AD-A016 913

SUMMARY OF SYNOPTIC METEROLOGICAL OBSERVATIONS SIBERIAN COASTAL MARINE AREAS. VOLUME 3. AREA 15 - OKHOTSK SEA NE, AREA 16 - WEST COAST KAMCHATKA, AREA 17 - TATAR STRAIT N, AREA 18 - TATAR STRAIT S, AREA 19 - OKHOTSK SEA SW, AREA 20 - SAKHALIN ISLAND SE, AREA 21 - OKHOTSK SEA SE

Naval Weather Service Command

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U. S. NAVAL WEATHER SERVICE COMMAND

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS

SIBERIAN COASTAL MARINE AREAS

VOLUME 3

AREA 15 - OKHOTSK SEA NE
AREA 16 - WEST COAST KAMCHATKA
AREA 17 - TATAR STRAIT N
AREA 18 - TATAR STRAIT S
AREA 19 - OKHOTSK SEA SW
AREA 20 - SAKHALIN ISLAND SE
AREA 21 - OKHOTSK SEA SE

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

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

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

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

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

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

THE TABLES

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Air-Sea Temperature Difference is:

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

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

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

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

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

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

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

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AREA	NAME	PAGES
15	Okhotsk Sea NE	001-079
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20	Sakhalin Island SE	366-432
21	Okhotsk Sea SE	433-511

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DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

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

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

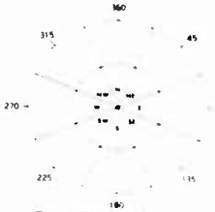


Fig 1. The 8 point direction system.

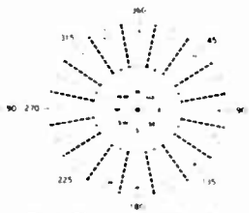


Fig 2. The 16 point direction system superimposed on the 8 point system.

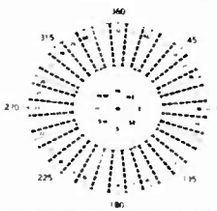


Fig 3. The 32 point direction system superimposed on the 8 point system.

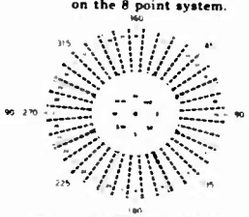


Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)

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

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

PRESENT WEATHER (1960 WMO CODE 4677)

CODE	INTERPRETATION	CODE	INTERPRETATION
58-59, 60-65, 91-94, (68-69,95,97 IF TEMP >40°F)	RAIN	10-12, 40-49	FOG (WITHOUT PRECIPITATION)
		28	FOG (WITHOUT PRECIPITATION) PAST HOUR
80-82,(83-84 IF TEMP >40°F)	RAIN SHOWERS	04-05	SMOKE HAZE
50-55,58-59	DRIZZLE		
56-57, 66-67	FREEZING PRECIPITATION	06-09, 30-39	SPRAY BLOWING DUST BLOWING SNOW
70-75,85-86 (68-69,83-84, 95,97 IF TEMP ≤40°F)	SNOW	00-03, 14-16, 18	NO SIGNIFICANT WEATHER AT OB TIME
76-79	OTHER FROZEN PRECIPITATION	00-49	NO PRECIPITATION AT OB TIME
87-90, 93-94, 96,99	HAIL	50-99	PRECIPITATION AT OB TIME
13,17, 19,29, 95-99	THUNDER LIGHTNING THUNDERSTORM	20-27	PRECIPITATION PAST HOUR

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

WAVE HEIGHT (from source decks 128 and 116)

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

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCP'N	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	1.9	.0	.0	21.5	2.5	.0	24.1	2.8	.0	.0	.0	.0		.0	73.4
NE	.0	.3	.0	.0	11.4	.0	.0	11.4	1.3	.0	5.4	.0	1.7		.0	80.1
E	.0	3.8	.0	.0	30.5	.0	.0	34.3	.0	.0	3.8	.0	2.9		.0	59.0
SE	.0	.0	.0	.0	15.4	.0	.0	15.4	.0	.0	.0	.0	.0		.0	84.6
S	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	14.3	.0	.0		.0	52.4
SW	.0	.0	.0	.0	63.4	.0	.0	63.4	.0	.0	12.2	.0	.0		.0	24.4
W	.0	.0	.0	.0	31.9	.0	.0	31.9	1.8	.0	7.9	.0	.0		.0	58.6
NW	.0	.0	.0	.0	38.8	.0	.0	38.8	.4	1.6	8.1	.0	1.6		.0	51.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0		.0	80.0
TOT PCT	.0	.7	.0	.0	26.3	.3	.0	27.0	1.4	.3	5.5	.0	1.0		.0	65.1
TOT OBS:	289															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	20.8	.0	.0	20.8	.0	.0	6.3	.0	.0		.0	72.9
06&09	.0	1.1	.0	.0	21.1	.0	.0	21.1	2.2	.0	7.8	.0	.0		.0	68.9
12&15	.0	.0	.0	.0	30.7	1.3	.0	32.0	2.7	1.3	1.3	.0	2.7		.0	61.3
18&21	.0	1.9	.0	.0	30.2	.0	.0	32.1	1.9	.0	5.7	.0	1.9		.0	58.5
TOT PCT	.0	.6	.0	.0	24.8	.3	.0	25.5	1.6	.3	5.4	.0	1.0		.0	66.6
TOT OBS:	314															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	3.5	6.3	2.5	1.4	.0		13.7	18.0	12.4	.0	12.8	.0	14.9	.0	16.5	.0
NE	.4	7.8	12.6	4.7	1.1	.0		26.6	16.4	30.3	100.0	26.5	.0	24.6	.0	21.0	.0
E	.0	3.5	3.6	1.2	.4	.0		8.7	14.3	6.5	.0	11.6	.0	8.2	.0	8.5	.0
SE	.0	1.5	2.9	.7	.0	.0		5.2	13.9	5.9	.0	8.6	.0	3.0	.0	.6	.0
S	.0	1.0	.6	.0	.0	.0		1.6	11.9	1.2	.0	2.1	.0	1.5	.0	1.7	.0
SW	.0	1.9	1.4	.0	.0	.0		3.3	10.4	2.9	.0	3.0	.0	4.5	.0	2.8	.0
W	.0	3.4	8.6	3.7	.6	.0		16.4	16.8	17.1	.0	19.2	.0	16.8	.0	17.0	
NW	.0	9.6	11.5	6.0	.4	.0		23.5	17.2	22.6	.0	20.2	.0	25.0	.0	29.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0	1.2	.0	.0	.0	1.5	.0	2.3	.0
TOT OBS	4	79	134	53	11	0	281		16.1	85	1	84	0	67	0	44	0
TOT PCT	1.4	28.1	47.7	18.9	3.9	.0		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	6.6	3.2	2.7	.0		13.7	18.0	12.2	12.8	14.9	16.5
NE	2.0	12.2	10.2	2.2	.0		26.6	16.4	31.1	26.5	24.6	21.0
E	1.3	4.4	2.6	.0	.4		8.7	14.3	6.4	11.6	8.2	8.5
SE	.7	2.6	1.9	.0	.0		5.2	13.9	5.8	8.6	3.0	.6
S	.4	1.0	.3	.0	.0		1.6	11.9	1.2	2.1	1.5	1.7
SW	1.1	1.6	.6	.0	.0		3.3	10.4	2.9	3.0	4.5	2.8
W	.6	8.9	5.2	1.6	.0		16.4	16.8	16.9	15.2	16.8	17.0
NW	2.0	9.7	9.8	2.0	.0		23.5	17.2	22.4	20.2	25.0	29.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.1						1.1	.0	1.2	.0	1.5	2.3
TOT OBS	19	132	95	24	1	281		16.1	86	84	67	44
TOT PCT	10.3	47.0	33.8	8.5	.4		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	1.2	30.2	52.3	12.8	2.3	.0	14.7	100.0	86
06&09	.0	.0	28.6	46.4	17.9	7.1	.0	16.8	100.0	84
12&15	1.5	.0	32.8	34.3	28.4	3.0	.0	16.6	100.0	67
18&21	2.3	.0	15.9	61.4	18.2	2.3	.0	16.8	100.0	44
TOT	3	1	79	134	53	11	0	16.1		281
PCT	1.1	.4	28.1	47.7	18.9	3.9	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	2.2	3.2	4.2		5.6
NE	3.4	2.3	9.6	8.1		5.8
E	.3	.5	1.7	6.5		7.1
SE	.9	.9	2.4	1.8		5.6
S	.5	.0	.0	1.9		6.4
SW	.1	.0	2.5	1.6		6.6
W	2.1	2.3	8.1	6.8		6.1
NW	2.4	1.9	8.6	10.0		6.1
VAR	.0	.0	.0	.0		.0
CALM	.9	.5	.0	.9		3.0
TOT OBS	26	23	79	91	219	6.0
TOT PCT	11.9	10.5	36.1	41.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.5	.0	3.0	2.3	.0	1.4	.0	.0	3.8	
NE	1.0	.0	.0	.1	3.4	8.3	.9	1.8	.5	.0	7.3	
E	2.2	.0	.3	.3	1.1	3.4	.0	.5	.0	.0	1.1	
SE	.1	.0	.2	.5	1.0	.1	.9	.0	.9	.0	2.3	
S	.7	.0	.3	.5	.5	.0	.0	.0	.0	.0	.5	
SW	.6	.0	.0	.5	.6	1.6	.9	.0	.0	.0	.1	
W	2.1	.0	.0	.0	4.7	6.4	.5	.0	.5	.0	5.3	
NW	3.4	.0	.0	.0	.9	6.3	4.8	2.3	.0	.5	.0	4.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	1.4
TOT OBS	22	0	3	6	45	59	12	8	6	0	58	219
TOT PCT	10.0	.0	1.4	2.7	20.5	26.9	5.5	3.7	2.7	.0	26.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
▪ OR >5000	3.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
▪ OR >3500	4.8	10.5	10.9	11.4	11.4	11.4	11.4	11.4
▪ OR >2000	15.3	27.9	36.2	38.0	38.4	38.4	38.4	38.4
▪ OR >1000	18.3	34.1	46.7	50.7	56.3	57.2	59.0	59.0
▪ OR >600	19.2	35.4	48.5	52.4	58.1	59.8	61.6	61.6
▪ OR >300	19.2	35.8	49.3	53.7	59.4	61.1	62.9	62.9
▪ OR >150	19.2	35.8	49.3	53.7	59.4	61.1	62.9	62.9
▪ OR > 0	19.7	37.6	53.3	59.4	66.8	69.9	72.9	72.9
TOTAL	45	86	122	136	153	160	167	167

TOTAL NUMBER OF OBS: 229 PCT FREQ NH <5/8: 27.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	1.9	5.0	5.7	6.1	5.7	13.8	12.3	36.4	6.9	261

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.3	.5	1.6	.1	.3	.3	1.0	2.1	.0	.0	6.3	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.3	.7	.0	.0	1.0	
	TOT %	.3	.5	1.6	.1	.3	.3	1.4	2.8	.0	.0	7.3	
	PCP	.3	.7	.6	.4	.3	.0	1.6	2.1	.0	.0	6.3	
1/2<1	NO PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.3	1.0	.6	.4	.3	.0	1.6	2.1	.0	.0	6.6	
	PCP	1.2	.9	.3	.3	.0	1.0	.3	1.4	.0	.0	5.6	
1<2	NO PCP	.0	.1	.3	.0	.0	.0	.3	.3	.0	.0	1.0	
	TOT %	1.2	1.0	.6	.3	.0	1.0	.7	1.7	.0	.0	6.6	
	PCP	1.7	.9	.6	.0	.0	.5	1.4	2.7	.0	.0	7.3	
2<5	NO PCP	.3	1.1	.6	.4	.5	.8	1.9	1.9	.0	.3	8.0	
	TOT %	1.8	2.0	1.2	.4	.5	1.3	3.3	4.6	.0	.3	15.3	
	PCP	.3	.1	.0	.0	.0	.3	.6	.4	.0	.0	1.7	
5<10	NO PCP	4.9	6.0	1.1	1.6	.3	.1	3.6	6.4	.0	1.4	25.3	
	TOT %	5.1	6.1	1.1	1.6	.3	.4	4.2	6.9	.0	1.4	27.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	5.2	14.9	4.0	2.8	.3	.4	5.1	4.3	.0	.0	37.2	
	TOT %	5.2	14.9	4.0	2.8	.3	.4	5.1	4.3	.0	.0	37.2	
	TOT OBS												288
	TOT PCT	14.0	25.5	9.1	5.6	1.8	3.6	16.2	22.4	.0	1.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.4	.0	.0	.0	.0	.4	.0		.7	
	11-21	.0	.5	1.0	.0	.0	.4	.4	.4	.0		2.6	
	22+	.4	.1	.3	.0	.0	.0	1.1	2.2	.0		4.0	
	TOT %	.4	.5	1.6	.0	.0	.4	1.5	2.9	.0	.0	7.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.4	.0	.0	.0	.4	.7	.0		1.5	
	11-21	.0	1.1	.0	.4	.4	.0	.6	1.6	.0		4.0	
	22+	.3	.0	.0	.0	.0	.0	.6	.2	.0		1.1	
	TOT %	.3	1.1	.4	.4	.4	.0	1.6	2.5	.0	.0	6.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.1	.3	.4	.0	.7	.4	.0	.0		1.8	
	11-21	1.0	.5	.4	.0	.0	.0	.4	1.8	.0		4.0	
	22+	.3	.5	.0	.0	.0	.0	.0	.0	.0		.7	
	TOT %	1.3	1.0	.6	.4	.0	.7	.7	1.8	.0	.0	6.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
2<5	4-10	.4	.1	.3	.0	.3	.5	1.0	1.2	.0		3.6	
	11-21	1.0	.8	.3	.5	.3	.9	1.8	1.4	.0		6.7	
	22+	.3	1.2	.7	.0	.0	.0	.6	2.3	.0		5.1	
	TOT %	1.6	2.1	1.3	.5	.5	1.4	3.5	4.8	.0	.4	16.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
5<10	4-10	1.6	1.4	.3	.5	.4	.4	.4	1.5	.0		6.2	
	11-21	1.3	2.7	.4	.7	.0	.1	1.9	4.2	.0		11.3	
	22+	2.2	2.3	.3	.0	.0	.0	1.7	1.2	.0		7.7	
	TOT %	5.0	6.4	.9	1.2	.4	.5	4.0	6.8	.0	.7	25.9	
	0-3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
10+	4-10	1.6	6.4	1.7	.7	.4	.4	1.4	2.0	.0		14.6	
	11-21	3.2	7.0	1.7	1.5	.0	.1	3.7	1.7	.0		19.0	
	22+	.6	1.6	.4	.7	.0	.0	.0	.4	.0		3.6	
	TOT %	5.5	15.3	3.8	2.9	.4	.5	5.1	4.1	.0	.0	37.6	
	TOT OBS												274
	TOT PCT	14.1	26.5	8.7	5.3	1.6	3.4	16.4	23.0	.0	1.1	100.0	

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.7	.0	2.7	5.5	16.4	31.5	5.5	8.2	2.7	.0	75.3	24.7	73
06&09	5.8	.0	1.4	1.4	24.6	31.9	8.7	1.4	.0	.0	75.4	24.6	69
12&15	15.0	.0	.0	1.7	20.0	21.7	.0	1.7	3.3	.0	63.3	36.7	60
18&21	24.2	.0	.0	.0	24.2	15.2	6.1	.0	6.1	.0	75.8	24.2	33
TOT	23	0	3	6	49	63	12	8	6	0	170	65	235
PCT	9.8	.0	1.3	2.6	20.9	26.8	5.1	3.4	2.6	.0	72.3	27.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	8.4	5.3	5.3	10.5	20.0	50.5	95
06&09	5.6	7.8	5.6	18.9	25.6	36.7	90
12&15	6.6	11.8	5.3	14.5	31.6	30.3	76
18&21	5.7	5.7	9.4	22.6	39.6	17.0	53
TOT	21	24	19	50	87	113	314
PCT	6.7	7.6	6.1	15.9	27.7	36.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.8	15.5	33.8	42.3	23.9	71
06&09	6.1	13.6	42.4	36.4	21.2	66
12&15	15.3	25.4	37.3	28.8	33.9	59
18&21	24.2	36.4	57.6	21.2	21.2	33
TOT	23	47	93	78	58	229
PCT	10.0	20.5	40.6	34.1	25.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	.0	.0	.0	7.1	1	7.1
25/29	.0	.0	.0	.0	.0	.0	.0	7.1	1	7.1
20/24	.0	.0	.0	.0	.0	.0	.0	28.6	4	28.6
15/19	.0	.0	.0	.0	.0	.0	7.1	35.7	6	42.9
10/14	.0	.0	.0	.0	.0	.0	.0	14.3	2	14.3
TOTAL	0	0	0	0	0	0	1	13	14	100.0
PCT	.0	.0	.0	.0	.0	.0	7.1	92.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	5.4	.0	.0	.0	.0	.0	.0	1.8	.0	.0
	.0	.0	5.4	1.8	.0	.0	.0	.0	.0	.0
	.0	.0	5.4	8.9	.0	.0	7.1	.0	.0	7.1
	.0	21.4	.0	.0	.0	.0	.0	21.4	.0	.0
	5.4	1.8	.0	.0	.0	.0	.0	7.1	.0	.0
	10.7	23.2	10.7	10.7	.0	.0	7.1	30.4	.0	7.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	34	32	32	19	1	-5	-5	17.8	91
06&09	48	47	35	18	6	-4	-4	19.5	85
12&15	37	36	34	17	2	-2	-2	16.7	72
18&21	36	35	32	18	0	-6	-6	17.6	53
TOT	48	36	32	18	1	-4	-6	18.0	301

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	.0	100.0	96	2
06&09	.0	.0	.0	.0	.0	100.0	94	1
12&15	.0	.0	.0	.0	20.0	80.0	96	5
18&21	.0	.0	.0	.0	.0	100.0	96	6
TOT	0	0	0	0	1	13	96	14

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	2	.0	.9
3	.0	.0	.0	.0	.0	.0	.0	.4	.9	.0	3	.0	1.3
2	.0	.0	.0	.0	.0	.0	.0	.4	1.3	.0	4	.0	1.7
1	.0	.0	.0	.0	.0	.0	.0	2.6	.0	.0	6	.0	2.6
0	.0	.0	.0	.0	.0	.0	.4	3.4	.4	.0	10	.0	4.3
-1	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	5	.0	2.1
-2	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	2	.0	.9
-3	.0	.0	.0	.0	.0	.0	3.0	2.6	.0	.0	13	.0	5.6
-4	.0	.0	.0	.0	.0	.0	2.6	1.3	.0	.0	9	.9	3.0
-5	.0	.0	.0	.0	.0	.4	1.3	.4	.4	.0	6	.0	2.6
-6	.0	.0	.0	.0	.0	.0	.9	.4	.0	.0	3	.0	1.3
-7/-8	.0	.0	.0	.0	.0	1.7	2.1	.4	.0	.0	10	.0	4.3
-9/-10	.0	.0	.0	.0	.9	3.4	.4	.4	.0	.0	12	.0	5.1
-11/-13	.0	.0	.0	.4	3.8	2.6	.0	.4	.0	.0	17	.0	7.3
-14/-16	.0	.0	.4	2.6	8.1	.0	.9	.0	.0	.0	28	.4	11.5
-17/-19	.0	.0	3.8	7.3	1.3	1.3	.0	.0	.0	.0	32	.4	13.2
-20/-22	.0	1.3	5.1	2.6	.0	.0	.4	.0	.0	.0	22	.9	8.5
-23/-25	.4	3.8	4.3	.0	.0	.0	.0	.0	.0	.0	20	.0	8.5
-26/-30	2.6	4.3	.9	.0	.0	.0	.0	.0	.0	.0	18	2.6	5.1
<-30	9.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	10	.0	4.3
TOTAL	19	24	34	30	33	22	28	37	9	2	234	12	222
PCT	8.4	10.3	14.5	12.8	14.1	9.4	12.0	15.8	3.8	.9	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.5	2.9	.0	.0	.0	4.4
3-4	.0	.4	1.7	.4	.0	.0	2.5
5-6	.0	1.1	.5	.5	.5	.0	2.7
7	.0	.0	.9	1.5	.0	.0	2.4
8-9	.0	.0	.0	.9	1.6	.0	2.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	6.1	3.3	2.1	.0	15.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.1	.0	.0	.0	.0	2.7
1-2	.0	4.4	3.5	.0	.0	.0	7.8
3-4	.0	.5	2.9	.5	.0	.0	4.0
5-6	.0	.5	2.1	.7	.5	.0	3.9
7	.0	.1	1.2	1.2	.5	.0	3.1
8-9	.0	.0	2.3	1.3	.0	.0	3.6
10-11	.0	.0	1.6	1.1	.0	.0	2.7
12	.0	.0	.0	1.1	.0	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.7	13.6	5.9	1.1	.0	28.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.3	.5	.0	.0	.0	3.9
1-2	.0	1.5	.5	.0	.0	.0	2.0
3-4	.0	.0	1.6	.5	.0	.0	2.1
5-6	.0	.0	.5	.4	.0	.0	.9
7	.0	.4	.0	.5	.0	.0	.9
8-9	.0	.0	.4	.4	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	3.6	1.9	.0	.0	10.6

SE

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

PERIOD: (OVER-ALL) 1963-1974

JANUARY

TABLE 18 (CONT)

AREA 0015 OKHOTSK SEA NE
55.1N 153.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.0	.5	.0	.0	.0	.5	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.5	.0	.0	.0	1.5	.0	2.3	1.2	.0	.0	.0	3.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	2.1	.5	.0	.0	.0	2.7	.0	1.6	.5	.0	.0	.0	2.1	
1-2	.0	.4	3.2	.0	.0	.0	3.6	.0	2.3	2.5	.0	.0	.0	4.8	
3-4	.0	.4	.9	.5	.0	.0	1.9	.0	1.3	1.9	.7	.0	.0	3.9	
5-6	.0	.0	1.1	1.5	.4	.0	2.9	.0	.0	4.3	.7	.1	.0	5.1	
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	1.1	1.7	.5	.0	3.3	
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.1	.0	.0	1.6	
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.9	5.7	4.5	.9	.0	14.1	.0	5.2	10.8	5.2	.7	.0	21.8	98.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	12.8	1.6	.0	.0	.0	16.0	
1-2	.0	10.1	14.4	.0	.0	.0	24.5	
3-4	.0	3.7	9.6	2.7	.0	.0	16.0	
5-6	.0	1.6	10.1	3.7	1.6	.0	17.0	
7	.0	.5	3.7	6.4	1.1	.0	11.7	
8-9	.0	.0	2.7	3.7	1.6	.0	8.0	
10-11	.0	.0	2.1	2.1	.0	.0	4.3	
12	.0	.0	.0	1.6	.5	.0	2.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	28.7	44.1	20.7	4.8	.0	100.0	188

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	10.0	6.8	8.6	4.5	4.5	.5	.9	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	5
6-7	.0	.9	4.1	6.8	1.8	4.1	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
8-9	.0	.0	.0	.5	.9	.9	.0	.5	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10
10-11	.0	1.8	.5	.5	.0	.9	.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
12-13	.0	.0	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	8.1	2.7	1.8	3.6	7.7	3.2	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	5
TOTAL	22	34	30	46	34	30	11	7	4	3	0	0	0	0	0	0	0	0	0	221	5
PCT	10.0	15.4	13.6	20.8	15.4	13.6	5.0	3.2	1.8	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	30.6	.0	.0	30.6	1.5	.0	1.1	.0	.0		.0	66.8
NE	1.5	.0	.0	.0	26.4	.0	.0	27.9	4.5	.0	6.3	.0	1.5		1.5	58.4
E	3.9	.0	.0	.0	19.6	.0	.0	23.5	3.9	.0	.0	.0	.0		.0	72.5
SE	.0	.0	.0	.0	23.1	.0	.0	23.1	4.4	.0	4.4	.0	.0		.0	68.1
S	.0	.0	.0	.0	40.0	.0	.0	40.0	5.5	.0	.0	.0	.0		5.5	49.1
SW	.0	.0	.0	.0	40.3	.0	.0	40.3	1.4	.0	8.3	.0	.0		1.4	48.6
W	.0	.0	.0	.0	36.8	.0	.0	36.8	.0	.0	13.6	.0	.0		.0	49.6
NW	.0	.0	.0	.0	31.4	.0	.0	31.4	.0	.0	10.7	.0	.0		.0	57.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	18.8	.0	.0	18.8	.0	.0	.0	.0	.0		.0	81.3
TOT PCT	.7	.0	.0	.0	29.2	.0	.0	29.9	2.4	.0	5.2	.0	.3		.7	61.5
TOT OBS:	291															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	26.6	.0	.0	26.6	3.2	.0	7.4	.0	2.1		.0	60.6
06&09	1.2	.0	.0	.0	23.5	.0	.0	24.7	1.2	.0	10.6	.0	.0		1.2	62.4
12&15	2.6	.0	.0	.0	37.2	.0	.0	39.7	3.8	.0	3.8	.0	.0		1.3	51.3
18&21	.0	.0	.0	.0	29.3	.0	.0	29.3	.0	.0	.0	.0	.0		1.3	69.3
TOT PCT	.9	.0	.0	.0	28.9	.0	.0	29.8	2.1	.0	5.7	.0	.6		.9	60.8
TOT OBS:	332															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	5.4	9.9	6.5	.9	.3		23.5	18.0	20.1	50.0	20.0	31.3	22.2	66.7	24.1	53.1
NE	.1	4.3	11.7	6.5	.9	.4		23.9	19.0	27.6	25.0	14.6	18.8	29.4	.0	25.9	21.9
E	.3	2.1	2.6	2.0	1.1	.0		8.1	20.0	6.5	.0	14.6	12.5	4.8	.0	4.4	25.0
SE	.4	3.3	3.2	.7	.4	.0		7.9	13.1	6.5	.0	12.3	.0	11.7	.0	3.9	.0
S	.0	2.7	1.6	.0	.0	.3		4.6	13.2	4.5	18.8	2.7	.0	4.0	.0	7.9	.0
SW	.0	2.4	3.5	.4	.0	.4		6.7	15.1	5.8	6.3	5.4	6.3	7.3	33.3	8.3	.0
W	.7	4.1	3.9	1.7	.0	.0		10.0	12.9	14.0	.0	8.1	31.3	10.1	.0	6.6	.0
NW	.0	3.2	4.5	1.9	.0	.0		9.6	14.6	5.8	.0	16.2	.0	5.6	.0	15.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	9.1	.0	6.2	.0	4.8	.0	3.5	.0
TOT OBS	22	78	115	56	9	4	284		15.7	77	4	65	8	62	3	57	8
TOT PCT	7.7	27.5	40.5	19.7	3.2	1.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	8.9	9.2	2.5	.8		23.5	18.0	21.6	21.2	24.2	27.7
NE	2.6	6.4	12.1	2.1	.6		23.9	19.0	27.5	15.1	28.1	25.4
E	1.0	2.5	2.6	2.1	.0		8.1	20.0	6.2	14.4	4.6	6.9
SE	3.0	2.5	1.8	.7	.0		7.9	13.1	6.2	11.0	11.2	3.5
S	.8	2.9	.6	.0	.3		4.6	13.2	5.2	2.4	3.8	6.9
SW	1.1	4.4	.8	.0	.4		6.7	15.1	5.9	5.5	8.5	7.3
W	2.6	4.8	2.4	.4	.0		10.0	12.9	13.3	10.6	9.6	5.8
NW	1.2	5.4	2.3	.7	.0		9.6	14.6	5.6	14.4	5.4	13.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.6						5.6	.0	8.6	5.5	4.6	3.1
TOT OBS	57	107	90	24	6	284		15.7	81	73	65	65
TOT PCT	20.1	37.7	31.7	8.5	2.1		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1967-1976
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	8.6	1.2	28.4	35.8	23.5	2.5	.0	15.2	100.0	81
06&09	5.5	2.7	16.4	47.9	20.5	5.5	1.4	17.2	100.0	73
12&15	4.6	1.5	29.2	43.1	15.4	3.1	3.1	16.1	100.0	65
18&21	3.1	3.1	36.9	35.4	18.5	1.5	1.5	14.4	100.0	65
TOT	16	6	78	115	56	9	4	15.7		284
PCT	5.6	2.1	27.5	40.5	19.7	3.2	1.4		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	3.6	7.8	7.2		5.0
NE	6.8	.6	7.9	8.6		5.1
E	1.1	.3	2.2	4.4		6.2
SE	.4	.4	2.8	2.8		6.2
S	.8	1.1	.3	2.7		5.9
SW	1.2	.3	1.9	1.8		5.4
W	2.4	.8	4.9	2.5		4.9
NW	2.1	1.3	3.6	3.7		5.3
VAR	.0	.0	.0	.0		.0
CALM	2.2	1.3	.4	1.3		3.5
TOT OBS	53	22	70	78	223	5.2
TOT PCT	23.8	9.9	31.4	35.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.6	.0	.0	.0	1.8	8.5	1.6	.2	.0	.0	11.4	
NE	3.8	.0	.4	.0	1.3	5.7	1.7	.1	2.2	.0	8.0	
E	.4	.0	.4	.0	1.8	2.2	.8	.0	.0	.0	2.4	
SE	.4	.0	.0	.9	1.9	2.4	.0	.0	.0	.0	.9	
S	.4	.0	.0	.3	.7	1.6	.0	.0	.0	.0	1.9	
SW	.0	.0	.0	.6	1.6	.7	.0	.0	.4	.0	2.0	
W	.0	.0	.0	.0	3.9	2.6	.4	.4	.0	.0	3.1	
NW	1.8	.0	.9	.0	1.3	2.4	.9	.0	.0	.0	3.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.4	.0	.0	.9	.4	.0	.0	.0	3.6	
TOT OBS	19	0	5	4	32	60	13	2	6	0	82	223
TOT PCT	8.5	.0	2.2	1.8	14.3	26.9	5.8	.9	2.7	.0	36.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.2	1.2	2.0	2.4	2.4	2.4	2.4	2.4
= OR >5000	2.0	2.4	3.2	3.6	3.6	3.6	3.6	3.6
= OR >3500	5.6	7.2	9.2	9.6	9.6	9.6	9.6	9.6
= OR >2000	16.1	22.5	34.5	36.1	36.5	36.5	36.5	36.5
= OR >1000	18.5	28.1	43.0	46.6	48.2	48.6	49.8	49.8
= OR >600	18.5	28.1	43.8	47.8	49.8	51.0	52.2	52.2
= OR >300	18.5	28.9	45.4	49.8	52.6	53.8	55.0	55.0
= OR >150	18.5	28.9	45.4	49.8	52.6	53.8	55.0	55.0
= OR > 0	18.5	29.7	49.0	55.4	58.6	61.0	63.9	64.3
TOTAL	46	74	122	138	146	154	159	160

TOTAL NUMBER OF OBS: 249

PCT FREQ NH <5/8: 35.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.9	2.8	4.5	5.5	4.5	5.5	12.1	9.3	32.9	8.3	289

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PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	1.7	.0	.0	.0	1.0	.9	.4	.0	.0	4.7	
	NO PCP	.0	.7	.0	.0	.3	.9	.8	.3	.0	.0	2.4	
	TOT %	.7	2.4	.0	.0	.3	1.3	1.8	.8	.0	.0	7.1	
1/2<1	PCP	.7	.7	.7	1.0	.3	.7	.0	.3	.0	.0	4.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.3	
	TOT %	.7	.7	.7	1.0	.3	.7	.3	.4	.0	.0	4.7	
1<2	PCP	1.2	1.5	1.0	.0	.3	.0	1.9	.8	.0	.3	7.1	
	NO PCP	.5	.8	.3	.3	.0	.0	.3	.0	.0	.0	2.4	
	TOT %	1.7	2.4	1.4	.3	.3	.0	2.3	.8	.0	.3	9.5	
2<5	PCP	4.3	3.1	.3	.8	1.2	.8	1.4	1.4	.0	.3	13.6	
	NO PCP	.9	3.6	.5	1.4	.3	.3	.3	1.5	.0	.3	9.2	
	TOT %	5.3	6.7	.8	2.2	1.4	1.1	1.6	2.9	.0	.7	22.7	
5<10	PCP	.3	.1	.3	.0	.0	.0	.0	.0	.0	.3	1.0	
	NO PCP	2.5	4.7	1.2	3.1	.6	1.5	1.9	.8	.0	.0	16.3	
	TOT %	2.8	4.7	1.5	3.1	.6	1.5	1.9	.8	.0	.3	17.3	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	11.6	6.7	4.6	1.0	1.7	1.5	3.1	4.3	.0	4.1	38.6	
	TOT %	11.6	6.7	4.6	1.0	1.7	1.5	3.1	4.3	.0	4.1	38.6	
	TOT OBS												295
	TOT PCT	22.7	23.6	9.0	7.7	4.7	6.1	10.9	9.9	.0	5.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	4-10	.4	.4	.0	.0	.0	.2	.5	.0	.0		1.4	
	11-21	.0	.4	.0	.0	.0	.7	.0	.4	.0		1.4	
	22+	.4	1.4	.0	.0	.3	.4	1.0	.4	.0		3.9	
	TOT %	.7	2.1	.0	.0	.3	1.3	1.9	.8	.0	.0	7.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.1	.0	.0	.0	.0	.0		1.1	
	11-21	.4	.4	.4	.0	.4	.4	.0	.0	.0		1.8	
	22+	.4	.4	.4	.0	.0	.4	.0	.4	.0		1.8	
	TOT %	.7	.7	.7	1.1	.4	.7	.0	.4	.0	.0	4.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.4	.4	.0	.4	.0	.7	.4	.0		2.1	
	11-21	.6	1.2	.4	.0	.0	.0	1.3	.4	.0		3.9	
	22+	1.2	.6	.4	.4	.0	.0	.4	.0	.0		2.9	
	TOT %	1.8	2.1	1.1	.4	.4	.0	2.4	.8	.0	.4	9.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.6	1.5	.0	.8	1.3	.8	.4	.4	.0		5.7	
	11-21	3.3	3.1	.4	1.1	.0	.4	1.3	1.5	.0		11.1	
	22+	1.6	2.2	.0	.4	.0	.0	.0	.8	.0		5.0	
	TOT %	5.5	6.9	.4	2.2	1.3	1.2	1.7	2.7	.0	.7	22.5	
5<10	0-3	.0	.0	.3	.1	.0	.0	.4	.0	.0	.4	1.1	
	4-10	.6	.8	.4	1.1	.4	.4	1.3	.4	.0		5.4	
	11-21	.9	2.4	.6	1.8	.3	1.2	.4	.4	.0		7.9	
	22+	1.4	1.8	.4	.4	.0	.0	.0	.0	.0		3.9	
	TOT %	2.9	5.0	1.6	3.3	.6	1.6	2.0	.8	.0	.4	18.2	
10+	0-3	.6	.1	.0	.4	.0	.0	.0	.0	.0	4.3	5.4	
	4-10	3.8	1.3	1.4	.4	.8	1.0	1.3	2.1	.0		12.1	
	11-21	4.6	4.5	1.0	.4	1.0	.6	.5	1.4	.0		13.9	
	22+	2.9	1.2	2.1	.0	.0	.0	.4	.4	.0		6.8	
	TOT %	11.9	7.1	4.5	1.1	1.8	1.6	2.2	3.8	.0	4.3	38.2	
	TOT OBS												280
	TOT PCT	23.6	23.9	8.2	8.0	4.6	6.4	10.2	9.3	.0	5.7	100.0	

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PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.7	.0	6.7	2.7	18.7	28.0	8.0	2.7	2.7	.0	72.0	28.0	75
06&09	8.5	.0	1.4	1.4	18.3	21.1	1.4	1.4	2.8	.0	56.3	43.7	71
12&15	15.8	.0	.0	3.5	3.5	31.6	5.3	.0	3.5	.0	63.2	36.8	57
18&21	14.0	.0	2.0	2.0	8.0	26.0	10.0	.0	.0	.0	62.0	38.0	50
TOT	24	0	7	6	33	67	15	3	6	0	161	92	253
PCT	9.5	.0	2.8	2.4	13.0	26.5	5.9	1.2	2.4	.0	63.6	36.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.2	6.3	10.5	24.2	14.7	40.0	95
06&09	9.1	8.0	5.7	17.0	17.0	43.2	88
12&15	10.1	6.3	13.9	21.5	15.2	32.9	79
18&21	4.0	1.3	9.3	26.7	29.3	29.3	75
TOT	23	19	33	75	63	124	337
PCT	6.8	5.6	9.8	22.3	18.7	36.8	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 <500YD	<600 <1	<1000 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.7	13.3	38.7	34.7	26.7	75
06&09	8.7	18.8	37.7	24.6	37.7	69
12&15	15.8	22.8	42.1	26.3	31.6	57
18&21	12.5	16.7	39.6	25.0	35.4	48
TOT	23	44	98	70	81	249
PCT	9.2	17.7	39.4	28.1	32.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	.0	.0	3.1	1	3.1
30/34	.0	.0	.0	.0	3.1	.0	3.1	3.1	3	9.4
25/29	.0	.0	.0	.0	.0	3.1	6.3	6.3	5	15.6
20/24	.0	3.1	3.1	9.4	.0	.0	3.1	9.4	9	28.1
15/19	.0	9.4	12.5	6.3	3.1	9.4	.0	3.1	14	43.8
TOTAL	0	4	5	5	2	4	4	8	32	100.0
PCT	.0	12.5	15.6	15.6	6.3	12.5	12.5	25.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	2.3	.8	.0	.0
2.3	.8	3.1	.0	.0	.0	.0	.0	.0	3.1
9.4	.0	.0	.0	2.3	1.6	2.3	.0	.0	.0
7.8	10.9	.0	3.9	2.3	3.1	.0	.0	.0	.0
28.9	8.6	3.1	.0	2.3	.8	.0	.0	.0	.0
48.4	20.3	6.3	3.9	7.0	5.5	4.7	.8	.0	3.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	39	34	31	15	-9	-15	-15	14.1	91
06&09	40	36	32	18	-4	-11	-11	16.8	79
12&15	32	31	30	16	-5	-10	-10	13.9	70
18&21	30	29	28	16	-4	-8	-8	14.6	73
TOT	40	34	30	16	-4	-11	-15	14.9	313

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	62.5	12.5	.0	.0	25.0	80	8
06&09	.0	55.6	.0	11.1	22.2	11.1	84	9
12&15	.0	16.7	16.7	33.3	.0	33.3	73	6
18&21	.0	33.3	.0	11.1	22.2	33.3	74	9
TOT	0	14	2	4	4	8	87	32

PERIOD: (PRIMARY) 1967-1974
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	WO FOG
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	2	.0	1.0
1	.0	.0	.0	.0	.0	.0	.0	1.0	.5	.0	3	.0	1.5
0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.5	3	.5	1.0
-1	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	3	.0	1.5
-2	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	3	.0	1.5
-3	.0	.0	.0	.0	.0	.0	2.9	1.0	.0	.0	8	1.0	2.9
-4	.0	.0	.0	.0	.0	.0	1.0	1.5	.0	.0	5	.0	2.5
-5	.0	.0	.0	.0	.0	.5	2.0	1.0	.0	.0	7	.0	3.4
-6	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	1	.0	.5
-7/-8	.0	.0	.0	.0	.0	4.4	1.5	.0	.0	.0	12	.0	5.9
-9/-10	.0	.0	.0	.0	1.5	5.4	1.5	.0	.0	.0	17	.5	7.8
-11/-13	.0	.0	.0	2.0	8.3	3.9	.0	.0	.0	.0	29	.0	14.2
-14/-16	.0	.0	.5	4.9	3.9	2.0	.0	.0	.0	.0	23	.5	10.8
-17/-19	.0	.0	2.5	4.9	2.9	.0	.0	.0	.0	.0	21	1.5	8.8
-20/-22	.0	.5	5.9	3.4	1.0	.0	.0	.0	.0	.0	22	.5	10.3
-23/-25	.0	1.5	2.5	1.0	.0	.0	.0	.0	.0	.0	10	1.0	3.9
-26/-30	2.0	6.4	.5	.0	.0	.0	.0	.0	.0	.0	18	.0	8.8
<-30	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	2.0	5.9
TOTAL	20		24		30		19		3			15	189
		17		33		33		17		2	204		
PCT	9.8	8.3	11.8	16.2	17.6	16.2	9.3	8.3	1.5	1.0	100.0	7.4	92.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.0	.0	.0	.0	3.2
1-2	.0	.7	1.4	.0	.0	.0	2.2
3-4	.0	.0	5.8	2.0	.0	.0	7.7
5-6	.0	.0	1.6	1.6	.0	.0	3.2
7	.0	.7	.0	1.8	.0	.0	2.5
8-9	.0	.0	.0	1.3	.0	.0	1.3
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.7	.0	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	8.8	7.9	.0	.0	21.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.0	.0	.0	.0	.0	4.0
1-2	.0	.7	4.3	.0	.0	.0	5.0
3-4	.0	.0	3.6	1.6	.0	.0	5.2
5-6	.0	.0	3.4	.4	.0	.0	3.8
7	.0	.0	.0	2.0	.0	.0	2.0
8-9	.0	.0	.7	.9	.7	.0	2.3
10-11	.0	.0	.0	3.1	.0	.0	3.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.7	.0	1.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	12.1	8.6	1.4	.0	26.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5
1-2	.0	2.2	.0	.0	.0	.0	2.2
3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.0	.0	.7	.0	.0	.7
7	.0	.0	.7	.5	.0	.0	1.3
8-9	.0	.0	.0	.0	.7	.0	.7
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	2.7	2.0	.7	.0	8.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.4	.0	.0	.0	.0	2.3
1-2	.0	1.4	1.4	.0	.0	.0	2.9
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	.0	.0	.7	.0	.7
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.9	3.0	.0	.7	.0	9.5

PERIOD: (OVER-ALL) 1963-1974

FEBRUARY

AREA 0015 OKHOTSK SEA NE
55.0N 154.0E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.0	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.5	.5
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	.7	.0	.0	.5	4.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.9	1.4	.0	.0	.0	2.3
3-4	.0	.7	1.4	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.7	.7
20-22	.0	.0	.0	.0	.0	.2	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	2.9	.0	.0	.9	5.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.5	.0	.0	.0	.0	3.2
1-2	.0	1.3	1.3	.0	.0	.0	2.5
3-4	.0	.0	.0	.7	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.3	.0	.0	1.3
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.8	1.3	3.4	.0	.0	9.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	1.4	3.1	.0	.0	.0	4.5	
3-4	.0	.7	.2	.0	.0	.0	.9	
5-6	.0	.0	.7	.9	.0	.0	1.6	
7	.0	.0	.0	.2	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.8	4.0	1.1	.0	.0	8.8	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.9	15.8	.0	.0	.0	.0	23.7	
1-2	.0	9.4	12.9	.0	.0	.0	22.3	
3-4	.0	1.4	13.7	4.3	.0	.0	19.4	
5-6	.0	.0	7.2	3.6	.0	.0	10.8	
7	.0	.7	.7	5.8	.7	.0	7.9	
8-9	.0	.0	2.2	2.9	1.4	.0	6.5	
10-11	.0	.0	.7	4.3	.0	.0	5.0	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.7	.7	.0	1.4	
17-19	.0	.0	.0	.7	.0	.7	1.4	
20-22	.0	.0	.0	.0	.0	.7	.7	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	27.3	37.4	29.0	2.9	1.4	100.0	139

