	230	423	100.0		
PCT	.0	.0	.0	1.9	7.1	15.8	20.8	54.4				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
45/49	.0	.2	.9	1.2	4.3	1.2	1.7	.5	.0	.0		
40/44	2.8	2.6	7.1	5.4	4.5	9.9	6.6	4.5	.0	.0		
35/39	4.7	4.7	3.1	2.6	2.4	5.0	10.2	5.0	.0	.0		
30/34	.7	.7	.2	.7	.0	1.2	2.8	2.4	.0	.0		
25/29	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0		
TOTAL	35	35	48	42	47	73	90	53	0	0		
PCT	8.3	8.3	11.3	9.9	11.1	17.3	21.3	12.5	.0	.0		

TABLE 15

HOURL (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	47	46	45	39	32	29	28	34.0	257		
06009	48	47	45	39	31	28	27	38.6	252		
12015	48	45	43	37	30	28	28	37.1	163		
18021	48	47	45	38	31	28	27	38.2	244		
TOT	48	47	45	38	31	28	27	38.3	916		

TABLE 16

HOURL (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
00003	.0	1.4	7.2	15.1	19.4	56.8	88				
06009	.0	1.6	8.1	15.3	19.4	55.6	87				
12015	.0	5.0	2.5	22.5	30.0	40.0	84				
18021	.0	1.6	7.2	15.2	23.2	52.8	87				
TOT	0	8	30	68	92	230	87				

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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	25	29	33	37	41	45	TOT	W FOG	MO FOG
5	.0	.0	.0	.0	.0	1.0	6	.0	1.0
4	.0	.0	.0	.3	3.2	.7	25	.0	4.2
3	.0	.0	.0	.0	.8	1.3	13	.3	1.9
2	.0	.0	.0	1.3	4.0	.3	34	.2	5.6
1	.0	.0	.0	2.7	3.0	.2	35	.2	5.7
0	.0	.0	.8	5.6	3.2	.3	59	.7	9.3
-1	.0	.0	.0	3.5	3.2	.2	41	.0	6.9
-2	.0	.0	.5	9.3	1.2	.2	66	.0	11.1
-3	.0	.0	.8	4.4	1.0	.0	37	.2	6.1
-4	.0	.2	4.7	6.2	.3	.0	68	.2	11.3
-5	.0	.2	6.2	4.6	.0	.0	65	.0	11.0
-6	.0	.3	6.1	1.9	.0	.0	49	.2	8.1
-7/-8	.0	4.2	5.1	.7	.0	.0	59	.3	9.6
-9/-10	.0	2.0	1.3	.0	.0	.0	20	.0	3.4
-11/-13	1.3	.7	.3	.2	.0	.0	15	.0	2.5
-14/-16	.0	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	8	45	155	241	119	25	593	13	580
PCT	1.3	7.6	26.1	40.6	20.1	4.2	100.0	2.2	97.8

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 TABLE 18  
 PERIOD: (PRIMARY) 1963-1968  
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N					NE					TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33		34-47
<1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.1	.0	.0	.0	.0	.4	.0	.0	.0	.0
5-6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.7	1.1	.0	.0	.0	.0	.0	.7	.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	.4	.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	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	1.8	1.5	4	3	4	.0	0	3	2	2	0
PCT	.0	1.8	1.5	1.1	1.5	1.5	.0	0	1.1	.7	.7	.0

HGT	E					SE					TOTAL	
	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
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.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	.4	.0
7	.0	.0	.0	.7	.4	.0	.0	.0	.0	.7	.4	.0
8-9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	.7	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0
12	.0	.0	.0	.7	1.5	.0	.0	.0	.0	.4	.4	.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	.4	.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	.4	.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
TOTAL	.0	.0	.0	6	5	1	.0	0	1	6	6	3
PCT	.0	.0	.0	2.2	1.8	.4	.0	0	.4	2.2	2.2	1.1

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

HGT	S										TOTAL	48+	TOTAL	
	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	.0
1-2	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.0	.4	5.1	3.3	5.1	1.5	1.5	15.3	.4	1.8	7.7	9.9	3.3	23.4
PCT	.0	.4	5.1	3.3	5.1	1.5	1.5	15.3	.4	1.8	7.7	9.9	3.3	23.4

HGT	NW										TOTAL	48+	TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10	11-21	22-33				34-47
<1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.4	.7	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.2	4.7	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.4	3.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	1.8	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	.7	3.3	14.6	7.3	2.6	.7	.7	29.2	.4	1.1	8.4	3.3	.4	13.5
PCT	.7	3.3	14.6	7.3	2.6	.7	.7	29.2	.4	1.1	8.4	3.3	.4	13.5

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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	0-3	4-10	11-21	22-33	
<1	1.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	8
1-2	.7	3.2	8.3	.0	.0	.0	.0	.0	.0	.0	34
3-4	.0	3.6	14.7	2.9	.0	.0	.0	.0	.0	.0	59
5-6	.4	.4	7.6	4.3	1.4	.0	.0	.0	.0	.0	39
7	.0	.0	4.3	6.8	1.8	.7	.0	.0	.0	.0	38
8-9	.0	.0	.7	3.2	2.2	.0	.0	.0	.0	.0	17
10-11	.0	.0	1.1	5.4	5.4	1.1	.0	.0	.0	.0	36
12	.0	.0	.7	1.8	2.2	.0	.0	.0	.0	.0	13
13-16	.0	.0	.0	2.9	3.2	1.4	.0	.0	.0	.0	23
17-19	.0	.0	.0	.7	.4	.0	.0	.0	.0	.0	3
20-22	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	3
23-25	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2
26-32	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	3
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
TOTAL	8	23	106	82	48	11	278				
PCT	2.9	8.3	38.1	29.5	17.3	4.0	100.0				

TABLE 19

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	.2	7.0	8.0	3.4	2.0	.0	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	3	
6-7	.0	.4	3.0	4.6	4.4	1.4	1.4	.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	6
8-9	.0	.4	3.0	.6	3.0	2.6	7.2	3.8	.6	.6	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	117	9
10-11	.0	.0	.0	.0	.0	.2	.0	.2	.8	.6	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	13	16
12-13	.0	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	5	17
>13	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	19
INDET	32.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	160	0
TOTAL	160	39	70	43	47	21	51	31	6	6	7	4	3	0	0	0	0	0	0	0	0	497	5
PCT	32.2	7.8	14.1	8.7	9.5	4.2	10.3	3.0	6.2	1.2	1.4	.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1943-1969  
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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	BLWG	
N	.2	.0	.2	.0	2.8	.0	.0	3.1	17	.0	.0	.0	.0	3.3	35
NNE	.2	.0	.0	.0	.6	.0	.0	.7	4	.0	.0	.0	.0	2.9	20
NE	1.1	.2	.2	.0	3.3	.0	.2	4.6	25	.0	.0	.0	.0	4.6	50
ENE	.2	.0	.4	.0	.7	.0	.0	1.3	7	.0	.0	.0	.0	1.8	17
E	1.5	.0	1.3	.0	2.8	.0	.0	5.1	28	.0	.2	.0	.0	2.4	42
ESE	.6	.2	.0	.0	1.5	.0	.0	2.0	11	.0	.0	.0	.0	2.0	22
SE	.2	.2	1.3	.0	2.2	.0	.0	3.9	21	.0	.0	.0	.2	4.2	45
SSE	.4	.0	.6	.0	.4	.0	.0	1.3	7	.0	.4	.0	.0	3.5	28
S	.9	.4	.2	.0	.7	.0	.0	2.2	12	.0	.4	.0	.0	4.8	40
SSW	.2	.0	.4	.0	.4	.0	.0	.9	5	.0	.7	.0	.0	5.3	38
SW	.0	.0	.0	.0	.6	.0	.2	.7	4	.0	.0	.0	.0	6.4	39
WSW	.0	.0	.0	.0	1.1	.0	.0	1.3	7	.0	.0	.0	.0	5.9	39
W	.4	.4	.7	.0	2.2	.0	.0	3.3	18	.0	.0	.0	.0	7.9	61
WNW	.0	.2	.0	.0	.4	.0	.2	.7	4	.0	.0	.0	.0	3.5	23
NW	.2	.0	.2	.0	2.0	.0	.0	2.4	13	.0	.0	.0	.0	2.6	27
NNW	.2	.0	.2	.0	.6	.0	.0	.2	5	.0	.0	.0	.0	1.5	13
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	1.1	6
TOT OBS	33	9	30	0	120	0	4	.0	188	0	9	0	1	347	545
TOT PCT	6.1	1.7	5.5	.0	22.0	.0	.7	34.5	100.0	.0	1.7	.0	.2	63.7	100.0