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	6.3	13.8	6.9	5.7	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	4
6-7	.0	.6	2.3	3.4	2.9	4.6	1.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
8-9	.0	.0	1.1	.6	.6	1.1	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
10-11	.0	.6	.0	.6	.0	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	4	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
>13	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2	15
INDET	14.9	5.7	3.4	2.3	4.0	.6	1.7	.0	.0	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	60	3
TOTAL	36	23	36	24	23	13	10	1	3	2	2	1	0	0	0	0	0	0	0	174	5
PCT	20.7	13.2	20.7	13.8	13.2	7.5	5.7	.6	1.7	1.1	1.1	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.2	.0	.0	.0	18.8	.0	.0	20.1	.0	.0	2.5	.0	.0		.0	77.5
NE	.0	.0	.0	.0	11.8	.0	.0	11.8	8.2	.0	2.1	.0	2.1		.0	75.9
E	.0	.0	.0	.0	23.2	.0	.0	23.2	.0	.0	7.1	.0	.0		.0	69.6
SE	.0	.0	.0	.0	44.4	.0	.0	44.4	.0	.0	.0	.0	.0		.0	55.6
S	.0	.0	.0	.0	26.3	.0	.0	26.3	5.3	.0	2.6	.0	.0		.0	65.8
SW	.0	.0	2.7	.0	35.6	.0	.0	38.3	4.0	.0	.0	.0	.0		.0	57.7
W	.0	.0	.0	.0	20.7	.0	.0	20.7	6.9	.0	.0	.0	4.6		.0	67.8
NW	.0	.0	.0	.0	19.7	.0	.0	19.7	2.5	.0	2.5	.0	.0		.0	75.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	4.5	.0	.0		.0	90.9
TOT PCT	.3	.0	.3	.0	20.9	.0	.0	21.5	3.1	.0	2.5	.0	.6		.0	72.3
TOT OBS:	325															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.8	.0	21.7	.0	.0	22.5	2.5	.0	4.2	.0	.0		.0	70.8
06&09	.0	.0	.0	.0	13.2	.0	.0	13.2	2.6	.0	1.3	.0	.0		.0	82.9
12&15	.0	.0	.0	.0	24.8	.0	.0	24.8	1.0	.0	2.0	.0	.0		.0	72.3
18&21	1.4	.0	.0	.0	21.9	.0	.0	23.3	5.5	.0	1.4	.0	2.7		2.7	64.4
TOT PCT	.3	.0	.3	.0	20.8	.0	.0	21.4	2.7	.0	2.4	.0	.5		.5	72.4
TOT OBS:	370															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	9.5	11.4	3.5	.6	.0		25.4	15.0	27.0	33.3	26.9	.0	21.7	.0	25.8	.0
NE	.0	5.2	8.0	1.3	.3	.0		14.8	15.1	15.3	.0	13.3	.0	15.8	.0	15.0	.0
E	.0	3.1	3.9	1.5	.0	.0		8.5	14.8	7.8	.0	9.1	.0	8.9	.0	8.8	.0
SE	.0	.8	1.1	.5	.1	.1		2.5	17.7	3.3	.0	1.5	.0	2.4	.0	2.7	.0
S	.0	3.3	5.2	2.4	.9	.2		11.9	17.2	11.3	.0	12.9	.0	16.1	.0	7.3	.0
SW	.3	4.6	4.5	2.2	.0	.0		11.6	14.2	10.5	66.7	6.4	.0	10.4	.0	17.7	.0
W	.3	1.9	3.1	1.7	.0	.0		6.9	15.9	4.8	.0	4.9	.0	8.6	.0	10.4	.0
NW	.0	3.0	6.9	1.5	.3	.0		11.7	15.3	11.3	.0	18.9	.0	11.3	.0	6.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.6							6.6	.0	9.0	.0	6.1	.0	4.8	.0	6.2	.0
TOT OBS	24	100	140	46	7	1	318		14.3	100	3	66	0	84	0	65	0
TOT PCT	7.5	31.4	44.0	14.5	2.2	.3		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	14.4	6.5	2.0	.0		25.4	15.0	27.2	26.9	21.7	25.8
NE	1.6	8.0	4.1	1.1	.0		14.8	15.1	14.8	13.3	15.8	15.0
E	.6	5.0	2.6	.3	.0		8.5	14.8	7.5	9.1	8.9	8.8
SE	.4	1.1	.4	.1	.2		2.5	17.7	3.2	1.5	2.4	2.7
S	1.0	7.2	1.9	1.1	.5		11.9	17.2	10.9	12.9	16.1	7.3
SW	2.1	6.1	2.3	1.1	.0		11.6	14.2	12.1	6.4	10.4	17.7
W	1.1	2.6	2.3	.9	.0		6.9	15.9	4.6	4.9	8.6	10.4
NW	.5	8.5	2.0	.5	.3		11.7	15.3	10.9	18.9	11.3	6.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.6						6.6	.0	8.7	6.1	4.8	6.2
TOT OBS	52	168	70	25	3	318		14.3	103	66	84	65
TOT PCT	16.4	52.8	22.0	7.9	.9		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1956-1974

AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	8.7	.0	35.9	42.7	10.7	1.9	.0	13.4	100.0	103
06&09	6.1	.0	27.3	47.0	16.7	3.0	.0	15.2	100.0	66
12&15	4.8	.0	26.2	48.8	16.7	2.4	1.2	15.8	100.0	84
18&21	6.2	4.6	35.4	36.9	15.4	1.5	.0	13.1	100.0	65
TOT	21	3	100	140	46	7	1	14.3		318
PCT	6.6	.9	31.4	44.0	14.5	2.2	.3		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.1	4.0	5.8	8.4		5.9
NE	5.3	1.7	5.2	3.8		4.6
E	2.4	.8	2.9	3.6		5.2
SE	.1	.0	.0	2.9		7.7
S	1.0	.7	3.7	5.0		6.3
SW	.9	1.2	2.6	6.5		6.4
W	.4	1.5	1.6	2.7		5.9
NW	1.3	2.3	5.9	4.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	5.0	2.1	.8	.8		2.4
TOT OBS	47	34	68	90	239	5.4
TOT PCT	19.7	14.2	28.5	37.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.4	.0	.0	1.3	.4	6.7	.8	.4	1.3	.4	7.5	
NE	.5	.0	.0	.4	.4	5.5	.4	.4	.0	.4	7.9	
E	2.7	.0	.0	.0	.4	1.3	1.3	.0	.0	.0	4.1	
SE	.2	.0	.1	.8	.9	.8	.0	.0	.0	.0	.1	
S	.6	.0	.7	.4	2.3	2.7	1.2	.0	.4	.0	2.1	
SW	1.3	.0	.4	.8	.9	4.5	.1	.0	.0	.5	2.6	
W	1.4	.0	.0	.0	.0	2.6	.0	.0	.0	.3	1.9	
NW	.9	.0	.4	.0	2.9	3.5	.4	.0	.0	.4	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.0	.0	.0	.0	.4	.0	.0	.0	.0	7.5	
TOT OBS	26	0	4	9	20	67	10	2	4	5	92	239
TOT PCT	10.9	.0	1.7	3.8	8.4	28.0	4.2	.8	1.7	2.1	38.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	2.2	2.5	3.3	3.6	3.6	3.6	3.6	3.6
• OR >5000	2.9	3.3	4.0	4.3	4.3	4.3	4.3	4.3
• OR >3500	5.4	8.0	9.4	9.8	9.8	9.8	9.8	9.8
• OR >2000	19.6	29.7	34.8	37.3	38.4	38.4	38.4	38.4
• OR >1000	22.8	34.4	40.2	44.6	45.7	46.0	46.4	46.4
• OR >600	23.2	35.9	42.0	47.1	48.9	49.3	49.6	49.6
• OR >300	23.2	35.9	42.8	48.6	50.4	50.7	51.1	51.1
• OR >150	23.2	35.9	42.8	48.6	50.4	50.7	51.1	51.1
• OR > 0	23.2	36.6	46.4	53.6	57.6	62.0	63.0	63.0
TOTAL	64	101	128	148	159	171	174	174

TOTAL NUMBER OF OBS: 276

PCT FREQ NH <5/8: 37.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.4	2.6	5.8	3.5	8.0	4.8	8.3	11.5	30.4	10.6	312

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.9	.0	.9	.4	.5	.8	.5	.0	.0	.0	4.0	
<1/2	NO PCP	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.9	
	TOT %	.9	.0	1.2	.4	.5	.8	.8	.0	.0	.3	4.9	
	PCP	2.4	.3	.3	.0	.0	.2	.5	.1	.0	.0	3.7	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.3	
	TOT %	2.4	.3	.3	.0	.0	.2	.7	.1	.0	.0	4.0	
	PCP	.5	.7	.5	.2	1.2	1.5	.5	.7	.0	.0	5.8	
1<2	NO PCP	.0	.3	.3	.0	.0	.0	.0	.3	.0	.0	.9	
	TOT %	.5	1.0	.8	.2	1.2	1.5	.5	1.0	.0	.0	6.7	
	PCP	1.2	.5	.2	.4	1.4	1.0	.2	1.3	.0	.0	6.1	
2<5	NO PCP	1.5	.6	.3	.1	1.4	.5	.2	.3	.0	.0	4.9	
	TOT %	2.7	1.1	.5	.5	2.8	1.5	.5	1.6	.0	.0	11.0	
	PCP	.0	.0	.0	.0	.0	.9	.0	.0	.0	.3	1.2	
5<10	NO PCP	4.8	2.5	2.7	.3	3.1	2.1	1.5	2.7	.0	1.2	20.9	
	TOT %	4.8	2.5	2.7	.3	3.1	3.1	1.5	2.7	.0	1.5	22.1	
	PCP	.0	.3	.0	.3	.0	.0	.0	.3	.0	.0	.9	
10+	NO PCP	13.6	9.8	3.0	1.2	4.1	4.4	3.1	6.4	.0	4.9	50.3	
	TOT %	13.6	10.1	3.0	1.5	4.1	4.4	3.1	6.7	.0	4.9	51.2	
	TOT OBS												326
	TOT PCT	24.8	15.0	8.6	2.8	11.7	11.4	7.0	12.0	.0	6.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.6	
<1/2	4-10	.0	.0	.3	.0	.0	.3	.0	.0	.0		.6	
	11-21	.3	.0	.6	.3	.0	.1	.2	.0	.0		1.6	
	22+	.6	.0	.0	.1	.6	.4	.2	.0	.0		1.9	
	TOT %	1.0	.0	1.0	.4	.6	.8	.8	.0	.0	.3	4.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	11-21	1.0	.2	.0	.0	.0	.2	.5	.1	.0		1.9	
	22+	1.1	.2	.3	.0	.0	.1	.2	.0	.0		1.9	
	TOT %	2.5	.3	.3	.0	.0	.2	.7	.1	.0	.0	4.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.3	.0	.3	.6	.3	.0	.0		1.6	
	11-21	.6	.4	.6	.1	.0	.6	.0	.3	.0		2.5	
	22+	.0	.3	.0	.1	.9	.3	.2	.7	.0		2.5	
	TOT %	.6	.7	.9	.2	1.2	1.6	.6	1.0	.0	.0	6.7	
	0-3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
2<5	4-10	.6	.0	.3	.0	.2	.7	.0	.0	.0		1.9	
	11-21	1.2	1.0	.0	.0	1.6	.3	.0	1.6	.0		5.7	
	22+	.6	.1	.2	.5	.8	.4	.5	.1	.0		3.2	
	TOT %	2.8	1.1	.6	.5	2.6	1.4	.5	1.7	.0	.0	11.1	
	0-3	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.3	1.6	
5<10	4-10	2.1	1.3	1.0	.0	.8	1.2	.2	.8	.0		7.3	
	11-21	2.3	.9	1.2	.3	1.5	1.0	1.0	2.0	.0		10.2	
	22+	.6	.1	.6	.0	1.0	.7	.2	.0	.0		3.2	
	TOT %	4.9	2.2	2.8	.3	3.3	3.2	1.5	2.8	.0	1.3	22.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	
10+	4-10	6.3	3.9	1.3	.8	2.0	1.8	1.3	2.2	.0		19.7	
	11-21	6.1	5.6	1.5	.4	1.9	2.3	1.3	3.0	.0		22.2	
	22+	1.3	1.0	.3	.0	.3	.3	.2	1.0	.0		4.4	
	TOT %	13.7	10.5	3.1	1.2	4.2	4.4	2.9	6.3	.0	4.8	51.1	
	TOT OBS												315
	TOT PCT	25.4	14.8	8.6	2.5	11.8	11.7	7.0	11.8	.0	6.3	100.0	

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.3	.0	2.2	4.3	7.6	31.5	3.3	1.1	2.2	5.4	62.0	38.0	92
06&09	4.8	.0	.0	1.6	14.5	32.3	9.7	1.6	1.6	.0	66.1	33.9	62
12&15	15.3	.0	2.8	4.2	4.2	26.4	4.2	.0	1.4	1.4	59.7	40.3	72
18&21	26.8	.0	.0	1.8	5.4	21.4	5.4	.0	.0	.0	60.7	39.3	56
TOT	33	0	4	9	22	80	15	2	4	6	175	107	282
PCT	11.7	.0	1.4	3.2	7.8	28.4	5.3	.7	1.4	2.1	62.1	37.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.2	3.3	7.5	12.5	16.7	55.8	120
06&09	2.6	1.3	2.6	7.8	23.4	62.3	77
12&15	5.0	4.0	8.0	18.0	24.0	41.0	100
18&21	9.3	8.0	6.7	10.7	22.7	42.7	75
TOT	19	15	24	47	79	188	372
PCT	5.1	4.0	6.5	12.6	21.2	50.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.3	8.7	29.3	33.7	37.0	92
06&09	4.9	4.9	13.1	54.1	32.8	61
12&15	16.2	20.6	36.8	27.9	35.3	68
18&21	27.3	36.4	41.8	21.8	36.4	55
TOT	33	45	83	95	98	276
PCT	12.0	16.3	30.1	34.4	35.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	.0	.0	.0	100.0	.0	.0	2	100.0
TOTAL	0	0	0	0	0	2	0	0	2	100.0
PCT	.0	.0	.0	.0	.0	100.0	.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	100.0	.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	45	37	34	23	3	-1	-1	22.0	113
06&09	43	42	36	25	10	3	3	23.6	75
12&15	39	35	32	20	6	-2	-2	20.3	97
18&21	43	42	34	21	2	-4	-4	20.2	71
TOT	45	37	34	22	5	-1	-4	21.5	356

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	100.0	.0	.0	79	1
06&09	.0	.0	.0	100.0	.0	.0	70	1
12&15								
18&21								
TOT	0	0	0	2	0	0	75	2

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PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0015 OKHOTSK SEA NE
55.1N 154.1E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.4	.0	4	.0	1.6
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	3	.0	1.2
4	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	.0	3	.0	1.2
3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	1	.0	.4
2	.0	.0	.0	.0	.0	.0	.0	2.4	.4	.0	.0	.0	7	.4	2.4
1	.0	.0	.0	.0	.0	.0	.0	1.2	.8	.0	.0	.0	5	.0	2.0
0	.0	.0	.0	.0	.0	.0	.0	2.0	.4	.0	.0	.0	6	.0	2.4
-1	.0	.0	.0	.0	.0	.0	.4	.8	.4	.0	.0	.0	4	.0	1.6
-2	.0	.0	.0	.0	.0	.0	3.6	2.0	.0	.0	.0	.0	14	.0	5.6
-3	.0	.0	.0	.0	.0	.0	3.2	.0	.0	.0	.0	.0	8	.0	3.2
-4	.0	.0	.0	.0	.0	.4	3.6	.8	.0	.0	.0	.0	12	.0	4.8
-5	.0	.0	.0	.0	.0	2.4	5.2	.8	.0	.0	.0	.0	21	.0	8.4
-6	.0	.0	.0	.0	.0	1.2	2.8	.4	.0	.0	.0	.0	11	.4	4.0
-7/-8	.0	.0	.0	.0	.0	6.8	4.4	.0	.0	.0	.0	.0	28	.0	11.2
-9/-10	.0	.0	.0	.0	3.2	6.8	.8	.0	.0	.0	.0	.0	27	.0	10.8
-11/-13	.0	.0	.0	.4	6.0	3.2	.8	.0	.0	.0	.0	.0	26	.4	10.0
-14/-16	.0	.0	.0	6.4	3.2	1.6	.0	.0	.0	.0	.0	.0	28	.0	11.2
-17/-19	.0	.0	2.0	1.2	.0	.4	.0	.0	.0	.0	.0	.0	9	.0	3.6
-20/-22	.0	.4	3.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	11	.4	4.0
-23/-25	.0	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.4	2.8
-26/-30	2.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	3.2
<=30	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.2
TOTAL	10	8	16	21	31	57	62	27	11	4	1	1	249	5	244
PCT	4.0	3.2	6.4	8.4	12.4	22.9	24.9	10.8	4.4	1.6	.4	.4	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.0	.0	.0	.0	.0	3.0
1-2	.0	2.0	2.4	.0	.0	.0	4.4
3-4	.0	3.0	.7	.0	.0	.0	3.7
5-6	.0	1.3	1.3	.7	.0	.0	3.3
7	.0	.0	2.2	.0	.7	.0	3.0
8-9	.0	.0	.7	.6	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.3	7.4	1.3	.7	.0	18.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.2	.0	.0	.0	2.4
1-2	.0	.7	.9	.0	.0	.0	1.7
3-4	.0	.7	3.7	.0	.0	.0	4.4
5-6	.0	.2	3.7	.0	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.7	.0	.7
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.3	7.4	1.3	.7	.0	18.7

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.7	.7	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.7	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.2	.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
TOT PCT	.0	.9	.9	1.1	.2	.2	3.3

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0015 OKHOTSK SEA NE
55.1N 156.1E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.7	.0	.0	.0	2.8	.0	5.7	.7	.0	.0	.0	6.5
1-2	.0	1.9	.0	.0	.0	.0	1.9	.0	1.1	1.7	.0	.0	.0	2.8
3-4	.0	.7	1.3	.7	.0	.0	2.8	.0	.7	1.3	.2	.0	.0	2.2
5-6	.0	.0	.0	2.2	.0	.0	2.2	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.7	.0	1.3	.0	.0	.9	.9	.0	.0	1.9
12	.0	.0	.7	.0	.0	.0	.7	.0	.0	.7	.7	.0	.0	1.5
13-16	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	1.1	.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	.0
23-25	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	3.3	4.1	2.0	.6	14.6	.0	7.6	5.7	2.8	.0	.0	16.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7	.0	2.2	.7	.0	.0	.0	3.0	
1-2	.0	1.5	1.9	.0	.0	.0	3.3	.0	.9	2.0	.0	.0	.0	3.0	
3-4	.0	.0	1.1	.6	.0	.0	1.7	.0	.0	3.7	.0	.0	.0	3.7	
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.7	
10-11	.0	.0	.6	.6	.0	.0	1.1	.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	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.1	5.4	1.7	.0	.0	10.2	.0	3.1	7.4	.0	.7	.0	11.3	91.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.9	17.8	3.0	.0	.0	.0	29.6	
1-2	.0	8.9	10.4	.0	.0	.0	19.3	
3-4	.0	5.2	11.9	1.5	.0	.0	18.5	
5-6	.0	1.5	6.7	3.0	.0	.0	11.1	
7	.0	.0	2.2	.7	.7	.0	3.7	
8-9	.0	.0	2.2	1.5	.0	.0	3.7	
10-11	.0	.0	2.2	2.2	.7	.0	5.2	
12	.0	.0	1.5	.7	.0	.0	2.2	
13-16	.1	.0	.0	1.5	1.5	.0	3.0	
17-19	.0	.0	.0	1.5	.7	.0	2.2	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.0	.0	.7	.7	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.9	33.3	40.0	12.6	4.4	.7	100.0	135

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	12.1	12.7	6.4	1.3	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	3
6-7	.0	.0	3.8	.6	1.9	1.3	3.2	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
8-9	.0	.0	.0	.6	.6	1.9	.6	.6	1.3	1.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	14	13
10-11	.0	1.3	.0	.0	.0	.0	.0	.6	.6	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	7	13
12-13	.0	.0	1.3	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	5	10
>13	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
INDET	24.2	3.2	2.5	2.5	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	1
TOTAL	40	26	32	16	9	7	8	4	6	4	4	1	0	0	0	0	0	0	0	197	5
PCT	25.5	16.6	20.4	10.2	5.7	4.5	5.1	2.5	3.8	2.5	2.5	.6	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.7	.0	.0	.0	10.1	.3	.0	10.8	3.4	.0	3.5	.6	.0	.0		81.7
NE	.9	.1	.0	.0	10.4	.0	.0	10.9	3.6	.0	2.1	.9	.4	.4		81.7
E	8.9	3.4	2.2	.0	29.5	2.2	.0	44.0	2.5	.0	4.3	.9	.0	.0		48.3
SE	11.0	.9	3.9	.2	29.9	1.1	.7	41.6	3.9	.0	5.8	.2	.0	1.4		47.1
S	4.5	.7	3.6	.2	17.5	.9	.0	26.0	3.1	.0	10.8	.8	.0	.5		58.9
SW	3.0	.1	.0	.1	12.5	.4	.0	16.0	7.0	.0	5.5	.1	.0	.1		71.2
W	1.0	.4	.0	.4	16.1	1.0	.0	18.3	5.6	.0	2.6	.4	.0	.0		73.1
NW	.7	.0	.0	.0	19.7	1.4	.0	21.1	4.5	.0	1.3	.0	.0	.0		73.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	10.9	.0	.0	10.9	.0	.0	13.0	.0	.0	.0		76.1
TOT PCT	3.1	.5	1.2	.1	16.1	.7	.1	20.6	4.0	.0	5.4	.5	.1	.3		69.2
TOT OBS:	1695															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.4	.6	.9	.0	12.9	.6	.0	16.3	4.8	.0	6.9	.4	.0	.4		71.6
06&09	3.5	.0	1.9	.0	13.6	.7	.0	19.1	3.8	.0	3.5	.9	.2	.5		72.0
12&15	2.5	.5	1.6	.2	21.6	.9	.2	25.7	2.3	.0	3.4	.7	.0	.2		67.7
18&21	3.7	.7	.5	.2	16.4	.5	.0	21.0	5.6	.0	7.8	.0	.0	.0		65.5
TOT PCT	3.0	.5	1.2	.1	16.1	.7	.1	20.5	4.0	.0	5.4	.2	.1	.3		69.3
TOT OBS:	1735															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	6.2	7.1	2.3	.1	.0		17.2	13.1	14.6	14.7	18.8	16.0	20.8	17.9	18.2	13.4
NE	1.1	4.2	6.8	3.4	.2	.0		15.7	15.1	19.0	14.9	17.7	12.5	19.6	10.5	16.9	13.4
E	.7	1.9	1.7	.5	.3	.0		5.1	13.1	5.8	6.8	3.1	3.5	4.1	3.3	7.2	6.9
SE	.4	2.7	3.4	1.8	.5	.0		8.7	16.3	8.0	8.2	8.5	11.8	8.9	12.3	7.2	5.3
S	.8	5.6	8.8	6.3	1.0	.2		22.7	17.5	21.0	24.7	23.8	28.0	19.1	23.4	21.4	24.4
SW	.4	3.1	4.2	2.6	.1	.0		10.4	15.4	12.6	12.4	9.9	9.4	7.8	11.8	9.1	11.8
W	1.0	3.3	4.2	1.4	*	.0		10.0	13.0	9.7	7.0	8.7	5.3	13.0	12.6	10.4	12.0
NW	1.0	3.7	2.6	.8	.1	.0		8.1	11.2	6.6	8.3	9.0	10.4	8.4	6.9	6.6	10.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	2.6	3.0	.4	3.3	2.2	1.3	2.9	2.4
TOT OBS	151	517	651	323	37	3	1682		14.5	267	168	264	152	269	159	276	127
TOT PCT	9.0	30.7	38.7	19.2	2.2	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	7.7	4.4	1.1	.0		17.2	13.1	14.7	17.8	19.7	16.7
NE	2.4	7.4	4.5	1.4	.0		15.7	15.1	17.4	15.8	13.7	15.8
E	1.5	1.8	1.2	.5	.0		5.1	13.1	6.2	3.2	3.8	7.1
SE	1.6	3.0	3.0	1.0	.1		8.7	16.3	8.0	9.7	10.2	6.6
S	3.4	7.8	7.8	3.3	.4		22.7	17.5	22.4	25.3	20.7	22.3
SW	1.5	4.4	3.9	.5	.0		10.4	15.4	12.5	9.7	9.3	10.0
W	2.7	4.0	3.0	.3	.0		10.0	13.0	8.7	7.5	12.9	10.9
NW	2.5	4.0	1.3	.3	.0		8.1	11.2	7.3	9.5	7.8	7.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	2.8	1.4	1.9	2.7
TOT OBS	367	674	490	144	7	1682		14.5	435	416	428	403
TOT PCT	21.8	40.1	29.1	8.6	.4		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	6.4	32.2	37.2	18.4	2.5	.5	14.3	100.0	435
06&09	1.4	6.5	30.3	41.6	18.3	1.7	.2	14.6	100.0	416
12&15	1.9	6.1	30.1	39.3	20.1	2.6	.0	14.8	100.0	428
18&21	2.7	8.2	30.3	36.7	20.1	2.0	.0	14.2	100.0	403
TOT	37	114	517	651	329	37	8	14.5		1682
PCT	2.2	6.8	30.7	38.7	19.2	2.2	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.5	1.8	4.7	5.8		5.1
NE	3.8	1.2	4.5	5.6		5.2
E	.5	.2	.9	3.4		6.9
SE	.5	.6	1.0	6.5		7.1
S	2.0	.8	4.1	14.9		6.8
SW	1.6	.7	2.7	9.7		6.2
W	3.0	1.0	3.1	4.5		5.3
NW	1.9	.4	1.8	3.5		5.6
VAR	.0	.0	.0	.0		.0
CALM	.8	.2	.7	1.2		5.3
TOT OBS	274	102	346	755	1477	5.9
TOT PCT	18.6	6.9	23.4	51.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.0	.2	1.6	2.8	2.8	.6	.1	.0	.1	7.7	
NE	1.0	.1	.6	1.0	2.5	2.1	.9	.2	.1	.1	8.5	
E	1.9	.1	.1	.3	.9	.4	.2	.1	.0	.0	1.0	
SE	3.2	.0	.2	1.1	1.6	.8	.3	*	*	.0	1.4	
S	5.7	.1	1.4	5.6	2.5	2.2	.4	.2	.1	.0	3.4	
SW	1.4	.0	.3	3.1	1.6	1.3	.2	.1	.0	.0	2.7	
W	1.3	.0	.3	2.5	1.3	1.1	.1	.1	.0	.1	5.0	
NW	1.0	.0	.3	1.1	1.1	.9	.2	.1	.0	*	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.1	.3	.5	.3	.0	.0	.0	.0	1.4	
TOT OBS	250	4	51	248	217	175	42	12	3	4	473	1477
TOT PCT	16.9	.3	3.5	16.7	14.7	11.8	2.8	.8	.2	.3	32.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	.3	.5	.5	.5	.5	.5	.5	.5
≥ OR >5000	.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
≥ OR >3500	1.9	3.5	4.0	4.0	4.1	4.1	4.1	4.1
≥ OR >2000	6.0	11.3	14.4	15.5	15.8	15.9	15.9	15.9
≥ OR >1000	11.3	21.2	27.3	29.4	30.0	30.4	30.4	30.4
≥ OR >600	12.8	30.1	41.4	44.5	45.8	47.1	47.3	47.3
≥ OR >300	12.8	30.8	43.7	47.6	48.9	50.3	50.5	50.5
≥ OR >150	13.0	31.1	43.9	47.8	49.2	50.6	50.8	50.8
≥ OR > 0	13.0	31.3	45.4	52.5	57.3	63.1	67.6	67.9
TOTAL	192	462	670	775	845	930	997	1002

TOTAL NUMBER OF OBS: 1475

PCT FREQ NH <5/8: 32.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.0	6.1	7.2	5.5	3.8	4.5	7.0	10.8	30.2	15.9	1577

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.4	1.1	1.4	1.7	.3	.4	.5	.0	.0	6.1	
	NO PCP	.4	.3	.2	.5	2.2	.5	.3	.1	.0	.3	4.8	
	TOT %	.8	.8	1.3	1.9	3.9	.8	.7	.6	.0	.3	10.9	
1/2<1	PCP	.2	.1	.3	1.0	1.6	.2	.4	.3	.0	.0	4.1	
	NO PCP	.2	.1	.0	.2	.4	.1	.0	*	.0	.0	1.0	
	TOT %	.4	.3	.3	1.2	2.0	.3	.4	.3	.0	.0	5.1	
1<2	PCP	.7	.7	.6	.7	1.4	.3	.4	.5	.0	.1	5.4	
	NO PCP	.2	.3	*	.1	.5	.1	.2	.2	.0	.0	1.7	
	TOT %	.9	1.0	.7	.8	1.8	.4	.7	.7	.0	.1	7.1	
2<5	PCP	.4	.5	.1	.4	1.2	.6	.4	.3	.0	.2	4.3	
	NO PCP	1.2	1.5	.3	.5	3.6	1.5	1.0	1.0	.0	.3	10.9	
	TOT %	1.8	2.0	.5	.8	4.8	2.1	1.4	1.3	.0	.5	15.2	
5<10	PCP	.3	.1	.0	.1	.1	.2	.4	.2	.0	.0	1.3	
	NO PCP	5.5	3.8	.9	1.4	5.2	2.8	3.6	2.1	.0	.5	25.9	
	TOT %	5.8	3.9	.9	1.4	5.3	3.1	4.0	2.3	.0	.5	27.2	
10+	PCP	.1	.0	.0	.0	.0	.1	.2	.1	.0	.0	.4	
	NO PCP	7.3	6.8	1.2	2.2	4.8	3.7	3.6	3.1	.0	1.3	34.0	
	TOT %	7.4	6.8	1.2	2.2	4.8	3.7	3.8	3.2	.0	1.3	34.4	
	TOT OBS												1692
	TOT PCT	17.0	14.7	4.8	8.4	22.6	10.4	11.0	8.3	.0	2.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.0	.0	.1	.1	.0	.0	.1	.0	.2	.6	
	4-10	.3	.3	.2	.2	.9	.3	.2	.2	.0		2.5	
	11-21	.3	.4	.4	1.1	1.5	.3	.4	.1	.0		4.4	
	22+	.1	.2	.6	.6	1.4	.1	*	.3	.0		3.4	
	TOT %	.8	.8	1.3	2.0	3.9	.7	.6	.6	.0	.2	10.9	
1/2<1	0-3	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.1	
	4-10	.2	.1	*	.1	.3	.1	.1	*	.0		.9	
	11-21	.2	.1	.2	.4	.8	.0	*	.3	.0		1.9	
	22+	.0	.1	.1	.7	1.0	.2	.2	.0	.0		2.3	
	TOT %	.4	.3	.3	1.2	2.0	.3	.4	.3	.0	.0	5.2	
1<2	0-3	.1	.1	.1	.0	.0	.1	.1	.1	.0	.1	.6	
	4-10	.3	.3	.1	.2	.3	.1	.1	.5	.0		1.8	
	11-21	.7	.3	.5	.5	.6	.1	.2	.3	.0		3.4	
	22+	*	.5	.1	.2	1.2	.2	.3	.1	.0		2.5	
	TOT %	1.2	1.2	.8	.9	2.1	.5	.7	1.0	.0	.1	8.3	
2<5	0-3	.1	.1	.1	*	.2	.1	.2	.2	.0	.4	1.4	
	4-10	.4	.7	.2	.3	.7	.6	.5	.6	.0		4.1	
	11-21	.9	1.0	.2	.6	2.2	1.2	.8	.5	.0		7.4	
	22+	.5	.4	.0	.2	2.1	.6	.1	.2	.0		4.0	
	TOT %	2.0	2.2	.5	1.2	5.1	2.4	1.6	1.5	.0	.4	16.8	
5<10	0-3	.3	.2	.1	.0	.2	.1	.2	.1	.0	.4	1.7	
	4-10	1.7	1.0	.7	.9	1.5	1.2	1.2	1.1	.0		9.2	
	11-21	2.6	2.0	.1	.3	2.0	1.1	1.4	.5	.0		10.0	
	22+	1.1	.8	.0	.3	1.4	.6	.5	.2	.0		4.8	
	TOT %	5.6	4.0	1.0	1.4	5.2	2.9	3.3	2.0	.0	.4	25.7	
10+	0-3	1.0	.7	.4	.2	.4	.1	.4	.5	.0	1.1	4.9	
	4-10	2.9	2.0	.7	1.2	2.1	.9	1.4	1.4	.0		12.7	
	11-21	2.4	2.8	.2	.6	1.7	1.5	1.3	.8	.0		11.2	
	22+	.6	1.3	.0	.3	.5	1.1	.4	.2	.0		4.2	
	TOT %	6.8	6.8	1.3	2.3	4.6	3.6	3.5	2.9	.0	1.1	33.0	
	TOT OBS												1617
	TOT PCT	16.7	15.2	5.1	8.9	23.0	10.5	10.2	8.2	.0	2.2	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	12.9	.2	3.2	17.0	15.5	12.1	3.4	.7	.2	.7	66.0	34.0	412
06&09	13.7	.3	4.5	15.8	14.5	11.3	3.4	2.1	.5	.3	66.5	33.5	379
12&15	23.2	.3	2.2	11.6	13.7	11.9	2.2	.0	.0	.0	65.0	35.0	371
18&21	17.7	.3	3.6	21.9	14.4	11.9	2.2	.3	.0	.0	72.3	27.7	361
TOT	255	4	51	252	222	180	43	12	3	4	1026	497	1523
PCT	16.7	.3	3.3	16.5	14.6	11.8	2.8	.8	.2	.3	67.4	32.6	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
00&03	10.4	4.7	7.2	13.7	26.4	37.6	473
06&09	9.8	4.3	6.6	14.2	26.9	38.1	438
12&15	10.5	5.3	8.9	19.2	27.4	28.7	449
18&21	12.3	5.9	8.5	18.2	26.0	29.1	423
TOT	191	90	139	290	476	597	1783
PCT	10.7	5.0	7.8	16.3	26.7	33.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	13.2	20.1	43.8	23.4	32.8	402
06&09	13.7	21.4	44.0	24.7	31.4	373
12&15	24.1	29.2	51.0	18.1	30.9	353
18&21	18.4	25.4	57.6	18.2	24.2	347
TOT	253	352	720	313	442	1475
PCT	17.2	23.9	48.8	21.2	30.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
40/44	.0	.0	.0	.0	.0	.4	.6	.2	6	1.2
35/39	.0	.0	.0	.4	1.8	2.5	4.5	7.6	86	16.8
30/34	.0	.0	.0	.4	.4	2.3	15.7	41.1	306	59.9
25/29	.0	.0	.0	.0	.6	1.2	1.8	18.2	111	21.7
20/24	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	4	14	34	115	344	511	100.0
PCT	.0	.0	.0	.8	2.7	6.7	22.5	67.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.1	*	.0	.0
	.2	.0	.2	*	.3	.0	.1	*	.0	.2
	1.7	3.2	1.0	2.5	4.7	1.3	.6	.6	.0	1.2
	9.4	5.4	1.5	6.7	19.3	6.5	5.5	3.6	.0	2.0
	2.6	.7	.0	1.7	4.3	3.0	4.7	2.9	.0	.8
	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
	14.2	10.3	2.7	11.0	28.6	10.8	11.1	7.3	.0	4.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	45	41	32	24	19	7	32.5	475
06&09	45	41	39	32	25	19	7	32.1	437
12&15	39	36	36	30	23	17	7	29.8	462
18&21	39	37	36	30	21	16	7	29.9	431
TOT	50	41	37	32	23	18	7	31.1	1805

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.5	8.8	9.5	21.9	58.4	89	137
06&09	.0	.9	.0	6.0	31.9	61.2	90	116
12&15	.0	.7	.7	4.2	19.7	74.6	93	142
18&21	.0	.0	.8	6.6	17.2	75.4	93	122
TOT	0	4	14	34	116	349	91	517

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1938-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 17

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

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	6	.0	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	7	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.0	1.2	.7	.0	.0	20	.0	1.9
6	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	7	.0	.7
5	.0	.0	.0	.0	.0	.0	.6	1.7	.1	.0	.0	25	.1	2.3
4	.0	.0	.0	.0	.0	.2	3.4	1.5	.1	.0	.0	55	.2	5.0
3	.0	.0	.0	.0	.0	1.1	1.9	.3	.0	.0	.0	35	.2	3.1
2	.0	.0	.0	.0	.0	2.7	6.9	.8	.0	.0	.0	110	.1	10.3
1	.0	.0	.0	.0	.0	4.5	3.7	.2	.0	.0	.0	89	.3	8.1
0	.0	.0	.0	.0	2.1	11.5	3.7	.2	.0	.0	.0	185	1.4	16.1
-1	.0	.0	.0	.0	1.6	7.8	1.4	.1	.0	.0	.0	115	.5	10.4
-2	.0	.0	.0	.0	4.8	8.1	.9	.0	.0	.0	.0	146	.7	13.2
-3	.0	.0	.0	.0	3.1	2.7	.3	.0	.0	.0	.0	65	.4	5.8
-4	.0	.0	.0	.0	4.5	1.7	.4	.0	.0	.0	.0	70	.3	6.3
-5	.0	.0	.0	.6	3.6	.6	.2	.1	.0	.0	.0	53	.4	4.6
-6	.0	.0	.0	.4	.9	.3	.0	.0	.0	.0	.0	16	.3	1.2
-7/-8	.0	.0	.1	.5	.9	.1	.0	.0	.0	.0	.0	17	.0	1.6
-9/-10	.0	.0	.3	.4	.2	.1	.2	.0	.0	.0	.0	12	.0	1.1
-11/-13	.0	.0	.7	.3	.1	.0	.1	.0	.0	.0	.0	12	.0	1.1
-14/-16	.0	.0	.4	.2	.1	.1	.0	.0	.0	.0	.0	8	.0	.8
-20/-22	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-23/-25	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	1	15	24	232	440	250	71	16	5	1	1057	50	1007
PCT	.2	.1	1.4	2.3	21.9	41.6	23.7	6.7	1.5	.5	.1	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.8	.1	.0	.0	.0	2.6
1-2	.3	2.6	2.3	.0	.0	.0	5.1
3-4	.1	.9	1.4	.2	.0	.0	2.6
5-6	.0	.3	2.4	.1	.0	.0	2.8
7	.0	.0	.8	.1	.0	.0	.9
8-9	.0	.0	.4	.2	.0	.0	.5
10-11	.0	.0	.2	.2	.2	.0	.5
12	.0	.2	.0	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.7	7.6	.8	.2	.0	15.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.0	.0	.0	.0	.0	1.6
1-2	.2	1.5	2.4	.0	.0	.0	4.1
3-4	*	.3	1.9	.4	.0	.0	2.6
5-6	.0	.4	.7	.5	.0	.0	1.5
7	.0	.0	.2	.5	.4	.0	1.1
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.2	5.3	1.7	.5	.0	11.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.2	.0	.0	.0	.0	1.3
1-2	.1	.9	.2	.0	.0	.0	1.3
3-4	.0	.6	.5	.1	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	.6	.1	.0	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.1	1.2	.5	.0	.0	.0	1.7
3-4	.0	1.2	2.2	.1	.0	.0	3.5
5-6	.0	.4	.9	.7	.5	.0	2.6
7	.0	.0	.5	1.0	.0	.0	1.6
8-9	.0	.0	.0	*	*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.2	.0	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.2	4.3	2.0	.8	.0	10.6

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0015 OKHOTSK SEA NE
55.3N 154.6E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.5	.0	.0	.0	1.4	.2	.9	.2	.0	.0	.0	1.2
1-2	.1	2.6	2.0	.0	.0	.0	4.8	.4	1.1	1.0	.0	.0	.0	2.5
3-4	.0	1.9	4.3	1.4	.0	.0	7.6	.0	.9	1.8	.2	.0	.0	3.0
5-6	.0	.5	1.7	3.2	.2	.0	5.6	.0	.4	.2	.6	.0	.0	1.2
7	.0	.0	.8	1.8	.0	.0	2.6	.0	.0	1.0	.6	.0	.0	1.6
8-9	.0	.0	.2	1.0	.7	.0	1.8	.0	.0	.3	.6	.0	.0	.9
10-11	.0	.0	.0	1.1	.5	.0	1.6	.0	.0	.2	.8	.0	.0	.9
12	.0	.0	.0	.2	.0	.0	.2	.0	.2	*	.2	.0	.0	.4
13-16	.0	.0	.0	.3	.4	.4	1.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.2	.4	.0	.5	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.8	9.9	9.0	2.1	.5	27.6	.5	3.4	4.7	3.2	.0	.0	11.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	.3	.0	.0	.0	.0	.5	*	1.9	.2	.0	.0	.0	2.2	
1-2	.5	.7	.8	.0	.0	.0	1.9	.1	1.4	1.7	.0	.0	.0	3.2	
3-4	.0	.1	1.3	.0	.0	.0	1.4	.0	.2	.9	.0	.0	.0	1.0	
5-6	.0	.5	.9	.7	.0	.0	2.1	.0	.1	.3	.0	.0	.0	.4	
7	.0	.2	.0	.0	.0	.0	.2	.0	.0	*	*	.0	.0	.1	
8-9	.0	.2	.8	.1	.0	.0	1.1	.0	.0	.0	*	.0	.0	*	
10-11	.0	.0	.7	.7	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.1	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	2.0	4.6	1.5	.0	.0	8.7	.2	3.6	3.1	.1	.0	.0	7.0	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.2	8.3	1.1	.0	.0	.0	14.6	
1-2	1.8	12.1	10.8	.0	.0	.0	24.7	
3-4	.7	6.1	14.2	2.3	.0	.0	23.4	
5-6	.0	2.5	7.2	5.8	.7	.0	16.2	
7	.0	.2	3.4	4.1	.4	.0	8.1	
8-9	.0	.2	1.6	2.2	.7	.0	4.7	
10-11	.0	.0	1.1	2.9	.7	.0	4.7	
12	.0	.4	.2	.4	.0	.0	.9	
13-16	.0	.0	.0	.5	.4	.4	1.3	
17-19	.0	.0	.0	.0	.0	.2	.2	
20-22	.0	.0	.5	.0	.0	.0	.5	
23-25	.0	.0	.0	.2	.4	.0	.5	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.7	29.7	40.2	18.4	3.4	.5	100.0	555

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.5	20.8	16.1	5.2	4.2	1.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	396	3
6-7	.1	2.0	3.7	4.4	2.4	3.4	3.5	.6	.4	.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	150	7
8-9	.0	.1	1.3	1.8	.8	.4	1.3	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.0	.6	.8	.8	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.1	.1	.1	.7	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	10	9
>13	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	4	14
INDET	7.4	1.0	.8	.8	.3	.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	2
TOTAL	106	169	160	95	62	44	42	10	9	3	3	3	1	0	0	0	0	0	0	707	4
PCT	15.0	23.9	22.6	13.4	8.8	6.2	5.9	1.4	1.3	.4	.4	.4	.1	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.5	.0	1.3	.2	3.4	.4	.0	6.6	1.6	.0	14.9	1.2	1.0		.0	74.7
NE	2.6	.0	1.2	.1	5.1	1.5	.3	9.9	1.0	.0	10.1	.1	.3		.0	78.5
E	16.3	.0	5.8	.6	7.0	.6	.0	30.3	1.4	.0	10.8	.0	2.4		.0	55.2
SE	14.1	.0	10.5	.1	8.1	.0	.0	30.1	3.7	.0	23.7	.0	.6		.0	41.9
S	6.1	.0	4.7	.3	5.6	.0	.0	15.5	3.4	.0	22.2	.5	1.1		.0	57.3
SW	1.7	.0	1.3	.1	6.6	.0	.0	8.6	3.5	.0	19.7	1.0	1.7		.0	65.5
W	2.1	.0	1.6	.5	6.1	1.0	.0	9.6	3.4	.0	17.3	1.7	1.9		.0	66.1
NW	3.3	.0	1.8	.0	7.6	.7	.0	11.4	3.7	.0	17.2	.1	.2		.0	67.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.3	.0	1.2	.0	.0	.0	.0	3.5	.0	.0	34.9	.0	.0		.0	61.6
TOT PCT	4.4	.0	2.9	.2	5.4	.5	*	12.4	2.5	.0	17.5	.6	1.0		.0	66.0
TOT OBS:	2570															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.5	.0	3.3	.1	4.5	.4	.0	11.1	1.2	.0	20.0	.3	.6		.0	66.9
06&09	4.2	.0	1.6	.4	5.7	.6	.0	11.2	2.1	.0	15.4	1.3	1.4		.0	68.6
12&15	5.2	.0	3.6	.0	7.0	.3	.0	14.9	3.1	.0	15.4	.5	1.0		.0	65.1
18&21	4.8	.0	3.2	.2	4.5	.7	.2	12.6	4.1	.0	19.7	.3	.8		.0	62.4
TOT PCT	4.4	.0	2.9	.2	5.4	.5	*	12.4	2.6	.0	17.6	.6	1.0		.0	65.9
TOT OBS:	2615															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.1	7.9	10.8	1.3	.1	*		23.2	11.5	22.2	15.3	26.6	26.2	23.2	23.0	24.9	20.2
NE	2.1	6.3	5.0	1.1	.1	.0		14.6	10.7	15.4	9.8	14.7	11.7	17.9	14.9	16.5	10.4
E	1.0	2.1	1.4	.1	*	.0		4.8	9.2	5.1	5.7	1.8	5.9	4.4	7.6	4.2	8.1
SE	.6	2.9	2.4	.6	.3	.0		6.7	12.4	7.8	9.0	7.0	5.9	5.9	5.1	3.8	11.0
S	1.5	6.8	8.6	3.6	.3	.0		20.8	13.9	23.5	24.0	19.5	17.5	19.7	19.4	20.5	21.6
SW	1.0	3.8	2.5	.8	*	.0		8.0	10.6	6.8	11.2	7.2	9.3	8.6	9.3	7.1	6.7
W	1.4	3.7	2.3	.4	.0	.0		7.8	9.0	8.7	8.4	7.4	6.3	5.5	9.0	8.2	10.5
NW	1.4	5.8	3.5	.4	.0	.0		11.1	9.9	7.1	13.8	12.4	15.2	12.3	9.8	10.4	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	3.5	2.9	3.3	1.9	2.4	2.0	4.3	2.8
TOT OBS	388	1012	940	216	21	1	2578		11.0	429	245	490	206	411	200	419	178
TOT PCT	15.1	39.3	36.5	8.4	.8	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.1	12.2	4.6	.2	*		23.2	11.5	19.7	26.5	23.1	23.5
NE	4.8	6.8	2.6	.3	.0		14.6	10.7	13.4	12.8	16.9	14.7
E	2.0	2.1	.7	*	.0		4.8	9.2	5.3	3.0	5.5	5.4
SE	1.9	3.1	1.2	.3	.1		6.7	12.4	8.2	6.7	5.6	5.9
S	4.2	9.8	5.3	1.4	.0		20.8	13.9	23.7	18.9	19.6	20.9
SW	2.9	3.6	1.2	.4	.0		8.0	10.6	8.4	7.8	8.8	7.0
W	3.2	3.7	.8	.1	.0		7.8	9.0	8.6	7.1	6.6	8.9
NW	3.6	5.9	1.5	.1	.0		11.1	9.9	9.5	13.3	11.5	9.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	3.3	2.9	2.3	3.9
TOT OBS	822	1217	463	72	4	2578		11.0	674	696	611	597
TOT PCT	31.9	47.2	18.0	2.8	.2		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	11.4	40.5	35.9	7.9	1.0	.0	10.9	100.0	674
06&09	2.9	13.4	36.6	38.5	7.8	.9	.0	10.9	100.0	696
12&15	2.3	11.9	40.1	36.0	9.0	.5	.2	11.3	100.0	611
18&21	3.9	11.1	40.0	35.2	9.0	.8	.0	11.0	100.0	597
TOT	79	309	1012	940	216	21	1	11.0		2578
PCT	3.1	12.0	39.3	36.5	8.4	.8	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.6	2.9	5.0	10.9		5.4
NE	3.2	1.3	3.7	5.2		5.4
E	.4	.2	1.1	2.9		6.8
SE	.6	.1	.9	5.2		7.0
S	2.2	.6	3.0	14.7		6.8
SW	.9	.4	1.5	4.9		6.6
W	1.4	.5	1.8	4.5		6.1
NW	2.2	.8	2.2	6.4		6.0
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.4	2.4		6.3
TOT OBS	397	155	449	1294	2295	6.1
TOT PCT	17.3	6.8	19.6	56.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.2	.3	.3	2.4	3.7	1.3	1.0	.9	.3	.1	10.3	
NE	1.8	.1	.2	.6	1.8	1.8	.9	.6	.3	*	9.5	
E	1.0	.0	.2	.8	.8	.5	.1	.1	*	.0	1.0	
SE	2.0	.1	.2	1.1	1.3	.6	.3	.1	.1	*	.9	
S	4.8	.3	.4	3.1	3.5	2.8	.8	.8	.2	.1	3.7	
SW	1.3	.1	.1	1.1	2.0	.9	.2	.3	.1	*	1.6	
W	1.4	.1	.1	1.0	1.0	1.1	.6	.3	.1	*	2.3	
NW	1.7	.1	.4	1.7	1.9	.9	.8	.3	.1	*	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	*	*	.3	.9	.1	.1	.2	*	.1	.8	
TOT OBS	416	25	47	278	390	228	109	81	30	10	681	2295
TOT PCT	18.1	1.1	2.0	12.1	17.0	9.9	4.7	3.5	1.3	.4	29.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.0	1.6	1.7	1.7	1.7	1.7	1.8	1.8
* OR >3000	1.7	3.5	5.0	5.1	5.2	5.2	5.3	5.3
* OR >3500	3.2	6.3	9.1	9.6	9.8	9.8	10.1	10.1
* OR >2000	6.0	12.3	17.6	18.7	19.3	19.5	19.9	19.9
* OR >1000	9.8	21.6	32.0	34.2	35.3	36.0	36.4	36.6
* OR >600	11.6	27.2	41.3	44.8	46.5	47.7	48.3	48.3
* OR >300	11.8	28.0	42.6	46.5	48.3	49.6	50.2	50.2
* OR >150	11.8	28.2	43.2	47.3	49.4	50.6	51.3	51.3
* OR > 0	11.8	28.6	44.6	50.5	54.6	40.4	68.7	69.9
TOTAL	268	650	1013	1146	1240	1370	1559	1587

TOTAL NUMBER OF OBS: 2269

PCT FREQ NH <5/8: 30.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
6.6	9.6	6.3	4.0	2.8	3.2	6.3	8.3	35.8	17.1	2410

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.3	.3	.2	.5	.1	.2	.4	.0	*	2.2	
<1/2	NO PCP	2.7	1.1	.5	1.0	3.0	1.1	1.0	1.6	.0	.9	12.9	
	TOT %	2.9	1.4	.8	1.2	3.5	1.2	1.2	1.9	.0	.9	15.1	
	PCP	.3	.4	.2	.3	.7	.2	.1	*	.0	.0	2.1	
1/2<1	NO PCP	.3	.2	*	.3	.8	.2	*	.1	.0	*	2.0	
	TOT %	.6	.5	.3	.7	1.5	.4	.1	.1	.0	*	4.1	
	PCP	.3	.3	.3	.6	1.0	.2	.4	.4	.0	.0	3.5	
1<2	NO PCP	.4	.2	*	.3	.8	.3	.3	.3	.0	.0	2.6	
	TOT %	.7	.5	.3	.9	1.8	.5	.6	.8	.0	.0	6.0	
	PCP	.5	.4	.4	.7	.6	.1	.1	.4	.0	.1	3.2	
2<5	NO PCP	3.6	1.9	.4	.8	4.3	1.2	1.4	1.4	.0	.9	16.0	
	TOT %	4.1	2.3	.9	1.5	4.9	1.3	1.5	1.8	.0	1.0	19.3	
	PCP	.3	.1	.1	.2	.3	.1	.1	*	.0	.0	1.3	
5<10	NO PCP	6.6	3.6	1.0	1.4	4.3	2.2	2.0	2.7	.0	.2	24.1	
	TOT %	7.0	3.7	1.2	1.6	4.6	2.3	2.1	2.8	.0	.2	25.4	
	PCP	.0	*	.1	.0	.0	*	.1	*	.0	.0	.3	
10+	NO PCP	9.0	5.5	1.3	1.0	3.3	1.9	2.5	4.1	.0	1.1	29.7	
	TOT %	9.0	5.5	1.4	1.0	3.3	1.9	2.6	4.2	.0	1.1	30.0	
	TOT OBS												2565
	TOT PCT	24.2	13.8	4.9	6.9	19.6	7.6	8.1	11.6	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILIT.

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.6	.2	.3	.1	.2	.2	.3	.1	.0	.9	3.0	
<1/2	4-10	.7	.7	.4	.5	1.2	.8	.5	1.1	.0		6.0	
	11-21	1.1	.3	.1	.4	1.6	.3	.2	.6	.0		4.5	
	22+	.2	.2	.0	.2	.6	*	.0	.1	.0		1.3	
	TOT %	2.6	1.5	.8	1.1	3.6	1.3	1.1	1.9	.0	.9	14.8	
	0-3	.1	*	.0	.1	.0	*	.0	*	.0	.0	.2	
1/2<1	4-10	.2	.2	.1	.1	.3	.2	.1	.0	.0		1.2	
	11-21	.2	.2	.1	.3	.7	.2	.0	.1	.0		1.9	
	22+	*	.1	*	.2	.4	*	.0	.0	.0		.8	
	TOT %	.5	.5	.3	.7	1.4	.4	.1	.1	.0	.0	4.0	
	0-3	*	*	.0	.1	.2	.1	*	.1	.0	.0	.5	
1<2	4-10	.2	.2	.1	.3	.4	.3	.3	.2	.0		2.1	
	11-21	.4	.2	.1	.2	.9	.2	.2	.5	.0		2.8	
	22+	.0	*	.1	.2	.5	*	.1	*	.0		.9	
	TOT %	.7	.5	.3	.7	2.0	.7	.6	.8	.0	.0	6.3	
	0-3	.4	.4	.2	.1	.2	.2	.4	.3	.0	.9	3.0	
2<5	4-10	1.4	1.1	.5	.6	1.4	.7	.7	.9	.0		7.4	
	11-21	2.0	.6	.2	.6	2.5	.4	.5	.6	.0		7.5	
	22+	.4	.4	*	.2	1.2	.1	.1	.1	.0		2.5	
	TOT %	4.2	2.4	.9	1.6	5.4	1.4	1.6	1.9	.0	.9	20.3	
	0-3	.8	.7	.2	.2	.5	.3	.2	.3	.0	.2	3.5	
5<10	4-10	2.5	1.3	.4	.8	1.4	.8	1.0	1.5	.0		9.6	
	11-21	2.8	1.6	.6	.5	1.9	.9	.6	.7	.0		9.6	
	22+	.4	.3	*	.2	.9	.3	.1	.2	.0		2.5	
	TOT %	6.5	3.8	1.2	1.6	4.7	2.3	1.9	2.7	.0	.2	25.1	
	0-3	1.3	.8	.4	.1	.3	.2	.4	.5	.0	1.0	4.9	
10+	4-10	2.7	2.7	.6	.6	1.9	1.0	1.2	2.3	.0		13.1	
	11-21	4.3	1.8	.4	.3	.9	.5	.8	1.1	.0		10.2	
	22+	.3	.3	.0	*	.3	.3	.2	.1	.0		1.3	
	TOT %	8.6	5.5	1.5	1.0	3.3	2.0	2.6	4.0	.0	1.0	29.4	
	TOT OBS												2469
	TOT PCT	23.1	14.3	4.9	6.7	20.5	8.2	8.0	11.4	.0	3.0	100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	15.7	1.4	2.2	11.6	17.1	11.4	4.0	3.3	1.3	.2	68.1	31.9	631
06&09	14.9	1.4	2.9	11.4	16.0	11.2	4.6	3.4	2.0	.2	67.9	32.1	651
12&15	23.0	.2	.6	10.9	14.8	7.0	4.5	3.1	1.4	1.0	66.5	33.5	513
18&21	20.0	1.3	2.0	14.8	18.7	9.9	6.1	4.0	.4	.5	77.7	22.3	555
TOT	425	26	47	285	392	236	112	81	30	10	1644	706	2350
PCT	18.1	1.1	2.0	12.1	16.7	10.0	4.8	3.4	1.3	.4	70.0	30.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	13.6	5.4	7.4	18.6	24.2	30.9	706
06&09	13.4	3.3	6.2	17.9	26.9	32.3	722
12&15	17.4	3.2	5.8	21.3	23.9	28.3	619
18&21	17.6	4.6	5.7	21.2	25.1	25.8	609
TOT	408	110	168	521	666	783	2656
PCT	15.4	4.1	6.3	19.6	25.1	29.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	16.4	25.9	51.3	22.5	26.2	610
06&09	15.5	23.6	49.0	22.5	28.5	631
12&15	23.9	27.2	52.7	17.6	29.6	493
18&21	21.1	28.0	58.5	23.0	18.5	535
TOT	429	591	1195	489	585	2269
PCT	18.9	26.0	52.7	21.6	25.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
45/49	.0	.0	.0	.0	.3	.3	.1	.0	5	.6
40/44	.0	.0	.1	.1	.1	.8	2.2	.6	31	3.9
35/39	.0	.0	.0	.0	.4	4.3	7.9	26.2	305	38.8
30/34	.0	.0	.0	.0	.5	1.3	9.9	41.2	416	52.9
25/29	.0	.0	.0	.0	.3	.6	.3	2.4	28	3.6
TOTAL	0	0	1	1	13	57	160	554	786	100.0
PCT	.0	.0	.1	.1	1.7	7.3	20.4	70.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
.0	.1	.0	.2	.1	.0	.2	.1	.0	.0
.9	.3	.0	.3	.5	.2	.3	1.3	.0	.3
8.9	3.8	2.7	3.5	8.4	2.5	1.0	4.9	.0	3.1
14.2	2.6	1.9	3.1	11.0	5.7	3.7	8.2	.0	2.5
1.2	.2	.2	.6	.2	.3	.4	.4	.0	.1
25.3	7.2	4.8	7.5	20.3	8.6	5.6	14.8	.0	6.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	59	50	43	38	30	28	25	36.3	725
06&09	50	46	43	36	31	28	25	36.1	745
12&15	45	41	38	34	30	28	25	33.7	643
18&21	50	41	37	33	28	27	23	33.3	633
TOT	59	46	41	34	30	27	23	35.0	2746

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.5	2.9	10.2	24.8	61.7	90	206
06&09	.0	.5	1.8	8.7	24.3	64.7	90	218
12&15	.0	.0	.5	4.2	14.1	81.3	94	192
18&21	.0	.0	1.1	5.4	17.3	76.2	93	185
TOT	0	2	13	58	163	565	92	801

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 17

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

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.2	4	.1	.2
11/13	.0	.0	.0	.0	.1	.7	.1	13	.1	.8
9/10	.0	.0	.0	.0	.4	.4	.1	12	.4	.5
7/8	.0	.0	.0	1.1	1.8	.2	.0	43	.4	2.8
6	.0	.0	.0	.8	.1	.1	.0	14	.1	.9
5	.0	.0	1.0	3.3	.7	.1	.0	69	.4	4.6
4	.0	.3	4.6	3.4	.7	.0	.0	124	1.3	7.8
3	.0	.0	4.0	1.2	.3	.0	.0	76	.7	4.8
2	.0	1.4	11.9	3.8	.4	.0	.0	239	2.4	15.
1	.0	1.8	6.4	1.0	.1	.0	.0	129	1.7	7.8
0	.1	10.3	9.5	1.3	.3	.0	.0	294	4.8	16.7
-1	.1	2.7	3.6	.4	.1	.0	.0	94	1.6	5.3
-2	.6	5.8	2.6	.4	.0	.0	.0	128	2.9	6.4
-3	.1	1.8	1.0	.1	.0	.0	.0	42	1.5	1.5
-4	.8	1.1	.8	.2	.0	.0	.0	40	1.0	1.9
-5	.1	.7	.4	.1	.0	.0	.0	18	.5	.8
-6	.1	.3	.4	.0	.0	.0	.0	11	.2	.6
-7/-8	.4	.1	.1	.1	.1	.0	.0	10	.3	.4
-9/-10	.2	.0	.0	.0	.0	.0	.0	3	.0	.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	36	361	631	238	73	20	6	1365	282	1083
PCT	2.6	26.4	46.2	17.4	5.3	1.5	.4	100.0	20.7	79.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.1	.5	.0	.0	.0	5.5
1-2	.0	1.5	4.1	.0	.0	.0	5.6
3-4	.2	2.2	6.1	.4	.0	.0	8.9
5-6	.0	.1	2.0	.8	.0	.0	3.0
7	.0	.0	.2	.2	.2	.0	.5
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	7.0	13.1	1.8	.4	.0	24.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.2	.2	.0	.0	.0	3.2
1-2	.0	.9	.4	.0	.0	.0	1.4
3-4	.0	.5	.7	.4	.0	.0	1.6
5-6	.0	*	1.1	.2	.0	.0	1.3
7	.0	.0	1.1	.2	.0	.0	1.3
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.8	3.5	.9	.1	.0	9.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.9
1-2	.0	.7	.2	.0	.0	.0	.9
3-4	.0	.5	1.0	.0	.0	.0	1.5
5-6	.0	.6	.8	.0	.0	.0	1.4
7	.0	.0	.2	.6	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.1	2.2	.6	.0	.0	5.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.4	.2	.0	.0	.0	2.1
1-2	.2	.6	.8	.0	.0	.0	1.6
3-4	.0	.4	.6	.0	.0	.0	.9
5-6	.0	.2	.3	.4	.0	.0	.8
7	.0	.0	.3	*	.2	.0	.5
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.5	2.4	.6	.4	.0	6.6

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0015 OKHOTSK SEA NE
55.5N 154.6E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.4	.6	.0	.0	.0	3.3	.4	1.4	.2	.0	.0	.0	1.9
1-2	.0	1.3	2.8	.0	.0	.0	4.2	*	.6	.7	.0	.0	.0	1.3
3-4	.0	.8	2.0	1.6	.0	.0	4.5	*	1.2	1.7	.2	.0	.0	3.1
5-6	.0	.4	1.7	1.1	.0	.0	3.2	.0	.5	1.4	.8	.0	.0	2.7
7	.0	.0	.6	.6	.2	.0	1.4	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.5	.9	.2	.0	1.5	.0	.0	.2	.2	.0	.0	.5
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.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
TOT PCT	.3	4.9	8.2	4.6	.7	.0	18.8	.4	3.7	4.9	1.2	.0	.0	10.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.7	1.6	.3	.0	.0	.0	2.3	.5	2.7	.2	.0	.0	.0	3.5	
1-2	.2	.9	.3	.0	.0	.0	1.5	*	1.6	.8	.0	.0	.0	2.4	
3-4	.1	.4	1.1	.1	.0	.0	1.8	.0	2.1	4.0	.0	.0	.0	6.1	
5-6	.0	.2	.6	.0	.0	.0	.7	.0	.5	1.2	.1	.0	.0	1.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	3.1	2.3	.1	.0	.0	6.3	.6	7.0	6.3	.1	.0	.0	14.0	94.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.5	15.2	2.0	.0	.0	.0	27.8	
1-2	.5	8.2	10.2	.0	.0	.0	18.8	
3-4	.5	8.2	17.3	2.7	.0	.0	28.6	
5-6	.0	2.5	9.1	3.3	.0	.0	14.9	
7	.0	.0	3.1	1.6	.5	.0	5.2	
8-9	.0	.0	1.1	1.4	.2	.0	2.7	
10-11	.0	.0	.2	.8	.0	.0	.9	
12	.0	.0	.0	.0	.5	.0	.5	
13-16	.0	.0	.0	.2	.2	.0	.3	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.5	34.1	43.0	9.9	1.6	.0	100.0	637

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	17.9	14.9	15.7	6.3	3.9	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	558	2
6-7	.1	2.7	8.8	5.6	2.5	.6	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	5
8-9	.0	.1	1.6	1.8	.4	.1	.3	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	6
10-11	.0	.1	.1	.0	.1	.0	.3	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
12-13	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
>13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	7.4	.7	1.6	1.0	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	2
TOTAL	237	173	261	138	67	21	19	11	3	5	0	0	0	0	0	0	0	0	0	935	3
PCT	25.3	18.5	27.9	14.8	7.2	2.2	2.0	1.2	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1939-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	4.7	.4	1.2	.0	.0	.0	.0	6.3	2.5	.0	22.4	1.1	.0	.0		67.7
NE	10.0	.0	.0	.0	.0	.0	.0	10.0	.2	.0	20.2	1.5	.0	.0		68.1
E	18.9	.0	2.2	.0	.0	.0	.0	20.2	4.1	.0	11.7	.9	.0	.0		63.1
SE	31.8	.0	6.7	.0	.0	.0	.0	38.3	3.8	.0	12.2	1.5	.0	.0		44.2
S	14.1	.5	9.5	.0	.0	.0	.0	22.8	2.3	.0	32.1	.9	.3	.0		41.7
SW	6.0	.1	11.5	.0	.0	.0	.0	17.7	.9	.0	35.8	2.6	.0	.0		43.2
W	3.9	.6	1.3	.0	.0	.0	.0	5.8	3.0	.0	25.9	.7	.0	.0		64.6
NW	4.0	.0	2.0	.0	.0	.0	.0	6.1	1.4	.0	23.8	.8	.0	.0		68.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	.0	25.9	1.2	1.2	.0		67.9
TOT PCT	10.7	.3	5.0	.0	.0	.0	.0	15.9	2.1	.0	25.3	1.2	.1	.0		55.4
TOT OBS:	1476															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	11.1	.3	4.8	.0	.0	.0	.0	16.1	2.0	.0	24.4	1.5	.3	.0		55.8
06&09	11.3	.3	2.2	.0	.0	.0	.0	13.7	1.3	.0	23.7	1.1	.0	.0		60.2
12&15	10.3	.3	6.3	.0	.0	.0	.0	16.6	1.8	.0	27.1	.3	.3	.0		53.9
18&21	10.9	.3	6.9	.0	.0	.0	.0	17.7	3.4	.0	26.0	2.0	.0	.0		50.9
TOT PCT	10.9	.3	5.0	.0	.0	.0	.0	16.0	2.1	.0	25.3	1.2	.1	.0		55.3
TOT OBS:	1500															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.5	7.7	6.1	.9	.0	.0		16.2	10.8	14.4	14.8	18.5	23.8	14.4	19.8	15.0	17.9
NE	1.1	4.2	1.7	.1	.0	.0		7.1	7.9	7.1	4.0	5.3	7.1	7.5	8.6	10.6	4.5
E	.9	2.5	.9	.2	.0	.0		4.5	7.8	3.7	3.2	2.8	3.4	4.6	6.9	5.4	6.8
SE	1.0	3.2	9.2	1.0	*	.0		10.4	12.4	14.8	12.1	5.8	5.6	8.7	8.3	11.6	17.6
S	1.1	6.8	11.5	4.4	.3	.0		24.1	15.0	27.0	25.3	20.9	23.8	26.3	27.0	20.2	23.9
SW	.8	5.3	4.1	.9	*	.0		11.1	11.0	8.6	13.4	17.3	9.3	10.1	6.6	11.6	6.3
W	2.1	5.1	2.0	.0	.0	.0		9.3	7.3	11.6	5.1	9.5	7.7	8.8	5.2	12.1	6.3
NW	1.3	6.3	4.1	.0	.0	.0		11.8	9.2	8.2	15.6	13.0	13.3	13.0	17.0	10.3	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6							5.6	.0	4.5	6.5	7.0	6.2	6.5	4.6	3.3	6.8
TOT OBS	199	521	461	97	4	0	1293		10.5	243	93	243	81	246	87	212	88
TOT PCT	15.4	41.1	39.7	7.5	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	8.8	2.7	.3	.0		16.2	10.8	14.5	19.8	14.8	15.8
NE	3.3	3.5	.3	.0	.0		7.1	7.9	6.3	5.8	7.8	8.8
E	2.4	1.7	.3	.0	.0		4.5	7.8	3.6	2.9	5.2	6.4
SE	2.3	5.6	2.4	.2	.0		10.4	12.4	14.1	5.7	8.6	13.3
S	3.3	10.7	8.1	1.7	.0		24.1	15.0	26.5	21.6	26.5	21.3
SW	3.7	5.1	2.1	.2	.0		11.1	11.0	10.0	15.3	9.2	10.0
W	4.5	4.3	.4	.0	.0		9.3	7.3	9.8	9.0	7.9	10.4
NW	3.4	7.7	.7	.0	.0		11.8	9.2	10.3	13.0	14.0	9.6
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	5.6						5.6	.0	5.1	6.8	6.0	4.3
TOT OBS	428	613	221	31	0	1293		10.5	336	324	333	300
TOT PCT	33.1	47.4	17.1	2.4	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1939-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.1	11.6	38.1	38.1	7.1	.0	.0	10.4	100.0	336
06&09	6.8	7.7	39.8	37.7	7.4	.6	.0	10.9	100.0	324
12&15	6.0	9.3	43.8	33.0	7.8	.0	.0	10.3	100.0	333
18&21	4.3	10.7	42.7	34.0	7.7	.7	.0	10.6	100.0	300
TOT	72	127	531	462	97	4	0	10.5		1293
PCT	5.6	9.8	41.1	35.7	7.5	.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	.8	3.0	8.7		6.1
NE	1.1	.6	.7	4.4		6.3
E	.2	.4	1.2	3.0		7.0
SE	.3	.2	1.4	8.5		7.5
S	1.1	.6	2.4	20.8		7.4
SW	.7	.4	.9	9.7		7.3
W	.8	.2	1.3	6.9		7.1
NW	1.7	.6	2.4	6.6		6.4
VAR	.0	.0	.0	.0		.0
CALM	.7	.7	1.2	3.0		6.3
TOT OBS	130	62	202	993	1387	6.9
TOT PCT	9.4	4.5	14.6	71.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.6	.1	.3	3.4	1.7	1.0	.4	.4	.4	.1	4.8	
NE	.9	.1	.1	1.3	1.3	.7	.1	.3	.0	.1	2.0	
E	.3	.0	.1	1.4	1.5	.4	.1	.1	.2	.1	.7	
SE	1.6	.1	1.3	2.4	2.1	1.1	.4	.2	.3	*	.8	
S	6.2	.9	1.3	7.0	4.3	1.4	.6	.5	.1	.1	2.6	
SW	3.4	.1	.3	2.4	2.4	1.0	.4	.5	*	.0	1.2	
W	1.6	.1	.2	1.7	2.1	1.7	.2	.4	.0	.0	1.4	
NW	2.2	*	.1	1.6	2.3	1.0	.3	.3	.1	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.1	.1	.2	1.4	.7	.1	.1	.1	.0	1.7	
TOT OBS	277	20	52	297	265	124	37	38	18	4	255	1387
TOT PCT	20.0	1.4	3.7	21.4	19.1	8.9	2.7	2.7	1.3	.3	18.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.4	1.5	1.5	1.5	1.6	1.6	1.6
* OR >5000	1.4	2.5	3.1	3.3	3.3	3.6	4.3	4.3
* OR >3500	2.9	4.8	5.7	5.8	5.9	6.2	6.9	6.9
* OR >2000	5.7	11.7	14.6	14.9	15.0	15.3	15.9	15.9
* OR >1000	12.2	25.1	31.7	32.6	33.1	34.2	34.9	34.9
* OR >600	16.7	36.4	47.6	51.0	52.4	54.9	56.0	56.0
* OR >300	16.7	37.6	50.4	54.6	56.2	58.7	59.9	59.9
* OR >150	16.7	37.7	51.1	55.7	57.3	59.9	61.2	61.2
* OR > 0	16.7	37.9	51.9	57.3	60.7	68.0	80.7	81.5
TOTAL	231	523	716	791	837	939	1113	1125

TOTAL NUMBER OF OBS: 1380 PCT FREQ NH <5/8: 18.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.0	5.2	4.6	1.8	2.6	3.6	4.4	5.8	49.8	18.5	1439

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.2	.6	.3	.0	.0	.0	.0	1.1	
<1/2	NO PCP	2.8	1.0	.4	.9	5.9	3.6	2.0	2.3	.0	1.3	20.1	
	TOT %	2.8	1.0	.4	1.1	6.5	3.9	2.0	2.3	.0	1.3	21.2	
	PCP	.1	.0	.0	.2	.5	.2	.0	*	.0	.0	1.0	
1/2<1	NO PCP	.9	.2	.2	.1	1.3	.2	.1	.2	.0	.0	2.7	
	TOT %	.9	.2	.2	.3	1.8	.4	.1	.2	.0	.0	3.7	
	PCP	.1	.2	.2	.9	1.7	.3	.0	.1	.0	.0	3.5	
1<2	NO PCP	.1	.1	.1	*	.8	.2	.2	*	.0	.1	1.7	
	TOT %	.2	.3	.3	.9	2.5	.5	.2	.1	.0	.1	5.2	
	PCP	.9	.1	.3	1.4	2.3	.5	.2	.2	.0	.0	5.6	
2<5	NO PCP	1.6	.5	.4	1.4	2.4	1.4	.6	.8	.0	.6	9.7	
	TOT %	2.2	.6	.7	2.8	4.7	1.9	.9	1.0	.0	.6	15.3	
	PCP	.2	.3	.6	1.3	.6	.7	.2	.3	.0	.2	4.5	
5<10	NO PCP	3.9	1.6	.9	1.4	4.9	2.3	3.3	3.6	.0	.7	22.5	
	TOT %	4.1	1.9	1.6	2.7	5.4	3.0	3.5	3.9	.0	.9	27.0	
	PCP	.1	.1	.0	.0	.0	*	.1	.1	.0	.0	.3	
10+	NO PCP	5.5	2.7	2.3	2.6	4.0	2.1	2.4	3.3	.0	2.6	27.4	
	TOT %	5.5	2.8	2.3	2.6	4.0	2.1	2.5	3.4	.0	2.6	27.7	
	TOT OBS												1473
	TOT PCT	15.3	6.8	5.3	10.4	24.9	11.8	9.1	10.9	.0	5.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.3	.0	.1	.3	.3	.7	.6	.0	1.3	3.8	
<1/2	4-10	1.6	.5	.4	.3	1.9	1.3	.9	1.3	.0		8.2	
	11-21	1.0	.2	.0	.7	3.4	1.5	.4	.7	.0		7.9	
	22+	.1	.0	.0	*	1.1	.7	.0	.0	.0		1.9	
	TOT %	2.9	1.1	.4	1.1	6.8	3.8	1.9	2.5	.0	1.3	21.8	
	0-3	.1	.2	.0	.0	.0	.0	.1	*	.0	.0	.4	
1/2<1	4-10	.2	*	.1	.2	.2	.2	.0	.1	.0		1.0	
	11-21	.1	*	.1	.2	1.0	.1	.0	.1	.0		1.6	
	22+	.0	.0	.0	.0	.2	.1	.0	.0	.0		.3	
	TOT %	.4	.3	.1	.4	1.4	.4	.1	.2	.0	.0	3.3	
	0-3	.2	.1	.1	.0	.1	*	.0	.0	.0	.1	.5	
1<2	4-10	.0	.3	.0	.2	.5	.3	.0	.0	.0		1.3	
	11-21	.1	.0	.1	.4	1.1	.1	.0	.1	.0		1.8	
	22+	.0	.0	.1	.2	.7	.0	.0	.0	.0		1.0	
	TOT %	.2	.4	.2	.7	2.4	.4	.0	.1	.0	.1	4.6	
	0-3	.2	.1	.1	*	.0	.2	.0	.2	.0	.7	1.5	
2<5	4-10	1.0	.3	.3	.7	.9	.8	.6	.6	.0		5.2	
	11-21	.5	.2	.2	1.6	2.4	.8	.2	.4	.0		6.3	
	22+	.6	.0	.0	.6	1.5	.0	.0	.0	.0		2.8	
	TOT %	2.4	.6	.6	3.0	4.8	1.7	.9	1.1	.0	.7	15.8	
	0-3	.2	.1	.3	.4	.2	.2	.8	.4	.0	1.0	3.6	
5<10	4-10	2.8	1.2	.7	.9	1.5	1.4	2.2	2.5	.0		13.2	
	11-21	1.6	.6	.2	1.3	2.2	1.1	.9	1.2	.0		9.2	
	22+	.1	.0	.1	.2	.9	.1	.0	.0	.0		1.3	
	TOT %	4.7	1.9	1.3	2.7	4.8	2.9	3.9	4.1	.0	1.0	27.3	
	0-3	.6	.2	.3	.4	.6	.1	.5	.1	.0	2.5	5.4	
10+	4-10	2.3	1.7	1.2	1.0	1.6	1.3	1.8	1.9	.0		12.5	
	11-21	2.8	.5	.4	1.1	1.4	.6	.6	1.5	.0		8.9	
	22+	.2	.1	.1	.1	.2	.0	.0	.0	.0		.6	
	TOT %	5.8	2.6	1.9	2.7	3.7	1.9	2.6	3.5	.0	2.5	27.3	
	TOT OBS												1261
	TOT PCT	16.5	6.9	4.5	10.5	23.9	11.2	9.3	11.6	.0	5.6	100.0	

JUNE

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	18.5	.5	5.9	24.2	18.3	8.3	2.7	3.5	1.1	.3	83.3	16.7	372
06&09	16.4	1.4	4.0	20.7	17.8	10.2	3.7	2.0	1.4	.3	77.9	22.1	353
12&15	24.6	1.2	1.4	19.1	18.2	9.2	2.0	2.9	2.0	.3	80.9	19.1	346
18&21	20.5	2.7	3.9	21.1	21.4	8.3	2.4	2.4	.6	.3	83.6	16.4	336
TOT	281	20	54	300	266	121	38	38	18	4	1146	261	1407
PCT	20.0	1.4	3.8	21.3	18.9	9.0	2.7	2.7	1.3	.3	81.4	18.6	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
00&03	19.7	4.0	6.0	18.2	24.7	27.4	401
06&09	18.9	2.9	4.5	16.5	28.7	28.5	376
12&15	23.7	3.2	5.8	13.9	24.5	29.5	380
18&21	23.9	4.8	6.3	11.4	29.3	24.4	352
TOT	324	56	83	228	403	415	1509
PCT	21.5	3.7	5.5	15.1	26.7	27.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	18.7	30.9	62.9	22.5	14.6	369
06&09	16.7	27.1	55.0	23.6	19.3	347
12&15	23.0	31.8	54.8	27.4	17.9	336
18&21	21.0	34.1	60.1	25.0	14.9	328
TOT	280	427	804	346	230	1380
PCT	20.3	30.9	58.3	25.1	16.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.3	.2	.0	.0	3	.5
55/59	.0	.0	.0	.0	.2	.8	.2	.0	7	1.1
50/54	.0	.0	.0	.0	.0	1.1	4.6	1.8	49	7.6
45/49	.0	.0	.0	.0	.3	2.5	11.9	28.7	281	43.3
40/44	.0	.0	.0	.2	.0	.3	7.2	31.6	255	39.3
35/39	.0	.0	.0	.0	.0	.0	.9	7.4	54	8.3
TOTAL	0	0	0	1	5	31	161	451	649	100.0
PCT	.0	.0	.0	.2	.8	4.8	24.8	69.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.0	.0	.0	.2	.0	.0	.0	.0	.2
	.2	.0	.0	.2	.0	.0	.2	.5	.0	.2
	1.7	.5	.3	.4	.4	1.3	1.0	1.2	.0	.9
	5.0	2.9	4.5	5.3	10.4	4.1	2.6	5.7	.0	2.8
	7.6	1.9	.7	5.3	11.4	3.8	3.2	4.3	.0	1.1
	2.5	.2	.0	.2	1.9	.4	.5	2.0	.0	.6
PCT	17.0	5.5	5.5	11.3	24.3	9.6	7.4	13.7	.0	5.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	68	58	53	45	38	36	33	44.7	403
06&09	65	59	54	45	37	35	32	45.0	380
12&15	51	50	48	43	36	32	32	42.7	392
18&21	55	52	48	43	36	32	30	42.1	360
TOT	68	55	51	43	37	33	30	43.7	1535

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.6	1.2	10.4	28.7	59.1	90	164
06&09	.0	.0	1.2	6.0	31.5	61.2	91	168
12&15	.0	.0	.0	.6	23.8	75.6	93	164
18&21	.0	.0	.6	2.5	16.8	80.1	93	161
TOT	0	1	5	32	106	453	92	657

JUNE

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1933-1974

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

TABLE 17

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

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.2	.2	5	.0	.4
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	3	.0	.3
14/16	.0	.0	.0	.0	.2	.1	.0	.2	.0	.0	5	.1	.4
11/13	.0	.0	.0	.1	.1	.3	.6	.2	.1	.0	15	.3	1.1
9/10	.0	.0	.0	.0	.4	.5	.2	.2	.0	.0	14	.2	1.1
7/8	.0	.0	.0	.0	1.0	1.2	.8	.0	.0	.0	34	.7	2.3
6	.0	.0	.0	.0	.5	1.1	.2	.0	.0	.0	20	.3	1.5
5	.0	.0	.0	.6	1.9	1.6	.1	.0	.0	.0	48	.7	3.5
4	.0	.0	.0	1.5	5.0	.8	.1	.0	.0	.0	84	.6	6.8
3	.0	.0	.2	1.6	4.1	.9	.0	.0	.0	.0	76	.6	6.1
2	.0	.2	1.1	3.9	7.7	.8	.0	.0	.0	.0	154	2.6	11.0
1	.0	.1	1.9	7.0	4.9	.6	.0	.0	.0	.0	164	3.1	11.4
0	.1	.4	2.8	8.0	4.7	.4	.0	.0	.0	.0	186	4.1	12.2
-1	.0	.4	1.0	5.6	1.7	.1	.0	.0	.0	.0	98	2.2	6.4
-2	.2	.3	2.0	4.6	.8	.0	.1	.0	.0	.0	90	3.3	4.7
-3	.1	.3	2.1	1.1	.4	.0	.0	.0	.0	.0	44	1.6	2.3
-4	.2	.7	1.4	1.1	.2	.0	.0	.0	.0	.0	40	1.5	2.0
-5	.2	.4	2.3	.3	.1	.0	.0	.0	.0	.0	36	1.1	2.0
-6	.0	.3	.4	.1	.0	.0	.0	.0	.0	.0	8	.5	.2
-7/-8	.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	9	.5	.3
-9/-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.2	.0
TOTAL	10	38	179	401	380	95	24	8	3	3	1135	274	861
PCT	.9	3.3	15.2	35.3	33.5	8.4	2.1	.7	.3	.3	100.0	24.1	75.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.6	.4	.0	.0	.0	3.5
1-2	.4	3.4	2.4	.0	.0	.0	6.2
3-4	.1	.9	2.9	.9	.0	.0	4.9
5-6	.0	.0	.9	.1	.0	.0	1.1
7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.0	7.2	1.3	.0	.0	16.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.8	.4	.0	.0	.0	3.4
1-2	*	.9	.5	.0	.0	.0	1.5
3-4	.0	.7	.3	.0	.0	.0	1.0
5-6	.0	.1	.4	.0	.0	.0	.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	2.1	.1	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.5	.1	.0	.0	.0	2.7
1-2	.1	1.4	.7	.0	.0	.0	2.2
3-4	.0	.1	.1	.3	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.0	1.0	.3	.0	.0	5.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.7	*	.0	.0	.0	.0
1-2	.3	1.2	2.8	.0	.0	.0	4.4
3-4	.0	1.1	2.6	.5	.0	.0	4.2
5-6	.0	.1	.7	.4	.0	.0	1.2
7	.0	.0	.4	.3	.0	.0	.7
8-9	.0	.0	.0	*	*	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.2	6.6	1.3	*	.0	12.7

PERIOD: (OVER-ALL) 1963-1974

JUNE

TABLE 18 (CONT)

AREA 0015 OKHOTSK SEA NE
55.3N 154.3E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.3	.0	.0	.0	2.6
1-2	.3	3.0	1.4	.0	.0	.0	4.6
3-4	.0	1.2	2.8	.4	.0	.0	4.4
5-6	.0	.4	2.4	1.6	.1	.0	4.6
7	.0	.0	2.6	.9	.0	.0	3.4
8-9	.0	.0	.1	.4	.1	.0	.6
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.5	9.8	3.4	.2	.0	20.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.1	.0	.0	.0	.0	2.7
1-2	.0	1.3	.8	.0	.0	.0	2.0
3-4	.0	.9	.7	*	.0	.0	1.6
5-6	.0	.1	1.6	.4	*	.0	2.1
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.3	.1	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.4	3.8	.5	*	.0	9.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	2.0	.1	.0	.0	.0	3.7
1-2	.1	1.2	.4	.0	.0	.0	1.8
3-4	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	.3	.4	.0	.0	.0	.7
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.7	3.8	2.2	.0	.0	.0	7.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	2.7	.4	.0	.0	.0	3.4	
1-2	.1	2.1	1.5	.0	.0	.0	3.7	
3-4	.0	.8	3.0	.0	.0	.0	3.8	
5-6	.0	.0	.8	.0	.0	.0	.8	
7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.7	5.9	.0	.0	.0	12.0	91.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.8	17.3	1.9	.0	.0	.0	31.9	
1-2	1.9	14.5	10.4	.0	.0	.0	26.9	
3-4	.1	6.1	13.6	2.0	.0	.0	21.9	
5-6	.0	1.2	7.3	2.5	.1	.0	11.0	
7	.0	.0	4.4	1.5	.0	.0	5.8	
8-9	.0	.1	.7	.6	.1	.0	1.6	
10-11	.0	.0	.3	.1	.0	.0	.4	
12	.0	.1	.0	.3	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.8	39.3	38.6	7.0	.3	.0	100.0	689