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT PCPN AT OB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA				TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FG	SMOKE	DUST	BLWG	
0000	2.1	2.1	3.5	.0	24.6	.0	1.4	32.4	46	.0	1.4	.0	.0	66.2	142
0600	9.9	2.0	6.0	.0	26.5	.0	.0	42.4	64	.0	2.6	.0	.0	55.0	151
1200	4.5	.9	7.1	.0	10.7	.0	1.8	22.3	25	.0	1.8	.0	.0	75.9	112
1800	7.3	1.3	7.3	.0	22.0	.0	.0	37.3	56	.0	1.3	.0	.7	60.7	150
TOT	34	9	33	0	120	0	4	191	191	0	10	0	1	353	555
PCT	6.1	1.6	5.9	.0	21.6	.0	.7	34.4	100.0	.0	1.8	.0	.2	63.6	100.0

DECEMBER

PERIOD: (PRIMARY) 1943-1969  
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TABLE 2

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 SPD	00	03	06	09	12	15	18	21
N	1.1	2.5	2.3	1.1	.4	.0	59	7.5	13.4	9.3	20.0	7.3	7.8	6.5	.0	4.8	7.8
NNE	.0	.6	1.4	1.0	.1	.0	25	3.2	18.6	3.7	.0	4.1	1.1	4.5	.0	4.0	.0
NE	.1	5.8	3.9	1.3	.3	.0	90	11.4	13.1	9.7	.0	7.3	21.1	6.5	.0	8.9	21.6
ENE	.0	.8	1.5	.6	.3	.1	26	3.3	19.2	2.8	40.0	3.3	1.1	2.4	50.0	3.2	3.9
E	.1	1.5	2.9	2.8	.6	.0	63	8.0	19.9	10.2	.0	5.7	10.0	7.3	.0	4.0	10.8
ESE	.1	1.0	1.4	1.5	.0	.0	32	4.1	17.1	2.3	.0	4.9	4.4	4.8	.0	4.8	4.9
SE	.1	1.8	3.3	1.6	.4	.0	57	7.2	17.9	6.9	.0	3.7	5.6	4.0	.0	11.3	10.8
SSE	.0	1.0	1.3	1.1	.6	.1	33	4.2	22.0	5.1	.0	7.3	1.1	5.6	.0	3.2	1.0
S	.3	1.8	3.4	1.1	.5	.0	56	7.1	16.8	6.5	.0	8.9	6.7	8.9	.0	9.7	2.0
SSW	.3	.9	3.0	1.3	.1	.0	44	5.6	16.7	4.2	.0	10.6	2.2	8.1	.0	6.5	2.0
SW	.0	1.3	3.9	.8	.1	.0	48	6.1	15.9	6.0	20.0	6.5	3.3	8.9	.0	8.9	1.0
WSW	.1	1.4	3.2	1.5	.6	.0	54	6.9	18.9	7.9	.0	6.5	3.3	5.6	.0	7.3	8.8
W	.6	2.8	3.4	3.0	1.0	.0	86	10.9	17.7	10.6	.0	8.1	11.1	14.5	25.0	8.9	12.7
WNW	.3	1.6	1.1	.9	.4	.0	34	4.3	15.8	3.2	.0	5.7	5.6	1.6	.0	7.3	3.9
NW	1.3	2.0	1.8	1.1	.0	.0	49	6.2	12.2	4.6	20.0	4.1	12.2	6.5	.0	3.2	6.9
NNW	.0	.5	1.3	1.1	.3	.0	25	3.2	20.1	4.6	.0	2.4	3.3	1.6	.0	4.0	2.0
VAR	.1	.0	.0	.0	.0	.0	1	.1	2.0	.5	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.0	.0	.0	.0	.0	6	.8	.0	.5	.0	1.6	.0	2.4	.0	.0	.0
TOT OBS	42	216	309	174	45	2	788	100.0	16.6	216	5	123	90	24	4	124	102
TOT PCT	5.3	27.4	39.2	22.1	5.7	.3				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 SPD	00	03	06	09	12	15	18	21	
N	2.8	3.3	3.4	1.1	.0	84	10.7	15.0	13.0	20.0	11.4	8.9	11.3	.0	8.9	7.8	
NE	2.4	5.1	3.2	.8	.3	116	14.7	14.4	12.5	40.0	10.6	22.2	8.9	50.0	12.1	25.5	
E	1.0	4.6	4.4	1.8	.3	95	12.1	19.0	12.5	.0	10.6	14.4	12.1	.0	8.9	15.7	
SE	.6	4.7	3.6	2.3	.3	90	11.4	19.4	12.0	.0	13.0	6.7	9.7	.0	14.5	11.8	
S	1.8	4.6	4.7	1.5	.1	100	12.7	16.8	10.6	.0	19.5	8.9	16.9	.0	16.1	3.9	
SW	.9	6.1	4.6	.9	.5	102	12.9	17.5	13.9	20.0	13.0	6.7	14.5	25.0	16.1	9.8	
W	3.3	4.8	4.4	2.7	.0	140	15.2	17.2	13.9	.0	13.8	16.7	16.1	16.1	16.1	16.7	
NW	2.7	2.8	2.9	1.0	.0	74	9.4	14.9	10.6	20.0	6.5	15.6	8.1	.0	7.3	8.8	
VAR	.1	.0	.0	.0	.0	1	.1	2.0	.5	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.0	.0	6	.8	.0	.5	.0	1.6	.0	2.4	.0	.0	.0	
TOT OBS	129	307	246	95	11	788	100.0	16.6	216	5	123	90	124	4	124	102	
TOT PCT	16.4	39.0	31.2	12.1	1.4				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)								PCT		TOTAL OBS
	1-3	4-10	11-21	22-33	34-47	48+	CALM	MEAN	FREQ		
00003	3.6	26.8	40.5	22.3	5.9	.5	.5	16.9	100.0	220	
06009	7.0	28.2	38.0	21.6	3.8	.5	.9	15.8	100.0	213	
12015	.0	20.3	44.5	24.2	9.6	.0	2.3	18.5	100.0	128	
18021	5.3	31.4	36.3	21.2	5.8	.0	.0	16.1	100.0	226	
TOT	35	216	309	174	45	2	6	16.6		787	
PCT	4.4	27.4	39.3	22.1	5.7	.3	.8		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &	8 &	8 &	8 &	8 &		
N	.5	.5	.2	2.5	1.6	22	6.1			
MNE	.2	.0	1.8	2.0	2.0	18	6.9			
NE	1.1	.2	1.1	4.8	3.2	32	6.6			
ENE	.0	.2	.7	1.8	1.2	12	7.3			
E	.2	.2	.2	5.0	2.5	25	7.5			
ESE	.5	.0	.2	3.6	1.9	19	7.1			
SE	.0	.2	.9	5.9	3.1	31	7.6			
SSE	.2	.0	.5	5.5	2.7	27	7.6			
S	.0	.5	1.6	7.5	4.2	42	7.4			
SSW	.5	.5	1.0	5.0	3.3	33	6.9			
SW	.0	.9	3.0	5.0	3.9	39	6.9			
WSW	.7	1.6	3.2	2.0	3.3	33	5.5			
W	.2	1.4	2.3	5.9	4.3	43	6.7			
WNW	.2	.7	2.3	1.8	2.2	22	6.1			
NW	.7	.5	2.3	1.6	2.2	22	5.8			
NNW	.2	.7	.9	1.4	1.4	14	5.9			
VAR	.0	.0	.0	.0	.0	0	.0			
CALM	.0	.2	.7	.5	.5	6	6.0			
TOT OBS	23	36	113	268	440		6.8			
TOT PCT	5.2	8.2	25.7	60.9	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)										TOTAL OBS				
	000	149	150	299	300	599	600	999	1000	2000		3500	5000	8000+	NH <5/8
N	.0	.0	.0	.0	.2	.7	1.6	.9	.0	.0	.0	.0	.0	1.4	22
MNE	.0	.0	.0	.0	.0	.0	1.1	2.0	.0	.0	.0	.0	.0	.7	18
NE	.0	.0	.0	.0	.0	.5	2.3	2.3	.0	.0	.0	.0	.5	1.8	32
ENE	.0	.0	.0	.0	.0	.0	.9	1.1	.0	.0	.0	.0	.0	.5	12
E	.0	.0	.0	.0	.2	.2	3.2	.7	.0	.0	.0	.0	.0	1.4	25
ESE	.0	.0	.0	.0	.0	.2	1.4	1.1	.0	.0	.0	.0	.5	.5	19
SE	.2	.7	.0	.0	.0	.5	3.6	1.1	.0	.0	.0	.0	.2	.7	31
SSE	.7	.0	.0	.0	.2	.5	3.2	.9	.0	.0	.0	.0	.0	.2	27
S	.7	.0	.0	.0	.0	.9	2.5	2.5	.0	.0	.0	.0	.9	1.8	42
SSW	.9	.0	.0	.0	.0	.2	3.0	1.8	.0	.0	.0	.0	.0	1.4	33
SW	.0	.0	.0	.0	.0	.5	2.5	2.5	.0	.0	.0	.0	.2	2.0	39
WSW	.2	.2	.0	.0	.0	.5	1.4	1.4	.0	.0	.0	.0	.5	3.4	33
W	.0	.0	.2	.0	.0	1.4	2.3	3.0	.0	.0	.0	.0	.2	2.5	43
WNW	.0	.0	.0	.0	.0	.9	2.3	.7	.0	.0	.0	.0	.0	1.1	22
NW	.0	.0	.0	.0	.0	.9	.7	1.4	.0	.0	.0	.0	.2	1.1	22
NNW	.0	.0	.0	.0	.2	.2	.7	.9	.0	.0	.0	.0	.0	.9	14
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOT OBS	12	2.7	1	7	35	145	109	15	3	4	13	96	440		
TOT PCT	5.2	8.2	25.7	60.9	100.0										



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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 NO PCP TOTAL	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	.0 .0 0	.0 .0 0	.0 .0 0	.2 .0 1	.0 .0 0	.2 .0 1	.2 .0 1	.0 .0 0	.0 .2 1	.2 .4 3	.0 .7 4	.0 .0 0	.2 .0 1	.2 .0 1	.0 .0 0	.2 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	7 7 14	1.3 1.3 2.6
1/2<1	.4 .0 2	.6 .0 2	.4 .0 2	.7 .0 4	.0 .0 3	.6 .0 3	.6 .0 3	.0 .0 0	.2 .0 1	.2 .0 1	.2 .0 1	.0 .0 0	.2 .0 1	1.1 .0 6	.0 .0 0	.2 .0 1	.0 .2 1	.0 .0 0	.0 .0 0	28 1 29	5.2 .2 5.4
1<2	.9 .0 5	.0 .0 0	1.1 .0 6	.0 .0 0	1.3 .0 7	.6 .0 3	.6 .0 3	.6 .6 6	.2 .0 1	.0 .0 0	.2 .0 1	.0 .0 0	.0 .0 0	.0 .0 0	.4 .2 3	1.3 .0 7	.4 .0 2	.0 .0 0	.0 .0 0	37 4 41	6.9 .7 7.6
2<5	.2 .0 1	.0 .0 0	1.1 .4 8	.4 .0 2	2.0 .2 12	.0 .0 0	.0 .0 0	1.3 1.1 13	.6 .9 8	.7 .2 5	.4 .7 6	.0 .7 4	.6 .6 6	.9 .7 9	.0 .2 1	.4 .4 4	.0 .2 1	.0 .0 0	.0 .0 0	46 34 80	8.5 6.3 14.8
5<10	1.7 1.1 15	.2 1.5 9	1.7 2.2 21	.2 1.3 8	1.1 .2 7	1.1 .7 7	.7 .6 7	1.3 .9 12	.4 1.3 9	.9 3.0 21	.2 1.5 9	.6 3.1 20	1.9 1.9 12	.9 3.1 22	.0 2.0 11	.2 .6 4	.4 .2 3	.0 .0 0	.0 .2 1	58 133 191	10.7 24.6 35.4
10+	.0 2.2 12	.0 1.5 8	.2 2.0 12	.0 .6 3	2.0 1.1 7	.0 1.5 8	.0 1.5 8	.4 1.9 12	.0 1.5 8	.2 1.7 10	.0 3.1 17	.2 2.6 15	.0 3.5 19	.0 3.9 21	.4 .9 7	.4 1.7 11	.2 .9 6	.0 .0 0	.0 .9 5	10 175 185	1.9 32.4 34.3
TOTAL PCT	35 6.5	20 3.7	50 9.3	17 3.1	41 7.6	22 4.1	22 4.1	43 8.0	28 5.2	40 7.4	38 7.0	39 7.2	59 10.9	59 10.9	22 4.1	28 5.2	13 2.4	0 .0	6 1.1	540 100.0	100.0

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TABLE 9

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

VSBY (NM)	SPD KTS	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
<1/2	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1
	4-10	.0	.0	.1	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	5	.6
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.4	.0	.0	.1	.1	.0	.0	.0	.0	.0	7	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	.5
	TOTAL	1	0	1	1	1	1	1	4	3	4	1	1	1	0	1	0	0	0	17	2.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
	4-10	.1	.0	.3	.0	.0	.1	.1	.1	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	10	1.3
	11-21	.0	.1	.0	.4	.4	.4	.0	.3	.3	.1	.0	.3	.3	.1	.1	.1	.0	.0	20	2.6
	22+	.1	.3	.0	.3	.1	.0	.1	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	10	1.3
	TOTAL	2	3	2	5	4	4	1	2	3	1	0	3	6	2	1	1	0	0	40	5.1
1<2	0-3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	7	.9
	4-10	.4	.0	.6	.1	.1	.1	.6	.0	.1	.1	.0	.1	.4	.3	.1	.1	.0	.0	26	3.3
	11-21	.0	.0	.1	.0	.3	.0	.3	.1	.1	.1	.0	.0	.1	.3	.3	.0	.0	.0	13	1.7
	22+	.1	.0	.1	.0	.6	.3	.4	.1	.1	.0	.0	.1	.1	.3	.3	.3	.0	.0	20	2.6
	TOTAL	7	0	8	2	8	3	10	1	3	2	0	1	5	5	8	3	0	0	66	8.5
2<5	0-3	.3	.0	.0	.0	.1	.1	.0	.0	.0	.3	.0	.1	.1	.1	.4	.0	.0	.0	12	1.5
	4-10	.3	.0	1.5	.0	.6	.0	.3	.1	.1	.1	.0	.4	.6	.4	.5	.0	.0	.0	43	5.5
	11-21	.0	.0	.4	.1	.3	.0	1.2	.3	.4	.4	.5	.4	.5	.0	.1	.1	.0	.0	38	4.9
	22+	.0	.0	.5	.4	1.0	.1	.8	.5	.4	.1	.1	.3	.6	.0	.0	.3	.0	.0	41	5.2
	TOTAL	4	0	19	4	19	3	17	10	5	9	5	9	15	4	8	3	0	0	134	17.2
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.5	.0	.3	.0	.0	.1	8	1.0
	4-10	.6	.5	1.5	.3	.4	.3	.3	.6	1.2	.1	.8	.3	.6	.4	.4	.1	.0	.0	62	7.9
	11-21	1.2	.5	1.8	.5	.6	.6	.9	.6	1.5	.6	1.8	.8	1.4	.4	.3	.4	.0	.0	106	13.6
	22+	.6	.4	.8	.3	.5	.3	.4	.5	.8	.5	.3	1.0	1.3	1.0	.3	.3	.0	.0	74	9.5
	TOTAL	19	11	32	8	12	9	12	11	28	10	22	16	30	14	9	6	0	1	250	32.0
10+	0-3	.4	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.3	.0	.1	.6	14	1.8
	4-10	1.2	.1	1.8	.4	.4	.4	.3	.4	1.1	.4	.5	.5	1.0	.5	.9	.3	.0	.0	68	8.7
	11-21	1.2	.8	1.7	.3	1.0	.3	1.0	.8	1.3	1.4	1.7	1.7	1.0	.4	1.0	.5	.0	.0	124	15.9
	22+	.6	.5	.1	.1	.9	.3	.5	.3	.3	.5	.4	.9	1.4	.0	.6	.6	.0	.0	68	8.7
	TOTAL	26	11	28	6	18	12	15	8	14	18	20	24	27	8	22	11	1	5	274	35.1
	TOTAL	59	25	90	26	62	32	55	33	55	44	48	54	84	33	49	24	1	6	781	100.0
	PCT	7.6	3.2	11.5	3.3	7.9	4.1	7.0	4.2	7.2	5.6	6.1	6.9	10.8	4.2	6.3	3.1	.1	.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1907-1969