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.6	22.1	14.4	7.1	2.2	.6	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	340	3
6-7	.0	2.7	6.2	6.8	3.0	1.5	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	5
8-9	.0	1.4	1.5	3.6	2.1	.4	.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	6
10-11	.0	.4	.0	.0	.2	.4	.4	.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	2.8	1.8	1.5	.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	2
TOTAL	126	267	224	175	75	32	18	4	17	2	0	0	0	0	0	0	0	0	0	940	4
PCT	13.4	28.4	23.8	18.6	8.0	3.4	1.9	.4	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1969-1974
(OVER-ALL) 1906-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.3	.0	.6	.0	.0	.0	.0	2.8	1.0	.0	31.5	1.1	.0		.0	63.6
NE	6.6	.0	5.8	.0	.0	.0	.0	12.5	1.1	.0	22.7	.0	2.2		.0	61.5
E	18.8	.0	6.9	.0	.0	.0	.0	25.7	5.4	.0	26.7	2.0	.0		.0	40.1
SE	11.1	.3	9.0	.0	.0	.0	.0	20.3	6.6	.0	30.3	.0	.0		.0	42.7
S	14.0	.7	9.7	.0	.0	.0	.0	23.9	2.7	.0	33.9	1.2	.3		.0	38.0
SW	5.1	.1	6.9	.0	.0	.0	.0	12.1	2.1	.0	40.0	1.1	.8		.0	43.9
W	3.8	.4	1.6	.0	.0	.0	.0	5.9	1.0	.0	33.2	.4	1.0		.0	58.4
NW	1.0	.0	3.4	.0	.0	.0	.0	4.4	4.4	.0	33.3	1.6	.2		.0	56.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.7	1.4	3.5	.0	.0	.0	.0	10.6	1.4	.0	51.8	.0	.0		.0	36.2
TOT PCT	7.5	.4	5.7	.0	.0	.0	.0	13.5	2.5	.0	35.0	.9	.5		.0	47.6
TOT OBS:	1461															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.4	.5	4.6	.0	.0	.0	.0	9.2	2.2	.0	35.7	1.2	.5		.0	51.2
06&09	8.3	.0	4.4	.0	.0	.0	.0	12.7	1.1	.0	34.5	1.1	.6		.0	50.0
12&15	9.5	.8	6.5	.0	.0	.0	.0	16.5	.8	.0	34.1	.3	1.1		.0	47.2
18&21	8.7	.3	7.2	.0	.0	.0	.0	16.1	6.0	.0	36.7	1.2	.0		.0	40.0
TOT PCT	7.6	.4	5.6	.0	.0	.0	.0	13.5	2.4	.0	35.3	.9	.5		.0	47.4
TOT OBS:	1478															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	5.9	3.3	1.1	.0	.0		11.3	10.6	9.8	10.8	13.4	15.2	12.0	10.4	10.2	7.3
NE	.4	3.0	2.6	.4	.0	.0		6.4	10.9	7.4	7.9	6.0	5.3	6.3	3.4	7.3	3.5
E	.3	1.9	1.1	.1	.0	.0		3.4	9.3	3.6	.0	2.5	.0	3.2	3.0	7.2	3.1
SE	.7	3.4	2.3	.1	.0	.0		6.7	9.7	7.4	8.2	6.3	3.0	6.2	1.9	9.3	4.6
S	1.5	10.5	12.4	2.8	.0	.0		27.1	12.7	26.0	36.7	28.0	28.0	22.7	34.0	21.7	43.1
SW	.8	8.7	6.2	.4	.0	.0		16.0	10.4	13.4	14.9	15.7	17.0	17.8	14.9	16.4	21.9
W	1.6	7.1	3.5	.2	.0	.0		12.4	8.3	10.4	12.3	13.8	20.8	13.7	19.0	9.1	5.8
NW	.5	4.9	1.9	.2	.0	.0		7.1	8.5	7.1	5.4	8.1	6.1	8.0	7.5	6.2	4.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.7							9.7	.0	14.8	3.8	6.2	4.5	10.2	6.0	12.6	6.2
TOT OBS	205	566	419	64	0	0	1248		9.6	277	79	242	66	246	67	206	65
TOT PCT	16.4	45.4	33.1	5.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	5.6	1.7	.2	.0		11.3	10.6	10.0	13.8	11.7	9.5
NE	1.7	3.6	1.0	*	.0		6.4	10.9	7.5	5.8	5.7	6.4
E	1.4	1.4	.5	.0	.0		3.4	9.3	2.8	1.9	3.1	6.2
SE	2.4	3.2	1.1	*	.0		6.7	9.7	7.6	5.6	5.3	8.2
S	4.9	14.9	6.5	.9	.0		27.1	12.7	28.4	28.0	25.1	26.8
SW	4.3	9.5	2.2	.0	.0		16.0	10.4	13.8	16.0	17.2	17.7
W	6.0	5.2	1.1	.1	.0		12.4	8.3	10.8	15.3	14.9	8.3
NW	3.0	3.4	.5	.1	.0		7.1	8.5	6.7	7.6	7.9	5.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.7						9.7	.0	12.4	5.8	9.3	11.1
TOT OBS	466	584	182	16	0	1248		9.6	356	308	313	271
TOT PCT	37.3	46.8	14.6	1.3	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1906-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	12.4	6.5	43.5	34.0	3.7	.0	.0	9.3	100.0	336
06&09	5.8	7.5	48.4	31.5	6.8	.0	.0	9.9	100.0	308
12&15	9.3	5.8	47.6	33.5	3.8	.0	.0	9.4	100.0	313
18&21	11.1	7.4	41.7	33.2	6.6	.0	.0	9.8	100.0	271
TOT	121	84	566	413	64	0	0	9.6		1248
PCT	9.7	6.7	45.4	33.1	5.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.5	.7	1.4	5.9		5.4
NE	1.4	.2	1.0	3.5		5.9
E	.1	.1	.6	2.6		7.3
SE	.2	.1	.5	5.6		7.6
S	.7	.6	2.3	22.8		7.5
SW	.9	.5	1.5	13.8		7.3
W	1.6	.4	1.9	7.7		6.5
NW	1.4	.6	.7	5.4		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	.1	.8	7.6		7.0
TOT OBS	155	44	152	1047	1398	6.9
TOT PCT	11.1	3.1	10.9	74.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.9	.0	.3	.6	1.5	.9	.1	.3	.2	.1	4.7	
NE	1.1	.1	.2	.6	.6	.9	.1	.1	.2	.0	2.1	
E	.8	.0	.1	.7	.5	.5	.1	.2	.1	.0	.4	
SE	1.8	.0	.3	1.4	.6	1.1	.4	.1	.2	.0	.4	
S	7.5	.2	.7	6.1	5.2	2.4	.6	.4	.6	.1	2.6	
SW	6.0	.1	.3	3.2	2.4	1.5	.4	.2	.3	*	2.2	
W	3.1	.3	.3	1.4	1.4	1.5	.4	.2	.3	.1	2.9	
NW	2.1	.1	.4	.6	1.2	1.1	.1	.3	.3	*	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.5	.0	.0	.4	1.6	.9	.3	.0	.1	.1	1.6	
TOT OBS	415	11	36	211	208	152	34	23	32	6	270	1398
TOT PCT	29.7	.8	2.6	15.1	14.9	10.9	2.4	1.6	2.3	.4	19.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.0	2.6	2.6	2.7	2.7	2.7	2.7	2.7
* OR >5000	2.3	3.3	3.5	3.6	3.7	4.0	4.4	4.4
* OR >3500	4.1	5.6	5.9	6.0	6.2	6.5	6.8	6.8
* OR >2000	8.6	14.5	15.5	15.9	16.3	17.0	17.4	17.4
* OR >1000	10.8	23.9	28.7	29.8	30.7	31.7	32.2	32.2
* OR >600	13.3	31.7	39.7	42.4	43.5	45.3	46.6	46.6
* OR >300	13.4	32.7	41.4	44.6	45.9	47.8	49.2	49.2
* OR >150	13.4	32.9	41.8	45.1	46.5	48.6	50.0	50.0
* OR > 0	13.4	33.0	42.6	47.8	50.1	58.2	76.9	80.4
TOTAL	186	459	592	664	696	809	1068	1117

TOTAL NUMBER OF OBS: 1389

PCT FREQ NH <5/8: 19.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
6.9	5.1	3.8	2.0	1.9	2.0	3.5	3.8	42.3	29.4	1440

JULY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1906-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.1	.1	.7	.2	.3	.1	.0	.0	1.5	
<1/2	NO PCP	3.0	1.0	.7	1.7	7.1	5.8	3.2	2.3	.0	4.6	29.2	
	TOT %	3.0	1.0	.7	1.8	7.8	6.0	3.4	2.4	.0	4.6	30.8	
	PCP	.0	.1	.1	.1	.2	.1	.0	.0	.0	.0	.6	
1/2<1	NO PCP	.5	.1	.1	.1	.4	.2	.2	.2	.0	.1	1.8	
	TOT %	.5	.2	.1	.2	.6	.4	.2	.2	.0	.1	2.4	
	PCP	.1	.2	.1	.4	1.6	.3	.1	.0	.0	.0	2.7	
1<2	NO PCP	.2	.1	.1	.2	.5	.7	.5	.3	.0	.0	2.6	
	TOT %	.4	.2	.3	.5	2.1	1.0	.6	.3	.0	.0	5.3	
	PCP	.1	.3	.2	.4	1.4	.5	.1	.2	.0	.2	3.4	
2<5	NO PCP	.6	.6	.4	.6	2.3	1.5	.8	.5	.0	.7	8.0	
	TOT %	.7	.9	.6	1.0	3.7	2.0	.9	.7	.0	.9	11.4	
	PCP	.1	.2	.3	.2	2.0	.9	.2	.1	.0	.8	4.9	
5<10	NO PCP	2.9	1.4	.6	1.0	5.4	3.7	3.2	1.6	.0	.7	20.4	
	TOT %	3.0	1.6	.9	1.3	7.4	4.5	3.4	1.6	.0	1.5	25.3	
	PCP	.0	.0	.1	.1	.2	*	.0	.0	.0	.0	.3	
10+	NO PCP	4.6	2.2	.7	1.6	3.7	2.7	3.2	3.2	.0	2.6	24.5	
	TOT %	4.6	2.2	.8	1.7	3.8	2.7	3.2	3.2	.0	2.6	24.9	
	TOT OBS												1460
	TOT PCT	12.1	6.2	3.4	6.5	25.4	16.5	11.7	8.5	.0	9.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.2	.2	.2	.6	.5	.8	.2	.0	4.8	7.6	
<1/2	4-10	1.9	.7	.3	1.2	4.2	3.6	2.3	1.0	.0		15.2	
	11-21	.9	.2	.1	.5	3.0	1.5	.4	.6	.0		7.2	
	22+	.0	.0	.0	.0	.6	.1	.0	.0	.0		.7	
	TOT %	2.9	1.1	.7	1.9	8.3	5.8	3.5	1.8	.0	4.8	30.7	
	0-3	.1	.0	.0	.0	.0	.0	.1	*	.0	.1	.2	
1/2<1	4-10	.2	.2	.0	.1	.4	.2	.2	.1	.0		1.4	
	11-21	.2	.0	.1	*	.2	.2	.0	.0	.0		.7	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0		.1	
	TOT %	.4	.2	.1	.2	.7	.4	.2	.1	.0	.1	2.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.4	.2	.1	.2	.6	.2	.2	.2	.0		2.2	
	11-21	.0	.0	.1	.5	1.1	.4	.3	*	.0		2.3	
	22+	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	TOT %	.4	.3	.2	.7	2.1	.6	.5	.2	.0	.0	5.0	
	0-3	.0	.0	.1	.2	.1	.1	.1	.0	.0	.9	1.4	
2<5	4-10	.2	.5	.4	.4	1.4	1.4	.7	.3	.0		5.3	
	11-21	.3	.4	.2	.6	2.4	.7	.3	.1	.0		4.9	
	22+	.2	.1	.0	*	.3	.0	.0	.0	.0		.7	
	TOT %	.7	1.0	.7	1.2	4.1	2.2	1.1	.4	.0	.9	12.3	
	0-3	.3	*	.0	.2	.5	.1	.1	.1	.0	1.2	2.6	
5<10	4-10	1.1	.5	.6	.6	2.3	1.8	2.0	1.6	.0		10.5	
	11-21	.8	.8	.3	.4	4.0	2.0	1.7	.1	.0		9.9	
	22+	.6	.3	.1	.0	.3	.2	.1	.1	.0		1.7	
	TOT %	2.8	1.6	1.0	1.2	7.1	4.1	3.9	1.8	.0	1.2	24.8	
	0-3	.3	.2	.0	*	.4	.1	.5	.1	.0	3.0	4.6	
10+	4-10	2.3	.7	.4	1.0	1.5	1.3	2.0	1.9	.0		11.1	
	11-21	1.3	1.3	.4	.6	1.9	1.3	.8	.8	.0		8.4	
	22+	.2	.1	.0	.0	.3	*	.1	.1	.0		.8	
	TOT %	4.2	2.3	.7	1.6	4.0	2.7	3.5	2.9	.0	3.0	24.9	
	TOT OBS												1208
	TOT PCT	11.4	6.5	3.4	6.8	26.3	15.7	12.6	7.2	.0	10.0	100.0	

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1906-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&09	29.2	.8	2.5	15.6	12.8	11.8	2.0	1.0	2.8	.8	79.3	20.7	397
06&09	24.2	.6	3.6	16.1	14.2	10.6	2.8	1.9	2.8	.6	77.2	22.8	360
12&15	32.4	1.2	1.2	12.8	16.9	10.2	2.0	2.0	2.3	.3	81.3	18.7	343
18&21	34.5	.6	2.8	15.8	15.5	10.8	2.8	1.6	.9	.0	85.4	14.6	316
TOT	423	11	36	214	209	154	34	23	32	6	1142	274	1416
PCT	29.9	.8	2.5	15.1	14.8	10.9	2.4	1.6	2.3	.4	80.6	19.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	31.2	3.9	3.9	9.2	23.9	28.0	414
06&09	29.6	2.5	5.2	10.7	27.7	24.4	365
12&15	31.9	1.6	5.6	14.9	23.7	22.3	376
18&21	32.4	1.5	7.7	11.0	25.0	22.3	336
TOT	466	36	83	170	373	364	1491
PCT	31.3	2.4	5.5	11.4	25.0	24.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	30.2	39.7	58.0	22.4	19.6	388
06&09	24.9	37.1	57.4	24.3	18.3	350
12&15	32.8	39.3	60.1	24.3	15.7	328
18&21	34.8	40.9	61.3	24.9	13.7	313
TOT	424	545	821	332	236	1389
PCT	30.5	39.2	59.1	23.9	17.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.2	.8	.0	5	1.0
55/59	.0	.0	.0	.0	.0	.6	1.6	1.7	20	3.9
50/54	.0	.0	.0	.4	.2	1.2	5.8	23.4	160	31.0
45/49	.0	.0	.0	.4	1.0	.6	5.4	44.4	267	51.7
40/44	.0	.0	.0	.0	.0	.0	.8	11.6	64	12.4
TOTAL	0	0	0	4	6	13	74	419	516	100.0
PCT	.0	.0	.0	.8	1.2	2.5	14.3	81.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.2	.3	*	.0	.4
.5	.0	.2	.4	.1	.7	1.0	.5	.0	.4
3.6	1.9	.5	2.3	8.4	5.8	3.8	3.5	.0	1.0
5.0	.9	1.8	2.5	18.7	10.1	5.6	4.9	.0	2.3
1.9	.2	.0	.4	4.0	2.9	1.6	.7	.0	.8
11.0	3.0	2.5	5.6	31.2	19.7	12.4	9.6	.0	4.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	65	61	56	50	44	43	41	49.8	417
06&09	75	61	57	50	43	43	41	50.0	372
12&15	74	57	54	47	42	40	37	47.5	386
18&21	75	56	54	47	42	41	36	47.4	337
TOT	75	59	55	48	43	41	36	48.7	1512

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.7	.7	4.8	22.8	71.0	92	145
06&09	.0	.7	2.1	2.9	17.1	77.1	93	140
12&15	.0	.0	.7	.7	6.0	92.5	95	134
18&21	.0	2.0	1.0	1.0	8.9	87.1	94	101
TOT	0	4	6	13	74	423	94	520

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1906-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 17

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

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	2	.0	.2
14/16	.0	.0	.0	.2	.0	.1	.1	.1	.1	.1	7	.0	.6
11/13	.0	.0	.0	.2	.0	.3	.4	.2	.0	.0	14	.4	.7
9/10	.0	.0	.0	.0	.3	1.1	.0	.2	.0	.0	19	.5	1.1
7/8	.0	.0	.0	.1	1.0	1.5	.3	.0	.0	.0	35	.9	2.0
6	.0	.0	.0	.5	.9	.7	.1	.0	.0	.0	27	.7	1.5
5	.0	.0	.1	1.3	3.1	1.5	.4	.0	.0	.0	78	1.7	4.6
4	.0	.0	.0	1.5	3.7	1.4	.2	.2	.0	.0	85	2.2	4.7
3	.0	.0	.0	3.3	3.0	.9	.1	.0	.0	.0	89	2.2	5.1
2	.0	.1	.4	5.5	4.6	.7	.0	.0	.0	.0	138	3.4	7.8
1	.0	.0	1.2	6.4	5.0	.7	.1	.0	.0	.0	164	3.8	9.6
0	.0	.0	2.3	10.6	6.5	1.2	.0	.0	.0	.0	253	7.5	13.1
-1	.0	.0	1.9	6.1	2.4	.0	.0	.0	.0	.0	128	4.1	6.4
-2	.1	.1	.7	3.9	1.5	.6	.0	.0	.0	.0	83	2.8	4.0
-3	.0	.1	.3	1.7	.5	.3	.0	.0	.0	.0	36	1.5	1.4
-4	.0	.0	.9	1.5	.2	.0	.0	.0	.0	.0	32	1.6	1.0
-5	.0	.0	.6	.7	.3	.1	.0	.0	.0	.0	21	.8	.9
-6	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	5	.2	.2
-7/-8	.0	.0	.6	.0	.2	.0	.0	.0	.0	.0	9	.3	.4
TOTAL	1	3	112	536	409	135	20	8	1	1	1226	425	801
PCT	.1	.2	9.1	43.7	33.4	11.0	1.6	.7	.1	.1	100.0	34.7	65.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.0	.0	.0	.0	2.5
1-2	.3	1.8	.8	.0	.0	.0	2.8
3-4	.0	.5	.7	.0	.0	.0	1.3
5-6	.0	.0	.9	.9	.0	.0	1.8
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	2.7	.9	.0	.0	8.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.3	.3	.4	.0	.0	.0	1.0
3-4	.0	.6	1.3	.1	.0	.0	2.1
5-6	.0	.0	.4	.3	.0	.0	.7
7	.0	.0	.1	.3	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.6	2.1	.7	.0	.0	4.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.4
1-2	.0	.4	.5	.0	.0	.0	.9
3-4	.0	.0	.1	.1	.0	.0	.3
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.9	.1	.0	.0	2.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	*	1.4	.1	.0	.0	.0	1.6
1-2	.1	.9	.9	.0	.0	.0	2.0
3-4	.0	.7	.9	.0	.0	.0	1.7
5-6	.0	.0	.9	.1	.0	.0	1.0
7	.0	.0	.2	*	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.1	3.1	.1	.0	.0	6.5

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0015 OKHOTSK SEA NE
55.3N 153.9E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.5	.5	.0	.0	.0	4.2	.4	3.9	.6	.0	.0	.0	4.9
1-2	.3	2.7	1.8	.0	.0	.0	4.8	.3	3.3	1.9	.0	.0	.0	5.4
3-4	.0	2.5	4.6	.3	.0	.0	7.3	.0	.5	3.1	.0	.0	.0	3.6
5-6	.0	.3	4.9	1.6	.0	.0	6.9	.0	.1	.7	*	.0	.0	.9
7	.0	.0	2.4	.4	.0	.0	2.8	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.4	.1	.0	.0	.6	.0	.0	.6	.1	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.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	.3	.1	.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
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	7.9	15.0	2.8	.0	.0	27.2	.7	7.8	7.7	.2	.0	.0	16.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	2.7	.1	.0	.0	.0	3.1	.2	2.0	.0	.0	.0	.0	2.2	
1-2	.7	3.4	1.4	.0	.0	.0	5.5	.0	1.8	.5	.0	.0	.0	2.3	
3-4	.0	.4	1.5	.0	.0	.0	1.9	.1	.0	.5	.0	.0	.0	.6	
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.1	.0	.0	.3	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.1	*	.0	.0	.0	.2	
10-11	.0	.0	.1	.1	.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	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	6.5	4.8	.3	.0	.0	12.6	.3	4.0	1.3	.1	.0	.0	5.7	84.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.1	16.2	1.5	.0	.0	.0	35.8	
1-2	2.2	14.6	8.2	.0	.0	.0	25.0	
3-4	.1	5.3	12.7	.6	.0	.0	18.7	
5-6	.0	.4	9.2	2.9	.0	.0	12.6	
7	.0	.0	4.1	.9	.0	.0	5.0	
8-9	.0	.1	1.5	.3	.0	.0	1.9	
10-11	.0	.0	.1	.1	.0	.0	.3	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.1	.0	.3	.3	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	20.6	36.6	37.5	5.3	.0	.0	100.0	685

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.0	18.9	18.7	7.6	1.8	.4	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	519	3
6-7	.0	3.4	5.7	6.0	4.7	2.3	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	224	5
8-9	.0	1.5	3.5	1.8	1.1	.1	1.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	5
10-11	.0	1.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
12-13	.0	.0	.5	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
>13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	7.2	1.2	1.2	1.1	.6	.2	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	2
TOTAL	120	257	292	164	83	31	20	11	8	0	0	0	0	0	0	0	0	0	0	986	4
PCT	12.2	26.1	29.6	16.6	8.4	3.1	2.0	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.0	.0	2.3	.0	.0	.0	.0	5.3	.8	.0	20.6	.6	.0		.0	72.6
NE	7.3	1.5	8.1	.0	.0	.0	.0	16.9	.0	.0	14.2	.4	.0		.0	68.5
E	32.9	.0	9.6	.0	.0	.0	.0	42.5	2.4	.0	16.2	1.8	.0		.0	37.1
SE	8.0	.0	17.3	.0	.0	.0	.0	25.3	3.1	.0	32.1	3.1	.0		.0	36.4
S	15.7	.0	7.1	.0	.0	.0	.0	22.8	4.8	.0	23.4	2.2	.0		.0	46.8
SW	7.5	.0	6.6	.0	.0	.0	.0	14.1	.0	.0	22.1	.5	1.9		.0	61.5
W	10.5	.0	6.8	.0	.0	.0	.0	17.3	.0	.0	23.6	.0	.0		.0	59.1
NW	.3	.0	1.4	.0	.0	.0	.0	1.7	.0	.0	14.6	1.4	.0		.0	82.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	45.8	.0	.0		.0	52.1
TOT PCT	8.3	.2	5.9	.0	.0	.0	.0	14.4	1.2	.0	22.5	1.0	.2		.0	60.7
TOT OBS:	577															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.8	.0	3.1	.0	.0	.0	.0	11.9	1.9	.0	26.9	3.1	.0		.0	56.3
06&09	9.4	.0	3.8	.0	.0	.0	.0	13.1	.8	.0	16.9	.6	.6		.0	68.1
12&15	7.6	.0	9.0	.0	.0	.0	.0	16.6	.7	.0	23.4	.0	.0		.0	59.3
18&21	6.4	.8	8.0	.0	.0	.0	.0	15.2	1.6	.0	24.8	.8	.0		.0	57.6
TOT PCT	8.1	.2	5.8	.0	.0	.0	.0	14.1	1.2	.0	22.9	1.2	.2		.0	60.5
TOT OBS:	590															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	10.5	8.2	1.1	.0	.0		20.3	11.1	20.2	22.3	19.1	37.0	18.6	15.0	21.8	15.0
NE	.4	4.3	5.0	.6	.0	.0		10.3	12.5	6.1	4.5	9.5	18.5	18.9	2.0	9.3	9.0
E	.1	3.1	3.3	.2	.0	.0		6.7	11.5	8.0	12.5	10.8	.0	1.7	.0	8.0	4.0
SE	.3	3.8	2.7	.2	.0	.0		7.0	10.6	7.4	.9	8.6	.0	6.4	8.0	7.4	12.0
S	.9	5.4	6.7	1.3	.0	.0		14.3	12.3	17.6	15.2	12.2	13.0	13.5	8.0	14.4	18.0
SW	.4	3.5	4.3	1.1	.0	.0		9.3	12.6	9.3	11.6	5.2	13.0	10.0	20.0	9.6	6.0
W	1.0	7.1	3.4	.1	.0	.0		11.6	9.0	8.9	23.2	12.6	4.3	11.0	26.0	8.2	14.0
NW	1.0	7.0	4.4	.1	.0	.0		12.5	9.0	8.5	6.3	15.8	14.1	14.0	9.0	13.8	14.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0	13.9	3.6	6.3	.0	5.9	12.0	7.4	8.0
TOT OBS	66	234	199	24	0	0	523		10.2	115	28	111	23	102	25	94	25
TOT PCT	12.6	44.7	38.0	4.6	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.2	12.0	3.0	.1	.0		20.3	11.1	20.6	22.2	17.9	20.4
NE	1.7	6.0	2.5	.0	.0		10.3	12.5	5.8	11.0	15.6	9.2
E	1.3	3.9	1.4	.0	.0		6.7	11.5	8.9	9.0	1.4	7.1
SE	1.9	4.1	1.1	.0	.0		7.0	10.6	6.1	7.1	6.7	8.4
S	3.9	7.1	3.1	.2	.0		14.3	12.3	17.1	12.3	12.4	15.1
SW	1.1	6.1	1.8	.0	.0		9.3	12.6	9.8	6.5	12.0	8.8
W	4.8	5.9	.9	.0	.0		11.6	9.0	11.7	11.2	14.0	9.5
NW	4.9	7.2	.3	*	.0		12.5	9.0	8.0	15.5	13.0	13.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.0						8.0	.0	11.9	5.2	7.1	7.6
TOT OBS	173	274	74	2	0	523		10.2	143	134	127	119
TOT PCT	33.1	52.4	14.1	.4	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.9	4.9	45.5	34.3	3.5	.0	.0	9.6	100.0	143
06&09	5.2	3.0	47.8	40.3	3.7	.0	.0	10.2	100.0	134
12&15	7.1	6.3	39.4	42.5	4.7	.0	.0	10.4	100.0	127
18&21	7.6	4.2	46.2	35.3	6.7	.0	.0	10.4	100.0	119
TOT	42	24	234	199	24	0	0	10.2		523
PCT	8.0	4.6	44.7	38.0	4.6	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.0	4.7	13.2		6.9
NE	2.3	1.2	1.1	5.3		5.6
E	.0	.9	.4	5.5		7.3
SE	.5	.0	.3	7.4		7.4
S	.5	.2	1.5	11.9		7.4
SW	.9	.4	.7	7.5		7.0
W	1.3	.2	1.0	8.1		7.0
NW	.9	1.8	2.9	6.3		6.4
VAR	.0	.0	.0	.0		.0
CALM	.2	.8	1.2	6.6		7.1
TOT OBS	38	32	67	348	485	6.9
TOT PCT	7.8	6.6	13.8	71.8	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
4.2	.0	.4	3.0	2.8	3.7	.6	.0	.4	.0	5.2	
1.3	.0	.4	1.4	1.2	.7	.2	.0	.1	.4	4.1	
1.0	.0	.0	1.6	1.9	1.0	.2	.0	.2	.0	.9	
2.5	.0	.3	1.0	1.4	1.5	.7	.0	.3	.0	.5	
3.2	.0	1.2	3.0	1.7	2.4	.8	.2	.7	.0	.9	
2.4	.0	.0	1.3	1.6	2.3	.0	.1	.1	.0	1.7	
2.5	.0	.2	1.6	1.2	2.6	.8	.0	.0	.0	1.7	
1.8	.0	.0	1.8	.6	2.2	2.0	.0	.0	.0	3.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2.9	.0	.2	1.0	.4	1.9	.2	.0	.2	.4	1.6	
105	0	13	77	63	88	26	1	9	4	99	485
21.6	.0	2.7	15.9	13.0	18.1	5.4	.2	1.9	.8	20.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	2.5	2.7	2.7	2.7	2.7	2.7	2.7
* OR >5000	1.6	2.7	2.9	2.9	2.9	2.9	2.9	2.9
* OR >3500	6.6	7.8	8.2	8.2	8.2	8.2	8.2	8.2
* OR >2000	18.5	23.3	25.7	26.1	26.1	26.1	26.1	26.1
* OR >1000	21.6	31.3	37.2	39.1	39.1	39.1	39.5	39.5
* OR >600	24.3	39.3	49.4	53.5	53.5	54.3	54.9	54.9
* OR >300	24.3	40.1	50.8	55.6	55.6	56.6	57.4	57.4
* OR >150	24.3	40.1	50.8	55.6	55.6	56.6	57.4	57.4
* OR > 0	24.3	40.5	51.9	57.4	58.8	65.2	77.2	79.4
TOTAL	118	197	252	279	286	317	375	386

TOTAL NUMBER OF OBS: 486

PCT FREQ NH <5/8: 20.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
5.4	4.0	4.6	4.2	1.9	2.9	3.8	6.0	46.4	20.7	521

AUGUST

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	*	.0	.0	.7	.0	.3	.0	.0	.0	1.2	
<1/2	NO PCP	3.2	1.3	.5	1.8	2.4	1.9	1.7	1.7	.0	3.0	17.4	
	TOT %	3.3	1.3	.5	1.8	3.1	1.9	2.1	1.7	.0	3.0	18.6	
	PCP	.0	.2	.3	.0	.5	*	.0	.0	.0	.0	1.0	
1/2<1	NO PCP	.3	.2	.2	*	.3	*	.2	.0	.0	.3	1.6	
	TOT %	.3	.3	.5	*	.7	.1	.2	.0	.0	.3	2.6	
	PCP	.3	*	.8	.6	.5	*	.3	.0	.0	.0	2.6	
1<2	NO PCP	.2	.0	.0	.6	.7	.1	.5	.0	.0	.2	2.3	
	TOT %	.5	*	.8	1.1	1.2	.2	.8	.0	.0	.2	4.9	
	PCP	.3	.7	1.2	.9	1.0	.5	.5	.0	.0	.0	5.0	
2<5	NO PCP	1.2	.5	.5	.5	1.5	.7	.1	.6	.0	.7	6.3	
	TOT %	1.5	1.2	1.7	1.3	2.4	1.2	.6	.6	.0	.7	11.3	
	PCP	.1	.9	.7	.3	.3	.7	.7	.2	.0	.2	4.2	
5<10	NO PCP	4.5	2.8	1.6	.5	1.5	2.6	1.7	2.9	.0	1.7	19.8	
	TOT %	4.6	3.7	2.3	.9	1.8	3.4	2.3	3.1	.0	1.9	24.0	
	PCP	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.3	
10+	NO PCP	9.8	4.7	1.4	1.9	4.2	2.5	4.3	7.4	.0	2.3	38.4	
	TOT %	9.9	4.7	1.4	1.9	4.3	2.5	4.3	7.4	.0	2.3	38.7	
	TOT OBS												576
	TOT PCT	20.3	11.3	7.2	7.0	13.5	9.2	10.3	12.8	.0	8.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.2	.0	.0	.2	.0	.2	.0	.0	3.2	3.8	
<1/2	4-10	2.5	.4	.2	1.6	1.6	.6	2.3	1.0	.0		10.0	
	11-21	1.1	.9	.4	.6	1.9	1.0	.3	.9	.0		7.0	
	22+	.0	.0	.0	.0	.4	.1	.0	.0	.0		.4	
	TOT %	3.5	1.5	.6	2.2	4.0	1.6	2.8	1.9	.0	3.2	21.2	
	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.4	.6	
1/2<1	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0		.2	
	11-21	.4	.2	.2	.0	.4	.2	.2	.0	.0		1.6	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT %	.4	.2	.4	.0	.8	.2	.2	.0	.0	.4	2.6	
	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
1<2	4-10	.0	.1	.2	.2	.4	.0	.2	.0	.0		1.0	
	11-21	.4	.0	.4	.5	.7	.1	.2	.0	.0		2.2	
	22+	.0	.0	.0	.2	.0	.1	.2	.0	.0		.4	
	TOT %	.4	.1	.6	.9	1.1	.1	.8	.0	.0	.0	3.8	
	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.6	.8	
2<5	4-10	1.1	.1	.4	.6	.5	.4	.2	.3	.0		3.4	
	11-21	.5	1.0	1.1	.6	1.2	1.0	.7	.0	.0		6.0	
	22+	.0	.0	.2	.0	.6	.0	.0	.0	.0		.8	
	TOT %	1.6	1.1	1.7	1.2	2.5	1.3	.9	.3	.0	.6	11.0	
	0-3	.3	.1	.2	.1	.2	.2	.0	1.0	.0	1.4	3.4	
5<10	4-10	1.9	1.1	1.5	.4	.7	.8	1.6	1.5	.0		9.4	
	11-21	2.3	1.5	.8	.5	1.2	.8	1.0	.8	.0		8.8	
	22+	.0	.2	.0	.0	.0	1.0	.0	.0	.0		1.2	
	TOT %	4.5	2.9	2.5	1.0	2.1	2.7	2.6	3.3	.0	1.4	22.8	
	0-3	.3	.1	.0	.2	.2	.2	.1	.0	.0	2.2	3.2	
10+	4-10	5.5	3.0	.8	1.0	2.6	1.6	2.5	4.4	.0		21.2	
	11-21	3.6	1.7	.6	.7	1.4	1.0	1.2	2.9	.0		12.8	
	22+	.7	.4	.0	.0	.2	.0	.0	.1	.0		1.4	
	TOT %	10.1	5.1	1.4	1.9	4.3	2.7	3.8	7.3	.0	2.2	38.6	
	TOT OBS												500
	TOT PCT	20.5	10.8	7.0	7.1	14.6	8.6	11.0	12.7	.0	7.8	100.0	

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PERIOD: (PRIMARY) 1964-1974
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AREA 0015 OKHOTSK SEA NE
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	20.1	.0	2.1	19.4	9.7	22.2	5.6	.0	.7	.7	80.6	19.4	144
06&09	17.0	.0	3.5	12.1	15.6	19.1	4.4	.0	2.1	.7	76.6	23.4	141
12&15	27.1	.0	1.9	10.3	15.9	14.0	3.7	.0	4.7	1.9	79.4	20.6	107
18&21	24.5	.0	2.8	21.7	11.3	13.2	4.7	.9	.0	.0	79.2	20.8	106
TOT	108	0	13	79	65	88	26	1	9	4	393	105	498
PCT	21.7	.0	2.6	15.9	13.1	17.7	5.2	.2	1.8	.8	78.9	21.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	22.1	4.3	4.3	8.6	17.8	42.9	163
06&09	13.7	2.5	5.6	10.6	23.6	44.1	161
12&15	20.8	.7	7.4	15.4	24.8	30.9	149
18&21	24.2	3.1	1.6	10.2	30.5	30.5	128
TOT	120	16	29	67	143	226	601
PCT	20.0	2.7	4.8	11.1	23.8	37.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	20.7	24.3	47.1	33.6	19.3	140
06&09	16.7	20.3	41.3	36.2	22.5	138
12&15	27.6	31.4	54.3	27.6	18.1	105
18&21	25.2	30.1	54.4	25.2	20.4	103
TOT	107	126	236	152	98	486
PCT	22.0	25.9	48.6	31.3	20.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	1.0	.0	1.0	1.0	.0	3	2.9
60/64	.0	.0	.0	.0	1.0	.0	3.9	2.0	7	6.9
55/59	.0	.0	1.0	.0	1.0	1.0	2.9	28.4	35	34.3
50/54	.0	.0	1.0	2.0	.0	4.9	11.8	36.3	57	55.9
TOTAL	0	0	2	3	2	7	20	68	102	100.0
PCT	.0	.0	2.0	2.9	2.0	6.9	19.6	66.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.7	1.0	.0	.0	.0	.0	.0	.2	.0	.0
	2.7	.0	.7	.2	1.0	.0	1.0	1.2	.0	.0
	9.6	2.9	.0	2.2	5.4	2.5	2.5	5.4	.0	3.9
	3.9	4.2	5.4	6.4	9.1	7.1	6.9	7.1	.0	5.9
	17.9	8.1	6.1	8.8	15.4	9.6	10.3	14.0	.0	9.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	68	67	63	54	48	45	45	54.4	170
06&09	75	68	61	54	49	48	43	54.4	163
12&15	74	73	59	52	48	43	41	53.1	159
18&21	75	69	58	52	46	45	43	52.1	134
TOT	75	69	61	53	48	45	41	53.6	626

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.7	3.7	11.1	29.6	51.9	88	27
06&09	.0	7.7	3.8	3.8	11.5	73.1	89	26
12&15	.0	6.9	.0	6.9	17.2	69.0	90	29
18&21	.0	.0	.0	4.5	18.2	77.3	93	22
TOT	0	5	2	7	20	70	90	104

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55.4N 153.6E

TABLE 17

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

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
17/19	.0	.0	.2	.0	.2	.0	.2	.2	4	.0	.8
14/16	.0	.0	.0	.0	.0	.2	.2	.2	3	.0	.6
11/13	.0	.0	1.2	.2	.0	.8	.2	.0	12	.4	2.0
9/10	.0	.0	.2	.0	1.0	.2	.0	.0	7	.4	1.0
7/8	.0	.0	.2	1.2	1.4	.6	.0	.0	17	.6	2.8
6	.0	.0	.2	1.0	1.0	.4	.0	.0	13	.6	2.0
5	.0	.0	.8	2.0	1.0	.2	.0	.0	20	1.2	2.8
4	.0	.0	1.2	1.8	2.4	.8	.0	.0	31	2.0	4.3
3	.0	.0	.4	2.6	.8	.2	.0	.0	20	.6	3.4
2	.0	.4	2.8	5.3	2.0	.2	.0	.0	53	1.0	9.7
1	.2	.4	3.4	5.3	1.2	.0	.0	.0	52	2.0	8.5
0	.0	1.4	10.1	6.5	2.0	.6	.2	.0	103	4.1	16.8
-1	.0	.4	8.3	2.0	1.0	.0	.0	.0	58	3.7	8.1
-2	.0	2.0	3.7	2.4	.8	.0	.0	.0	44	1.4	7.5
-3	.0	1.0	2.2	2.0	.0	.0	.0	.0	26	2.6	2.6
-4	.0	.4	.8	1.4	.0	.0	.0	.0	13	.8	1.8
-5	.0	.8	.4	.4	.0	.0	.0	.0	8	.4	1.2
-6	.0	.4	.0	.2	.0	.0	.0	.0	3	.2	.4
-7/-8	.0	.6	.0	.0	.0	.0	.0	.0	3	.2	.4
-9/-10	.0	.4	.0	.0	.2	.0	.0	.0	3	.4	.2
TOTAL	1		179		75		4			112	381
		41		170		21		2	493		
PCT	.2	8.3	36.3	34.5	15.2	4.3	.8	.4	100.0	22.7	77.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	4.7	.7	.0	.0	.0	5.5
3-4	.0	2.2	2.9	.4	.0	.0	5.5
5-6	.0	.7	1.3	.4	.0	.0	2.4
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.3	5.7	1.3	.0	.0	16.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.4	1.7	1.2	.0	.0	.0	3.3
3-4	.0	2.7	.8	.4	.0	.0	3.9
5-6	.0	.4	1.6	.0	.0	.0	2.0
7	.0	.0	.8	.4	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.7	4.5	1.1	.0	.0	11.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.4	.0	.0	.0	1.6
1-2	.3	.9	2.5	.0	.0	.0	3.7
3-4	.0	.6	1.9	.0	.0	.0	2.4
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	5.3	.0	.0	.0	8.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.8	.0	.0	.0	.0	2.2
1-2	.1	1.2	1.3	.0	.0	.0	2.6
3-4	.0	.8	.5	.0	.0	.0	1.3
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.4	.4	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.8	3.3	.4	.0	.0	8.0

PERIOD: (OVER-ALL) 1963-1974

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AREA 0015 OKHOTSK SEA NE
55.4N 153.6E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.0	.3	.0	.0	.0	2.9	.0	.8	.1	.0	.0	.0	.9
1-2	.0	2.9	1.9	.0	.0	.0	4.7	.0	.9	1.2	.0	.0	.0	2.1
3-4	.0	1.1	3.2	.0	.0	.0	4.3	.0	1.2	1.8	.5	.0	.0	3.4
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.9	5.9	.4	.0	.0	12.9	.0	3.0	4.8	.5	.0	.0	8.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	1.7	.0	.0	.0	.0	1.7	
1-2	.4	1.6	1.2	.0	.0	.0	3.2	.7	2.8	1.9	.0	.0	.0	5.4	
3-4	.0	.6	1.2	.3	.0	.0	2.0	.0	.5	3.8	.0	.0	.0	4.3	
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.4	.6	.0	.0	.0	.9	
7	.0	.3	.6	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.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	
TOT PCT	.4	4.0	4.5	.3	.0	.0	9.1	.7	5.4	6.2	.2	.0	.0	12.5	87.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.1	11.5	.7	.0	.0	.0	26.4	
1-2	1.9	16.7	11.9	.0	.0	.0	30.5	
3-4	.0	9.7	16.0	1.5	.0	.0	27.1	
5-6	.0	1.5	8.6	.4	.0	.0	10.4	
7	.0	.4	3.0	.7	.0	.0	4.1	
8-9	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	16.0	39.8	40.1	4.1	.0	.0	100.0	269