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
00003	2.5	.0	3.4	13.4	24.4	25.2	4.2	.8	1.7	3.4	79.0	21.0
06009	2.5	.0	.8	5.8	40.8	26.7	2.5	.8	.0	2.5	82.5	17.5
12015	1.9	1.0	2.9	9.5	23.8	25.7	1.9	.0	.0	4.8	71.4	28.6
18021	4.6	.0	.0	4.6	41.7	20.4	4.6	.9	1.9	.9	79.6	20.4
TOT	13	1	8	38	148	111	15	3	4	13	354	98
PCT	2.9	.2	1.8	8.4	32.7	24.6	3.3	.7	.9	2.9	78.3	21.7
												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
00003	.8	2.5	4.2	8.5	39.8	44.1	118
06009	3.4	.8	3.4	16.1	32.2	44.1	118
12015	1.9	2.9	3.9	6.8	33.0	51.5	103
18021	2.8	.9	.9	13.9	35.2	46.3	108
TOT	10	8	14	51	157	207	447
PCT	2.2	1.8	3.1	11.4	35.1	46.3	100.0

TABLE 12

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

HOUR (GMT)	< 150 < 50YD	< 600 < 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	2.5	5.9	26.3	54.2	19.5
06009	2.5	5.1	28.0	55.9	16.1
12015	1.9	7.8	24.3	50.5	25.2
18021	4.6	5.6	23.1	58.3	18.5
TOT	13	27	114	245	88
PCT	2.9	6.0	25.5	54.8	19.7
					100.0

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PERIOD: (PRIMARY) 1943-1969  
(OVER-ALL) 1907-1969

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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				
40/44	.0	.0	.0	.3	.5	1.6	4.3	4.8	4.3	4.8	43	11.4
35/39	.0	.0	.0	1.3	4.3	9.8	12.2	21.3	18.4	48.9	184	48.9
30/34	.0	.0	.0	.5	4.0	8.2	8.8	15.4	13.9	37.0	139	37.0
25/29	.0	.0	.0	.0	.0	.0	.3	2.4	10	2.7	10	2.7
TOTAL	0	0	0	8	33	74	96	165	376	100.0	376	100.0
PCT	.0	.0	.0	2.1	8.8	19.7	25.5	43.9				

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP												
N	NE	E	SE	S	SW	W	NW	VAR	CALM			
.5	1.6	2.7	1.6	1.1	1.6	1.3	1.1	0	.0			
5.3	5.9	8.8	5.9	4.8	5.6	6.6	5.9	0	.3			
5.6	11.2	1.3	.8	1.3	3.2	7.4	5.9	.3	.0			
.3	1.1	.3	.0	.0	.5	.5	.0	.0	.0			
44	74	49	31	27	41	60	48	1	1			
11.7	19.7	13.0	8.2	7.2	10.9	16.0	12.8	.3	.3			

TABLE 15

HOUR (GMT)	MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR										TOTAL DBS
	MAX	99%	95%	50%	5%	1%	MIN	MEAN			
00003	43	42	41	36	30	29	28	35.7	206		
06009	45	44	42	35	28	27	27	35.2	204		
12015	42	41	40	35	30	28	28	34.7	118		
18021	46	43	41	35	28	27	27	34.9	216		
TOT	46	42	41	35	30	27	27	35.2	744		

TABLE 16

HOUR (GMT)	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR										TOTAL DBS
	0-29	30-59	60-69	70-79	80-89	90-100	MEAN				
00003	.0	.0	10.3	19.0	26.7	44.0	85				
06009	.0	5.5	9.1	20.9	22.7	41.8	84				
12015	.0	5.4	8.1	18.9	29.7	37.8	84				
18021	.0	.0	6.8	19.7	24.8	48.7	86				
TOT	0	8	33	75	96	168	85				

PERIOD: (PRIMARY) 1943-1969  
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TABLE 17

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

AIR-SEA TMP DIF	25	29	33	37	41	TOT	M	WD
	28	32	36	40	44		FUG	FDG
4	.0	.0	.0	.2	.2	2	.0	.4
3	.0	.0	.0	.2	.7	4	.0	.9
2	.0	.0	.0	1.6	1.1	12	.2	2.5
1	.0	.0	.4	4.3	1.1	26	.0	5.8
0	.0	.0	1.1	3.4	.7	23	.2	4.9
-1	.0	.0	3.1	5.6	.7	42	.2	9.2
-2	.0	.0	14.1	5.6	.4	90	.4	19.7
-3	.0	.2	5.2	2.0	.0	33	.7	6.7
-4	.0	3.8	5.8	1.3	.0	49	.2	10.8
-5	.0	2.2	7.0	.4	.0	43	.0	9.6
-6	.0	1.1	2.0	.4	.0	16	.0	3.6
-7/-8	.0	4.7	4.0	.9	.0	43	.0	9.6
-9/-10	2.2	7.0	.9	.0	.0	45	.2	9.9
-11/-13	2.7	1.1	.2	.0	.0	18	.0	4.0
TOTAL	22	90	196	116	22	446	10	436
PCT	4.9	20.2	43.9	26.0	4.9	100.0	2.2	97.8

PERIOD: (PRIMARY) 1963-1969  
 (OVER-ALL) 1963-1969  
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 TABLE 18  
 AREA 0010 ATTU  
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N										NE		TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47		48+
<1	.0	1.1	.0	.0	.0	.0	2	.0	.0	.0	.0	.0	.0	0
1-2	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
3-4	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.5	.0	.0	1
5-6	.0	.0	1.1	.0	.0	.0	2	1.1	2.1	.0	.0	.0	.0	6
7	.0	.0	1.1	.5	.0	.0	3	.0	.0	.0	.0	.0	.0	0
8-9	.0	.0	1.6	1.1	.5	.0	6	.0	1.1	1.1	.0	.0	.0	4
10-11	.0	.0	1.6	1.5	.0	.0	4	.0	1.1	.5	.0	.0	.0	3
12	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
13-16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.5	.0	1
17-19	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	1.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	2	10	4	1	.0	17	.0	2	8	4	1	.0	15
PCT	.0	1.1	5.3	2.1	.5	.0	9.0	.0	1.1	4.3	2.1	.5	.0	8.0

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

HGT	E										SE		TOTAL	
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47		48+
<1	.0	.5	.0	.0	.0	.0	1	.0	.5	.0	.0	.0	.0	1
1-2	.0	.0	.5	.0	.0	.0	1	.0	2.7	.0	.0	.0	.0	5
3-4	.0	.0	2.1	.0	.0	.0	4	.0	.0	1.1	.0	.0	.0	2
5-6	.0	.0	.5	.0	.0	.0	1	.0	.0	2.1	.5	.5	.0	6
7	.0	.0	.0	1.6	.0	.0	3	.0	.0	1.1	1.1	1.6	.0	7
8-9	.0	.0	.0	.0	.0	.0	0	.0	.0	.5	.0	.5	.0	2
10-11	.0	.0	.5	1.1	.0	.0	3	.0	.0	.5	.0	.5	.0	1
13-16	.0	.0	.5	2.7	.0	.0	1	.0	.0	.5	.0	.5	.0	2
17-19	.0	.0	.0	.0	.0	.0	6	.0	2.1	2.1	.0	.0	.0	8
20-22	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
26-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
87+	.0	.0	.9	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0
TOTAL	.0	1	9	10	0	.0	20	.0	6	14	8	6	.0	34
PCT	.0	.5	4.8	5.3	.0	.0	10.6	.0	3.2	7.4	4.3	3.2	.0	18.1

PERIOD: (PRIMARY) DECEMBER AREA 0010 ATTU  
(OVER-ALL) 1963-1969 TABLE 18 51-55N 172-180E

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

HGT	S					SW					48+ TOTAL	
	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	.0	.0	.0	.0	.0	0
1-2	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
3-4	.0	1.1	4.3	.0	.0	.0	.0	3.2	.5	.0	.0	0
5-6	.0	.0	3.7	.5	.5	.0	.5	1.6	.5	.0	.0	7
7	.0	.0	1.1	.0	.0	.0	.0	.5	.0	.0	.0	5
8-9	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1
10-11	.0	.0	2.1	1.1	.0	.0	.0	1.6	.0	.0	.0	3
13-16	.0	.0	.0	1.1	.5	.0	.0	.0	.0	.0	.0	3
17-19	.0	.0	.0	.5	.0	.0	.0	1.1	.5	.0	.0	0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.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
TOTAL	0	7	21	6	2	0	1	18	3	2	0	24
PCT	.0	3.7	11.2	3.2	1.1	.0	.5	9.6	1.6	1.1	.0	12.8

HGT	W					NW					48+ TOTAL	GRAND TOTAL	
	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	5
1-2	.0	.5	1.6	.5	.0	.0	.5	.0	.0	.0	.0	1	11
3-4	.0	.5	1.1	.5	.0	.0	.5	.0	.5	.0	.0	1	30
5-6	.0	.5	1.1	.5	.0	.0	.5	1.1	.5	.0	.0	4	37
7	.0	.5	.5	.0	.0	.0	.5	.0	1.6	.0	.0	3	21
8-9	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	0	17
10-11	.0	.0	1.1	1.6	1.6	.0	.0	.0	1.1	.0	.0	2	30
12	.0	.5	.5	.5	.5	.0	.0	.5	.5	.0	.0	1	10
13-16	.0	.5	.0	1.1	.5	.0	.0	.5	.5	.0	.0	2	25
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
TOTAL	0	4	10	9	5	0	2	5	7	0	0	14	188
PCT	.0	2.1	5.3	4.8	2.7	.0	1.1	2.7	3.7	.0	.0	7.4	100.0



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TABLE 1

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FG MD	SMOKE	HAZE	DUST	BLWG	
N	.4	*	.4	.0	.6	*	*	1.4	217	.0	.8	*	.0	4.3	1024	
NNE	.3	*	.2	.0	.3	.0	.0	.8	123	.0	.4	*	*	2.5	575	
NE	.4	.1	.2	.0	.6	.0	*	1.3	203	*	.8	*	*	3.0	810	
ENE	.4	*	.4	.0	.2	.0	*	1.0	165	*	.5	.1	.0	2.3	627	
E	.8	.1	.7	*	.4	*	*	2.0	310	.0	1.0	.1	.0	3.7	1063	
ESE	.6	*	.5	.0	.3	.0	.0	1.3	210	.0	.8	*	.0	2.3	705	
SE	1.0	*	.5	.0	.2	.0	*	1.8	284	.0	1.1	.1	*	2.4	843	
SSE	.7	*	.4	.0	.1	.0	.0	1.2	194	.0	1.1	*	*	2.0	692	
S	1.1	.1	.9	.0	.2	.0	.0	2.3	360	.0	2.0	*	*	4.0	1336	
SSW	.7	*	.7	.0	.1	.0	.0	1.4	221	.0	1.2	.1	*	3.1	905	
SW	.8	.1	.7	.0	.2	.0	*	1.7	273	.0	2.2	.2	.0	4.6	1367	
WSW	.3	.1	.4	.0	.2	.0	*	.9	148	.0	1.2	*	.0	5.0	1124	
W	.4	.1	.6	*	.4	.0	*	1.5	244	.0	1.5	.1	*	7.7	1704	
WNW	.2	.1	.3	.0	.3	.0	*	.8	122	.0	.5	*	*	4.1	860	
NW	.2	.1	.2	.0	.5	*	*	1.0	156	.0	.6	*	*	4.0	886	
NNW	.2	*	.2	.0	.3	.0	.0	.6	102	.0	.5	*	*	3.3	707	
VAP	.0	.0	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	0	0	
CALM	.1	*	.2	.0	*	.0	.0	.3	52	.0	.8	.0	.0	2.5	572	
TOT OBS	1361	141	1177	2	761	5	18	.3	3384	3	2648	146	13	9606	15800	
TOT PCT	8.6	.9	7.4	*	4.8	*	.1	21.4	*	*	16.8	.9	.1	60.8	100.0	

TABLE 2

PERCENTAGE FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	RAIN	RAIN SHWR	DRZL	PRECIPITATION TYPE			HAIL	PCT FREQ PCPN AT DB TIME	TOTAL PCPN OBS	THDR LTNG	OTHER WEATHER PHENOMENA					TOTAL OBS
				FRZG PCPN	SNOW	OTHER FRZN PCPN					FG MD	SMOKE	HAZE	DUST	BLWG	
00003	7.8	.6	5.7	.0	5.7	*	.2	19.6	844	*	18.0	.8	.1	61.5	4310	
06009	6.6	1.1	7.5	.0	5.4	*	.1	22.2	893	.0	16.8	1.4	.1	59.5	4025	
12015	9.0	.9	8.3	*	3.2	.0	.1	21.0	766	.0	12.6	.4	*	65.9	3644	
18021	8.8	1.0	8.3	*	4.9	*	*	22.6	911	*	18.9	1.1	.1	57.2	4026	
TOT	1366	144	1186	2	778	5	18	21.3	3414	3	2676	148	13	9751	16005	
PCT	8.5	.9	7.4	*	4.9	*	.1	21.3	*	*	16.7	.9	.1	60.9	100.0	

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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	.5	2.3	2.7	1.1	.2	*	1447	6.8	14.4	7.6	6.0	7.2	7.1	6.3	5.9	6.0	7.1
NNE	.2	1.2	1.4	.8	.2	*	795	3.8	16.0	3.5	4.2	4.2	3.5	4.1	2.5	4.2	3.4
NE	.4	2.2	2.0	.9	.2	*	1195	5.7	13.8	6.2	4.0	4.9	6.5	5.0	4.7	5.1	7.2
ENE	.1	1.1	1.4	.8	.2	*	764	3.6	16.9	3.0	4.1	3.9	3.8	3.9	4.4	3.7	3.3
E	.4	2.4	2.5	1.3	.3	*	1467	6.9	15.2	7.3	7.5	5.7	8.0	6.2	7.8	6.4	7.8
ESE	.2	1.4	1.6	.7	.2	*	855	4.0	15.3	3.7	5.4	4.0	4.1	4.7	4.9	3.9	3.3
SE	.5	1.6	2.3	.9	.2	*	1153	5.5	14.8	6.0	4.9	4.9	6.5	5.0	5.5	4.5	6.0
SSE	.2	1.1	1.7	.7	.2	*	814	3.9	15.9	3.6	4.2	4.2	3.6	4.7	4.2	4.2	2.6
S	.6	2.6	3.2	1.1	.4	*	1675	7.9	14.7	8.1	8.3	5.1	7.7	7.4	6.6	8.6	7.9
SSW	.2	1.7	2.4	.9	.2	*	1152	5.4	14.9	5.2	5.1	5.7	5.2	5.5	7.9	5.6	5.0
SW	.7	3.3	3.7	1.2	.3	*	1938	9.2	13.5	8.8	10.2	8.1	11.3	8.5	10.4	6.1	10.5
WSW	.2	2.2	2.9	1.1	.2	*	1403	6.6	15.4	6.5	6.6	7.3	5.1	8.0	7.8	7.0	5.0
W	.7	3.4	4.6	1.5	.4	*	2247	10.6	14.7	11.0	9.2	11.4	9.6	10.8	9.2	11.6	9.7
WNW	.2	1.8	2.2	.9	.2	*	1122	5.3	13.7	5.0	8.0	5.7	4.1	5.5	5.2	6.3	4.1
NW	.5	2.3	2.8	.8	.2	*	1379	6.5	14.5	6.6	5.9	6.6	7.3	5.3	6.6	5.9	8.1
NNW	.2	1.5	2.0	.7	.1	*	955	4.5	14.6	4.0	4.6	4.9	4.0	5.0	4.8	5.2	4.2
VAR	#	.0	.0	.0	.0	.0	1	#	2.0	#	.0	.0	.0	.0	.0	.0	.0
CALM	3.7	68.4	82.7	32.4	73.9	68	776	3.7	.0	4.0	1.9	3.5	2.8	4.0	1.6	3.8	4.8
TOT OBS	2036	32.2	39.2	15.2	3.5	.3	21138	100.0	14.2	5035	904	3099	2480	3180	912	3068	2460
TOT PCT	9.6	32.2	39.2	15.2	3.5	.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)										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	2.1	4.6	2.8	1.0	.1	2242	10.6	15.0	11.0	10.2	11.4	10.5	10.4	8.4	10.2	10.5
NE	1.9	4.0	2.4	.8	.2	1959	9.3	15.0	9.2	8.1	8.8	10.3	8.9	9.1	8.8	10.5
E	2.1	4.8	2.8	1.2	.2	2322	11.0	15.2	11.0	12.9	9.7	12.1	10.8	12.7	10.3	11.2
SE	1.7	4.0	2.7	.8	.1	1967	9.3	15.3	9.6	9.1	8.9	10.1	9.8	9.6	8.7	8.6
S	2.6	5.7	3.9	.9	.2	2827	13.4	14.8	13.2	13.4	13.7	12.9	12.9	14.5	14.2	12.8
SW	3.0	7.4	4.2	1.0	.2	3341	15.8	14.3	15.3	16.8	15.4	16.4	16.5	18.2	15.0	15.5
W	3.0	7.2	4.3	1.3	.2	3369	15.9	14.7	16.0	17.1	17.1	13.7	16.3	14.4	17.9	13.8
NW	2.3	5.1	3.0	.7	.1	2334	11.0	14.0	10.6	10.5	11.4	11.3	10.3	11.4	11.1	12.3
VAR	#	.0	.0	.0	.0	1	#	2.0	#	.0	.0	.0	.0	.0	.0	.0
CALM	3.7	90.8	54.98	16.27	24.3	776	3.7	.0	4.0	1.9	3.5	2.8	4.0	1.6	3.8	4.8
TOT OBS	4732	42.8	26.0	7.7	1.1	21138	100.0	14.2	5035	904	3099	2480	3180	912	3068	2460
TOT PCT	22.4	42.8	26.0	7.7	1.1	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)					PCT FREQ	TOTAL OBS
	1-3	4-10	11-21	22-33	34-47		
00003	6.1	32.6	39.1	14.7	3.5	.4	5938
06009	7.2	33.1	37.6	15.3	3.2	.4	5579
12015	3.2	29.6	44.1	15.5	3.9	.3	4092
18021	6.6	32.8	37.2	15.4	3.5	.2	5528
TOT	1259	6804	8277	3214	739	.68	21137
PCT	6.0	32.2	39.2	15.2	3.5	.3	100.0