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	20.7	19.9	5.9	1.1	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	3
6-7	.0	2.7	4.6	6.7	3.2	.5	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	5
8-9	.0	1.1	1.1	1.1	1.1	.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
10-11	.0	.3	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	14
12-13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	9.9	3.0	4.8	2.7	1.9	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	2
TOTAL	43	103	113	62	30	9	2	5	5	0	0	0	0	0	0	0	0	0	0	372	4
PCT	11.6	27.7	30.4	16.7	8.1	2.4	.5	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.1	.0	2.3	.0	.0	.0	.0	5.5	3.1	.0	3.1	.0	.0		.0	88.3
NE	4.6	.0	.9	.0	.0	.0	.0	5.6	18.5	.0	.0	.0	.0		.0	75.9
E	4.9	.0	.0	.0	.0	.0	.0	4.9	.0	.0	.0	6.6	.0		.0	88.5
SE	3.7	.0	4.6	.0	.0	.0	.0	8.3	23.1	.0	7.4	.9	.0		.0	60.2
S	8.2	1.6	3.9	.0	.0	.0	.0	13.6	2.7	.0	12.1	1.2	3.9		.0	66.5
SW	7.2	.7	3.3	.0	.0	.0	.0	11.2	.0	.0	11.2	.0	3.9		.0	73.7
W	.0	1.9	5.1	.0	.0	.0	.0	7.0	2.5	.0	7.6	.0	2.5		.0	80.3
NW	4.1	.0	4.1	.0	.0	.0	.0	8.2	.0	.0	.0	.0	.0		.0	91.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0		.0	88.9
TOT PCT	4.7	.7	3.3	.0	.0	.0	.0	8.7	5.4	.0	6.9	.7	1.8		.0	76.4
TOT OBS:	276															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.5	.0	1.2	.0	.0	.0	.0	4.7	4.7	.0	4.7	.0	.0		.0	85.9
06&09	5.9	1.2	2.4	.0	.0	.0	.0	9.4	4.7	.0	9.4	.0	3.5		.0	72.9
12&15	4.6	.0	6.2	.0	.0	.0	.0	10.8	4.6	.0	7.7	.0	.0		.0	76.9
18&21	3.4	1.7	5.2	.0	.0	.0	.0	10.3	6.9	.0	8.6	3.4	3.4		.0	67.2
TOT PCT	4.4	.7	3.4	.0	.0	.0	.0	8.5	5.1	.0	7.5	.7	1.7		.0	76.5
TOT OBS:	293															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	2.6	6.3	.7	.0	.0		10.6	12.8	9.7	19.4	10.4	14.3	11.5	14.3	6.7	11.1
NE	.2	4.2	3.9	1.2	.0	.0		9.6	13.8	10.6	13.9	8.0	.0	9.4	.0	10.0	22.2
E	.2	2.9	1.6	.3	.0	.0		5.1	10.4	1.7	.0	6.1	.0	7.8	.0	7.5	11.1
SE	.7	3.7	6.0	1.7	.0	.0		12.0	13.3	15.7	11.1	13.7	.0	4.7	28.6	13.3	11.1
S	1.8	3.7	12.6	3.2	.5	.0		21.7	15.5	20.8	33.3	25.0	50.0	24.0	21.4	9.2	5.6
SW	1.4	4.2	8.1	2.4	.0	.0		16.0	13.4	16.9	11.1	10.4	21.4	19.3	28.6	14.2	22.2
W	.5	3.7	9.3	.9	.0	.0		14.4	13.7	12.3	.0	17.5	14.3	14.6	7.1	18.3	16.7
NW	.1	2.0	4.4	.9	.0	.0		7.4	14.6	7.2	.0	7.1	.0	6.8	.0	17.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	5.1	11.1	1.9	.0	2.1	.0	3.3	.0
TOT OBS	20	60	116	25	1	0	222		13.4	59	9	53	7	48	7	30	9
TOT PCT	9.0	27.0	52.3	11.3	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.8	7.1	1.0	.7	.0		10.6	12.8	11.0	10.8	11.8	7.7
NE	1.6	3.7	4.1	.2	.0		9.6	13.8	11.0	7.1	8.2	12.8
E	1.5	2.8	.8	.0	.0		5.1	10.4	1.5	5.4	6.8	8.3
SE	3.5	5.4	2.0	1.1	.0		12.0	13.3	15.1	12.1	7.7	12.8
S	2.7	8.0	9.6	1.5	.0		21.7	15.5	22.4	27.9	23.6	8.3
SW	2.4	8.4	4.6	.6	.0		16.0	13.4	16.2	11.7	20.5	16.0
W	1.2	8.3	4.8	.0	.0		14.4	13.7	10.7	17.1	13.6	17.9
NW	.7	4.4	1.9	.5	.0		7.4	14.6	6.3	6.3	5.9	13.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	5.9	1.7	1.8	2.6
TOT OBS	41	107	64	10	0	222		13.4	68	60	55	39
TOT PCT	18.5	48.2	28.8	4.5	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.9	4.4	22.1	51.4	11.8	1.5	.0	13.7	100.0	68
06&09	1.7	.0	36.7	55.0	6.7	.0	.0	12.9	100.0	60
12&15	1.8	10.9	21.8	50.9	14.5	.0	.0	14.0	100.0	55
18&21	2.6	10.3	28.2	46.2	12.8	.0	.0	12.6	100.0	39
TOT	7	13	60	116	25	1	0	13.4		222
PCT	3.2	5.9	27.0	52.3	11.3	.5	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.7	4.7	3.9		5.8
NE	.9	.8	2.0	5.0		6.4
E	.4	.8	2.6	2.5		6.2
SE	.1	.1	3.3	6.4		7.3
S	3.5	2.0	2.9	13.9		6.2
SW	2.3	.4	4.0	6.7		6.1
W	3.6	2.9	4.0	4.1		4.8
NW	4.9	.0	2.4	1.9		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.4	2.1		5.3
TOT OBS	44	21	63	111	239	5.8
TOT PCT	18.4	8.8	26.4	46.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.0	.0	1.6	5.4	.8	.8	.0	.0	3.1	
NE	.0	.0	.0	.0	2.0	3.1	.9	.0	.0	.1	2.6	
E	.0	.0	.0	.0	1.5	.6	2.0	.0	.7	.3	1.3	
SE	.5	.0	.4	.0	2.3	4.7	.8	.0	.9	.0	.2	
S	1.9	.4	.8	.4	5.4	6.0	1.6	.0	.4	.0	5.9	
SW	.5	.0	.5	.9	1.9	5.0	.5	.0	.4	.0	3.6	
W	1.7	.0	.8	.7	1.7	2.4	.0	.8	.0	.4	6.5	
NW	.0	.0	.0	.0	.8	3.2	.0	.2	.0	.0	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.0	.0	.0	.8	.0	.8	.0	.0	.0	1.7	
TOT OBS	13	1	5	7	41	75	16	2	6	2	71	239
TOT PCT	5.4	.4	2.1	2.9	17.2	31.4	6.7	.8	2.5	.8	29.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.4	3.2	3.2	3.2	3.2	3.2	3.2	3.2
* OR >5000	3.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0
* OR >3500	7.1	9.9	10.7	10.7	10.7	10.7	10.7	10.7
* OR >2000	26.9	38.3	41.5	41.5	41.5	41.5	41.5	41.5
* OR >1000	37.9	53.0	56.9	57.3	57.3	57.7	57.7	57.7
* OR >600	37.9	54.2	59.7	60.1	60.1	60.5	60.5	60.5
* OR >300	37.9	55.3	61.7	62.1	62.1	62.5	62.5	62.5
* OR >150	37.9	55.3	62.5	62.8	62.8	63.2	63.2	63.2
* OR > 0	37.9	55.7	64.0	64.4	64.4	66.0	68.4	68.4
TOTAL	96	141	162	163	163	167	173	173

TOTAL NUMBER OF OBS: 253 PCT FREQ NH <5/8: 31.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.4	3.5	5.4	5.0	2.3	5.0	10.4	12.7	35.4	5.0	260

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
<1/2	NO PCP	.4	.0	.0	.0	1.4	.8	1.1	.0	.0	.4	4.0	
	TOT %	.4	.0	.0	.0	1.7	.8	1.1	.0	.0	.4	4.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.7	
	PCP	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.7	
1<2	NO PCP	.0	.0	.0	.5	.8	.2	.0	.0	.0	.0	1.4	
	TOT %	.0	.4	.0	.5	.8	.5	.0	.0	.0	.0	2.2	
	PCP	.0	.0	.0	.5	1.6	.1	.0	.0	.0	.0	2.2	
2<5	NO PCP	.4	.7	.0	.7	.9	.9	1.1	.7	.0	1.1	6.5	
	TOT %	.4	.7	.0	1.2	2.5	1.0	1.1	.7	.0	1.1	8.7	
	PCP	.4	.2	.3	.4	1.0	.9	1.0	.7	.0	.0	5.1	
5<10	NO PCP	1.7	1.3	.9	2.7	2.3	1.9	1.8	.8	.0	.0	13.4	
	TOT %	2.4	1.4	1.2	3.1	3.3	2.8	2.8	1.5	.0	.0	18.5	
	PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
10+	NO PCP	8.5	7.2	4.3	5.1	14.4	8.1	9.2	6.5	.0	1.8	65.2	
	TOT %	8.5	7.2	4.3	5.1	14.6	8.2	9.2	6.5	.0	1.8	65.6	
	TOT OBS												276
	TOT PCT	11.8	9.8	5.5	9.8	23.3	13.8	14.2	5.8	.0	3.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.2	.2	1.9	.9	.0	.0	.0	.0	3.3	
<1/2	4-10	.0	.0	.0	1.9	1.7	.6	.5	.0	.0		4.7	
	11-21	.5	.0	.0	.0	.2	1.2	.0	.0	.0		1.9	
	22+	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	TOT %	.5	.0	.2	2.1	4.3	2.7	.5	.0	.0	.0	10.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.5	.0	.0	.0	.0	.5	.0	.0		.9	
	11-21	.0	.0	.0	.0	.7	.2	.0	.0	.0		.9	
	22+	.0	.0	.0	.6	.3	.5	.0	.0	.0		1.4	
	TOT %	.0	.5	.0	.6	1.0	.7	.5	.0	.0	.0	3.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
2<5	4-10	.9	.5	.0	.0	.0	.0	.0	.0	.0		1.4	
	11-21	.0	.0	.0	1.4	1.5	.8	.0	.0	.0		3.7	
	22+	.0	.0	.0	.1	.3	.0	.5	.0	.0		.9	
	TOT %	.9	.5	.0	1.5	1.9	.8	.5	.0	.0	.5	6.5	
	0-3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
5<10	4-10	.5	.5	.0	.0	.0	.8	.6	.5	.0		2.8	
	11-21	.5	.5	.8	2.4	1.3	2.6	2.8	1.0	.0		11.6	
	22+	.7	.3	.3	.0	.9	.0	.5	.5	.0		3.3	
	TOT %	2.1	1.3	1.2	2.4	2.2	3.4	3.6	2.0	.0	.0	18.1	
	0-3	.3	.0	.0	.5	.0	.5	.5	.1	.0	1.9	3.7	
10+	4-10	1.3	2.9	3.0	2.0	2.1	2.4	1.9	1.6	.0		17.2	
	11-21	5.6	3.6	.8	2.3	8.8	3.6	7.1	3.5	.0		35.3	
	22+	.0	.9	.0	.5	1.3	2.0	.0	.5	.0		5.1	
	TOT %	7.2	7.4	3.8	5.2	12.2	8.5	9.4	5.7	.0	1.9	61.4	
	TOT OBS												215
	TOT PCT	10.7	9.7	5.2	11.9	22.1	16.0	14.4	7.7	.0	2.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.3	.0	1.3	2.6	19.2	32.1	7.7	.0	3.8	1.3	69.2	30.8	78
06&09	3.9	2.6	.0	2.6	17.1	36.8	5.3	2.6	1.3	1.3	73.7	26.3	76
12&15	9.4	.0	7.5	1.9	7.5	22.6	9.4	.0	3.8	.0	62.3	37.7	53
18&21	8.3	.0	.0	4.2	18.8	27.1	4.2	.0	.0	.0	62.5	37.5	48
TOT	13	2	5	7	41	78	17	2	6	2	173	82	255
PCT	5.1	.8	2.0	2.7	16.1	30.6	6.7	.8	2.4	.8	67.8	32.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	5.7	1.1	1.1	5.7	17.0	69.3	88
06&09	6.7	.0	3.3	11.1	12.2	66.7	90
12&15	12.7	1.4	1.4	14.1	21.1	49.3	71
18&21	11.5	.0	3.3	6.6	19.7	59.0	61
TOT	27	2	7	29	53	192	310
PCT	8.7	.6	2.3	9.4	17.1	61.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND3+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.3	3.9	13.0	58.4	28.6	77
06&09	3.9	6.6	18.4	56.6	25.0	76
12&15	9.6	19.2	23.1	42.3	34.6	52
18&21	8.3	8.3	14.6	50.0	35.4	48
TOT	13	22	43	134	76	253
PCT	5.1	8.7	17.0	53.0	30.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	.0	6.1	2	6.1
50/54	.0	.0	3.0	.0	.0	.0	.0	72.7	25	75.8
45/49	.0	.0	.0	3.0	.0	.0	.0	15.2	6	18.2
TOTAL	0	0	1	1	0	0	0	31	33	100.0
PCT	.0	.0	3.0	3.0	.0	.0	.0	93.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	3.0	.0	.0	.0	3.0	.0	.0	.0	.0
18.9	5.3	6.1	11.4	24.2	9.8	.0	.0	.0	.0
3.0	3.0	3.0	.0	5.3	.8	3.0	.0	.0	.0
22.0	11.4	9.1	11.4	29.5	13.6	3.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	63	62	57	51	46	43	43	50.8	84
06&09	61	57	56	51	46	42	42	50.8	89
12&15	57	56	55	48	43	41	41	48.5	72
18&21	59	58	53	49	41	37	37	47.9	62
TOT	63	61	55	50	43	39	37	49.7	307

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	.0	100.0	98	6
06&09	.0	7.7	.0	.0	.0	92.3	95	13
12&15	.0	25.0	.0	.0	.0	75.0	86	4
18&21	.0	.0	.0	.0	.0	100.0	100	10
TOT	0	2	0	0	0	31	96	33

SEPTEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 17

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

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	1.1	.0	.0	3	.0	1.1
9/10	.0	.0	.0	.4	.0	.0	.7	3	.0	1.1
7/8	.0	.0	.0	.7	1.1	.0	.0	5	.4	1.5
6	.0	.0	.0	.4	.4	.4	.0	3	.0	1.1
5	.0	.0	.0	.4	1.9	.0	.0	6	.0	2.2
4	.0	.0	.0	1.5	.7	.7	.4	9	.4	3.0
3	.0	.0	.4	4.9	1.5	.0	.0	18	.0	6.7
2	.0	.0	2.2	4.9	2.6	.7	.0	28	1.5	9.0
1	.0	.0	2.6	3.0	3.0	.0	.0	23	.7	7.8
0	.0	.4	6.7	9.7	3.0	.4	.0	54	1.9	18.3
-1	.0	.7	2.2	5.2	1.1	.0	.0	25	.7	8.6
-2	.0	.4	4.9	7.1	.4	.0	.0	34	.4	12.3
-3	.0	.7	2.6	1.5	.0	.0	.0	13	.4	4.5
-4	.7	.7	4.5	3.0	.0	.0	.0	24	.4	8.6
-5	.0	1.1	1.9	.4	.4	.0	.0	10	.4	3.4
-6	.0	.4	.0	.0	.0	.0	.0	1	.4	.0
-7/-8	.0	.7	.0	1.1	.0	.0	.0	5	.4	1.5
-9/-10	.4	.4	.0	.0	.0	.0	.0	2	.0	.7
-11/-13	.0	.0	.7	.0	.0	.0	.0	2	.0	.7
TOTAL	3	15	77	118	46	6	3	268	21	247
PCT	1.1	5.6	28.7	44.0	17.2	2.3	1.1	100.0	7.8	92.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	.7	.0	.0	.0	2.6
1-2	.5	.7	3.4	.0	.0	.0	4.6
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.7	.0	.0	.0	.0	.7
7	.0	.0	2.7	.0	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.6	7.4	.0	.0	.0	11.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	1.4	.7	.0	.0	.0	2.1
3-4	.0	.2	1.4	.0	.0	.0	1.5
5-6	.0	.7	.7	.2	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.7	.7	.0	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	3.4	.9	.0	.0	7.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	2.6	1.2	.0	.0	.0	3.8
5-6	.0	.0	.0	.5	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	1.2	.5	.0	.0	5.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1
1-2	.0	.7	1.4	.0	.0	.0	2.1
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	2.2	.7	.0	.0	2.9
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	2.1	6.0	.9	.0	.0	9.6

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 0015 OKHOTSK SEA NE
55.3N 153.4E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7	.7	.9	2.2	.0	.0	.0	3.8
1-2	.0	1.0	2.1	.0	.0	.0	3.1	.0	1.0	1.4	.0	.0	.0	2.4
3-4	.0	.5	6.3	.0	.0	.0	6.8	.0	.9	2.6	.0	.0	.0	3.4
5-6	.0	1.2	1.9	.7	.0	.0	3.8	.0	.9	.9	1.4	.0	.0	3.1
7	.0	.0	3.9	.0	.7	.0	4.6	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.7	1.4	.0	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	14.2	3.8	.7	.0	22.1	.7	3.6	8.4	3.6	.0	.0	16.3

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.7	1.2	1.0	.0	.0	.0	2.9	.0	.9	.2	.0	.0	.0	1.0	
1-2	.0	.7	2.7	.0	.0	.0	3.4	.2	1.4	2.1	.0	.0	.0	3.6	
3-4	.0	.5	2.7	.0	.0	.0	3.3	.0	.9	2.2	.0	.0	.0	3.1	
5-6	.0	.0	2.4	.0	.0	.0	2.4	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.7	.7	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.4	12.3	.7	.0	.0	16.1	.2	3.1	6.0	.0	.0	.0	9.2	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	7.5	4.1	.0	.0	.0	17.1	
1-2	.7	7.5	13.7	.0	.0	.0	21.9	
3-4	.0	5.5	18.5	.0	.0	.0	24.0	
5-6	.0	3.4	6.8	2.7	.0	.0	13.0	
7	.0	.0	11.6	1.4	.7	.0	13.7	
8-9	.0	.0	1.4	4.8	.0	.0	6.2	
10-11	.0	.0	2.1	.7	.0	.0	2.7	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.7	.0	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	24.0	58.9	10.3	.7	.0	100.0	146

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	9.3	17.3	11.8	5.1	3.0	.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	4
6-7	.0	.4	3.0	7.2	11.4	2.5	2.5	.4	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	7
8-9	.0	.0	1.3	.8	2.1	1.3	1.7	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	8
10-11	.0	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
12-13	.0	.0	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	.8	1.3	.8	4.2	1.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
TOTAL	2	26	57	58	51	18	13	5	7	0	0	0	0	0	0	0	0	0	0	237	5
PCT	.8	11.0	24.1	24.5	21.5	7.6	5.5	2.1	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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AREA 0015 OKHOTSK SEA NE
55.4N 153.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	6.5	.0	.0	6.5	2.8	.0	3.7	.0	.0		.0	86.9
NE	3.8	.0	7.6	.0	.0	.0	.0	11.4	.0	.0	.0	.0	.0		.0	88.6
E	18.6	.0	9.3	.0	.0	.0	.0	27.9	.0	.0	9.3	.0	.0		.0	62.8
SE	22.4	.0	21.1	.0	.0	.0	.0	43.4	.0	.0	6.6	.0	.0		.0	50.0
S	18.7	.0	5.3	.0	.0	.0	.0	24.0	4.0	.0	9.3	.0	.0		.0	62.7
SW	16.5	.0	.0	.0	1.2	.0	.0	17.6	7.1	.0	4.7	.0	.0		.0	70.6
W	4.2	.0	.0	.0	4.2	2.4	.0	10.8	4.2	.0	.0	.0	.0		.0	84.9
NW	.0	3.3	.0	.0	7.3	.0	.0	7.3	4.1	.0	.0	.0	.0		.0	88.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	40.0	.0	.0	40.0	.0	.0	.0	.0	.0		.0	60.0
TOT PCT	8.0	.5	4.0	.0	4.0	.5	.0	16.5	3.0	.0	3.0	.0	.0		.0	77.5
TOT OBS:	200															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	7.1	.0	5.4	.0	.0	1.8	.0	14.3	1.8	.0	3.6	.0	.0		.0	80.4
06&09	9.3	.0	3.7	.0	1.9	.0	.0	14.8	.0	.0	.0	.0	.0		.0	85.2
12&15	12.7	.0	1.8	.0	12.7	.0	.0	27.3	3.6	.0	5.5	.0	.0		.0	63.6
18&21	.0	2.3	4.5	.0	6.8	.0	.0	11.4	6.8	.0	2.3	.0	.0		.0	79.5
TOT PCT	7.7	.5	3.8	.0	5.3	.5	.0	17.2	2.9	.0	2.9	.0	.0		.0	77.0
TOT OBS:	209															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	3.3	6.6	2.1	.0	.0		13.2	14.3	10.8	.0	17.2	25.0	10.2	.0	14.1	25.0
NE	.6	3.4	3.8	3.3	1.5	.0		12.4	19.6	12.7	.0	10.3	.0	17.3	.0	11.5	6.3
E	.5	2.7	2.9	.0	.0	.0		6.1	11.6	9.2	.0	3.9	.0	10.7	.0	4.5	18.8
SE	.5	1.5	6.1	1.6	.1	.0		9.8	15.1	9.4	.0	8.3	25.0	10.7	25.0	9.0	.0
S	.0	3.1	2.2	3.6	.9	.0		9.7	19.1	12.7	.0	9.3	.0	10.2	.0	8.3	.0
SW	.0	2.5	6.5	1.6	.0	.0		10.5	16.0	8.5	.0	10.8	6.3	9.7	25.0	14.1	.0
W	.0	7.1	8.2	5.1	.4	.0		20.8	15.8	22.6	.0	23.5	43.8	13.8	50.0	17.9	25.0
NW	.1	4.4	9.4	.9	.1	.0		15.0	14.1	16.0	.0	16.7	.0	13.3	.0	15.4	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	1.9	.0	.0	.0	4.1	.0	5.1	.0
TOT OBS	11	57	93	37	6	0	204		15.4	53	0	51	4	49	4	39	4
TOT PCT	5.4	27.9	45.6	18.1	2.9	.0		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.5	6.0	3.6	1.2	.0		13.2	14.3	10.8	17.7	9.4	15.1
NE	1.1	4.2	2.9	3.7	.5		12.4	19.6	12.7	9.5	16.0	11.0
E	1.3	3.6	1.2	.0	.0		6.1	11.6	5.2	3.6	9.9	5.8
SE	1.7	4.8	2.6	.7	.0		9.8	15.1	9.4	9.5	11.8	8.1
S	1.8	2.2	3.9	1.7	.0		9.7	19.1	12.7	8.6	9.4	7.6
SW	1.0	3.9	5.5	.1	.0		10.5	16.0	8.5	10.5	10.8	12.8
W	2.8	10.0	5.6	2.3	.0		20.8	15.8	22.6	25.0	16.5	18.6
NW	1.5	8.0	5.0	.5	.0		15.0	14.1	16.0	15.5	12.3	16.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	1.9	.0	3.8	4.7
TOT OBS	33	87	62	21	1	204		15.4	53	55	53	43
TOT PCT	16.2	42.6	30.4	10.3	.5		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	1.9	24.5	50.9	15.1	5.7	.0	16.6	100.0	53
06&09	.0	5.5	29.1	49.1	16.4	.0	.0	14.6	100.0	55
12&15	3.8	3.8	28.3	34.0	24.5	5.7	.0	16.0	100.0	53
18&21	4.7	.0	30.2	48.8	16.3	.0	.0	14.4	100.0	43
TOT	5	6	57	93	37	6	0	15.4		204
PCT	2.5	2.9	27.9	45.6	18.1	2.9	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	1.3	6.8	5.9		6.5
NE	1.2	.7	4.5	5.6		6.5
E	.6	.6	1.0	3.2		6.6
SE	.0	.6	.7	7.5		7.5
S	.0	.0	2.2	6.4		7.4
SW	.7	.6	4.5	4.9		6.4
W	6.2	3.5	9.2	4.0		4.6
NW	2.9	.9	7.5	3.5		5.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.6	.6	1.2		6.0
TOT OBS	21	15	64	79	173	6.0
TOT PCT	12.1	8.7	37.0	42.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.6	.0	.0	.4	2.3	5.2	2.6	.6	.0	.0	2.9	
NE	.6	.6	.6	.1	1.2	3.8	1.0	.0	.6	.0	3.6	
E	.6	.0	.0	.6	.0	1.2	.9	.4	.0	.0	1.7	
SE	2.6	.0	.0	1.7	.0	2.5	.7	.1	.0	.0	1.2	
S	.9	.0	.0	.6	2.9	3.2	.4	.0	.0	.0	.6	
SW	.6	.0	.0	.7	2.5	4.5	1.2	.0	.0	.0	1.3	
W	.0	.0	.0	.4	1.9	7.7	.0	.0	.4	.0	12.6	
NW	.0	.0	.0	.0	3.2	5.1	1.3	.0	.1	.0	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.6	.0	.6	.6	.0	.0	.0	.6	
TOT OBS	10	1	1	9	24	58	15	2	2	0	51	173
TOT PCT	5.8	.6	.6	5.2	13.9	33.5	8.7	1.2	1.2	.0	29.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
▪ OR >5000	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2
▪ OR >3500	9.5	10.1	10.6	11.2	11.2	11.2	11.2	11.2
▪ OR >2000	33.0	38.0	43.6	45.3	45.3	45.3	45.3	45.3
▪ OR >1000	39.7	48.6	56.4	59.2	59.2	59.2	59.2	59.2
▪ OR >600	41.3	52.0	61.5	64.2	64.2	64.2	64.2	64.2
▪ OR >300	41.3	52.5	62.0	64.8	64.8	64.8	64.8	64.8
▪ OR >150	41.3	53.1	62.6	65.4	65.4	65.4	65.4	65.4
▪ OR > 0	41.3	54.7	64.8	69.3	70.4	71.5	71.5	71.5
TOTAL	74	98	116	124	126	128	128	128

TOTAL NUMBER OF OBS: 179

PCT FREQ NH <5/8: 28.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.9	2.0	3.0	5.4	5.0	5.4	12.9	11.9	38.1	5.4	202

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.0	
	PCP	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.0	
	PCP	1.0	.5	.5	.0	.0	.0	.5	.5	.0	.0	3.0	
1<2	NO PCP	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.5	
	TOT %	1.0	.5	.5	.1	.4	.0	.5	.5	.0	.0	3.5	
	PCP	.4	.0	.0	1.6	1.4	.3	1.3	.6	.0	.0	5.6	
2<5	NO PCP	1.0	.5	.5	.5	.9	1.6	.5	.0	.0	.0	5.6	
	TOT %	1.4	.5	.5	2.1	2.3	1.9	1.8	.6	.0	.0	11.1	
	PCP	.0	1.0	1.0	2.0	.5	1.0	.0	.0	.0	.5	6.1	
5<10	NO PCP	.4	3.0	.9	.4	1.3	1.6	3.5	2.5	.0	.5	14.1	
	TOT %	.4	4.0	1.9	2.4	1.8	2.7	3.5	2.5	.0	1.0	20.2	
	PCP	.0	.0	.0	.5	.0	.0	1.0	.0	.0	.5	2.0	
10+	NO PCP	10.5	8.1	2.5	3.8	4.3	5.1	14.6	11.2	.0	1.0	61.1	
	TOT %	10.5	8.1	2.5	4.3	4.3	5.1	15.7	11.2	.0	1.5	63.1	
	TOT OBS												198
	TOT PCT	13.3	13.1	5.4	9.6	9.1	10.1	21.5	15.4	.0	2.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.1	.4	.0	.0	.0	.0		.5	
	11-21	.0	.0	.0	.5	.0	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	11-21	.0	.0	.0	.0	.0	.5	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.5	.0	.0	.0	.0	.0	.0	.0		.5	
	11-21	.5	.0	.5	.0	.0	.0	.5	.5	.0		2.1	
	22+	.5	.0	.0	.1	.4	.0	.0	.0	.0		1.0	
	TOT %	1.0	.5	.5	.1	.4	.0	.5	.5	.0	.0	3.6	
	0-3	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	1.0	
2<5	4-10	.4	.0	.5	.0	.0	.5	.0	.1	.0		1.5	
	11-21	.0	.0	.0	1.0	1.0	1.0	1.0	.5	.0		4.6	
	22+	.5	.5	.0	.6	1.3	.4	.8	.0	.0		4.1	
	TOT %	1.4	.5	.5	2.2	2.3	1.9	1.8	.6	.0	.0	11.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
5<10	4-10	.4	.0	1.4	.3	.9	.6	.8	1.3	.0		5.5	
	11-21	.0	1.0	.5	1.5	.0	1.5	.5	1.0	.0		6.2	
	22+	.0	3.1	.0	.5	.5	.5	1.8	.3	.0		6.7	
	TOT %	.4	4.1	1.9	2.3	1.4	2.7	3.1	2.6	.0	1.0	19.5	
	0-3	.8	.6	.5	.0	.0	.0	.0	.1	.0	1.5	3.6	
10+	4-10	2.7	3.1	.9	1.2	1.5	1.3	6.7	2.7	.0		20.0	
	11-21	6.4	2.7	1.2	2.7	1.3	3.2	6.5	7.8	.0		31.8	
	22+	.8	1.3	.0	.5	2.1	.6	2.2	.8	.0		8.2	
	TOT %	10.6	7.7	2.6	4.4	4.9	5.1	15.4	11.4	.0	1.5	63.6	
	TOT OBS												195
	TOT PCT	13.5	12.8	5.5	9.6	9.4	10.3	20.8	15.6	.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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.8	.0	1.8	5.4	17.9	32.1	8.9	1.8	1.8	.0	71.4	28.6	56
06&09	3.8	.0	.0	3.8	17.0	41.5	7.5	.0	1.9	.0	75.5	24.5	53
12&15	12.5	2.5	.0	7.5	7.5	27.5	5.0	2.5	.0	.0	65.0	35.0	40
18&21	9.4	.0	.0	3.1	9.4	31.3	15.6	.0	.0	.0	68.8	31.3	32
TOT	11	1	1	9	25	61	16	2	2	0	128	53	181
PCT	6.1	.6	.6	5.0	13.8	33.7	8.8	1.1	1.1	.0	70.7	29.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	.0	.0	8.9	19.6	71.4	56
06&09	.0	.0	5.4	7.1	10.7	76.8	56
12&15	1.9	3.8	7.5	20.8	20.8	45.3	53
18&21	2.3	2.3	4.7	7.0	30.2	53.5	43
TOT	2	3	9	23	41	130	208
PCT	1.0	1.4	4.3	11.1	19.7	62.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.8	3.6	14.5	58.2	27.3	55
06&09	3.8	3.8	17.3	59.6	23.1	52
12&15	12.5	15.0	42.5	22.5	35.0	40
18&21	9.4	9.4	21.9	46.9	31.3	32
TOT	11	13	41	87	51	179
PCT	6.1	7.3	22.9	48.6	28.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	2.6	.0	1	2.6
45/49	.0	.0	.0	.0	.0	2.6	7.7	2.6	5	12.8
40/44	.0	.0	.0	.0	5.1	7.7	28.2	7.7	19	48.7
35/39	.0	.0	.0	.0	.0	.0	15.4	17.9	13	33.3
30/34	.0	.0	.0	.0	2.6	.0	.0	.0	1	2.6
TOTAL	0	0	0	0	3	4	21	11	39	100.0
PCT	.0	.0	.0	.0	7.7	10.3	53.8	28.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
1.9	3.2	.0	.0	.0	5.1	2.6	.0	.0	.0
5.8	7.1	1.9	2.6	5.1	5.8	14.7	3.2	.0	2.6
2.6	5.1	4.5	3.2	.0	.0	1.9	16.0	.0	.0
.0	.0	.0	.0	.0	.0	2.6	.0	.0	.0
10.3	17.9	6.4	5.8	5.1	10.9	21.8	19.2	.0	2.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	59	58	51	42	34	30	30	41.8	57
06&09	54	53	50	41	32	25	25	41.6	57
12&15	50	49	49	39	32	24	24	40.2	58
18&21	48	47	47	40	32	23	23	39.8	45
TOT	59	51	49	41	32	24	23	40.9	217

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	12.5	62.5	25.0	85	8
06&09	.0	.0	8.3	8.3	66.7	16.7	85	12
12&15	.0	.0	11.1	11.1	44.4	33.3	85	9
18&21	.0	.0	10.0	10.0	40.0	40.0	87	10
TOT	0	0	3	4	21	11	85	39

OCTOBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1957-1974

AREA 0015 OKHOTSK SEA NE
55.4N 153.1E

TABLE 17

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

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	2	.0	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	1	.0	.5
6	.0	.0	.0	.0	.5	.5	.0	.0	.0	.0	2	.0	1.1
5	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	2	.0	1.1
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
3	.0	.0	.0	.0	.5	1.1	.5	1.1	.0	.0	6	.5	2.7
2	.0	.0	.0	.5	.0	2.1	2.1	.0	.0	.0	9	.0	4.8
1	.0	.0	.5	.0	.0	2.7	1.6	2.1	.0	.0	13	1.1	5.9
0	.0	.0	.5	.0	3.2	5.9	5.3	1.6	.0	.0	31	1.1	15.4
-1	.0	.0	.0	.5	3.7	3.7	1.1	1.1	.0	.0	19	.5	9.6
-2	.0	.0	.0	.0	3.7	2.7	1.6	.0	.0	.0	15	.0	8.0
-3	.0	.0	.0	.5	3.7	3.7	.5	.0	.0	.0	16	.0	8.5
-4	.0	.0	.5	1.1	4.3	2.7	1.1	.5	.0	.0	19	.0	10.1
-5	.0	.0	.0	.5	2.7	2.1	1.1	.0	.0	.0	12	.0	6.4
-6	.0	.0	.0	1.1	3.7	.0	.0	.0	.0	.0	9	.0	4.8
-7/-8	.0	.0	1.1	.5	5.3	.5	.0	.0	.0	.0	14	.0	7.4
-9/-10	.0	.0	.5	2.1	1.1	.0	.0	.0	.0	.0	7	.0	3.7
-11/-13	.0	.0	.5	.5	2.1	.0	.0	.0	.0	.0	6	.0	3.2
-14/-16	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	1	.0	.5
-17/-19	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	1.1
-20/-22	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	2		7		65		29		1			6	182
		1		15		53		14		1	188		
PCT	1.1	.5	3.7	8.0	34.6	28.2	15.4	7.4	.5	.5	100.0	3.2	96.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.0	1.2	.0	.0	.0	3.4
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.5	1.7	.0	.0	.0	2.2
5-6	.0	.0	.7	.7	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.5	.7	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.3	4.1	1.9	.0	.0	10.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1
1-2	.0	2.1	.0	.0	.0	.0	2.1
3-4	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.4	.0	.0	1.4
12	.0	.0	.0	.7	.0	.0	.7
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.7	.0	.7
20-22	.0	.0	.0	.7	.7	.0	1.4
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.5	1.4	2.9	1.4	.0	11.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	.0	.0	.0	.0	1.9
1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.7	.0	.0	.0	.0	.7
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.8	1.0	.0	.0	.0	5.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.2	1.4	.0	.0	.0	1.6
3-4	.0	.2	2.1	.0	.0	.0	2.2
5-6	.0	.0	3.6	.2	.0	.0	3.8
7	.0	.0	.7	.0	.0	.0	.7
8-9	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	7.8	1.6	.0	.0	11.2

PERIOD: (OVER-ALL) 1963-1974 OCTOBER AREA 0015 OKHOTSK SEA NE
55.4N 153.1E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	1.4	.7	.0	.0	.0	2.1
3-4	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	.5	.5	.0	.0	1.0
7	.0	.5	.0	.7	.0	.0	1.2
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	1.4	.0	.0	1.4
13-16	.0	.0	.0	1.4	.7	.0	2.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	1.9	4.0	.7	.0	10.3

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	1.4	.2	.0	.0	1.6
7	.0	.9	.0	.7	.0	.0	1.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.6	2.1	1.0	.0	.0	5.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.8	.0	.0	.0	.0	3.8
1-2	.0	2.9	1.9	.0	.0	.0	4.8
3-4	.0	.7	2.8	.0	.0	.0	3.4
5-6	.0	.0	.7	1.0	.0	.0	1.7
7	.0	.0	.0	1.4	.0	.0	1.4
8-9	.0	.0	.7	1.0	.0	.0	1.7
10-11	.0	.0	.7	.7	.5	.0	1.9
12	.0	.0	1.4	.0	.0	.0	1.4
13-16	.0	.0	.0	2.6	.0	.0	2.6
17-19	.0	.7	.0	.0	.0	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.1	8.1	6.7	.5	.0	23.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	2.4	.2	.0	.0	.0	2.8	
1-2	.0	2.9	2.2	.0	.0	.0	5.2	
3-4	.0	.9	2.4	.0	.0	.0	3.3	
5-6	.0	.0	2.1	.2	.0	.0	2.2	
7	.0	.0	2.8	.7	.0	.0	3.4	
8-9	.0	.0	1.6	.3	.0	.0	1.9	
10-11	.0	.0	.0	.0	.2	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	6.2	11.2	1.2	.2	.0	19.0	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.5	13.8	1.4	.0	.0	.0	20.7	
1-2	.0	13.8	6.2	.0	.0	.0	20.0	
3-4	.0	3.4	11.0	.0	.0	.0	14.5	
5-6	.0	.0	11.0	2.8	.0	.0	13.8	
7	.0	1.4	4.1	3.4	.0	.0	9.0	
8-9	.0	.0	3.4	3.4	.0	.0	6.9	
10-11	.0	.0	.7	2.1	.7	.0	3.4	
12	.0	.0	1.4	2.1	.0	.0	3.4	
13-16	.0	.0	.0	4.8	.7	.0	5.5	
17-19	.0	.7	.0	.0	.7	.0	1.4	
20-22	.0	.0	.0	.7	.7	.0	1.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	33.1	39.3	19.3	2.8	.0	100.0	145

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	11.5	9.5	6.0	5.0	1.5	1.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
6-7	.5	1.0	2.0	3.0	5.5	4.5	2.0	.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
8-9	.0	.5	.5	1.0	.5	.5	3.0	1.5	1.5	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	24	11
10-11	.0	.0	.0	.0	.0	.5	.0	.5	1.5	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	7	15
12-13	.0	.0	1.5	.0	.0	.0	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.0	5.0	3.5	3.0	4.0	1.5	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	4
TOTAL	11	36	34	26	30	17	18	9	10	6	2	0	1	0	0	0	0	0	0	200	6
PCT	5.5	18.0	17.0	13.0	15.0	8.5	9.0	4.5	5.0	3.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1957-1974

AREA 0015 OKHOTSK SEA NE
55.4N 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	27.7	.0	.0	27.7	1.8	.0	.0	.0	.0		.0	70.5
NE	.0	.0	4.7	.0	29.4	.0	.0	34.1	4.7	.0	4.7	.0	.0		.0	56.5
E	.0	.0	.0	.0	18.9	.0	.0	18.9	21.6	.0	.0	.0	.0		.0	59.5
SE	10.5	.0	.0	.0	13.2	.0	.0	23.7	2.6	.0	.0	.0	.0		.0	73.7
S	26.8	.0	.0	.0	5.6	.0	.0	32.4	19.7	.0	4.2	.0	.0		.0	43.7
SW	1.6	.0	.0	.0	16.1	.0	.0	17.7	9.7	.0	1.6	.0	.0		.0	71.0
W	.0	2.6	.0	.0	21.9	.0	.0	21.9	12.3	.0	.0	.0	.0		.0	65.8
NW	.0	.0	.0	.0	17.8	.0	.0	17.8	4.2	.0	3.4	.0	.0		.0	74.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	3.2	.5	.5	.0	20.1	.0	.0	23.8	7.9	.0	1.6	.0	.0		.0	66.7
TOT OBS:	189															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRIZ	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.6	.0	1.5	.0	9.2	.0	.0	15.4	9.2	.0	4.6	.0	.0		.0	70.8
06&09	1.8	1.8	.0	.0	23.2	.0	.0	25.0	8.9	.0	1.8	.0	.0		.0	64.3
12&15	2.3	.0	.0	.0	27.9	.0	.0	30.2	2.3	.0	.0	.0	.0		.0	67.4
18&21	2.6	.0	.0	.0	28.9	.0	.0	31.6	7.9	.0	.0	.0	.0		.0	60.5
TOT PCT	3.0	.5	.5	.0	20.8	.0	.0	24.3	7.4	.0	2.0	.0	.0		.0	66.3
TOT OBS:	202															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.7	4.6	14.9	1.7	.6	.0		23.5	14.6	19.1	.0	25.0	.0	30.1	.0	19.6	.0
NE	.0	3.5	5.2	2.0	.0	.0		10.7	14.9	11.7	.0	10.2	.0	9.6	.0	11.6	.0
E	.0	1.2	1.7	1.2	1.1	.0		5.2	20.2	4.3	.0	4.1	.0	4.5	.0	9.8	.0
SE	.0	1.1	2.1	.8	.3	.0		4.3	18.7	2.7	.0	8.7	.0	1.9	.0	2.7	.0
S	.0	3.7	1.9	2.4	1.7	.0		9.3	20.5	14.9	.0	7.1	.0	5.8	.0	8.9	.0
SW	.0	2.6	3.7	1.8	.2	.0		8.2	16.9	8.0	.0	8.7	.0	8.3	.0	8.0	.0
W	.0	2.7	8.8	7.5	.5	.0		19.5	20.3	18.1	.0	20.4	.0	20.5	.0	19.6	.0
NW	.2	2.6	9.8	4.0	.0	.0		16.3	17.7	17.0	.0	15.8	100.0	11.5	.0	19.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	4.3	.0	.0	.0	7.7	.0	.0	.0
TOT OBS	8	36	78	35	7	0	164		17.0	47	0	49	1	39	0	28	0
TOT PCT	4.9	22.0	47.6	21.3	4.3	.0		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.1	8.4	9.8	1.2	.0		23.5	14.6	19.1	24.5	30.1	19.6
NE	2.7	2.9	4.4	.6	.0		10.7	14.9	11.7	10.0	9.6	11.6
E	.0	2.4	1.7	1.1	.0		5.2	20.2	4.3	4.0	4.5	9.8
SE	.3	2.0	.9	1.1	.0		4.3	18.7	2.7	8.5	1.9	2.7
S	2.0	2.7	.9	3.0	.6		9.3	20.5	14.9	7.0	5.8	8.9
SW	.2	4.0	3.0	.9	.2		8.2	16.9	8.0	8.5	8.3	8.0
W	.9	4.0	13.1	1.1	.5		19.5	20.3	18.1	20.0	20.5	19.6
NW	.8	5.3	8.8	1.4	.0		16.3	17.7	17.0	17.5	11.5	19.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	4.3	.0	7.7	.0
TOT OBS	23	52	70	17	2	164		17.0	47	80	39	28
TOT PCT	14.0	31.7	42.7	10.4	1.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	2.1	14.9	55.3	19.1	4.3	.0	17.5	100.0	47
06&09	.0	.0	18.0	58.0	18.0	6.0	.0	17.9	100.0	50
12&15	7.7	2.6	25.6	41.0	23.1	.0	.0	15.1	100.0	39
18&21	.0	3.6	35.7	25.0	28.6	7.1	.0	17.4	100.0	28
TOT	5	3	36	78	35	7	0	17.0		164
PCT	3.0	1.8	22.0	47.6	21.3	4.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	2.8	5.6	11.5		6.4
NE	.1	.7	3.8	5.6		7.0
E	.0	.0	.0	2.7		8.0
SE	.0	.1	1.5	3.9		7.3
S	.0	.9	2.7	5.8		7.2
SW	.0	.9	3.8	3.3		6.8
W	1.5	3.7	12.3	4.4		5.9
NW	.3	2.1	9.9	4.9		6.1
VAR	.0	.0	.0	.0		.0
CALM	1.2	.6	1.2	.6		4.6
TOT OBS	9	20	69	71	169	6.4
TOT PCT	5.3	11.8	40.8	42.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	4.1	9.3	2.2	.0	.4	.0	6.1	
NE	.6	.0	.6	1.2	.9	5.5	.0	.0	.1	.0	1.5	
E	.0	.0	.0	.4	.0	1.6	.6	.0	.0	.0	.0	
SE	.6	.0	.0	.7	.9	1.3	.6	.0	.6	.0	.1	
S	.4	.4	1.6	1.8	.9	3.3	.0	.0	.0	.0	.9	
SW	.9	.1	.1	.7	.3	1.9	2.4	.0	.0	.0	1.5	
W	1.0	.0	.0	.4	9.3	3.0	1.2	.0	.0	.0	7.0	
NW	1.8	.0	.0	.6	3.1	5.5	.7	.6	1.8	.0	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	2.4	
TOT OBS	9	1	4	10	33	55	13	1	5	0	38	169
TOT PCT	5.3	.6	2.4	5.9	19.5	32.5	7.7	.5	3.0	.0	22.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.2	2.3	2.9	2.9	2.9	2.9	2.9	2.9
* OR >5000	1.2	2.3	3.5	3.5	3.5	3.5	3.5	3.5
* OR >3500	5.8	8.1	9.9	10.5	10.5	10.5	10.5	10.5
* OR >2000	25.6	31.4	39.0	41.9	43.6	44.2	44.2	44.2
* OR >1000	37.2	45.3	54.7	58.7	62.8	64.0	64.0	64.0
* OR >600	37.2	47.7	59.3	64.0	68.0	69.8	70.3	70.3
* OR >300	37.8	48.3	59.9	64.5	70.3	72.1	72.7	72.7
* OR >150	37.8	48.3	60.5	65.1	70.9	72.7	73.3	73.3
* OR > 0	37.8	48.8	61.6	68.0	74.4	76.2	78.5	78.5
TOTAL	65	84	106	117	128	131	135	135