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)

WIND DIR	BY WIND DIRECTION								TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8-5	OBSCD	8-5	TOTAL OBS			
N	.3	.5	1.8	3.9	866	6.9				
NNE	.1	.2	1.0	2.6	521	7.2				
NE	.2	.2	1.1	3.3	639	7.2				
ENE	.1	.1	.6	2.9	492	7.5				
E	.2	.2	.9	5.5	895	7.5				
ESE	.1	.1	.5	3.7	580	7.5				
SE	.1	.1	.5	4.2	665	7.6				
SSE	.2	.2	.5	3.5	567	7.5				
S	.2	.2	1.2	6.6	1087	7.5				
SSW	.2	.3	1.1	3.9	734	7.1				
SW	.5	.5	1.6	5.5	1077	7.0				
WSW	.4	.5	1.9	4.6	572	6.8				
W	.9	.9	2.9	6.7	1501	6.7				
WNW	.4	.5	1.6	3.3	777	6.7				
NW	.3	.4	1.7	3.2	752	6.7				
NNW	.3	.4	1.4	2.8	648	6.7				
VAR	.0	.0	.0	.0	0	.0				
CALM	.2	.2	.6	2.7	502	7.1				
TOT OBS	640	724	2783	9128	13275	7.1				
TOT PCT	4.8	5.5	21.0	68.8	100.0					

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)

WIND DIR	AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										TOTAL OBS	
	000	149	150	299	300	599	600	999	3500	5000		
N	.6	.1	.1	.3	.6	1.5	1.5	.5	.1	.1	.1	866
NNE	.4	.1	.1	.2	.3	1.1	1.1	.2	.1	.1	.1	521
NE	.6	.1	.1	.2	.4	1.3	1.0	.3	.1	.1	.1	639
ENE	.5	.1	.1	.2	.3	1.1	.8	.3	.1	.1	.1	492
E	1.1	.1	.1	.2	.7	1.8	1.4	.4	.1	.1	.1	895
ESE	.8	.1	.1	.2	.4	1.3	.9	.2	.1	.1	.1	580
SE	1.1	.1	.1	.2	.4	1.6	.8	.3	.1	.1	.1	665
SSE	1.0	.1	.1	.2	.3	1.2	.6	.3	.1	.1	.1	567
S	2.0	.1	.1	.4	.6	2.2	1.4	.5	.1	.1	.1	1087
SSW	1.0	.1	.1	.2	.6	1.5	.8	.3	.1	.1	.1	734
SW	1.4	.1	.1	.5	.7	2.1	1.2	.5	.1	.1	.1	1077
WSW	.9	.1	.1	.2	.6	2.0	1.1	.6	.1	.1	.1	572
W	1.1	.2	.2	.2	1.0	2.9	2.1	.8	.1	.1	.1	1501
WNW	.4	.1	.1	.2	.5	1.6	1.2	.5	.1	.1	.1	777
NW	.4	.1	.1	.2	.4	1.7	1.0	.5	.1	.1	.1	752
NNW	.5	.1	.1	.2	.2	1.4	.9	.4	.1	.1	.1	648
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
CALM	.5	.1	.1	.1	.2	1.5	.6	.1	.1	.1	.1	502
TOT OBS	1923	175	482	1096	3688	2453	882	172	104	113	2187	13275
TOT PCT	14.5	1.3	3.6	8.3	27.8	18.5	6.6	1.3	.8	.9	16.5	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)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	.8	1.5	1.6	1.6	1.6	1.7	1.7	1.7
OR >5000	1.4	2.7	2.9	2.9	3.0	3.0	3.0	3.0
OR >3500	4.0	8.4	9.4	9.6	9.6	9.6	9.7	9.7
OR >2000	11.6	23.8	26.7	27.6	28.0	28.2	28.3	28.3
OR >1000	19.9	44.0	51.8	54.5	55.3	55.8	56.1	56.2
OR >600	21.7	48.8	58.5	62.1	63.3	63.9	64.3	64.4
OR >300	22.0	50.2	60.8	65.0	66.5	67.4	68.0	68.0
OR >150	22.1	50.5	61.3	65.8	67.5	68.6	69.3	69.3
OR > 0	22.5	51.8	63.8	69.7	72.8	77.7	82.7	83.3
TOTAL	2999	6899	8495	9277	9694	10342	11012	11086

TOTAL NUMBER OF OBS: 13309      PCT FREQ NH <5/8: 16.7

TABLE 7A  
 PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL
	2.1	1.9	4.5	3.7	3.9	4.8	8.6	8.6	49.6	14661
										OBSCD OBS
										12.3

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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	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	VAR	CALM	TOTAL	PCT
PCP	.1	.1	.1	.2	.2	.3	.2	.3	.1	.2	.1	.2	.1	.1	.1	.0	*	368	2.3
NO PCP	.4	.2	.4	.6	.4	.6	.7	1.3	.7	1.0	.6	.8	.3	.3	.3	.0	.5	1467	9.3
TOTAL	69	41	73	120	101	148	142	242	131	191	111	147	49	53	62	0	91	1835	11.7
PCP	.1	.1	.2	.2	.3	.2	.2	.3	.1	.3	.1	.2	.1	.1	.1	.0	*	440	2.8
NO PCP	.1	.1	.1	.2	.1	.1	.2	.3	.1	.4	.2	.2	.1	*	*	.0	*	363	2.3
TOTAL	32	26	47	62	64	47	58	94	43	99	52	70	22	15	18	0	11	803	5.1
PCP	.3	.2	.2	.4	.3	.4	.2	.6	.4	.4	.1	.2	.2	.2	.1	.0	.1	690	4.4
NO PCP	.2	.1	.2	.2	.1	.2	.2	.4	.3	.6	.3	.4	.2	.2	.1	.0	.1	620	3.9
TOTAL	73	46	69	104	66	89	69	147	98	146	70	94	54	61	36	0	32	1310	8.3
PCP	.4	.2	.4	.7	.3	.5	.4	.6	.5	.6	.2	.4	.2	.2	.2	.0	.1	955	6.1
NO PCP	.4	.3	.4	.5	.3	.4	.4	.8	.6	.9	.7	1.0	.4	.5	.3	.0	.2	1360	8.7
TOTAL	135	69	123	186	103	142	121	226	171	232	146	215	108	104	75	0	55	2315	14.7
PCP	.4	.2	.4	.4	.2	.4	.2	.4	.3	.3	.3	.5	.2	.3	.2	.0	.1	778	5.0
NO PCP	1.8	1.0	1.2	1.8	1.1	1.1	.9	2.0	1.3	2.1	2.3	3.2	1.7	1.6	1.3	.0	1.3	4205	26.8
TOTAL	342	201	244	347	201	232	168	379	249	372	410	587	298	310	229	0	213	4983	31.7
PCP	.1	*	.1	.1	*	.1	*	.1	*	.1	.1	.1	*	.1	.1	.0	*	177	1.1
NO PCP	2.2	1.2	1.5	1.4	1.0	1.1	.8	1.4	1.3	1.9	2.0	3.5	2.0	2.0	1.7	.0	1.0	4278	27.2
TOTAL	366	194	252	237	164	179	131	235	206	320	326	576	322	337	284	0	167	4455	28.4
TOTAL	1017	577	808	1056	699	837	689	1323	698	1360	1115	1689	853	880	704	0	569	15701	100.0
PCT	6.5	3.7	5.1	6.7	4.5	5.3	4.4	8.4	5.7	8.7	7.1	10.8	5.4	5.6	4.5	.0	3.6	100.0	



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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999				
00003	12.8	.9	3.6	8.3	27.3	19.1	6.6	1.2	.9	1.1	81.8	18.2	3663
06009	12.9	1.3	3.8	8.4	27.6	18.5	7.2	1.3	.7	.8	82.6	17.4	3350
12015	16.9	1.4	3.5	8.0	25.1	17.5	5.9	1.1	.6	.9	80.8	19.2	3282
18021	15.0	1.6	3.4	7.7	29.6	18.1	6.6	1.6	.8	.7	85.0	15.0	3284
TOT	1948	176	485	1101	3720	2486	294	176	105	117	11208	2371	13579
PCT	14.3	1.3	3.6	8.1	27.4	18.3	6.6	1.3	.8	.9	82.5	17.5	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
00003	9.7	3.2	5.6	11.6	33.4	36.1	3583
06009	10.2	3.1	5.8	11.5	33.8	35.5	3289
12015	10.8	3.7	6.4	15.2	35.0	28.8	3203
18021	11.8	3.0	6.5	13.0	34.8	31.0	3234
TOT	1413	432	808	1702	4556	4398	13309
PCT	10.6	3.2	6.1	12.8	34.2	33.0	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+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	12.4	19.2	37.6	46.3	16.1	3583
06009	12.7	20.1	38.8	45.2	16.0	3289
12015	16.7	24.8	44.8	38.4	16.8	3203
18021	15.0	22.2	41.6	45.6	12.8	3234
TOT	1882	2863	5402	5852	2055	13309
PCT	14.1	21.5	40.6	44.0	15.4	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
65/69	.0	.0	.0	.0	.2	.3	.0	.0	3	*
60/64	.0	.0	.0	.1	.2	.3	.1	*	61	.6
55/59	.0	.0	.0	.1	.2	.9	1.3	.8	336	3.3
50/54	.0	.0	.0	.1	.5	1.0	5.1	6.7	1374	13.3
45/49	.0	.0	.0	.2	.6	3.2	6.8	19.5	3132	30.4
40/44	.0	.0	.0	.2	1.2	3.2	6.2	14.6	2620	25.4
35/39	.0	.0	.0	.3	.9	2.8	5.0	9.0	1855	18.0
30/34	.0	.0	.0	.4	.4	1.1	2.3	3.6	767	7.4
25/29	.0	.0	.0	.0	.0	.1	.4	.8	134	1.3
20/24	.0	.0	.0	.0	.0	.0	.1	.1	21	.2
TOTAL	0	1	6	96	420	1302	2797	5681	10303	100.0
PCT	.0	*	.1	.9	4.1	12.6	27.1	55.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	*	.0	*
	.1	*	*	*	.1	.1	.1	.1	.0	*
	.3	.2	.2	.2	.6	.8	.6	.2	.0	*
	.8	.8	.6	1.3	2.4	3.3	1.9	1.2	.0	.3
	2.4	2.2	2.7	3.5	5.5	5.7	4.5	3.0	.0	1.0
	2.7	2.3	3.8	2.7	3.2	3.4	3.9	2.9	.0	.6
	2.2	2.3	3.0	1.7	1.6	2.2	2.5	2.3	.0	.2
	1.3	1.3	.7	.4	.3	.7	1.1	1.5	*	.1
	.5	.3	*	*	*	*	.1	.3	.0	*
	.1	*	.0	.0	.0	.0	*	.1	.0	.0
	1068	965	1145	1017	1399	1669	1511	1188	1	340
	10.4	9.4	11.1	9.9	13.6	16.2	14.7	11.5	*	3.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	66	59	54	43	32	28	21	43.5	5786
06009	66	60	54	43	32	27	22	43.1	5474
12015	66	53	50	41	32	28	23	41.3	3994
18021	62	56	52	42	31	27	22	41.9	5433
TOT	66	58	53	43	32	27	21	42.5	20687

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	1.1	5.1	13.2	28.2	52.3	88	3076		
06009	.0	1.3	4.4	13.1	27.9	53.3	88	2873		
12015	.0	1.3	2.4	10.3	25.7	60.4	90	1415		
18021	.0	.5	3.5	12.7	26.2	57.1	89	2985		
TOT	0	103	421	1309	2816	5700	89	10349		

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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	21	25	29	33	37	41	45	49	53	57	61	65	TOT	M FOG	WD FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	9	*	*
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	47	.1	.2
11/13	.0	.0	.0	.0	.0	.0	*	.3	.3	.4	*	.0	145	.4	.8
9/10	.0	.0	.0	.0	.0	*	.4	.7	.5	.2	*	.0	233	.6	1.3
7/8	.0	.0	.0	.0	*	.2	1.0	1.3	.6	.1	.0	.0	389	1.0	2.1
6	.0	.0	.0	.0	*	.3	.7	.9	.2	*	.0	.0	267	.7	1.4
5	.0	.0	.0	.0	*	.6	1.5	1.4	.2	*	.0	.0	477	1.1	2.6
4	.0	.0	.0	*	.3	1.5	2.7	1.2	.3	*	.0	.0	750	1.4	4.5
3	.0	.0	.0	.0	.1	1.3	2.8	.9	.2	*	.0	.0	720	1.4	4.3
2	.0	.0	.0	.1	1.3	3.8	5.5	1.2	.2	.0	.0	.0	1538	2.6	9.6
1	.0	.0	.0	.1	1.7	2.6	3.6	.8	.1	.0	.0	.0	1143	2.0	7.0
0	.0	.0	* .7	5.3	7.6	6.1	1.5	.1	.1	.0	.0	.0	2696	3.5	17.8
-1	.0	.0	* .5	2.5	1.7	2.0	.3	*	.0	.0	.0	.0	894	.9	6.2
-2	.0	.0	* 1.9	3.1	1.8	1.4	.4	.1	.0	.0	.0	.0	1066	1.1	7.3
-3	.0	.0	.1	1.5	1.1	.4	.4	.1	.0	.0	.0	.0	456	.3	3.3
-4	.0	.0	.4	2.0	.5	.4	.4	*	.0	.0	.0	.0	521	.3	3.8
-5	.0	* .5	1.5	.5	.5	.2	.1	*	.0	.0	.0	.0	358	.1	2.7
-6	.0	* .2	1.7	.6	.2	.1	*	.0	.0	.0	.0	.0	232	*	1.8
-7/-8	.0	.2	1.7	.7	.2	*	.0	.0	.0	.0	.0	.0	364	*	2.8
-9/-10	.0	.5	.7	.2	.0	*	.0	.0	.0	.0	.0	.0	199	*	1.5
-11/-13	.1	.5	.2	*	*	*	.0	.0	.0	.0	.0	.0	109	.0	.9
-14/-16	.2	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	30	*	.2
TOTAL	32	176	578	1259	2212	2905	3598	1385	363	114	21	5	12648	2253	10395
PCT	.3	1.4	4.6	10.0	17.5	23.0	28.4	11.0	2.9	.9	.2	*	100.0	17.8	82.2

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TABLE 18

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

HGT	N										NE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.2	.6	.0	.0	.0	.0	42	.2	.6	.0	.0	.0	.0	39							
1-2	.1	1.8	.9	.0	.0	.0	148	.1	.8	.8	.0	.0	.0	91							
3-4	.0	.1	1.4	.1	.0	.0	120	*	.6	.9	.2	.0	.0	88							
5-6	.0	.1	.9	.2	.1	.0	65	.0	.1	.8	.3	*	.0	56							
7	.0	*	.7	.5	*	.0	73	.0	.0	.5	.3	.0	.0	42							
8-9	.0	.0	.2	.5	.1	.0	41	.0	*	.2	.2	*	.0	21							
10-11	.0	.0	.2	.4	.1	*	39	.0	.0	.1	.2	*	.0	17							
12	.0	.0	.1	.2	.1	.0	17	.0	.0	*	.1	*	.0	6							
13-16	.0	.0	.0	.2	.1	.0	19	.0	.0	*	.2	.1	.0	18							
17-19	.0	.0	.0	.2	.1	.0	5	.0	.0	.0	.3	.1	.0	19							
20-22	.0	.0	.0	.1	*	.0	2	.0	.0	.0	*	.1	.0	8							
23-25	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	*	.0	2							
25-32	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	16	172	233	122	27	1	571	16	108	171	87	23	2	407							
PCT	.3	3.3	4.5	2.3	.5	*	10.9	.3	2.1	3.3	1.7	.4	*	7.8							