TOTAL NUMBER OF OBS: 172 PCT FREQ NH <5/8: 21.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
1.1	1.1	4.8	6.4	8.0	9.6	11.7	18.6	34.6	4.3	188

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.4	.7	.4	.1	.0	.1	.9	.5	.0	.0	3.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
	TOT %	.4	.7	.4	.1	.0	.1	.9	1.1	.0	.0	3.8	
	PCP	1.9	.1	.0	.0	.0	.5	1.6	.5	.0	.0	4.3	
1/2<1	NO PCP	.0	.1	.9	.0	1.5	.1	.0	.0	.0	.0	2.7	
	TOT %	1.9	.3	.9	.0	1.5	.7	1.6	.5	.0	.0	7.0	
	PCP	1.5	1.2	.0	.5	.5	.5	.5	1.1	.0	.0	5.9	
1<2	NO PCP	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
	TOT %	1.5	1.2	.0	.5	.9	.7	.5	1.1	.0	.0	6.5	
	PCP	2.3	1.3	.5	.5	2.0	.1	.0	.7	.0	.0	7.5	
2<5	NO PCP	.4	.5	.5	.7	.8	.7	.4	1.8	.0	.5	5.9	
	TOT %	2.7	1.9	1.1	1.2	2.8	.8	.4	2.0	.0	.5	13.4	
	PCP	1.1	.5	.0	.0	.5	.1	.9	.0	.0	.0	3.2	
5<10	NO PCP	3.0	1.1	.0	.0	.0	2.2	1.5	1.5	.0	.0	9.1	
	TOT %	4.0	1.6	.0	.0	.5	2.3	2.4	1.5	.0	.0	12.4	
	PCP	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
10+	NO PCP	12.2	5.8	2.0	2.6	3.4	3.8	14.4	9.7	.0	2.7	56.5	
	TOT %	12.2	5.8	2.0	2.6	3.4	3.8	14.9	9.7	.0	2.7	57.0	
	TOT OBS												186
	TOT PCT	22.3	11.4	4.4	4.4	9.1	8.3	20.8	15.9	.0	3.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.5	.8	.0	.0	.0	.0	.0	.6	.0		1.9	
	22+	.0	.0	.5	.2	.0	.2	1.1	.6	.0		2.5	
	TOT %	.5	.8	.5	.2	.0	.2	1.1	1.3	.0	.0	4.4	
	0-3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	
1/2<1	4-10	1.1	.2	.0	.0	.0	.6	.0	.0	.0		1.9	
	11-21	.0	.0	.0	.0	.0	.0	1.9	.0	.0		1.9	
	22+	.0	.0	.6	.0	1.7	.2	.0	.0	.0		2.5	
	TOT %	1.7	.2	.6	.0	1.7	.8	1.9	.0	.0	.0	6.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.6	.6	.0	.0	.0		1.3	
	11-21	1.7	.8	.0	.0	.5	.2	.0	1.3	.0		4.4	
	22+	.0	.6	.0	.0	.0	.0	.6	.7	.0		1.3	
	TOT %	1.7	1.4	.0	.0	1.1	.8	.6	1.3	.0	.0	6.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.5	1.3	.0	.8	.5	.0	.0	.2	.0		3.1	
	11-21	2.0	.9	.6	.2	.5	.0	.0	1.4	.0		5.6	
	22+	.6	.0	.6	.3	1.9	.3	.5	.8	.0		5.0	
	TOT %	3.1	2.2	1.3	1.3	2.8	.3	.5	2.3	.0	.0	13.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.5	.0	.0	.0	.0	.0	.6	.2	.0		1.3	
	11-21	4.2	1.3	.0	.0	.0	2.0	.9	.3	.0		8.8	
	22+	.0	.0	.0	.0	.6	.6	1.3	1.3	.0		3.8	
	TOT %	4.7	1.3	.0	.0	.6	2.7	2.8	1.7	.0	.0	13.8	
	0-3	1.1	.0	.0	.0	.0	.0	.0	.2	.0	3.1	4.4	
10+	4-10	2.7	2.2	1.3	.3	2.7	1.4	2.2	2.3	.0		15.0	
	11-21	6.9	1.6	1.1	2.0	.6	.9	6.3	6.3	.0		25.6	
	22+	1.1	1.4	.0	.0	.0	.8	4.7	1.4	.0		9.4	
	TOT %	11.7	5.2	2.3	2.3	3.3	3.1	13.1	10.2	.0	3.1	54.4	
	TOT OBS												160
	TOT PCT	23.4	10.9	4.7	3.8	9.5	7.8	20.0	16.7	.0	3.1	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.6	1.8	1.8	3.6	21.8	30.9	10.9	.0	1.8	.0	76.4	23.6	55
06&09	3.6	.0	5.5	7.3	27.3	38.2	3.6	.0	1.8	.0	87.3	12.7	55
12&15	5.7	.0	.0	2.9	17.1	28.6	5.7	.0	5.7	.0	65.7	34.3	35
18&21	9.4	.0	.0	12.5	6.3	31.3	9.4	3.1	3.1	.0	75.0	25.0	32
TOT	9	1	4	11	35	58	13	1	5	0	137	40	177
PCT	5.1	.6	2.3	6.2	19.8	32.8	7.3	.6	2.8	.0	77.4	22.6	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
00&03	.0	6.3	7.8	10.9	18.8	56.3	64
06&09	3.6	9.1	7.3	16.4	5.5	58.2	55
12&15	4.7	7.0	7.0	11.6	11.6	58.1	43
18&21	8.1	5.4	10.8	13.5	16.2	45.9	37
TOT	7	14	16	26	26	110	199
PCT	3.5	7.0	8.0	13.1	13.1	55.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.8	11.5	26.9	53.8	19.2	52
06&09	3.7	16.7	42.6	46.3	11.1	54
12&15	5.9	17.6	29.4	41.2	29.4	34
18&21	9.4	15.6	40.6	34.4	25.0	32
TOT	9	26	60	78	34	172
PCT	5.2	15.1	34.9	45.3	19.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	.0	33.3	.0	1	33.3
30/34	.0	.0	.0	.0	.0	.0	33.3	33.3	2	66.7
TOTAL	0	0	0	0	0	0	2	1	3	100.0
PCT	.0	.0	.0	.0	.0	.0	66.7	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0
	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0
	33.3	.0	33.3	33.3	.0	.0	.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	48	40	30	21	18	18	30.5	63
06&09	41	40	36	29	23	23	23	29.4	52
12&15	40	39	36	28	23	19	19	29.0	41
18&21	40	39	38	28	23	23	23	29.2	33
TOT	50	41	38	28	23	18	18	29.6	189

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03								
06&09	.0	.0	.0	.0	50.0	50.0	94	2
12&15								
18&21	.0	.0	.0	.0	100.0	.0	89	1
TOT	0	0	0	0	2	1	92	3

NOVEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1957-1974

AREA 0015 OKHOTSK SEA NE
55.4N 153.2E

TABLE 17

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

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.0	.6	1	.0	.6
5	.0	.0	.0	.0	.0	1.1	.0	2	.0	1.1
3	.0	.0	.0	.0	.0	.6	.6	2	.0	1.1
2	.0	.0	.0	.0	.0	.6	.6	2	.0	1.1
1	.0	.0	.0	.6	2.3	1.1	.0	7	.0	4.0
0	.0	.0	.0	.0	.0	.6	.0	1	.0	.6
-1	.0	.0	.0	.0	1.1	.0	.0	2	.0	1.1
-2	.0	.0	.0	2.3	2.9	.0	.0	9	.0	5.1
-3	.0	.0	.0	.6	1.1	.0	.0	3	.0	1.7
-4	.0	.0	.6	1.7	1.7	.6	.0	8	.0	4.6
-5	.0	.0	2.3	5.7	3.4	.6	.0	21	.6	11.4
-6	.0	.0	5.1	2.9	2.3	.0	.0	18	.0	10.3
-7/-8	.0	.0	13.7	9.7	1.1	.0	.0	43	.6	24.0
-9/-10	.0	1.7	11.4	1.7	.0	.0	.0	26	.6	14.8
-11/-13	.0	5.1	5.1	.0	1.1	.0	.0	20	.0	11.4
-14/-16	.6	.6	1.1	.0	.0	.0	.0	4	.0	2.3
-17/-19	1.7	.6	1.1	.0	.0	.0	.0	6	.6	2.8
TOTAL	4	14	71	44	30	9	3	175	4	171
PCT	2.3	8.0	40.6	25.1	17.1	5.1	1.7	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.7	1.9	.0	.0	.0	5.3
1-2	.0	.6	1.5	.0	.0	.0	2.1
3-4	.6	.0	9.4	.8	.0	.0	10.7
5-6	.0	.0	.8	.6	.0	.0	1.3
7	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.8	.0	.0	.0	.0	.0	.8
17-19	.0	.0	.0	.8	.0	.0	.8
20-22	.0	.0	.0	.0	.8	.0	.8
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.1	3.2	15.6	2.1	.8	.0	23.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.2	.0	.0	.0	2.1
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	1.7	.0	.0	.0	1.7
5-6	.0	.0	1.5	.2	.0	.0	1.7
7	.0	.0	1.5	.0	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	5.0	1.0	.0	.0	8.8

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.2	2.3	.0	.0	.0	2.5
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.8	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.2	.2	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	2.5	1.0	.2	.0	4.8

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0015 OKHOTSK SEA NE
55.4N 153.2E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.8	.0	.0	.0	.0	.8
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.6	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	.0	.0	1.3
17-19	.0	.0	.0	.6	.6	.0	1.1
20-22	.0	.0	.0	.6	.0	.0	.6
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	1.9	3.1	.6	.0	9.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.8	.8	.0	.0	.0	1.5
5-6	.0	.0	.4	.8	.0	.0	1.1
7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.8	.8	.0	.0	1.5
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	3.1	2.3	.0	.0	8.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.3	.6	.0	.0	.0	1.9
3-4	.0	.0	2.3	2.1	.0	.0	4.4
5-6	.0	.0	1.3	.8	.0	.0	2.1
7	.0	.8	4.0	1.5	.0	.0	6.3
8-9	.0	.0	1.5	.8	.0	.0	2.3
10-11	.0	.0	.8	2.7	.0	.0	3.4
12	.0	.0	.0	.8	.0	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	10.5	8.6	.0	.0	21.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.2	.0	.0	.0	1.1	
1-2	.0	1.7	1.7	.0	.0	.0	3.4	
3-4	.2	.0	3.4	1.0	.0	.0	4.6	
5-6	.0	.0	2.3	.0	.0	.0	2.3	
7	.0	.0	.4	1.5	.0	.0	1.9	
8-9	.0	.0	.8	.0	.0	.0	.8	
10-11	.0	.0	.8	1.0	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.8	.0	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.7	9.5	4.2	.0	.0	16.6	96.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	10.6	2.3	.0	.0	.0	17.4	
1-2	.0	8.3	6.1	.0	.0	.0	14.4	
3-4	.8	1.5	17.4	3.8	.0	.0	23.5	
5-6	.0	.0	8.3	3.0	.0	.0	11.4	
7	.0	.8	8.3	3.0	.0	.0	12.1	
8-9	.0	.0	3.8	1.5	.0	.0	5.3	
10-11	.0	.0	2.3	5.3	.0	.0	7.6	
12	.0	.0	.0	.8	.8	.0	1.5	
13-16	.8	.0	.0	2.3	.0	.0	3.0	
17-19	.0	.0	.0	1.5	.8	.0	2.3	
20-22	.0	.0	.0	.8	.8	.0	1.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	21.2	48.5	22.0	2.3	.0	100.0	132

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	5.1	9.1	9.1	6.3	2.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	5
6-7	.0	1.7	6.3	5.7	2.9	2.3	6.3	1.1	1.1	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	50	7
8-9	.0	.0	.0	.6	2.9	2.3	1.7	1.7	2.9	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	23	11
10-11	.0	.6	.0	.6	.0	.6	1.1	.6	.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
12-13	.0	.0	.0	.0	.6	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
>13	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2	13
INDET	2.9	2.9	4.0	1.1	3.4	.6	1.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	4
TOTAL	6	18	34	31	28	17	19	6	9	4	3	0	0	0	0	0	0	0	0	175	6
PCT	3.4	10.3	19.4	17.7	16.0	9.7	10.9	3.4	5.1	2.3	1.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	2.2	29.7	.0	.0	31.9	2.2	.0	2.9	.0	.0	.0	.0	63.0
NE	.0	.0	.0	.0	14.9	.0	.0	14.9	.0	.0	4.3	.0	.0	.0	.0	80.9
E	.0	.0	.0	.0	21.6	.0	.0	21.6	.0	.0	.0	.0	.0	.0	.0	78.4
SE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
S	.0	.0	.0	.0	30.8	.0	.0	30.8	.0	.0	.0	.0	.0	.0	.0	69.2
SW	.0	.0	.0	.0	34.3	2.9	.0	37.1	.0	.0	.0	.0	.0	.0	.0	62.9
W	.0	.0	.0	.0	42.6	3.0	.0	45.5	.0	4.0	.0	.0	.0	.0	.0	54.5
NW	.0	.0	.0	1.6	28.1	.0	.0	29.7	1.6	.0	.0	.0	.0	.0	.0	68.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	.0	.0	.0	.8	28.3	.8	.0	29.9	.8	.8	1.6	.0	.0	.0	.0	67.7
TOT OBS:	127															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	29.2	2.1	.0	31.3	.0	.0	.0	.0	.0	.0	.0	68.8
06&09	.0	.0	.0	3.2	16.1	.0	.0	19.4	.0	.0	3.2	.0	.0	.0	.0	77.4
12&15	.0	.0	.0	.0	36.4	.0	.0	36.4	.0	3.0	3.0	.0	.0	.0	.0	60.6
18&21	.0	.0	.0	.0	36.4	.0	.0	36.4	4.5	.0	.0	.0	.0	.0	.0	59.1
TOT PCT	.0	.0	.0	.7	29.1	.7	.0	30.6	.7	.7	1.5	.0	.0	.0	.0	67.2
TOT OBS:	134															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	3.3	15.2	3.8	2.5	.0		24.8	18.5	22.5	.0	27.1	.0	31.3	.0	17.5	.0
NE	.0	4.0	8.3	4.0	2.9	.0		19.2	20.7	20.6	.0	12.5	.0	14.3	.0	31.3	.0
E	.0	.7	8.5	.0	.0	.0		9.2	15.5	11.3	.0	4.2	.0	10.7	.0	8.8	.0
SE	.0	1.3	1.8	.0	.0	.0		3.1	9.8	.6	.0	.0	.0	4.5	.0	10.0	.0
S	.0	2.2	.7	.0	.0	.0		2.9	9.0	4.4	.0	3.1	.0	2.7	.0	.0	.0
SW	.0	1.8	4.8	1.1	.0	.0		7.8	15.9	5.6	.0	18.8	.0	3.6	.0	5.0	.0
W	.0	6.3	10.3	1.6	.9	.0		19.0	15.9	19.4	.0	15.6	.0	21.4	.0	18.8	.0
NW	.0	3.6	7.6	1.1	.0	.0		12.3	14.0	15.6	.0	10.4	.0	11.6	.0	8.8	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0	.0	.0	8.3	.0	.0	.0	.0	.0
TOT OBS	2	26	64	13	7	0	112		16.5	40	0	24	0	28	0	20	0
TOT PCT	1.8	23.2	57.1	11.6	6.3	.0		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	9.8	10.3	3.1	.0		24.8	18.5	22.5	27.1	31.3	17.5
NE	2.2	4.0	9.2	2.0	1.8		19.2	20.7	20.6	12.5	14.3	31.3
E	.7	4.2	4.2	.0	.0		9.2	15.5	11.3	4.2	10.7	8.8
SE	.9	2.2	.0	.0	.0		3.1	9.8	.6	.0	4.5	10.0
S	.9	2.0	.0	.0	.0		2.9	9.0	4.4	3.1	2.7	.0
SW	.0	3.8	4.0	.0	.0		7.8	15.9	5.6	18.8	3.6	5.0
W	1.8	9.8	5.6	.9	.9		19.0	15.9	19.4	15.6	21.4	18.8
NW	2.7	4.2	5.1	.2	.0		12.3	14.0	15.6	10.4	11.6	8.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	.0	8.3	.0	.0
TOT OBS	14	45	43	7	3	112		16.5	40	24	28	20
TOT PCT	12.5	40.2	38.4	6.3	2.7		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	25.0	57.5	10.0	7.5	.0	17.3	100.0	40
06&09	8.3	.0	12.5	62.5	8.3	8.3	.0	16.0	100.0	24
12&15	.0	.0	32.1	50.0	14.3	3.6	.0	15.4	100.0	28
18&21	.0	.0	20.0	60.0	15.0	5.0	.0	17.1	100.0	20
TOT	2	0	26	64	13	7	0	16.5		112
PCT	1.8	.0	23.2	57.1	11.6	6.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	.0	8.3	14.5		6.7
NE	1.2	1.9	8.6	6.4		6.1
E	2.6	.0	1.4	2.9		5.0
SE	.0	2.1	1.2	.0		3.8
S	.0	.7	1.4	1.0		5.9
SW	.0	.0	4.0	3.3		6.8
W	.0	5.7	6.7	11.0		6.5
NW	2.4	1.0	4.5	1.9		5.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.0	1.9		7.6
TOT OBS	9	12	39	45	105	6.2
TOT PCT	8.6	11.4	37.1	42.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.3	.0	1.9	1.9	5.0	7.1	1.0	.0	.0	.0	5.0	
NE	1.4	.0	.0	1.0	3.3	4.0	3.1	.0	1.0	.0	4.3	
E	.0	.0	.0	.0	1.0	1.7	.7	.0	.0	1.0	2.6	
SE	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	2.1	
S	.0	.0	1.0	.0	.0	.7	.0	.0	.0	.0	1.4	
SW	1.0	.0	.2	.0	.2	3.8	1.0	.0	.0	.0	1.2	
W	2.9	.0	.7	3.8	3.6	5.7	.0	.0	1.0	.0	5.7	
NW	1.0	.0	.0	1.0	.2	3.3	.0	.0	.0	1.0	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	1.9	.0	.0	1.0	.0	.0	
TOT OBS	10	0	4	8	14	31	6	0	3	2	27	105
TOT PCT	9.5	.0	3.8	7.6	13.3	29.5	5.7	.0	2.9	1.9	25.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	3.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
▪ OR >5000	3.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5
▪ OR >3500	9.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0
▪ OR >2000	28.2	33.6	37.3	38.2	38.2	38.2	38.2	38.2
▪ OR >1000	31.8	40.0	47.3	50.0	50.9	50.9	51.8	51.8
▪ OR >600	33.6	44.5	51.8	55.5	58.2	58.2	59.1	59.1
▪ OR >300	34.5	47.3	55.5	60.9	63.6	63.6	65.5	65.5
▪ OR >150	34.5	47.3	55.5	60.9	63.6	63.6	65.5	65.5
▪ OR > 0	34.5	49.1	59.1	64.5	71.8	71.8	73.6	74.5
TOTAL	38	54	65	71	79	79	81	82

TOTAL NUMBER OF OBS: 110 PCT FREQ NH <5/8: 25.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.8	.0	3.3	9.1	5.8	8.3	8.3	14.9	36.4	8.3	121

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	1.6	
	NO PCP	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.8	.0	.0	.0	.0	.8	.8	.0	.0	2.3	
1/2<1	PCP	2.0	.4	.8	.0	.0	.8	3.1	.8	.0	.0	7.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.0	.4	.8	.0	.0	.8	3.1	.8	.0	.0	7.8	
1<2	PCP	.0	.0	.8	.0	.0	.2	2.7	.2	.0	.0	3.9	
	NO PCP	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.8	.0	.8	.0	.0	.2	2.7	.2	.0	.0	4.7	
2<5	PCP	4.5	2.3	.8	.0	.8	1.6	.8	.2	.0	.0	10.9	
	NO PCP	.6	.0	.0	.2	.6	.0	.0	.2	.0	.0	1.6	
	TOT %	5.1	2.3	.8	.2	1.4	1.6	.8	.4	.0	.0	12.5	
5<10	PCP	1.6	.0	.0	.0	.0	.0	.8	1.6	.0	.8	4.7	
	NO PCP	4.9	2.1	.8	.0	.0	1.0	5.3	1.6	.0	.0	15.6	
	TOT %	6.4	2.1	.8	.0	.0	1.0	6.1	3.1	.0	.8	20.3	
10+	PCP	.6	.0	.0	.0	.0	.0	.8	.2	.0	.0	1.6	
	NO PCP	12.1	12.7	4.9	2.5	1.2	3.3	5.5	7.0	.0	1.6	50.8	
	TOT %	12.7	12.7	4.9	2.5	1.2	3.3	6.3	7.2	.0	1.6	52.3	
	TOT OBS												128
	TOT PCT	27.0	18.4	8.0	2.7	2.5	6.8	19.7	12.9	.0	2.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.9	.9	.0		1.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	1.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	1.8	.0	.0		1.8	
	11-21	.7	.2	.9	.0	.0	.0	1.8	.0	.0		3.6	
	22+	1.6	.2	.0	.0	.0	.9	.0	.9	.0		3.6	
	TOT %	2.2	.4	.9	.0	.0	.9	3.6	.9	.0	.0	8.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.9	.0	.0	.2	2.2	.2	.0		3.6	
	22+	.0	.0	.0	.0	.0	.0	.9	.0	.0		.9	
	TOT %	.0	.0	.9	.0	.0	.2	3.1	.2	.0	.0	4.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	1.8	.0	.2	1.6	.0	.0	.0	.0		3.6	
	11-21	3.3	.9	.9	.0	.0	1.8	.9	.2	.0		8.0	
	22+	.7	.0	.0	.0	.0	.0	.0	.2	.0		.9	
	TOT %	4.0	2.7	.9	.2	1.6	1.8	.9	.4	.0	.0	12.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.2	.0	.0	.0	.9	1.8	1.8	.0		5.4	
	11-21	1.8	.0	.9	.0	.0	.0	.9	.9	.0		4.5	
	22+	1.6	2.0	.0	.0	.0	.2	1.6	.0	.0		5.4	
	TOT %	4.0	2.2	.9	.0	.0	1.1	4.2	2.7	.0	.0	15.2	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	1.8	
	4-10	2.7	2.0	.7	1.1	.7	.9	2.7	1.8	.0		12.5	
	11-21	9.4	7.1	4.9	1.8	.7	2.9	3.6	5.4	.0		35.7	
	22+	2.5	4.7	.0	.0	.0	.0	.0	.0	.0		7.1	
	TOT %	14.5	13.8	5.6	2.9	1.3	3.8	6.3	7.1	.0	1.8	57.1	
	TOT OBS												112
	TOT PCT	24.8	19.2	9.2	3.1	2.9	7.8	19.0	12.3	.0	1.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.0	.0	10.0	10.0	15.0	32.5	2.5	.0	2.5	2.5	80.0	20.0	40
06&09	.0	.0	10.7	3.6	10.7	32.1	10.7	.0	3.6	.0	71.4	28.6	28
12&15	20.0	.0	.0	8.0	12.0	24.0	.0	.0	4.0	4.0	72.0	28.0	25
18&21	16.7	.0	.0	5.6	16.7	16.7	11.1	.0	.0	.0	66.7	33.3	18
TOT	10	0	7	8	15	31	6	0	3	2	82	29	111
PCT	9.0	.0	6.3	7.2	13.5	27.9	5.4	.0	2.7	1.8	73.9	26.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	2.0	7.8	5.9	11.8	23.5	49.0	51
06&09	6.3	.0	6.3	3.1	28.1	56.3	32
12&15	5.7	11.4	.0	17.1	20.0	45.7	35
18&21	.0	17.4	8.7	17.4	4.3	52.2	23
TOT	5	12	7	17	29	71	141
PCT	3.5	8.5	5.0	12.1	20.6	50.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.0	17.5	37.5	42.5	20.0	40
06&09	.0	14.3	25.0	46.4	28.6	28
12&15	20.8	25.0	37.5	37.5	25.0	24
18&21	16.7	22.2	38.9	27.8	33.3	18
TOT	10	21	38	44	28	110
PCT	9.1	19.1	34.5	40.0	25.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
30/34	.0	.0	.0	.0	.0	.0	100.0	.0	1	100.0
TOTAL	0	0	0	0	0	0	1	0	1	100.0
PCT	.0	.0	.0	.0	.0	.0	100.0	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	100.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	32	31	31	23	12	1	1	23.4	48
06&09	39	38	37	27	2	-2	-2	24.0	30
12&15	39	38	32	25	6	3	3	23.7	34
18&21	39	38	36	23	10	10	10	24.5	22
TOT	39	38	32	25	9	1	-2	23.8	134

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03								
06&09	.0	.0	.0	.0	100.0	.0	87	1
12&15								
18&21								
TOT	0	0	0	0	1	0	87	1

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1957-1973

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1	.0	1.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1	.0	1.0
3	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	2	.0	1.9
2	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1	.0	1.0
0	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	2	.0	1.9
-1	.0	.0	.0	.0	.0	.0	1.0	1.0	.0	.0	2	.0	1.9
-2	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	3	.0	2.9
-3	.0	.0	.0	.0	.0	.0	1.9	1.0	.0	.0	3	.0	2.9
-4	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	4	.0	3.8
-5	.0	.0	.0	.0	.0	.0	9.6	1.9	.0	.0	12	.0	11.5
-6	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	4	.0	3.8
-7/-8	.0	.0	.0	.0	.0	6.7	5.8	1.0	.0	.0	14	.0	13.5
-9/-10	.0	.0	.0	.0	1.0	7.7	5.8	1.0	.0	.0	16	.0	15.4
-11/-13	.0	.0	.0	.0	2.9	9.6	1.9	1.9	.0	.0	17	.0	16.3
-14/-16	.0	.0	.0	.0	6.7	1.9	.0	.0	.0	.0	9	.0	8.7
-17/-19	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	2	.0	1.9
-20/-22	.0	.0	5.8	1.0	1.0	1.0	.0	.0	.0	.0	9	1.0	7.7
-23/-25	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.0
<-30	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.0
TOTAL	1		6		13		32		1			1	103
		1		2		28		17		3	104		
PCT	1.0	1.0	5.8	1.9	12.5	26.9	30.8	16.3	1.0	2.9	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.0	.0	.0	.0	.0	1.0
3-4	.0	.0	10.3	.0	.0	.0	10.3
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	1.3	1.0	.0	.0	2.3
8-9	.0	.0	.0	2.3	.0	.0	2.3
10-11	.0	.0	1.3	.0	.0	.0	1.3
12	.0	.0	.0	.0	1.0	.0	1.0
13-16	.0	.0	.0	.0	1.3	.0	1.3
17-19	.0	.0	.0	1.3	.0	.0	1.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	15.3	4.7	2.3	.0	24.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	.3	.0	.0	.0	.7
3-4	.0	1.3	2.3	.0	.0	.0	3.7
5-6	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	4.0	3.0	.0	.0	7.0
8-9	.0	.0	.0	3.0	.0	.0	3.0
10-11	.0	.0	.0	.0	2.7	.0	2.7
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	1.3	.0	1.3
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	9.3	6.0	4.3	.0	21.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	1.3	.0	.0	.0	1.3
1-2	.0	.0	2.3	.0	.0	.0	2.3
3-4	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.7	.0	.0	.0	2.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	1.3	.0	.0	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	11.3	.0	.0	.0	11.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	1.7	.0	.0	.0	.0	1.7
3-4	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	1.3	.0	.0	.0	3.3

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

AREA 0015 OKHOTSK SEA NE
55.2N 153.5E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	1.0	.0	.0	.0	2.0	.0	.0	.3	.0	.0	.0	.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.3	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.0	.0	1.7
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	2.7	.0	.0	.0	2.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	1.0	.0	.0	.0	3.0	.0	.0	6.0	1.7	.0	.0	7.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	2.7	
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	1.3	
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	3.7	.0	.0	.0	3.7	
5-6	.0	1.3	5.0	1.0	.0	.0	7.3	.0	.0	3.3	.0	.0	.0	3.3	
7	.0	.0	2.3	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.3	11.3	1.0	1.3	.0	15.0	.0	2.7	8.3	.0	.0	.0	11.0	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	5.3	1.3	.0	.0	.0	9.3	
1-2	.0	4.0	6.7	.0	.0	.0	10.7	
3-4	.0	1.3	24.0	.0	.0	.0	25.3	
5-6	.0	1.3	14.7	1.3	.0	.0	17.3	
7	.0	.0	10.7	5.3	.0	.0	16.0	
8-9	.0	.0	.0	5.3	.0	.0	5.3	
10-11	.0	.0	5.3	.0	2.7	.0	8.0	
12	.0	.0	.0	.0	1.3	.0	1.3	
13-16	.0	.0	1.3	.0	1.3	.0	2.7	
17-19	.0	.0	.0	1.3	1.3	.0	2.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.3	.0	1.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	12.0	64.0	13.3	8.0	.0	100.0	75

PERIOD: (OVER-ALL) 1957-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.5	6.3	6.3	3.6	.9	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
6-7	.0	1.8	1.8	8.0	7.1	1.8	2.7	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
8-9	.0	.0	.9	.0	1.8	2.7	4.5	.9	2.7	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	16	11
10-11	.0	.0	1.8	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
12-13	.0	.0	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	3.6	1.8	6.3	2.7	9.8	2.7	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
TOTAL	4	9	20	22	25	9	13	1	6	2	0	0	1	0	0	0	0	0	0	112	6
PCT	3.6	8.0	17.9	19.6	22.3	8.0	11.6	.9	5.4	1.8	.0	.0	.9	.0	.0	.0	.0	.0	.0	100.0	

ANNUAL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

AREA 0015 OKHOTSK SEA NE
55.3N 153.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	1.4	.2	.6	.2	12.4	.3	.0	14.8	1.9	.0	8.9	.4	.1		.0	73.9
NE	3.1	.2	2.4	*	9.1	.1	*	14.8	3.6	.0	7.7	.2	.7		.2	72.9
E	10.3	.6	3.0	*	12.5	.2	.0	26.4	3.4	.0	7.5	1.0	.4		.0	61.2
SE	9.4	.1	6.1	*	11.2	.1	.1	26.2	4.3	.0	10.2	.5	*		.1	58.7
S	9.0	.3	3.6	*	13.3	.1	.0	25.9	4.4	.0	13.7	.6	.5		.5	54.3
SW	4.0	.1	2.7	*	17.5	.3	.0	24.5	3.0	.0	13.4	.4	.7		.1	57.8
W	2.1	.5	1.4	.1	15.0	.6	.0	19.3	3.4	.3	11.0	.3	.8		.0	65.2
NW	1.1	.3	1.1	.1	14.2	.2	.0	16.5	2.2	.1	9.6	.3	.2		.0	71.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.7	.1	.9	.0	9.0	.0	.0	10.6	1.8	.0	15.6	.1	.1		.0	71.8
TOT PCT	4.2	.3	2.4	.1	12.5	.2	*	19.5	3.0	.1	11.0	.4	.5		.1	65.5
TOT OBS:	9476															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	3.8	.1	2.1	*	10.4	.4	.0	16.7	2.7	.0	12.0	.5	.3		*	67.7
06&09	4.6	.4	1.7	.3	9.9	.1	.0	16.4	2.4	.0	10.7	.4	.5		.1	69.4
12&15	4.8	.1	2.9	*	16.5	.2	*	24.3	2.2	.4	10.6	.1	.4		.1	61.2
18&21	3.5	.7	2.9	*	14.5	.1	*	21.4	4.5	.0	11.1	.6	.7		.3	61.2
TOT PCT	4.2	.3	2.4	.1	12.6	.2	*	19.5	2.9	.1	11.2	.4	.5		.1	65.4
TOT OBS:	9772															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	5.9	8.8	2.3	.5	*		18.6	14.0	16.9	15.1	19.7	15.7	19.2	13.6	17.9	13.6
NE	.5	4.5	6.2	2.4	.6	*		14.3	14.7	15.3	15.0	12.4	6.1	15.6	3.3	15.6	7.6
E	.3	2.3	2.8	.6	.2	.0		6.3	13.1	5.8	2.4	6.2	2.1	6.1	1.7	7.0	7.1
SE	.4	2.4	3.3	.8	.1	*		7.0	13.6	7.4	4.1	7.4	4.3	6.2	7.4	6.8	5.1
S	.6	4.6	6.0	2.5	.5	.1		14.2	14.8	15.4	14.8	13.9	13.4	13.8	11.1	11.8	11.4
SW	.4	3.7	4.5	1.3	*	*		9.9	13.5	9.1	12.3	9.9	7.7	9.8	12.5	10.3	6.2
W	.7	4.6	5.6	2.0	.2	.0		13.2	13.2	13.1	4.7	13.1	11.1	13.2	10.7	13.1	7.5
NW	.5	4.3	5.8	1.5	.1	.0		12.2	12.9	11.1	4.1	13.6	13.2	11.7	4.2	13.3	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	5.8	2.6	3.8	1.3	4.3	2.2	4.2	2.2
TOT OBS							8909		13.7	1792	630	1742	548	1651	552	1490	504
TOT PCT	8.9	32.4	43.1	13.3	2.2	.2		100.0		100.0	75.0	100.0	79.0	100.0	66.7	100.0	66.7

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	9.0	5.0	1.3	.1		18.6	14.0	17.0	20.1	19.2	16.0
NE	2.3	5.7	4.8	1.1	.2		14.3	14.7	15.0	12.2	14.7	15.3
E	1.3	3.0	1.7	.3	*		6.3	13.1	5.8	6.0	6.1	7.4
SE	1.7	3.3	1.5	.5	*		7.0	13.6	7.2	7.2	6.6	6.9
S	2.5	6.4	4.0	1.3	.1		14.2	14.8	15.8	14.2	13.9	12.3
SW	1.8	5.1	2.7	.3	*		9.9	13.5	9.5	10.0	10.3	10.3
W	2.7	6.0	3.8	.6	.1		13.2	13.2	12.9	13.2	13.6	13.0
NW	2.2	6.1	3.3	.5	*		12.2	12.9	11.3	13.5	11.4	12.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	5.5	3.6	4.2	4.0
TOT OBS						8909		13.7	2422	2290	2203	1994
TOT PCT	22.1	44.5	26.7	6.0	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.5	4.3	31.7	44.0	12.0	2.4	*	13.6	100.0	2422
06&09	3.6	3.9	31.0	46.3	12.4	2.8	.1	13.9	100.0	2290
12&15	4.2	4.8	33.1	40.5	15.2	1.7	.4	13.8	100.0	2203
18&21	4.0	5.3	33.6	40.7	14.6	1.7	.1	13.5	100.0	1994
TOT								13.7		8909
PCT	4.4	4.5	32.4	43.1	13.3	2.2	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.9	5.1	8.3		5.9
NE	2.6	1.1	4.3	5.6		5.8
E	.7	.4	1.3	3.6		6.6
SE	.3	.4	1.3	4.8		6.8
S	1.0	.7	2.2	10.1		6.8
SW	.9	.5	2.5	5.8		6.6
W	2.0	1.9	4.7	5.6		5.9
NW	2.0	1.1	4.4	4.8		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.2	.6	.7	2.4		5.4
TOT OBS					8409	6.1
TOT PCT	13.7	8.6	26.6	51.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.9	*	.3	1.2	2.6	4.5	1.0	.4	.3	.1	6.0	
NE	1.2	.1	.3	.6	1.7	3.5	.8	.3	.4	.1	4.6	
E	.9	*	.1	.5	1.0	1.2	.6	.1	.1	.1	1.4	
SE	1.3	*	.3	1.0	1.2	1.5	.4	*	.3	*	.9	
S	2.7	.2	.7	2.4	2.5	2.4	.5	.2	.2	*	2.2	
SW	1.6	*	.2	1.3	1.5	2.4	.6	.1	.1	.1	1.8	
W	1.6	*	.2	1.1	2.7	3.2	.3	.1	.2	.1	4.6	
NW	1.5	*	.2	.8	2.1	2.8	.8	.1	.2	.1	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	*	.1	.3	.4	.8	.1	*	.2	*	2.0	
TOT OBS												8409
TOT PCT	13.5	.4	2.4	9.3	15.5	22.4	5.2	1.4	2.0	.6	27.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.6	2.2	2.4	2.5	2.5	2.5	2.5	2.5
* OR >5000	2.1	3.2	3.6	3.7	3.7	3.8	3.9	3.9
* OR >3500	5.5	7.6	8.6	8.9	9.0	9.0	9.1	9.1
* OR >2000	17.4	24.6	29.6	30.8	31.2	31.4	31.5	31.5
* OR >1000	22.7	33.9	41.8	44.3	45.7	46.2	46.8	46.8
* OR >600	24.1	38.5	48.8	52.3	54.1	55.2	55.9	55.9
* OR >300	24.3	39.4	50.4	54.4	56.5	57.6	58.5	58.5
* OR >150	24.3	39.5	50.8	54.8	56.9	58.1	58.9	58.9
* OR > 0	24.3	40.3	52.9	58.4	62.1	66.2	71.9	72.7

TOTAL NUMBER OF OBS: 8467

PCT FREQ NH <5/8: 27.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.3	3.6	4.8	4.9	4.4	5.1	8.6	10.5	37.4	12.5	9020

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.3	.3	.4	.2	.5	.3	.4	.4	.0	*	2.7	
<1/2	NO PCP	1.0	.5	.2	.5	1.9	1.2	.9	.8	.0	.9	7.9	
	TOT %	1.3	.8	.6	.7	2.3	1.4	1.3	1.2	.0	.9	10.6	
	PCP	.6	.2	.3	.3	.3	.3	.6	.3	.0	.0	3.0	
1/2<1	NO PCP	.1	.1	.1	.1	.4	.1	.1	.1	.0	*	1.2	
	TOT %	.8	.4	.4	.3	.8	.4	.7	.4	.0	*	4.2	
	PCP	.6	.5	.4	.3	.7	.4	.7	.5	.0	*	4.1	
1<2	NO PCP	.2	.2	.1	.2	.4	.1	.2	.1	.0	*	1.5	
	TOT %	.8	.7	.5	.5	1.1	.5	.8	.6	.0	.1	5.7	
	PCP	1.3	.8	.4	.6	1.2	.5	.5	.7	.0	.1	6.2	
2<5	NO PCP	1.1	1.0	.4	.7	1.6	.9	.7	.9	.0	.5	7.7	
	TOT %	2.4	1.8	.8	1.3	2.8	1.5	1.2	1.5	.0	.5	13.9	
	PCP	.4	.3	.3	.4	.4	.5	.4	.3	.0	.3	3.3	
5<10	NO PCP	3.8	2.8	1.1	1.1	2.4	2.0	2.7	2.4	.0	.6	19.0	
	TOT %	4.2	3.1	1.3	1.5	2.9	2.5	3.1	2.7	.0	.8	22.2	
	PCP	.1	*	*	.1	*	*	.2	.1	.0	*	.6	
10+	NO PCP	9.2	7.3	2.7	2.4	4.1	3.3	5.9	5.9	.0	2.2	42.8	
	TOT %	9.2	7.3	2.7	2.4	4.1	3.3	6.1	6.0	.0	2.2	43.4	
	TOT OBS												9463
	TOT PCT	18.7	14.1	6.3	6.8	14.0	9.6	13.4	12.4	.0	4.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.1	.1	.1	.3	.2	.2	.1	.0	.9	1.9	
<1/2	4-10	.6	.2	.2	.5	1.0	.6	.6	.4	.0		4.2	
	11-21	.5	.3	.2	.3	1.0	.6	.3	.4	.0		3.6	
	22+	.1	.2	.1	.1	.4	.2	.3	.3	.0		1.7	
	TOT %	1.3	.8	.6	1.0	2.7	1.6	1.4	1.2	.0	.9	11.3	
	0-3	.1	*	.0	*	*	*	*	*	.0	*	.2	
1/2<1	4-10	.2	.1	.1	.1	.1	.1	.2	.1	.0		1.0	
	11-21	.3	.2	.2	.1	.4	.1	.4	.2	.0		1.8	
	22+	.3	.1	.1	.1	.3	.1	.1	.1	.0		1.2	
	TOT %	.8	.4	.3	.3	.8	.4	.7	.4	.0	*	4.2	
	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
1<2	4-10	.1	.2	.1	.1	.3	.3	.2	.1	.0		1.4	
	11-21	.5	.3	.3	.2	.5	.2	.5	.5	.0		2.8	
	22+	.2	.2	*	.2	.4	.1	.2	.1	.0		1.3	
	TOT %	.8	.7	.5	.5	1.1	.5	.9	.6	.0	*	5.7	
	0-3	.1	*	*	.1	.1	*	.1	.1	.0	.4	.9	
2<5	4-10	.6	.7	.2	.4	.7	.5	.3	.4	.0		3.9	
	11-21	1.3	.8	.3	.7	1.3	.8	.6	.7	.0		6.5	
	22+	.5	.4	.2	.3	.8	.1	.2	.4	.0		2.9	
	TOT %	2.5	1.9	.8	1.4	2.9	1.5	1.3	1.5	.0	.4	14.2	
	0-3	.2	.1	.1	.1	.1	.1	.1	.2	.0	.6	1.6	
5<10	4-10	1.3	.8	.6	.4	.8	.9	1.1	1.2	.0		7.1	
	11-21	1.8	1.3	.5	.8	1.2	1.2	1.2	1.1	.0		9.0	
	22+	.7	.9	.1	.1	.5	.4	.6	.3	.0		3.8	
	TOT %	4.0	3.1	1.3	1.5	2.7	2.5	3.1	2.8	.0	.6	21.5	
	0-3	.5	.3	.1	.1	.1	.1	.2	.1	.0	2.3	3.9	
10+	4-10	3.1	2.7	1.2	.9	1.7	1.3	2.2	2.2	.0		15.1	
	11-21	4.7	3.4	1.2	1.2	1.8	1.5	2.8	3.0	.0		19.6	
	22+	.9	1.2	.2	.2	.4	.4	.7	.4	.0		4.4	
	TOT %	9.2	7.5	2.7	2.5	4.0	3.3	5.9	5.8	.0	2.3	43.0	
	TOT OBS												8606
	TOT PCT	18.6	14.3	6.2	7.0	14.2	9.8	13.2	12.3	.0	4.3	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	9.8	.4	3.5	10.2	15.8	23.7	5.4	1.9	2.0	1.0	73.6	26.4	2425
06&09	9.7	.5	3.1	8.1	17.3	24.7	5.7	1.4	1.8	.3	72.6	27.4	2298
12&15	18.7	.4	1.5	7.9	12.6	19.6	3.7	1.0	2.7	.7	68.7	31.3	2022
18&21	18.8	.4	1.5	10.4	14.2	18.6	6.7	1.0	.9	.1	72.5	27.5	1943
TOT													8688
PCT	13.6	.5	2.6	9.2	15.2	22.2	5.2	1.4	1.8	.6	72.2	27.8	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
00&03	10.1	4.4	5.6	12.7	20.6	46.6	2726
06&09	9.9	3.5	5.4	12.6	21.4	47.3	2550
12&15	12.6	5.0	6.3	16.9	22.4	36.9	2430
18&21	12.6	5.0	6.9	14.7	24.8	36.0	2215
TOT							9921
PCT	11.2	4.4	6.0	14.2	22.1	42.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	10.1	17.9	38.1	37.3	24.6	2371
06&09	9.9	17.4	36.9	38.1	24.9	2245
12&15	19.1	25.4	43.5	28.5	28.1	1959
18&21	19.0	25.3	45.6	28.6	25.8	1892
TOT						8467
PCT	13.8	20.9	40.6	33.9	25.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.1	.0	.1	.1	.0		.2
60/64	.0	.0	.0	.0	.1	*	.4	.2		.7
55/59	.0	.0	.1	.0	.1	.2	.4	3.0		3.8
50/54	.0	.0	.3	.2	*	.6	2.1	11.2		14.4
45/49	.0	.0	.0	.3	.1	.5	2.1	7.6		10.6
40/44	.0	.0	*	*	.4	.8	3.2	4.3		8.8
35/39	.0	.0	.0	*	.2	.6	5.2	5.2		11.1
30/34	.0	.0	.0	*	.5	.3	13.5	10.5		24.9
25/29	.0	.0	.0	.0	.1	8.7	.7	2.8		12.3
20/24	.0	.3	.3	.8	.0	.0	.3	3.2		4.7
15/19	.0	.8	1.0	.5	.3	.8	.6	3.2		7.2
10/14	.0	.0	.0	.0	.0	.0	.0	1.2		1.2
TOTAL									2688	100.0
PCT	.0	1.0	1.7	2.0	1.9	12.6	28.5	52.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.0	.0	.0	.0	.0	*	.0	.0
.2	.0	.1	*	.1	*	.1	.1	.0	*
.9	.5	*	.2	.5	.5	.3	.5	.0	.4
2.3	1.2	1.0	1.7	3.5	2.0	1.0	1.0	.0	.6
1.2	.8	.8	.7	2.9	1.7	1.2	.9	.0	.4
1.4	.8	.2	.7	1.8	1.1	1.7	.8	.0	.4
1.3	1.0	3.5	.8	1.3	.3	.5	2.0	.0	.4
5.4	.7	.5	3.6	2.5	1.0	1.0	9.5	.0	.6
1.1	.2	.5	.3	.6	8.7	.6	.3	.0	.1
.7	.9	.4	1.1	.2	.3	.6	.0	.0	.6
2.4	2.5	.3	.0	.2	.1	.0	1.8	.0	.0
.4	.1	.0	.0	.0	.0	.0	.6	.0	.0
17.5	8.9	7.3	9.1	13.5	15.7	7.0	17.5	.0	3.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	68	49	44	35	29	20	-15	38.3	2737
06&09	75	51	45	36	29	21	-11	38.8	2564
12&15	74	45	42	33	24	19	-10	36.6	2486
18&21	75	45	42	33	23	20	-8	36.3	2254
TOT	75	48	43	34	24	19	-15	37.5	10041

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.8	2.5	13.2	15.9	46.0	90	704
06&09	.0	6.1	1.4	12.2	29.6	50.6	91	707
12&15	.0	4.1	2.5	5.1	12.1	51.2	93	685
18&21	.0	2.9	1.1	3.4	20.0	55.8	93	627
TOT	0	32	45	154	568	1924	92	2723

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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	.0	5	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	10	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	20	*	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.2	*	.1	*	.0	66	.1	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.1	.0	.0	63	.1	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.2	.1	.3	.4	.1	.1	.0	.0	150	.2	1.3
6	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.1	.1	.2	.2	.1	*	.0	.0	88	.1	.8
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.2	.3	.5	.5	.1	*	.0	.0	255	.3	2.1
4	.0	.0	.0	.0	.0	.0	.0	.1	.8	.5	.2	.5	.6	.3	.3	.1	.0	.0	395	.6	2.9
3	.0	.0	.0	.0	.0	.0	.0	.1	.6	.3	.3	.7	.9	.4	.1	*	.0	.0	329	.4	3.0
2	.0	.0	.0	.0	.0	.0	.0	.7	1.8	.5	.6	1.5	1.1	.7	.2	*	.0	.0	741	1.0	6.2
1	.0	.0	.0	.0	.0	.0	.0	1.0	1.2	.4	.9	1.3	1.2	.7	.1	.0	.0	.0	655	1.1	5.8
0	.0	.0	.0	.0	.0	.0	.3	2.5	1.2	.7	1.4	2.4	2.4	.9	.2	.1	*	.0	1128	2.1	9.9
-1	.0	.0	.0	.0	.0	.0	.3	1.3	.6	.4	1.0	1.0	1.4	.3	.1	.0	.0	.0	553	1.1	5.3
-2	.0	.0	.0	.0	.0	.0	.8	2.0	.6	.5	.7	1.1	1.0	.3	.1	.0	.0	.0	571	1.0	6.0
-3	.0	.0	.0	.0	.0	.0	1.2	.8	.3	.5	.5	.5	.4	.2	.0	.0	.0	.0	277	.8	3.6
-4	.0	.0	.0	.0	.0	*	1.1	1.1	.4	.6	.4	.6	.4	.1	.0	.0	.0	.0	276	.5	4.2
-5	.0	.0	.0	.0	.0	.3	2.0	.9	.4	.5	.3	.4	.1	.1	.0	.0	.0	.0	225	.4	4.7
-6	.0	.0	.0	.0	.0	.1	1.2	.4	.3	.3	.1	*	*	*	.0	.0	.0	.0	90	.2	2.3
-7/-8	.0	.0	.0	.0	*	1.7	2.4	1.0	.2	.5	.2	.1	.1	.0	.0	.0	.0	.0	174	.2	6.0
-9/-10	.0	.0	.0	.0	.6	2.1	1.7	.3	.2	.1	*	*	.0	.0	*	.0	.0	.0	127	.1	5.0
-11/-13	.0	.0	.0	.2	1.8	2.1	.7	.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	129	*	5.4
-14/-16	.0	.0	.1	1.2	1.9	.5	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	.1	3.8
-17/-19	.0	.0	.7	1.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	.2	2.5
-20/-22	.0	.2	1.7	.6	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	.2	2.6
-23/-25	*	.7	.6	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	.1	1.3
-26/-30	.6	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	.2	1.5
<-30	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	.2	1.1
TOTAL																			6698		
PCT	1.8	1.9	3.2	3.3	5.0	7.2	11.9	12.4	9.0	7.3	7.3	11.0	10.9	5.5	1.7	.5	.1	*	100.0	11.3	88.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.4	.0	.0	.0	3.0
1-2	.1	1.8	1.8	.0	.0	.0	3.8
3-4	.1	.9	3.7	.4	.0	.0	5.1
5-6	.0	.3	1.2	.5	*	.0	2.2
7	.0	.1	.9	.4	.1	.0	1.4
8-9	.0	.0	.2	.5	.1	.0	.9
10-11	.0	.0	.1	.1	*	.0	.2
12	.0	*	.0	.0	.1	.0	.1
13-16	.1	.0	.0	.1	.1	.0	.3
17-19	.0	.0	.0	.2	*	.0	.3
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.2	8.4	2.3	.5	.0	17.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.7	.1	.0	.0	.0	2.0
1-2	.1	1.3	1.2	.0	.0	.0	2.6
3-4	*	.6	1.8	.3	.0	.0	2.8
5-6	.0	.2	1.6	.2	*	.0	2.0
7	.0	*	.8	.6	.1	.0	1.5
8-9	.0	.0	.3	.5	.1	.0	.9
10-11	.0	.0	.2	.6	.2	.0	1.0
12	.0	*	.0	.1	*	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	6.0	2.6	.8	.0	13.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.2	.0	.0	.0	1.4
1-2	*	.9	.6	.0	.0	.0	1.6
3-4	.0	.4	.9	.1	.0	.0	1.4
5-6	.0	*	.3	.1	.0	.0	.5
7	.0	*	.3	.2	.0	.0	.6
8-9	.0	.0	*	*	.1	.0	.1
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.3	2.7	.5	.1	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.1	*	.0	.0	.0	1.4
1-2	.1	.8	1.2	.0	.0	.0	2.1
3-4	.0	.4	1.1	*	.0	.0	1.5
5-6	.0	.1	.9	.2	*	.0	1.2
7	.0	.0	.4	.2	.1	.0	.7
8-9	.0	.0	.1	.1	*	.0	.3
10-11	.0	.0	*	.1	.0	.0	.1
12	.0	.0	.0	*	*	.0	*
13-16	.0	.0	.0	*	*	.0	*
17-19	.0	.0	.0	*	*	.0	.1
20-22	.0	.0	*	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	*	*
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	3.8	.7	.2	*	7.5

ANNUAL

PERIOD: (OVER-ALL) 1963-1974

TABLE 18 (CONT)

AREA 0015 OKHOTSK SEA NE
55.3N 153.8E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.6	.2	.0	.0	.0	2.1
1-2	.1	1.7	1.2	.0	.0	.0	2.9
3-4	.0	.8	2.0	.4	.0	.0	3.2
5-6	.0	.2	1.3	.9	*	.0	2.4
7	.0	*	.9	.4	.1	.0	1.3
8-9	.0	.0	.2	.4	.1	.0	.7
10-11	.0	.0	.2	.2	.1	.0	.5
12	.0	.0	.1	.2	*	.0	.3
13-16	.0	.0	*	.3	.2	*	.5
17-19	.0	.0	.0	.1	*	*	.2
20-22	.0	.0	*	*	.0	*	.1
23-25	.0	.0	.0	*	*	*	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.4	6.0	2.9	.6	.1	14.4

SW

1-3	4-10	11-21	22-33	34-47	48+	PCT
.2	1.7	.3	.0	.0	.0	2.2
.1	1.0	.9	.0	.0	.0	2.0
*	.7	1.4	.1	.0	.0	2.3
.0	.2	.9	.4	*	.0	1.4
.0	.1	.4	.3	.0	.0	.7
.0	.0	.2	.3	.0	.0	.5
.0	.0	.3	.2	.0	.0	.5
.0	*	.1	.1	.0	.0	.2
.0	.0	.1	.1	.0	.0	.2
.0	.0	.0	.0	.0	.1	.1
.0	.0	.0	*	.0	*	*
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0
.2	3.6	4.6	1.4	*	.1	10.0

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.2	.0	.0	.0	2.2
1-2	.2	1.3	1.4	.0	.0	.0	2.9
3-4	*	.3	1.6	.4	.0	.0	2.2
5-6	.0	.2	1.3	.4	*	.0	2.0
7	.0	.1	.7	.5	.0	.0	1.3
8-9	.0	*	.4	.4	.0	.0	.8
10-11	.0	.0	.4	.4	*	.0	.8
12	.0	.0	.1	.1	*	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.1	.0	.0	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	6.1	2.4	.2	.0	12.9

NW

1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
.1	2.0	.2	.0	.0	.0	2.3	
.1	1.7	1.8	.0	.0	.0	3.6	
*	.6	2.5	.1	.0	.0	3.2	
.0	.1	1.3	.2	*	.0	1.6	
.0	*	.5	.4	*	.0	.9	
.0	*	.3	*	.0	.0	.3	
.0	.0	.1	.2	*	.0	.3	
.0	.0	.0	*	.0	.0	*	
.0	.0	.0	.1	.0	.0	.1	
.0	.0	.0	*	.1	.0	.1	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	
.2	4.4	6.7	1.0	.1	.0	12.4	93.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.1	12.7	1.7	.0	.0	.0	22.5	
1-2	.7	10.7	10.2	.0	.0	.0	21.6	
3-4	.2	4.8	15.0	1.8	.0	.0	21.7	
5-6	.0	1.3	8.8	2.9	.2	.0	13.3	
7	.0	.3	5.0	2.9	.3	.0	8.5	
8-9	.0	*	1.7	2.3	.3	.0	4.4	
10-11	.0	.0	1.4	1.7	.4	.0	3.5	
12	.0	*	.3	.6	.3	.0	1.2	
13-16	.1	.0	.2	1.0	.4	*	1.6	
17-19	.0	.1	.0	.5	.3	.1	.9	
20-22	.0	.0	*	.1	.2	.1	.4	
23-25	.0	.0	.0	*	*	.1	.1	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3795
TOT PCT	9.1	29.9	44.3	13.8	2.6	.2	100.0	

TABLE 19

PERIOD: (OVER-ALL) 1957-1974

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.4	13.0	13.4	7.3	3.7	1.6	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2683	3
6-7	.1	1.7	4.3	5.4	4.1	2.5	2.2	.5	.7	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	1133	6
8-9	.0	.4	1.1	1.2	1.2	1.0	1.3	.7	.9	.5	.2	.0	.1	.0	.0	.0	.0	.0	.0	430	7
10-11	.0	.5	.2	.5	.2	.2	.3	.2	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	122	9
12-13	.0	.0	.6	.1	.1	.2	.2	*	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	90	7
>13	.0	.0	.0	.1	.2	*	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	22	10
INDET	7.8	2.5	2.7	2.2	3.0	.9	.8	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	776	3
TOTAL PCT	12.2	18.1	22.3	16.6	12.4	6.4	5.4	1.9	2.6	1.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	5216	4
																				100.0	

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1906-1974

AREA 0015 OKHOTSK SEA NE
55.0N 153.0E

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.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	.2	.0	.0	.0	.0	1	*
65/66	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	4	.1
63/64	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	2	*
61/62	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	*
59/60	.0	.0	.0	.0	.0	.0	.2	4.3	.3	.0	.0	.0	27	.4
57/58	.0	.0	.0	.0	.0	.0	.9	7.3	2.7	.0	.0	.0	59	.8
55/56	.0	.0	.0	.0	.0	.2	1.6	9.9	1.4	.5	.0	.0	80	1.1
53/54	.0	.0	.0	.0	.0	.1	2.6	22.1	14.3	.5	.0	.0	196	2.8
51/52	.0	.0	.0	.0	.0	.1	7.2	27.2	25.6	2.6	.0	.0	318	4.5
49/50	.0	.0	.0	.0	.0	1.6	18.2	19.5	21.2	9.2	.0	.0	416	5.9
47/48	.0	.0	.0	.1	.1	5.0	25.7	5.4	16.7	6.7	.0	.0	481	6.9
45/46	.4	.0	.0	.3	.1	25.4	27.3	4.3	13.7	20.5	1.1	.9	758	10.8
43/44	.4	.0	.0	.1	.3	24.7	11.2	.8	3.1	23.6	1.1	.9	500	7.1
41/42	2.9	.9	.0	.1	1.1	24.2	3.8	.6	.7	13.8	4.0	2.8	399	5.7
39/40	1.2	1.9	.8	.4	2.4	9.6	.2	.7	.3	16.4	16.4	4.7	233	3.3
37/38	2.5	2.8	1.6	1.4	8.4	6.4	.5	.4	.0	2.6	22.0	3.8	284	4.1
35/36	7.4	19.8	8.3	7.2	15.8	1.7	.1	.0	.0	1.5	28.2	17.0	480	6.9
33/34	28.4	14.6	9.5	19.3	33.0	.6	.3	.0	.0	.5	24.3	26.4	895	12.8
31/32	28.8	27.8	28.2	42.5	31.0	.3	.1	.0	.0	1.5	2.3	28.3	1157	16.5
29/30	23.0	31.1	48.4	22.6	7.0	.1	.0	.0	.0	.0	.6	14.2	612	8.7
27/28	4.9	.9	3.2	6.1	.7	.0	.0	.0	.0	.0	.0	.9	101	1.4
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	243	212	252	1111	1433	1164	1284	534	293	195	177	106	7004	100.0
MEAN	32.4	32.4	31.2	31.8	33.6	42.7	47.2	52.2	49.8	43.6	36.5	33.5	38.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007	990	1005		1005		1002		1005	307
FEB	1006	1008	1004	1011	1005	998	1005	1013	1005	313
MAR	1008	1009	1008		1007		1008		1008	334
APR	1011	1010	1010	1010	1011	1010	1010	1010	1010	1831
MAY	1011	1011	1011	1011	1011	1011	1010	1012	1011	2751
JUN	1012	1011	1012	1010	1012	1012	1012	1011	1012	1536
JUL	1010	1009	1010	1009	1010	1008	1010	1009	1010	1523
AUG	1010	1009	1010	1008	1011	1008	1011	1007	1010	992
SEP	1013	1013	1012	1013	1013	1010	1014	1010	1013	301
OCT	1010		1012	1014	1010	1009	1009	1015	1010	215
NOV	1008		1005	996	1007		1009		1007	196
DEC	1001		1001		1000		1003		1001	127
ANN	1009	1008	1008	1009	1009	1008	1009	1011	1010	10026
OBS	2043	696	1954	618	1842	632	1667	574		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	976	978	988	997	1005	1013	1022	1025	1027
FEB	966	976	983	997	1005	1014	1024	1029	1033
MAR	975	976	988	1002	1009	1015	1023	1029	1031
APR	964	983	991	1003	1011	1019	1026	1032	1040
MAY	974	983	995	1005	1012	1018	1026	1031	1035
JUN	990	992	1000	1007	1011	1017	1024	1032	1034
JUL	982	993	1000	1007	1010	1013	1019	1025	1031
AUG	984	987	996	1006	1011	1015	1020	1026	1030
SEP	978	987	997	1007	1012	1020	1030	1035	1038
OCT	977	988	992	1003	1011	1017	1025	1035	1036
NOV	967	975	991	1001	1007	1012	1026	1030	1032
DEC	963	970	982	993	1001	1009	1022	1032	1033

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	22.1	1.4	.0	23.5	3.2	.0	2.5	.0	.0		.0	70.8
NE	.0	.0	.0	.0	5.8	.0	.0	5.8	1.3	.0	3.3	.0	1.0		.0	88.6
E	2.6	.0	.0	.0	14.4	.0	.0	17.0	.0	.0	16.7	.0	.0		.0	66.3
SE	.4	.0	.0	.0	18.0	.0	.0	18.4	.0	.0	13.4	.0	.4		.0	67.8
S	.0	.0	.0	.0	27.7	.0	.0	27.7	.0	.0	6.2	.0	2.3		.0	63.8
SW	.0	.0	.0	.0	16.4	.0	.0	16.4	.0	.0	.0	.0	.0		.0	83.6
W	.0	.0	.0	.0	46.2	.0	.0	46.2	5.8	.0	1.4	.0	.0		.0	46.6
NW	.0	.0	.0	.0	40.4	.0	.0	40.4	1.7	.0	3.4	.0	.0		.0	54.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	5.7	.0	.0	5.7	2.9	.0	5.7	.0	.0		.0	85.7
TOT PCT	.3	.0	.0	.0	21.6	.3	.0	22.3	1.9	.0	5.8	.0	.3		.0	69.6
TOT OBS:	582															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	21.1	.0	.0	21.1	2.1	.0	9.3	.0	.0		.0	67.5
06&09	.0	.0	.0	.0	20.8	.9	.0	21.7	.9	.0	.9	.0	.0		.0	76.4
12&15	.6	.0	.0	.0	22.4	.0	.0	23.0	3.0	.0	6.1	.0	1.2		.0	66.7
18&21	.9	.0	.0	.0	21.1	.9	.0	22.9	1.8	.0	3.7	.0	.0		.0	71.6
TOT PCT	.3	.0	.0	.0	21.4	.3	.0	22.0	2.1	.0	6.0	.0	.3		.0	69.5
TOT OBS:	617															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	5.4	13.5	4.3	.5	.2		24.4	16.3	25.4	.0	24.2	87.5	23.0	58.3	21.3	87.5
NE	1.1	7.5	7.6	1.5	.0	.0		17.7	12.1	18.4	.0	14.3	.0	20.9	33.3	15.5	.0
E	.4	8.3	2.4	.1	.2	.0		11.3	9.6	9.3	.0	11.7	.0	14.5	.0	11.5	.0
SE	.4	6.9	3.0	.9	*	.0		11.1	10.7	11.5	.0	6.4	.0	12.8	.0	13.8	.0
S	.0	2.1	1.8	.8	.3	.0		5.0	15.8	5.9	.0	6.1	.0	2.0	.0	6.8	.0
SW	.0	.7	1.8	.6	.0	.0		3.1	16.4	2.7	.0	5.4	.0	2.3	.0	3.3	.0
W	.0	.9	5.2	2.6	.5	.0		9.1	19.8	8.6	.0	9.9	.0	9.4	.0	10.0	.0
NW	.0	2.6	7.6	2.5	.5	.0		13.2	17.2	11.4	100.0	16.8	12.5	11.5	8.3	14.0	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1							5.1	.0	6.9	.0	5.1	.0	3.5	.0	4.0	.0
TOT OBS	41	190	234	73	11	1	552		13.8	204	2	98	2	141	3	100	2
TOT PCT	7.4	34.4	42.8	13.2	2.0	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	9.9	9.3	1.8	.3		24.4	16.3	25.1	25.5	23.8	22.5
NE	5.2	7.5	4.6	.4	.0		17.7	12.1	18.2	14.0	21.2	15.2
E	3.6	6.5	1.0	.2	.0		11.3	9.6	9.2	11.5	14.2	11.3
SE	3.4	5.4	1.8	.5	.0		11.1	10.7	11.4	6.3	12.5	13.5
S	.7	2.9	.5	.8	.2		5.0	15.8	5.8	6.0	1.9	6.6
SW	.0	1.9	1.0	.2	.0		3.1	16.4	2.7	5.3	2.3	3.2
W	.5	2.2	4.7	1.8	.0		9.1	19.8	8.5	9.8	9.2	9.8
NW	1.4	5.5	4.8	1.3	.2		13.2	17.2	12.3	16.8	11.5	14.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	6.8	5.0	3.5	3.9
TOT OBS	126	231	153	38	4	552		13.8	206	100	144	102
TOT PCT	22.8	41.8	27.7	6.9	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.8	1.5	35.4	41.3	12.1	2.9	.0	13.6	100.0	206
06&09	5.0	6.0	31.0	43.0	14.0	.0	1.0	13.4	100.0	100
12&15	3.5	1.4	37.5	43.1	11.8	2.8	.0	13.8	100.0	144
18&21	3.9	2.0	31.4	45.1	16.7	1.0	.0	14.4	100.0	102
TOT	28	13	190	236	73	11	1	13.8		552
PCT	5.1	2.4	34.4	42.8	13.2	2.0	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	2.5	5.1	12.4		5.8
NE	5.0	2.7	4.6	4.4		4.6
E	2.1	1.5	4.1	3.8		5.3
SE	2.4	.9	3.4	3.7		5.2
S	.4	.2	1.7	2.8		6.6
SW	.2	.0	1.5	.6		6.5
W	.2	.2	3.6	5.3		7.0
NW	1.4	.3	4.8	8.2		6.7
VAR	.0	.0	.0	.0		.0
CALM	1.3	1.9	1.7	1.1		4.4
TOT OBS	79	47	142	196	464	5.7
TOT PCT	17.0	10.1	30.6	42.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.5	.0	.2	.4	5.3	5.3	.2	.0	1.0	1.1	9.8	
NE	.2	.0	.0	.9	1.0	3.8	1.3	.0	.3	.1	9.2	
E	.4	.0	.0	.2	1.8	2.4	.2	.4	.6	.2	5.2	
SE	.8	.0	.0	.3	1.0	1.8	.4	.0	.6	.2	5.3	
S	.2	.0	.0	.4	1.0	1.3	.0	.0	.9	.2	1.1	
SW	.0	.0	.0	.2	.6	.6	.0	.0	.0	.0	.8	
W	.0	.0	.3	.9	4.3	1.9	.4	.0	.6	.0	.8	
NW	.8	.0	.5	1.5	3.8	3.7	.2	.0	.5	.3	3.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.2	.4	.6	.4	.0	.2	.0	4.1	
TOT OBS	13	0	5	23	90	100	15	2	22	10	184	464
TOT PCT	2.8	.0	1.1	5.0	19.4	21.6	3.2	.4	4.7	2.2	39.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >9500	1.0	3.9	4.9	6.3	6.3	6.5	6.5	6.5
* OR >5000	1.6	4.5	5.5	6.9	6.9	7.1	7.1	7.1
* OR >3500	4.1	7.5	8.6	10.0	10.2	10.4	10.4	10.4
* OR >2000	17.1	23.8	26.5	29.9	31.0	32.0	32.2	32.2
* OR >1000	21.0	31.0	35.8	41.3	46.2	48.3	51.1	51.1
* OR >600	21.4	32.0	37.5	44.8	50.7	53.0	56.0	56.0
* OR >900	21.4	32.0	37.5	45.2	51.5	53.8	57.2	57.2
* OR >150	21.4	32.0	37.5	45.2	51.5	53.8	57.2	57.2
* OR > 0	21.6	32.2	38.1	46.4	53.8	56.2	59.9	60.1
TOTAL	106	158	187	228	264	276	294	295

TOTAL NUMBER OF OBS: 491 PCT FREQ NH <5/8: 39.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.2	2.9	9.0	7.7	5.2	7.0	6.3	7.7	39.6	2.3	556

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	1.5	.7	.2	.7	.1	.0	1.2	1.6	.0	.2	6.2	
<1/2	NO PCP	.1	.0	.5	.5	.0	.0	.0	.2	.0	.2	1.5	
	TOT %	1.6	.7	.6	1.2	.1	.0	1.2	1.8	.0	.3	7.7	
	PCP	1.3	.0	.1	.7	.2	.2	1.8	1.2	.0	.2	5.7	
1/2<1	NO PCP	.0	.3	.7	.4	.0	.0	.0	.2	.0	.2	1.8	
	TOT %	1.3	.3	.9	1.1	.2	.2	1.8	1.4	.0	.3	7.5	
	PCP	2.0	.4	.7	.3	.9	.2	1.0	1.7	.0	.0	7.3	
1<2	NO PCP	.1	.2	.0	.2	.1	.0	.0	.3	.0	.0	1.0	
	TOT %	2.1	.6	.7	.5	1.0	.2	1.0	2.1	.0	.0	8.3	
	PCP	1.1	.5	.3	.3	.5	.3	.2	.7	.0	.0	4.0	
2<5	NO PCP	1.1	1.7	.3	.7	.4	.2	.4	.3	.0	.5	5.7	
	TOT %	2.2	2.2	.7	1.1	.9	.5	.6	1.0	.0	.5	9.7	
	PCP	.1	*	.7	.1	.0	*	.3	.7	.0	.0	2.0	
5<10	NO PCP	7.3	2.5	2.2	2.8	1.1	1.1	2.2	2.8	.0	.8	22.8	
	TOT %	7.4	2.5	3.0	2.9	1.1	1.1	2.5	3.5	.0	.8	24.8	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	9.3	10.7	5.5	4.2	2.2	.9	2.1	3.5	.0	3.7	42.1	
	TOT %	9.3	10.7	5.5	4.2	2.2	.9	2.1	3.5	.0	3.7	42.1	
	TOT OBS												601
	TOT PCT	23.8	17.1	11.4	11.1	5.6	2.9	9.2	13.4	.0	5.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
<1/2	4-10	.5	.8	.7	.6	.0	.0	.0	.2	.0		2.8	
	11-21	1.2	.0	.0	.6	.0	.0	.5	1.2	.0		3.5	
	22+	.0	.0	.0	*	.1	.0	.6	.5	.0		1.3	
	TOT %	1.7	.8	.7	1.2	.1	.0	1.1	1.8	.0	.4	7.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.4	.8	.5	.0	.0	.5	.3	.0		2.4	
	11-21	.9	.0	.1	.4	.0	.0	.9	.8	.0		3.1	
	22+	.2	.0	.0	.2	.0	.2	.3	.2	.0		1.1	
	TOT %	1.1	.4	1.0	1.1	.0	.2	1.7	1.3	.0	.0	6.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.3	.3	.3	.2	.4	.0	.0	.2	.0		1.7	
	11-21	1.2	.2	.1	.2	.2	*	.6	1.2	.0		3.9	
	22+	.3	*	.1	*	.1	.2	.3	.5	.0		1.7	
	TOT %	1.8	.5	.6	.5	.7	.2	1.0	1.9	.0	.0	7.2	
	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.6	.7	
2<5	4-10	.4	1.3	.4	.7	.4	.4	.0	.2	.0		3.7	
	11-21	1.0	.8	.0	.2	.2	.0	.3	.7	.0		3.1	
	22+	.5	.0	.0	*	.3	.2	.4	.2	.0		1.7	
	TOT %	1.9	2.3	.4	1.0	.9	.6	.6	1.1	.0	.6	9.2	
	0-3	.4	.0	.2	.0	.0	.0	.0	.0	.0	.7	1.3	
5<10	4-10	1.6	1.1	2.1	2.1	.4	.2	.1	.5	.0		8.1	
	11-21	3.5	1.3	.6	1.1	.2	1.0	1.2	1.5	.0		10.3	
	22+	2.3	*	.0	.2	.3	*	1.1	1.3	.0		5.3	
	TOT %	7.8	2.4	2.9	3.4	.9	1.2	2.4	3.3	.0	.7	25.0	
	0-3	.2	.9	.2	.4	.0	.0	.0	.0	.0	3.3	5.0	
10+	4-10	2.8	3.8	3.9	2.9	1.0	.2	.3	1.3	.0		16.2	
	11-21	5.3	5.4	1.5	.6	1.3	.8	1.6	2.2	.0		18.8	
	22+	1.5	1.5	.2	.4	.2	.0	.4	.2	.0		4.2	
	TOT %	9.7	11.6	5.8	4.2	2.5	1.0	2.3	3.7	.0	3.3	44.1	
	TOT OBS												544
	TOT PCT	24.0	17.9	11.3	11.3	5.1	3.1	9.1	13.1	.0	5.0	100.0	

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PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974

AREA 0016 WEST COAST KAMCHATKA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.4	.0	1.4	4.7	15.6	25.1	5.2	.5	3.3	2.8	61.1	38.9	211
06&09	.0	.0	2.2	4.3	28.0	23.7	.0	1.1	2.2	1.1	62.4	37.6	93
12&15	6.5	.0	.0	4.9	15.4	17.1	4.1	.8	4.9	1.6	55.3	44.7	123
18&21	1.3	.0	1.3	5.2	22.1	14.3	.0	.0	9.1	2.6	55.8	44.2	77
TOT	14	0	6	24	95	107	16	3	22	11	298	206	504
PCT	2.8	.0	1.2	4.8	18.8	21.2	3.2	.6	4.4	2.2	59.1	40.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	8.7	8.3	6.6	7.4	20.2	48.8	242
06&09	6.2	5.3	8.8	7.1	25.7	46.9	113
12&15	11.6	5.2	7.5	14.5	27.2	34.1	173
18&21	3.5	8.8	9.7	10.6	31.0	36.3	113
TOT	52	45	50	63	160	271	641
PCT	8.1	7.0	7.8	9.8	25.0	42.3	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 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.4	15.9	30.4	35.7	33.8	207
06&09	.0	13.5	33.7	32.6	33.7	89
12&15	6.7	22.7	39.5	24.4	36.1	119
18&21	1.3	14.5	30.3	26.3	43.4	76
TOT	14	83	163	152	176	491
PCT	2.9	16.9	33.2	31.0	35.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	.0	.0	.0	.0	.0	14.3	9	14.3
20/24	.0	.0	.0	.0	.0	.0	3.2	38.1	26	41.3
15/19	.0	.0	.0	.0	.0	.0	9.5	20.6	19	30.2
10/14	.0	.0	.0	.0	.0	.0	7.9	3.2	7	11.1
5/9	.0	.0	.0	.0	.0	.0	.0	3.2	2	3.2
TOTAL	0	0	0	0	0	0	13	50	63	100.0
PCT	.0	.0	.0	.0	.0	.0	20.6	79.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
3.2	1.6	.0	1.2	3.6	.0	2.4	2.4	.0	.0
6.3	3.2	4.0	4.8	4.0	.0	7.9	9.5	.0	1.6
12.7	1.6	.0	.0	1.6	.0	2.4	10.3	.0	1.6
4.4	.0	.0	.0	.0	.0	3.6	3.2	.0	.0
1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0
28.2	6.3	5.6	6.0	9.1	.0	16.3	25.4	.0	3.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	41	37	34	18	-2	-8	-9	17.5	216
06&09	46	41	36	19	3	-2	-2	20.1	100
12&15	50	39	34	19	1	-1	-2	18.7	145
18&21	41	37	36	19	-2	-4	-4	19.2	98
TOT	50	39	35	19	0	-4	-9	18.6	559

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	18.8	81.3	95	16
06&09	.0	.0	.0	.0	23.5	76.5	94	17
12&15	.0	.0	.0	.0	31.3	68.8	94	16
18&21	.0	.0	.0	.0	7.1	92.9	96	14
TOT	0	0	0	0	13	50	95	63

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AREA 0016 WEST COAST KAMCHATKA
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.3	.9	.0	4	.0	1.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	3	.0	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.6	.0	8	.0	2.4
4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	4	.0	1.2
3	.0	.0	.0	.0	.0	.0	.0	.9	.6	.0	.0	5	.0	1.5
2	.0	.0	.0	.0	.0	.0	.0	2.1	.9	.0	.0	10	.0	3.0
1	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	6	.0	1.8
0	.0	.0	.0	.0	.0	.0	.0	3.0	.3	.0	.0	11	.0	3.3
-1	.0	.0	.0	.0	.0	.0	1.2	1.8	.0	.0	.0	10	.0	3.0
-2	.0	.0	.0	.0	.0	.0	.9	.6	.0	.0	.0	5	.0	1.5
-3	.0	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	9	.0	2.7
-4	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	5	.0	1.5
-5	.0	.0	.0	.0	.0	.6	1.8	.6	.0	.0	.0	10	.0	3.0
-6	.0	.0	.0	.0	.0	2.1	1.5	.6	.0	.0	.0	14	.0	4.2
-7/-8	.0	.0	.0	.0	.3	6.3	1.8	.0	.0	.0	.0	28	.3	8.1
-9/-10	.0	.0	.0	.0	4.8	4.5	.9	.0	.0	.0	.0	34	.3	9.9
-11/-13	.0	.0	.0	1.8	9.9	3.0	.6	.0	.0	.0	.0	51	.0	15.4
-14/-16	.0	.0	.3	5.7	2.4	.6	.0	.0	.0	.0	.0	30	.0	9.0
-17/-19	.0	.0	2.4	4.5	.9	.0	.0	.0	.0	.0	.0	26	.6	7.2
-20/-22	.0	.3	4.2	.3	.6	.0	.0	.0	.0	.0	.0	18	.0	5.4
-23/-25	.3	2.4	1.5	.0	.0	.0	.0	.0	.0	.0	.0	14	.3	3.9
-26/-30	3.3	2.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	17	.6	5.1
<-30	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.3	1.5
TOTAL	18		28		63		43		20		2		8	324
		16		42		57		38		5		332		
PCT	5.4	4.8	8.4	12.7	19.0	17.2	13.0	11.4	6.0	1.5	.6	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.1	1.3	.0	.0	.0	5.2
1-2	.0	1.6	2.1	.0	.0	.0	3.7
3-4	.0	.3	1.7	.4	.0	.0	2.5
5-6	.0	.3	1.3	1.3	.0	.0	2.9
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.4	.0	.4	.9
10-11	.0	.0	.0	.3	.7	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	5.3	6.4	2.9	1.2	.4	17.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	5.7	.9	.0	.0	.0	7.4
1-2	.0	.6	1.3	.0	.0	.0	1.9
3-4	.0	1.0	1.7	.9	.0	.0	3.5
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	1.3	.9	.0	.0	2.1
8-9	.0	.0	1.4	.0	.0	.0	1.4
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.3	7.9	2.1	.0	.0	18.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	4.2	.0	.0	.0	.0	4.6
1-2	.0	2.0	.9	.0	.0	.0	2.9
3-4	.0	.7	2.7	.0	.0	.0	3.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.4	.0	.4
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.9	4.2	.0	.4	.0	12.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.8	.9	.0	.0	.0	4.7
1-2	.0	.9	.9	.0	.0	.0	1.7
3-4	.0	.0	.3	.5	.0	.0	.9
5-6	.0	.0	.4	.4	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	2.9	1.0	.1	.0	8.2

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.9	1.3	.0	.0	.0	2.1
3-4	.0	.0	.9	.3	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	2.1	.7	.3	.0	5.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.4	.0	.0	.0	.4
3-4	.0	.9	.9	.4	.0	.0	2.1
5-6	.0	.0	.2	.4	.0	.0	.6
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	2.4	1.0	.0	.0	4.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.3	.0	.0	.0	.3
1-2	.0	.3	1.5	.0	.0	.0	1.8
3-4	.0	.7	2.5	.4	.0	.0	3.6
5-6	.0	.0	3.8	.9	.0	.0	4.7
7	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.4	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	8.4	4.5	.3	.0	14.3

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	3.1	.5	.0	.0	.0	3.6	
1-2	.0	.1	.6	.0	.0	.0	.7	
3-4	.0	.2	1.4	.0	.0	.0	1.6	
5-6	.0	.5	1.1	.9	.0	.0	2.5	
7	.0	.0	.4	.9	.0	.0	1.3	
8-9	.0	.0	.1	.4	.4	.0	1.0	
10-11	.0	.0	.4	1.1	.5	.0	2.0	
12	.0	.0	.4	.4	.0	.0	.9	
13-16	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.4	.0	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.0	5.4	3.6	1.1	.0	14.1	93.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.5	21.4	3.8	.0	.0	.0	33.8	
1-2	.0	6.4	9.0	.0	.0	.0	15.4	
3-4	.0	3.8	12.0	3.0	.0	.0	18.8	
5-6	.0	.9	8.1	3.8	.0	.0	12.8	
7	.0	.0	2.1	3.0	.4	.0	5.6	
8-9	.0	.0	2.6	1.7	.4	.4	5.1	
10-11	.0	.0	.9	3.0	1.3	.0	5.1	
12	.0	.0	.4	.4	.0	.0	.9	
13-16	.0	.0	.0	.4	1.3	.0	1.7	
17-19	.0	.0	.4	.0	.0	.0	.4	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								234
TOT PCT	8.5	32.5	39.3	15.8	3.4	.4	100.0	

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.7	6.1	4.5	5.3	4.5	2.1	.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	4
6-7	.0	1.3	2.7	2.9	3.2	2.4	1.6	1.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	60	7
8-9	.0	1.3	3.5	1.3	1.3	.3	2.1	1.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
10-11	.0	1.9	1.6	.3	.5	.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	5
12-13	.0	.0	.3	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	10
>13	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDET	15.2	1.6	6.1	9.6	2.1	4.3	1.9	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	3
TOTAL	71	46	70	60	44	35	26	11	8	2	2	0	0	0	0	0	0	0	0	375	5
PCT	18.9	12.3	18.7	16.0	11.7	9.3	6.9	2.9	2.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	17.3	.0	.0	17.3	.9	.0	6.6	.3	.6		.0	74.3
NE	.0	.0	.0	.1	10.0	.6	.0	10.7	1.4	.0	4.6	.0	.0		.0	83.3
E	.0	.0	.0	.6	19.6	.0	.0	20.3	1.3	.0	8.8	.8	.0		.0	68.9
SE	.0	.0	.0	.0	27.3	.0	.0	27.3	.3	.0	6.2	.0	1.0		.0	65.2
S	.0	.0	.0	.0	31.9	.0	.0	31.9	.0	.0	5.0	.0	1.7		.0	61.3
SW	.0	.0	.0	.0	38.8	2.2	.0	41.0	.0	.0	2.8	.0	.0		.0	56.2
W	.0	.0	.0	.0	46.7	1.4	.0	48.1	1.4	.0	5.2	.0	.0		.0	45.3
NW	2.0	.0	.0	.0	43.3	.3	.0	45.6	3.5	.0	8.8	.0	.3		.0	41.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	12.5	.0	.0	12.5	2.1	.0	11.5	.0	.0		.0	74.0
TOT PCT	.2	.0	.0	.1	22.6	.3	.0	23.2	1.3	.0	6.8	.2	.4		.0	68.2
TOT OBS:	1030															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.0	.0	.0	.4	19.8	.6	.0	20.7	.8	.0	8.2	.4	.6		.0	69.3
06&09	.5	.0	.0	.0	25.7	.0	.0	26.2	2.5	.0	4.5	.0	1.0		.0	65.8
12&15	.0	.0	.0	.0	23.1	.0	.0	23.1	.9	.0	3.8	.0	.0		.0	72.2
18&21	.5	.0	.0	.0	25.1	.0	.0	25.6	1.4	.0	6.0	.0	.0		.0	67.0
TOT PCT	.2	.0	.0	.2	22.5	.3	.0	23.1	1.2	.0	6.3	.2	.4		.0	68.8
TOT OBS:	1140															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	10.8	10.7	4.4	1.0	.0		28.0	14.2	25.7	30.0	33.5	25.0	25.5	21.2	29.3	46.7
NE	1.1	9.8	5.2	.8	.0	.0		16.9	9.7	16.2	21.7	13.4	16.7	23.9	25.0	14.4	11.7
E	.8	8.2	2.3	.4	.1	.0		11.8	8.6	11.9	6.7	10.9	3.6	11.2	15.4	13.6	18.3
SE	.3	5.0	2.9	1.3	*	.0		9.4	12.1	10.0	1.7	7.8	20.2	9.8	17.3	8.5	6.7
S	.4	3.0	.9	.8	.2	.0		5.4	11.9	6.0	5.0	3.9	.0	3.6	13.5	7.8	.0
SW	*	2.2	1.1	.4	.0	.0		3.7	11.7	2.9	6.7	5.0	.0	5.2	7.7	2.8	.0
W	.3	1.5	2.3	1.0	.3	.0		5.3	16.4	5.6	.0	6.0	3.6	5.1	.0	5.7	.0
NW	.2	3.0	5.1	1.7	.4	.0		10.4	15.5	9.0	28.3	12.6	31.0	9.8	.0	9.8	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.0							9.0	.0	12.7	.0	6.9	.0	5.9	.0	8.1	13.3
TOT OBS	137	450	315	110	22	0	1034		11.3	411	15	174	21	187	13	198	15
TOT PCT	13.2	43.5	30.9	10.6	2.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)				
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06	09	12 15	18 21
N	6.4	12.7	6.4	2.3	.2		28.0	14.2	25.9	32.6	25.3	30.5	
NE	6.2	8.6	1.8	.3	.0		16.9	9.7	16.4	13.7	24.0	14.2	
E	5.6	5.3	.8	.1	.1		11.8	8.6	11.7	10.1	11.5	14.0	
SE	2.4	5.1	1.4	.6	.0		9.4	12.1	9.7	9.1	10.3	8.3	
S	2.0	2.1	.8	.5	.0		5.4	11.9	5.9	3.5	4.3	7.3	
SW	1.2	1.7	.7	.1	.0		3.7	11.7	3.1	4.5	5.4	2.6	
W	.9	2.0	1.8	.6	.1		5.3	10.4	5.4	5.8	4.8	5.3	
NW	1.6	4.2	3.8	.8	.1		10.4	15.5	9.7	14.6	9.1	9.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	9.0						9.0	.0	12.2	6.2	5.5	8.5	
TOT OBS	364	430	181	54	5	1034		11.3	426	195	200	213	
TOT PCT	35.2	41.6	17.5	5.2	.5		100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1966-1974
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AREA 0016 WEST COAST KAMCHATKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	12.2	5.6	45.5	25.4	8.9	2.3	.0	10.2	100.0	426
06&09	6.2	2.1	41.5	38.5	9.7	2.1	.0	12.0	100.0	195
12&15	5.5	5.0	47.5	30.0	11.0	1.0	.0	11.2	100.0	200
18&21	8.5	2.8	37.6	33.8	14.6	2.8	.0	12.0	100.0	213
TOT	93	44	450	315	110	22	0	11.3		1034
PCT	9.0	4.3	43.5	30.5	10.6	2.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.8	3.2	6.8	8.0		4.5
NE	6.1	1.3	4.0	5.3		4.5
E	2.3	1.0	2.4	6.0		5.8
SE	1.6	.9	2.4	5.2		6.0
S	.7	.3	1.2	3.6		6.5
SW	.0	.3	1.6	2.1		6.8
W	.1	.3	1.6	3.5		7.1
NW	1.4	.5	2.3	6.0		6.3
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.0	2.2	3.4		4.9
TOT OBS	203	77	212	372	864	5.4
TOT PCT	23.5	8.9	24.5	43.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.3	.5	.4	.6	3.2	3.7	.9	.0	.7	.3	15.0	
NE	.4	.2	.1	.3	1.4	3.0	1.0	.0	.5	.4	9.4	
E	.9	.0	.1	.3	2.2	2.6	.8	.0	.4	.0	4.3	
SE	.6	.1	.6	.2	1.5	2.0	.8	.0	.5	.5	3.4	
S	.9	.0	.1	.4	1.1	1.5	.1	.0	.2	.0	1.6	
SW	.3	*	.3	.6	.3	.9	.4	.3	.3	.0	.7	
W	.4	.2	.1	.1	1.8	1.0	1.0	.2	.1	.0	.7	
NW	2.0	.2	.5	.6	1.9	1.7	.4	.0	.6	*	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.2	.9	1.3	.5	.0	.6	.0	4.7	
TOT OBS	67	11	20	29	124	152	51	4	33	10	363	864
TOT PCT	7.8	1.3	2.3	3.4	14.4	17.6	5.9	.5	3.8	1.2	42.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.3	3.6	4.2	4.8	4.8	4.9	4.9	4.9
* OR >5000	2.4	3.7	4.7	5.2	5.3	5.5	5.5	5.5
* OR >3500	4.8	7.7	9.6	10.3	10.9	11.1	11.1	11.1
* OR >2000	14.0	21.1	25.5	27.5	29.0	29.3	29.3	29.3
* OR >1000	17.4	27.5	34.2	38.4	41.9	42.6	43.7	43.7
* OR >600	17.8	28.0	35.4	40.4	44.9	45.8	47.1	47.1
* OR >300	17.9	28.3	36.5	41.9	47.1	48.2	49.6	49.6
* OR >150	17.9	26.7	37.2	42.7	47.9	49.0	50.7	50.7
* OR > 0	18.0	29.0	39.1	45.4	51.5	54.5	58.2	58.3
TOTAL	170	273	368	428	485	513	548	549