HGT	E										SE										TOTAL
	1-3	4-10	11-21	22-33	34-47	48+	TOTAL	1-3	4-10	11-21	22-33	34-47	48+	TOTAL							
<1	.2	.7	.0	.0	.0	.0	49	.1	.6	.0	.0	.0	.0	41							
1-2	.1	2.1	1.3	.0	.0	.0	182	*	1.3	1.2	.0	.0	.0	133							
3-4	.0	.5	1.5	.2	.0	.0	114	.0	.7	2.1	.2	.0	.0	160							
5-6	*	.1	.8	.5	.0	.0	73	*	.1	.9	.4	.1	.0	73							
7	.0	.0	.5	.5	*	.0	52	.0	*	.3	.5	.1	.0	49							
8-9	.0	.0	.1	.2	*	.0	15	.0	.0	.1	.5	.1	.0	38							
10-11	.0	.0	.1	.3	.1	.0	26	.0	.0	.1	.1	*	.0	14							
12	.0	.0	*	.2	*	.0	11	.0	.0	*	.1	.1	.0	15							
13-16	.0	.0	.1	.3	.1	.0	27	.0	.0	.2	.3	.1	.0	33							
17-19	.0	.0	*	.1	*	.0	8	.0	.0	*	*	.0	.0	2							
20-22	.0	.0	*	.1	.1	.0	9	.0	.0	*	*	*	.0	5							
23-25	.0	.0	.0	.0	.0	.0	1	.0	.0	.0	.0	.0	.0	1							
26-32	.0	.0	.0	.0	*	.0	0	.0	.0	.0	.0	.0	.0	0							
33-40	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
41-48	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
49-60	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
61-70	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
71-86	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
87+	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.0	.0	.0	0							
TOTAL	19	177	225	122	23	2	568	19	144	261	114	30	5	564							
PCT	.4	3.4	4.3	2.3	.4	*	10.9	.2	2.8	5.0	2.2	.6	.1	10.8							



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TABLE 18 (CONT)

HGT	WIND SPEED (KTS) VS SEA HEIGHT (FT)										TOTAL OBS
	0-3	4-10	11-21	22-33	34-47	48+	0-3	4-10	11-21	22-33	
<1	7.8	4.6	.0	.0	.0	.0	.0	.0	.0	.0	696
1-2	1.1	12.9	9.8	*	.0	.0	.0	.0	.0	.0	1340
3-4	.1	6.0	14.9	1.8	.0	.0	.0	.0	.0	.0	1278
5-6	.1	.8	9.4	3.1	.3	.0	.0	.0	.0	.0	771
7	*	.3	5.0	3.9	.3	*	.0	.0	.0	.0	540
8-9	.0	.2	1.5	2.4	.4	.0	.0	.0	.0	.0	255
10-11	.0	.1	1.5	2.4	.6	.1	.0	.0	.0	.0	265
12	.0	.0	.5	1.2	.5	.0	.0	.0	.0	.0	128
13-16	.0	*	.6	2.0	1.0	.1	.0	.0	.0	.0	212
17-19	.0	.0	.1	.7	.3	*	.0	.0	.0	.0	65
20-22	.0	.0	.0	.3	.5	*	.0	.0	.0	.0	47
23-25	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	11
26-32	.0	.0	.0	*	.2	*	.0	.0	.0	.0	12
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
TOTAL	513	1400	2442	1008	238	19	5620				
PCT	9.1	24.9	43.5	17.9	4.2	.3	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	3-4	5-6	7	8-9	10-11	12	13-15	17-19	20-22	23-25	26-32	33-40	41-48	49-60			61-70	71-86	87+	
<6	1.1	12.6	11.3	5.0	1.9	.6	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2698	3
6-7	*	1.6	5.7	5.8	4.1	2.2	1.8	.9	.9	.3	.2	*	*	*	.0	.0	.0	.0	.0	.0	1925	6
8-9	.0	.6	3.0	2.3	3.6	1.5	2.4	1.2	1.9	.7	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	1450	8
10-11	.0	*	.1	.2	.2	.4	.5	.1	.3	.3	.2	.1	*	*	.0	.0	.0	.0	.0	.0	201	11
12-13	.0	.0	*	*	.1	*	.2	.1	.1	*	*	*	*	*	.0	.0	.0	.0	.0	.0	57	11
>13	.0	.0	.0	.0	*	*	.1	*	.1	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	36	15
INDET	21.6	*	*	*	*	*	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1767	0
TOTAL	1850	1211	1635	1087	802	396	448	201	283	111	77	19	14	0	0	0	0	0	0	0	8134	4
PCT	22.7	14.9	20.1	13.4	9.9	4.9	5.5	2.5	3.5	1.4	.9	.2	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
81/82	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
79/80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
77/78	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
75/76	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
73/74	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
67/68	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.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	1	*
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.1
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	.5
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	297	1.8
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	675	4.2
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1195	7.4
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2615	16.3
41/42	5.2	3.3	1.1	.7	3.1	8.4	12.8	21.5	21.3	10.7	1.5	1.3	2507	15.6
39/40	4.9	2.3	3.4	3.0	15.6	24.3	36.0	33.1	32.5	28.9	4.9	5.2	2513	15.6
37/38	28.4	26.0	12.2	19.7	49.7	35.0	13.6	13.1	18.9	33.8	14.2	17.2	2349	18.6
35/36	10.1	14.1	23.1	21.1	26.4	27.3	3.7	2.0	5.2	3.3	35.8	31.7	2349	14.6
33/34	1.6	4.7	4.6	3.0	4.2	3.8	3.1	.1	.4	.5	4.7	27.4	700	4.4
31/32	.0	.6	1.7	.7	.2	.0	.0	.0	.0	.0	1.9	16.2	111	.7
29/30	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	23	.1
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	*
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	613	708	784	806	1763	3337	2352	2026	1499	923	741	536	16088	100.0
MEAN	38.3	37.7	37.3	37.5	39.2	41.4	44.4	46.8	46.4	44.6	41.0	38.9	42.2	

PERIOD: (PRIMARY) 1944-1970  
(OVER-ALL) 1935-1970

AREA 0010 ATTU  
51-55N 172-180E

TABLE 21

MD	AVERAGE BY HOUR (GMT)												TOTAL DBS	EXTREMES				
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	MAX	YEAR	DA		HR	MIN	YEAR	DA	HR
JAN	995	991	999	990	1001	1001	1000	991	996	844	1034	1962	19	12	958	1964	22	00
FEB	997	997	999	995	998	999	999	995	997	872	1032	1950	01	00	960	1944	23	21
MAR	1007	1011	1006	1005	1007	1004	1008	1005	1006	1099	1036	1965	13	12	961	1949	09	06
APR	1011	1011	1011	1007	1012	1008	1012	1008	1010	1188	1042	1965	23	06	966	1943	08	00
MAY	1014	1010	1015	1010	1015	1009	1015	1010	1013	2318	1032	1965	11	18	971	1958	14	06
JUN	1012	1012	1012	1011	1012	1010	1012	1011	1011	4708	1055	1965	22	00	972	1956	10	09
JUL	1013	1013	1014	1013	1013	1013	1014	1013	1013	2451	1052	1965	28	06	983	1966	04	00
AUG	1013	1010	1012	1012	1012	1010	1011	1012	1012	2150	1046	1965	10	00	978	1944	07	00
SEP	1011	1006	1009	1011	1011	1007	1010	1011	1010	1865	1036	1944	20	00	974	1964	24	00
OCT	1011	1009	1011	1010	1011	1007	1009	1011	1010	1094	1044	1964	17	06	967	1965	11	12
NOV	1004	976	1004	1004	1005	995	1004	1005	1004	876	1044	1945	01	21	964	1952	03	03
DEC	1002	1013	1007	998	1007	1013	1005	997	1003	754	1047	1964	25	12	962	1965	18	06
ANN	1009	1011	1010	1008	1010	1010	1010	1008	1013	20219								
OBS	4785	889	3033	2215	3114	908	3012	2263										

PERCENTILES

MD	1%	5%	25%	50%	75%	95%	99%
JAN	962	972	988	996	1004	1017	1024
FEB	967	977	989	998	1005	1016	1022
MAR	969	979	998	1007	1016	1027	1033
APR	976	984	1001	1010	1021	1034	1039
MAY	982	989	1003	1014	1024	1034	1042
JUN	984	994	1005	1012	1018	1027	1034
JUL	987	995	1007	1014	1020	1027	1038
AUG	988	995	1005	1013	1018	1027	1032
SEP	981	991	1003	1011	1018	1025	1030
OCT	976	986	1002	1012	1019	1029	1038
NOV	966	977	994	1005	1014	1026	1039
DEC	966	974	993	1003	1014	1028	1043