TOTAL NUMBER OF OBS: 942 PCT FREQ NH <5/8: 41.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
16.7	3.2	7.6	5.4	4.4	5.2	6.7	5.8	38.3	6.6	1085

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.9	.3	.4	.1	.3	.6	.1	1.9	.0	.0	4.6	
	NO PCP	.7	.3	.4	.3	.3	.1	.2	.6	.0	.6	3.3	
	TOT %	1.6	.6	.7	.4	.5	.7	.3	2.5	.0	.6	7.9	
1/2<1	PCP	.8	.1	1.1	1.3	.2	.9	.6	.6	.0	.3	5.4	
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.2	.0	.1	.6	
	TOT %	.8	.2	1.2	1.3	.2	.4	.6	.8	.0	.4	6.0	
1<2	PCP	1.4	.5	.5	.9	.3	.4	.7	1.5	.0	.3	6.5	
	NO PCP	.3	.0	.0	.1	.1	.0	.0	*	.0	.0	.5	
	TOT %	1.7	.5	.5	1.0	.4	.4	.7	1.5	.0	.3	7.0	
2<5	PCP	1.6	.7	.4	.5	1.0	.5	1.2	.9	.0	.7	7.5	
	NO PCP	2.0	.9	.9	.6	.1	.3	.7	.7	.0	.7	7.0	
	TOT %	3.6	1.6	1.3	1.2	1.1	.7	2.0	1.6	.0	1.3	14.4	
5<10	PCP	.1	.2	.3	.1	.1	.0	.1	*	.0	.1	1.0	
	NO PCP	4.9	3.8	2.6	1.4	1.2	.5	.7	1.7	.0	1.0	17.8	
	TOT %	5.0	3.9	2.9	1.5	1.3	.5	.8	1.7	.0	1.1	18.7	
10+	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	
	NO PCP	14.8	9.8	4.9	4.3	2.1	1.5	.8	1.9	.0	5.6	45.7	
	TOT %	14.8	9.8	4.9	4.3	2.2	1.5	.8	1.9	.0	5.7	45.9	
	TOT OBS												1046
	TOT PCT	27.4	16.7	11.6	9.8	5.8	4.2	5.2	10.1	.0	9.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.5	.6	
	4-10	.4	.4	.5	.2	.3	.1	.1	.4	.0		2.5	
	11-21	.4	*	.1	.2	.1	.4	.0	1.2	.0		2.4	
	22+	.8	.1	.1	.0	.1	.0	.2	1.0	.0		2.4	
	TOT %	1.6	.6	.7	.4	.5	.5	.3	2.6	.0	.5	7.8	
1/2<1	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.3	.4	
	4-10	.4	.1	.9	.6	.1	.1	.3	.1	.0		2.7	
	11-21	.3	.0	.3	.6	.0	.1	.2	.5	.0		2.0	
	22+	.2	.1	.0	.1	.0	.1	.2	*	.0		.7	
	TOT %	.8	.2	1.3	1.3	.1	.3	.6	.7	.0	.3	5.7	
1<2	0-3	.1	.1	.1	*	.1	.0	.1	.1	.0	.3	.9	
	4-10	.5	.2	.4	.3	.2	.3	.2	.3	.0		2.5	
	11-21	.6	.2	.2	.1	.0	.1	.3	.9	.0		2.4	
	22+	.3	.0	.0	.6	.1	.1	.1	.1	.0		1.6	
	TOT %	1.6	.5	.7	1.1	.4	.5	.7	1.5	.0	.3	7.3	
2<5	0-3	.1	.1	.1	.1	.0	.0	.1	.0	.0	1.3	1.8	
	4-10	1.0	.8	.9	.6	.5	.4	.3	.4	.0		5.0	
	11-21	2.1	.6	.2	.3	.3	.2	.7	1.0	.0		5.5	
	22+	.5	.1	.0	.2	.2	.0	.6	.2	.0		1.8	
	TOT %	3.7	1.6	1.2	1.2	1.0	.6	1.7	1.7	.0	1.3	14.0	
5<10	0-3	.2	.3	.2	*	.2	.0	.0	.0	.0	1.1	2.0	
	4-10	1.8	2.2	1.7	.8	.5	.4	.4	.5	.0		8.4	
	11-21	2.2	1.3	.7	.7	.2	*	.2	1.0	.0		6.2	
	22+	.9	.2	.3	.1	.4	.1	.1	.2	.0		2.4	
	TOT %	5.1	4.1	2.9	1.6	1.4	.5	.6	1.7	.0	1.1	19.0	
10+	0-3	.7	.5	.3	.1	.2	*	.1	.1	.0	5.6	7.7	
	4-10	6.9	6.0	3.7	2.6	1.5	.9	.2	1.2	.0		23.0	
	11-21	5.2	3.2	.9	1.1	.3	.2	.5	.4	.0		11.9	
	22+	2.4	.2	.0	.2	.2	.1	.1	.2	.0		3.5	
	TOT %	15.2	10.0	4.9	4.0	2.2	1.3	.9	2.0	.0	5.6	46.1	
	TOT OBS												1009
	TOT PCT	28.2	17.0	11.7	9.5	5.6	3.8	4.9	10.2	.0	9.1	100.0	

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PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974

AREA 0016 WEST COAST KAMCHATKA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	4.7	1.3	2.4	3.7	15.1	20.9	5.2	.9	4.1	.6	58.7	41.3	465
06&09	5.9	1.1	2.7	4.8	14.9	18.1	5.9	.5	3.2	.5	57.4	42.6	188
12&15	8.6	.6	1.9	2.5	16.0	13.0	8.0	.0	3.7	2.5	56.8	43.2	162
18&21	16.8	1.3	2.7	2.0	9.4	14.1	4.7	.7	4.0	2.0	57.7	42.3	149
TOT	72	11	23	33	138	173	55	6	37	11	559	405	964
PCT	7.5	1.1	2.4	3.4	14.3	17.9	5.7	.6	3.8	1.1	58.0	42.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	7.0	5.3	6.2	12.7	18.7	50.1	513
06&09	8.1	6.2	8.1	11.5	19.6	46.4	209
12&15	8.6	6.8	8.2	13.6	19.1	43.6	220
18&21	9.9	5.9	7.2	19.8	18.5	38.7	222
TOT	94	68	83	163	220	536	1164
PCT	8.1	5.8	7.1	14.0	18.9	46.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH AND <5/8 5+	TOTAL OBS
00&03	5.1	15.2	30.4	31.9	37.7	454
06&09	5.9	16.1	32.3	28.5	39.2	186
12&15	8.9	20.4	36.9	21.7	41.4	157
18&21	16.6	29.0	42.1	18.6	39.3	145
TOT	72	173	317	259	366	942
PCT	7.6	18.4	33.7	27.5	38.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	1.0	.0	.0	.0	1	1.0
40/44	.0	.0	.0	.0	.0	.0	.0	1.0	1	1.0
30/34	.0	.0	.0	3.0	1.0	.0	2.0	.0	6	6.1
25/29	.0	2.0	5.1	6.1	4.0	5.1	3.0	5.1	30	30.3
20/24	.0	3.0	3.0	4.0	9.0	2.0	8.1	8.1	31	31.3
15/19	.0	1.0	5.1	2.0	3.0	4.0	3.0	4.0	22	22.2
10/14	.0	.0	.0	.0	.0	.0	1.0	2.0	3	3.0
5/9	.0	.0	.0	.0	.0	.0	1.0	4.0	5	5.1
TOTAL	0	6	13	15	12	11	18	24	99	100.0
PCT	.0	6.1	13.1	15.2	12.1	11.1	18.2	24.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
.0	3.0	.0	.0	.0	2.0	.0	1.0	.0	.0
4.5	5.6	3.8	11.4	.8	1.0	.0	1.3	.0	2.0
10.9	4.8	2.0	2.8	3.3	3.0	1.8	2.8	.0	.0
10.4	2.5	1.0	2.5	1.5	1.0	1.5	1.8	.0	.0
1.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0
.0	1.3	.8	.0	.0	.0	3.0	.0	.0	.0
26.8	17.2	7.6	18.7	5.6	8.1	7.3	6.8	.0	2.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	52	36	32	18	-2	-9	-13	17.3	480
06&09	51	46	32	20	4	-3	-4	19.5	193
12&15	51	40	30	18	3	-1	-5	18.0	200
18&21	52	46	32	18	1	-4	-4	18.0	208
TOT	52	40	32	18	1	-7	-13	17.9	1081

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	50.0	18.8	12.5	6.3	12.5	63	16
06&09	.0	26.1	17.4	8.7	17.4	30.4	75	23
12&15	.0	44.8	3.4	10.3	13.8	27.6	70	29
18&21	.0	22.6	12.9	12.9	29.0	22.6	74	31
TOT	0	34	12	11	18	24	71	99

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1958-1974

AREA 0016 WEST COAST KAMCHATKA
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.0	3	.0	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	3	.0	.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	3	.0	.5
4	.0	.0	.0	.0	.0	.0	.0	.2	1.7	.0	.0	.0	.0	12	.0	1.8
3	.0	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	15	.0	2.3
2	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	.0	10	.0	1.5
1	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	14	.0	2.1
0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	5	.0	.8
-1	.0	.0	.0	.0	.0	.0	2.4	.6	.0	.0	.0	.0	.0	20	.3	2.7
-2	.0	.0	.0	.0	.0	.0	3.8	.5	.0	.0	.0	.0	.0	28	.0	4.3
-3	.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	31	.2	4.6
-4	.0	.0	.0	.0	.0	.0	4.7	.8	.0	.0	.0	.0	.0	36	.0	5.5
-5	.0	.0	.0	.0	.0	2.4	2.4	.3	.0	.0	.0	.0	.0	34	.2	5.0
-6	.0	.0	.0	.0	.0	3.8	.2	.3	.0	.0	.0	.0	.0	28	.2	4.1
-7/-8	.0	.0	.0	.0	.2	6.5	1.5	.0	.0	.0	.0	.0	.0	54	.3	7.9
-9/-10	.0	.0	.0	.0	4.0	2.0	1.2	.3	.0	.0	.0	.0	.0	49	.5	7.0
-11/-13	.0	.0	.0	1.2	3.8	1.2	.3	.0	.0	.0	.0	.0	.0	43	.0	6.5
-14/-16	.0	.0	.5	6.1	2.4	.8	.0	.0	.0	.0	.0	.0	.0	64	.6	9.1
-17/-19	.0	.0	7.9	1.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	67	.3	9.9
-20/-22	.0	3.3	4.1	1.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	62	.0	9.4
-23/-25	.0	3.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.2	5.0
-26/-30	2.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.6	2.3
<-30	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.3	2.1
TOTAL	27	50	95	71	72	112	140	60	18	4	2	2	4	657	23	634
PCT	4.1	7.6	14.5	10.9	11.0	17.0	21.3	9.1	2.7	.6	.3	.3	.6	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	12.6	2.3	.0	.0	.0	15.7
1-2	.0	.7	1.1	.0	.0	.0	1.8
3-4	.0	.0	.7	.2	.0	.0	.9
5-6	.0	.2	.4	.2	.0	.0	.9
7	.0	.0	.8	.2	.2	.0	1.2
8-9	.0	.0	.2	.6	.0	.0	.8
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	13.5	5.9	1.4	.2	.0	21.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	14.2	1.8	.0	.0	.0	17.0
1-2	.0	.5	1.5	.0	.0	.0	2.1
3-4	.0	.0	.5	.3	.0	.0	.8
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.5	.0	.0	.6
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	14.7	4.0	.9	.0	.0	20.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	10.6	.7	.0	.0	.0	12.8
1-2	.0	.5	1.5	.0	.0	.0	2.0
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	11.1	2.7	.0	.2	.0	15.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	6.2	1.2	.0	.0	.0	7.7
1-2	.0	.2	1.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.2	.0	.0	.2
5-6	.0	.0	.2	.2	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.4	2.4	.7	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.9	.2	.0	.0	.0	4.5	.1	1.7	.1	.0	.0	.0	1.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
3-4	.0	.2	.0	.2	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.2	.2	.7	.2	.0	5.6	.1	1.8	.4	.2	.0	.0	2.4

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.2	.5	.0	.0	.0	1.9	.1	3.7	.4	.0	.0	.0	4.2	
1-2	.0	.2	.7	.0	.0	.0	.8	.0	.2	1.0	.0	.0	.0	1.2	
3-4	.0	.0	.2	.2	.0	.0	.4	.0	.0	.7	.3	.0	.0	1.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.7	.0	.0	1.0	
8-9	.0	.0	.0	.2	.2	.0	.4	.0	.0	.7	.4	.0	.0	1.1	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.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	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	1.4	1.4	.8	.2	.0	4.0	.1	4.0	3.3	1.7	.0	.0	9.0	88.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.4	54.2	7.1	.0	.0	.0	76.7	
1-2	.0	2.4	6.9	.0	.0	.0	9.3	
3-4	.0	.2	2.6	1.4	.0	.0	4.3	
5-6	.0	.2	1.0	1.0	.2	.0	2.4	
7	.0	.0	1.2	1.9	.2	.0	3.3	
8-9	.0	.0	1.0	1.4	.2	.0	2.6	
10-11	.0	.0	.2	.5	.0	.0	.7	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.2	.2	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.4	57.0	20.2	6.4	1.0	.0	100.0	421

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	19.9	5.0	3.6	1.4	1.9	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	2
6-7	.0	4.2	4.3	2.8	2.6	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	4
8-9	.0	2.6	1.7	.9	1.0	.2	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	5
10-11	.0	1.2	1.7	.0	.2	.0	.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
12-13	.0	.0	.5	.0	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	31.0	1.6	2.1	1.2	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	222	1
TOTAL	296	84	81	38	43	24	8	2	3	1	0	0	0	0	0	0	0	0	0	570	2
PCT	50.9	14.5	14.0	6.6	7.4	4.2	1.4	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1936-1974

AREA 0016 WEST COAST KAMCHATKA
53.0N 159.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	12.7	.0	.0	12.7	1.2	.0	3.0	.0	.2		.0	82.9
NE	.0	.0	.0	.0	11.6	.0	.0	11.6	1.3	.0	3.5	1.3	.3		.0	81.9
E	.0	.0	.0	.0	17.0	.0	.0	17.0	.0	.0	7.5	.0	1.7		.0	73.7
SE	.0	.0	.0	.7	20.6	.0	.0	21.3	1.1	.0	4.5	.0	.0		.0	73.1
S	.0	.0	.0	.0	27.1	.0	.0	27.1	3.5	.0	4.5	.0	.8		.0	64.1
SW	.0	.0	.0	.0	49.9	.3	.0	50.1	2.2	.0	5.7	.0	1.1		.0	40.9
W	.7	.7	.0	.0	34.5	.6	.0	35.1	7.2	.0	4.2	.0	.7		.0	52.8
NW	.0	.0	.0	.7	25.6	.0	.0	26.3	3.2	.0	3.5	.0	.7		.0	66.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	6.7	.0	.0	6.7	1.2	.0	8.0	.6	.6		.0	82.8
TOT PCT	.1	.1	.0	.1	20.4	.1	.0	20.6	2.2	.0	4.7	.2	.6		.0	71.7
TOT OBS:	1394															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.2	.0	.0	19.3	.2	.0	19.5	2.2	.0	6.1	.2	.3		.0	71.6
06&09	.0	.0	.0	.3	15.6	.0	.0	15.9	2.5	.0	3.1	.0	.3		.0	78.1
12&15	.0	.0	.0	.3	21.8	.0	.0	22.1	1.2	.0	2.7	.3	.6		.0	73.1
18&21	.4	.0	.0	.0	25.9	.0	.0	25.9	3.4	.0	4.5	.4	1.1		.0	64.7
TOT PCT	.1	.1	.0	.1	20.2	.1	.0	20.4	2.3	.0	4.4	.2	.6		.0	72.1
TOT OBS:	1508															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	11.5	8.8	1.8	.1	.0		22.6	11.3	18.8	10.9	30.8	14.7	25.0	.0	20.1	12.5
NE	.6	7.2	2.7	.2	.0	.0		10.7	9.0	10.9	1.6	6.1	8.8	13.5	.0	13.3	.0
E	.7	4.5	1.7	.2	.1	.1		7.3	9.4	7.2	17.2	5.3	.0	7.7	33.3	8.9	.0
SE	.3	4.7	2.9	1.3	.7	.0		10.0	14.1	13.2	7.8	8.8	17.6	6.9	8.3	7.6	31.3
S	.4	4.2	2.8	1.4	.8	.0		9.7	14.5	9.6	23.4	8.6	16.2	8.8	25.0	10.6	18.8
SW	.1	3.1	2.0	1.4	.3	.0		6.9	14.4	6.6	14.1	7.7	13.2	5.5	.0	6.7	25.0
W	.4	4.7	3.8	1.1	.1	.1		10.1	12.9	9.1	12.5	10.5	23.5	9.7	33.3	10.7	12.5
NW	.3	5.8	3.3	1.0	.2	.0		10.6	11.8	9.2	12.5	13.0	.0	11.9	.0	10.5	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.0							12.0	.0	15.4	.0	9.2	5.9	11.0	.0	11.6	.0
TOT OBS	211	620	376	113	32	2	1354		10.6	495	16	273	17	301	3	241	8
TOT PCT	15.6	45.8	27.8	8.3	2.4	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.8	11.3	4.2	.3	.1		22.6	11.3	18.6	29.8	24.8	19.9
NE	4.7	4.6	1.5	.0	.0		10.7	9.0	10.6	6.3	13.4	12.9
E	3.4	3.1	.5	.1	.1		7.3	9.4	7.5	5.0	8.0	8.6
SE	2.5	4.3	2.0	1.0	.2		10.0	14.1	13.0	9.3	6.9	8.2
S	2.5	4.1	1.7	1.3	.1		9.7	14.5	10.1	9.1	9.0	10.8
SW	1.6	2.7	2.1	.4	.1		6.9	14.4	6.8	8.0	5.4	7.3
W	3.0	4.3	2.3	.3	.1		10.1	12.9	9.2	11.3	10.0	10.7
NW	3.7	4.4	1.9	.5	*		10.6	11.8	9.3	12.2	11.8	10.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.0						12.0	.0	14.9	9.0	10.9	11.2
TOT OBS	544	528	219	56	9	1354		10.6	511	290	304	249
TOT PCT	40.2	39.0	16.2	4.0	.7		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1936-1974

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	14.9	3.7	44.8	25.4	8.4	2.7	.0	10.2	100.0	511
06&09	9.0	3.8	44.1	31.7	7.6	3.1	.7	11.4	100.0	290
12&15	10.9	4.6	49.0	24.0	10.2	1.3	.0	10.4	100.0	304
18&21	11.2	1.6	49.8	32.5	6.8	2.0	.0	10.6	100.0	249
TOT	163	48	620	376	113	32	2	10.6		1354
PCT	12.0	3.5	45.8	27.8	8.3	2.4	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	3.2	6.5	7.6		5.1
NE	2.8	1.7	2.5	3.9		4.9
E	1.9	1.3	1.4	3.0		5.0
SE	1.0	1.2	3.1	4.7		6.1
S	1.5	.9	2.4	4.2		5.9
SW	.6	.5	2.0	4.5		6.7
W	.8	.3	2.8	5.9		6.8
NW	1.4	1.1	3.7	4.7		6.0
VAR	.0	.0	.0	.0		.0
CALM	5.7	1.6	2.4	1.9		3.2
TOT OBS	215	119	270	407	1011	5.4
TOT PCT	21.3	11.8	26.7	40.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.5	.0	.1	.4	2.4	4.9	1.1	.0	.8	.8	10.9	
NE	.6	.0	.1	.2	.8	2.3	.7	.1	.2	.2	5.8	
E	.4	.0	.1	.0	.6	1.2	.3	.1	.1	.5	4.3	
SE	1.0	.0	.2	.1	1.4	2.6	.5	.0	.3	.1	3.6	
S	1.1	.0	.3	.2	1.7	2.0	.4	.0	.0	.0	3.2	
SW	1.2	.1	.3	*	1.9	1.6	.5	.0	*	.0	1.8	
W	.9	.1	.3	.5	2.5	2.9	.4	.0	.4	.1	1.7	
NW	.9	*	.1	.2	2.5	2.4	.6	.0	.7	.2	3.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.1	.2	.1	.3	1.4	.5	.0	.1	.2	8.3	
TOT OBS	81	3	18	17	145	216	50	2	26	21	432	1011
TOT PCT	8.0	.3	1.8	1.7	14.3	21.4	4.9	.2	2.6	2.1	42.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	3.1	4.0	4.5	5.0	5.0	5.0	5.0	5.0
* OR >5000	3.4	4.4	4.9	5.5	5.5	5.5	5.5	5.5
* OR >3500	6.5	8.5	9.5	10.1	10.2	10.2	10.2	10.2
* OR >2000	18.3	27.0	29.0	31.0	31.9	31.9	32.1	32.1
* OR >1000	21.9	34.4	38.0	42.6	45.5	46.2	47.0	47.0
* OR >600	22.0	35.0	39.3	44.2	47.2	48.0	48.9	48.9
* OR >300	22.0	35.4	40.1	45.2	48.5	49.3	50.6	50.6
* OR >150	22.1	35.6	40.3	45.4	48.7	49.6	50.9	50.9
* OR > 0	22.4	37.1	42.7	49.4	53.7	55.5	58.4	58.5
TOTAL	249	413	475	549	597	617	649	651

TOTAL NUMBER OF OBS: 1112 PCT FREQ NH <5/8: 41.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
16.7	2.0	7.8	5.0	5.7	5.9	7.5	7.9	35.0 6.4	1353

PERIOD: (PRIMARY) 1950-1974
(OVER-ALL) 1936-1974

AREA 0016 WEST COAST KAMCHATKA
53.0N 155.5E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.3	.2	.4	.6	.4	.4	.8	.2	.0	.1	3.4	
<1/2	NO PCP	.3	.2	.1	.2	.4	.2	.1	.2	.0	.7	2.2	
	TOT %	.3	.4	.4	.8	.8	.6	.9	.4	.0	.7	5.6	
	PCP	.9	.2	.1	.4	.6	1.1	.6	.5	.0	.0	3.9	
1/2<1	NO PCP	.1	.0	.0	.0	.1	.0	.1	.1	.0	.1	.4	
	TOT %	.6	.2	.1	.4	.7	1.1	.6	.6	.0	.1	4.4	
	PCP	.9	.2	.6	.3	.5	1.3	1.2	1.0	.0	.3	5.9	
1<2	NO PCP	.1	.1	.1	.1	.1	.1	.1	.1	.0	.0	.8	
	TOT %	.6	.3	.8	.4	.6	1.3	1.2	1.1	.0	.3	6.7	
	PCP	.9	.4	.1	.6	.7	.6	.8	1.1	.0	.4	5.6	
2<5	NO PCP	1.1	.3	.6	.6	.1	.3	.7	.5	.0	.6	4.8	
	TOT %	2.0	.7	.7	1.2	.8	.9	1.5	1.5	.0	1.0	10.4	
	PCP	.4	.1	.1	.1	.3	.3	.4	.3	.0	.0	1.9	
5<10	NO PCP	5.7	4.4	1.7	2.3	2.3	1.6	2.9	1.9	.0	3.6	26.4	
	TOT %	6.1	4.5	1.8	2.4	2.6	1.9	3.3	2.2	.0	3.6	28.3	
	PCP	.1	.0	.0	.1	.1	.0	.0	.1	.0	.1	.5	
10+	NO PCP	12.4	4.8	3.7	4.6	3.6	1.2	2.5	4.9	.0	6.2	44.0	
	TOT %	12.8	4.8	3.7	4.7	3.8	1.2	2.5	5.0	.0	6.3	44.5	
	TOT OBS												1350
	TOT PCT	22.4	11.1	7.5	9.9	9.3	6.9	10.0	10.9	.0	12.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
<1/2	4-10	.2	.2	.2	.2	.2	.1	.0	.1	.0		1.1	
	11-21	.3	.2	.1	.3	.1	.2	.5	.2	.0		1.7	
	22+	.1	.0	.1	.4	.6	.3	.3	.2	.0		1.9	
	TOT %	.5	.4	.3	.9	.9	.5	.8	.4	.0	.8	5.5	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	4-10	.4	.1	.1	.1	.3	*	.2	.1	.0		1.3	
	11-21	.1	.1	.0	.0	.1	.3	.1	.3	.0		1.0	
	22+	.1	.0	.0	.3	.4	.7	.2	.2	.0		2.0	
	TOT %	.6	.2	.1	.4	.8	1.1	.6	.6	.0	.2	4.5	
	0-3	.1	.0	.0	.0	.0	*	.1	.1	.0	.3	.6	
1<2	4-10	.2	.3	.6	.2	.2	.5	.4	.5	.0		2.8	
	11-21	.3	.1	.2	.1	.4	.5	.8	.3	.0		2.5	
	22+	.1	.0	.0	.2	.1	.2	.1	.2	.0		.9	
	TOT %	.6	.3	.8	.4	.6	1.4	1.3	1.1	.0	.3	6.8	
	0-3	.0	.1	.1	.1	.0	.0	.0	.1	.0	1.1	1.4	
2<5	4-10	.8	.6	.6	.5	.3	.6	.6	.6	.0		4.6	
	11-21	.7	.1	.1	.3	.2	.2	.9	.5	.0		2.8	
	22+	.5	.0	.0	.4	.4	.1	.1	.4	.0		1.9	
	TOT %	2.1	.8	.7	1.3	.8	.9	1.5	1.6	.0	1.1	10.7	
	0-3	.1	.2	.2	*	.2	.0	.1	*	.0	3.6	4.5	
5<10	4-10	2.9	2.9	.6	1.1	1.1	1.1	1.7	1.0	.0		12.4	
	11-21	2.5	1.3	.8	1.0	1.0	.6	1.1	.9	.0		9.3	
	22+	.5	.1	.2	.4	.4	.2	.4	.2	.0		2.5	
	TOT %	6.1	4.5	1.9	2.5	2.6	1.9	3.3	2.2	.0	3.6	28.7	
	0-3	.5	.2	.5	.2	.3	.1	.2	.2	.0	6.1	8.1	
10+	4-10	7.0	3.2	2.4	2.9	2.1	.8	1.9	3.4	.0		23.7	
	11-21	4.5	1.0	.5	1.3	1.1	.2	.5	1.3	.0		10.5	
	22+	.7	.1	.1	.2	.3	*	.1	.1	.0		1.6	
	TOT %	12.7	4.5	3.5	4.7	3.8	1.1	2.5	4.9	.0	6.1	43.8	
	TOT OBS												1319
	TOT PCT	22.6	10.8	7.3	10.2	9.5	6.9	10.0	10.8	.0	12.0	100.0	

MARCH

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1936-1974

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.5E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.3	.2	2.2	2.7	16.1	23.3	5.9	.6	2.5	2.0	61.8	38.2	510
06&09	4.0	.7	1.1	.7	12.9	21.0	4.8	.7	4.4	2.2	52.6	47.4	272
12&15	9.4	.0	1.9	.5	13.2	15.6	1.9	.0	2.4	1.4	46.2	53.8	212
18&21	17.1	.0	.6	2.4	12.4	21.2	3.5	.0	2.9	1.2	61.2	38.8	170
TOT	92	3	19	21	166	245	53	5	35	21	660	506	1164
PCT	7.9	.3	1.6	1.8	14.3	21.0	4.6	.4	3.0	1.8	56.7	43.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	6.3	5.1	6.1	8.8	24.9	48.9	591
06&09	4.7	3.4	6.2	9.3	23.7	52.6	321
12&15	6.1	3.6	7.3	10.9	30.9	41.2	330
18&21	5.3	4.2	7.9	15.5	34.3	32.8	265
TOT	86	64	101	159	416	681	1507
PCT	5.7	4.2	6.7	10.6	27.6	45.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.3	15.4	27.1	39.7	33.2	494
06&09	4.3	9.4	19.9	37.5	42.6	256
12&15	9.0	19.6	31.7	23.1	45.2	199
18&21	15.3	20.9	36.2	27.0	36.8	163
TOT	85	173	307	382	423	1112
PCT	7.6	15.6	27.6	34.4	38.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.0	.8	1.7	.0	3	2.5
30/34	.0	.0	.0	1.7	.8	6.7	13.4	5.9	34	28.6
25/29	.0	.0	.0	.0	3.4	10.9	8.4	13.4	43	36.1
20/24	.0	.0	.0	.0	2.5	2.5	5.9	2.5	16	13.4
15/19	.0	.0	.0	.0	1.7	6.7	5.9	.8	18	15.1
10/14	.0	.0	.0	.0	.0	.0	1.7	2.5	5	4.2
TOTAL	0	0	0	2	10	33	44	30	119	100.0
PCT	.0	.0	.0	1.7	8.4	27.7	37.0	25.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.8	1.7	.0	.0	.0	.0	.0	.0
4.6	4.8	4.0	5.3	4.0	1.7	.8	3.4	.0	.0
2.1	4.4	4.0	5.3	5.9	4.4	3.8	4.0	.0	2.5
1.7	.8	1.5	2.1	2.3	.8	3.2	1.1	.0	.0
1.7	.0	1.7	.8	3.2	4.4	3.2	.2	.0	.0
1.7	.0	.0	.0	.0	.2	.6	1.7	.0	.0
11.8	10.1	12.0	15.1	15.3	11.6	11.3	10.3	.0	2.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	39	34	26	9	0	-11	24.0	582
06&09	44	40	37	27	12	9	1	25.8	303
12&15	40	36	32	24	10	5	4	22.7	320
18&21	39	36	31	23	7	-1	-2	20.8	259
TOT	50	39	34	25	9	1	-11	23.5	1464

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.5	7.5	25.0	40.0	25.0	82	40
06&09	.0	2.9	8.8	32.4	38.2	17.6	81	34
12&15	.0	.0	9.1	18.2	31.8	40.9	84	22
18&21	.0	.0	12.0	32.0	32.0	24.0	81	25
TOT	0	2	11	33	44	31	82	121

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1936-1974

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.3E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	5	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.9	.0	9	.0	1.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	4	.0	.5
5	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	12	.1	1.3
4	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.2	.0	14	.0	1.6
3	.0	.0	.0	.0	.0	.0	.0	1.5	.7	.7	.0	25	.0	2.9
2	.0	.0	.0	.0	.0	.0	.0	3.4	.6	.2	.0	36	.3	3.8
1	.0	.0	.0	.0	.0	.0	.0	6.1	.6	.0	.0	58	.2	6.5
0	.0	.0	.0	.0	.0	.0	1.0	6.1	.2	.1	.0	65	.1	7.4
-1	.0	.0	.0	.0	.0	.0	3.2	2.8	.1	.0	.0	53	.2	5.9
-2	.0	.0	.0	.0	.0	.0	5.4	1.5	.1	.0	.0	61	.1	6.9
-3	.0	.0	.0	.0	.0	.0	6.8	1.4	.0	.0	.0	71	.3	7.9
-4	.0	.0	.0	.0	.0	.1	9.2	.7	.0	.0	.0	52	.1	5.9
-5	.0	.0	.0	.0	.0	3.0	4.3	.6	.0	.0	.0	68	.1	7.7
-6	.0	.0	.0	.0	.0	3.6	2.1	.5	.0	.0	.0	53	.5	5.7
-7/-8	.0	.0	.0	.0	.2	5.1	1.8	.1	.0	.0	.0	63	.2	7.1
-9/-10	.0	.0	.0	.0	4.9	1.5	.9	.1	.0	.0	.0	64	.2	7.2
-11/-13	.0	.0	.0	1.2	5.1	1.5	.5	.1	.0	.0	.0	73	.3	8.1
-14/-16	.0	.0	.1	3.2	.7	.1	.0	.0	.0	.0	.0	36	.1	4.0
-17/-19	.0	.0	1.0	.7	.1	.0	.0	.0	.0	.0	.0	16	.2	1.6
-20/-22	.0	.3	.7	.1	.0	.3	.0	.0	.0	.0	.0	13	.0	1.5
-23/-25	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.1	.4
-26/-30	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.1	.6
<-30	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
TOTAL	8	7	18	45	95	132	271	217	45	25	2	865	31	834
PCT	.9	.8	2.1	5.2	11.0	15.3	31.3	25.1	5.2	2.9	.2	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	11.0	1.6	.0	.0	.0	13.5
1-2	.0	1.8	2.6	.0	.0	.0	4.4
3-4	.0	1.1	2.2	.4	.0	.0	3.6
5-6	.0	.6	.6	.2	.0	.0	1.4
7	.0	.2	.3	.2	.0	.0	.7
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	14.9	7.3	.8	.0	.0	23.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	6.9	.4	.0	.0	.0	8.3
1-2	.0	.2	.2	.0	.0	.0	.4
3-4	.0	.0	.6	.1	.0	.0	.7
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.1	1.4	.1	.0	.0	9.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	4.6	.4	.0	.0	.0	5.6
1-2	.0	.4	.0	.0	.0	.0	.4
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.2	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.1	.7	.0	.0	.2	6.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	4.3	.7	.0	.0	.0	5.3
1-2	.2	.4	.6	.0	.0	.0	1.2
3-4	.0	.2	.6	.4	.0	.0	1.1
5-6	.0	.0	.2	.2	.2	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.2	.2	.4	.0	.7
10-11	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.5	.2	.2	.2	.0	1.0
17-19	.0	.0	.0	.1	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.3	2.3	1.0	1.1	.0	10.2

PERIOD: (OVER-ALL) 1963-1974

MARCH

TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA 53.9N 155.5E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.5	.4	.0	.0	.0	4.8
1-2	.0	.3	1.0	.0	.0	.0	1.5
3-4	.0	.2	.9	.3	.0	.0	1.4
5-6	.0	.5	.4	.3	.0	.0	1.2
7	.0	.0	.6	.5	.2	.0	1.2
8-9	.0	.2	.2	.1	.4	.0	.8
10-11	.0	.0	.0	.0	.3	.0	.3
12	.0	.0	.0	.2	.3	.0	.5
13-16	.0	.0	.2	.4	.4	.0	1.0
17-19	.0	.0	.0	.2	.2	.0	.4
20-22	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.8	3.7	2.1	1.8	.0	13.2

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.6	.4	.0	.0	.0	2.1
1-2	.0	.5	.0	.0	.0	.0	.5
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	1.0	*	.0	.0	1.0
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.0	.4	.5	.2	.0	1.1
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.7	.0	.0	.7
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	2.9	2.2	.5	.0	7.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.1	.4	.0	.0	.0	3.0
1-2	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.2	.3	.0	.0	.0	.5
5-6	.0	.2	.3	.2	.0	.0	.7
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.2	.4	.0	.0	.5
10-11	.0	.0	.5	.2	.3	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.7	2.3	1.2	.3	.0	8.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	6.3	.7	.0	.0	.0	7.4	
1-2	.0	1.0	.4	.0	.0	.0	1.4	
3-4	.0	.4	.8	.0	.0	.0	1.1	
5-6	.0	.0	.4	.5	.0	.0	.9	
7	.0	.0	*	.1	.2	.0	.3	
8-9	.0	.2	*	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	7.9	2.3	.6	.2	.0	11.3	90.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.6	40.3	5.0	.0	.0	.0	60.0	
1-2	.2	6.2	4.7	.0	.0	.0	11.1	
3-4	.0	1.9	5.9	1.1	.0	.0	8.9	
5-6	.0	1.2	3.0	1.4	.2	.0	5.8	
7	.0	.2	1.7	.8	.3	.0	3.0	
8-9	.0	.3	.9	1.4	.8	.0	3.4	
10-11	.0	.0	.9	.6	.9	.0	2.5	
12	.0	.0	.0	.2	.6	.0	.8	
13-16	.0	.8	.3	1.7	.6	.2	3.6	
17-19	.0	.0	.0	.5	.3	.0	.8	
20-22	.0	.0	.0	.3	.0	.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	
								642
TOT PCT	14.8	50.9	22.4	7.9	3.7	.2	100.0	

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	8.9	5.8	2.7	1.5	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	3
6-7	.0	1.3	4.2	3.8	1.1	1.5	1.1	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	6
8-9	.0	.4	1.1	1.2	.7	.4	1.1	.2	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	9
10-11	.0	1.2	.2	.1	.5	.1	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	25	7
12-13	.0	.0	1.9	.4	.0	.0	.2	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	27	7
>13	.0	.0	.0	.7	.2	.1	.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
INDET	25.1	2.4	6.4	2.7	3.3	1.7	.2	.0	.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	362	2
TOTAL	270	119	165	106	82	34	29	8	30	12	6	0	0	0	0	0	0	0	0	841	4
PCT	32.1	14.1	19.6	12.6	7.4	4.0	3.4	1.0	3.6	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.3	.0	.0	.0	6.0	.0	.0	6.3	1.5	.0	3.9	.0	.0		.0	88.4
NE	.0	.0	.0	.0	12.0	.0	.0	12.0	.3	.0	7.4	.0	1.2		.0	79.0
E	.7	.0	.0	.0	16.7	.0	.0	17.4	4.6	1.3	4.6	1.3	.0		.0	72.1
SE	2.3	.6	.0	.0	17.8	.0	.0	19.5	2.2	.0	6.4	.0	.0		.0	71.9
S	1.9	.0	1.5	.4	18.9	.0	.0	21.9	1.8	.0	12.2	.4	.0		.0	63.7
SW	2.4	.0	1.0	.0	24.6	.0	.0	25.5	3.4	.0	13.2	.0	.0		.0	57.9
W	.0	.0	.0	.0	21.7	.0	.0	21.7	6.0	.0	3.2	.0	.5		.0	68.5
NW	.0	.0	.0	.0	13.0	.0	.0	13.0	5.6	.0	7.6	.0	.1		.0	73.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.0	.0	.0	.0	10.9	1.0	.0	11.9	3.0	.0	13.9	1.0	.0		.0	70.3
TOT PCT	.9	.1	.3	.1	14.6	.1	.0	15.5	2.9	.1	7.7	.2	.1		.0	73.6
TOT OBS:	1503															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.7	.2	.4	.0	14.6	.2	.0	15.9	2.1	.2	9.1	.2	.0		.0	73.1
06&09	1.5	.0	.3	.3	10.1	.0	.0	11.3	3.0	.0	7.7	.0	.3		.0	77.7
12&15	.3	.0	.3	.0	15.6	.0	.0	16.2	3.9	.0	5.6	.0	.0		.0	74.4
18&21	1.6	.0	.3	.0	19.0	.0	.0	19.9	2.6	.0	6.8	1.0	.3		.0	69.5
TOT PCT	1.0	.1	.3	.1	14.7	.1	.0	15.6	2.8	.1	7.6	.3	.1		.0	73.7
TOT OBS:	1575															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	9.5	9.6	3.4	.0	.0		24.4	12.9	23.4	26.3	27.4	21.9	24.7	26.1	22.8	23.2
NE	.5	3.1	1.5	.2	.1	.0		5.2	9.7	5.2	3.4	3.7	2.0	4.4	6.3	8.9	6.8
E	1.0	2.4	1.5	.2	.0	.0		5.0	8.9	7.9	5.5	1.2	1.7	4.9	3.4	5.5	4.8
SE	.5	4.1	3.8	2.0	.5	.1		11.0	15.2	11.7	9.7	12.9	8.1	7.2	9.2	14.7	10.6
S	.4	6.2	7.3	2.9	.2	.0		17.1	14.4	17.8	19.1	14.8	21.6	15.8	13.8	16.6	20.7
SW	.7	3.7	3.6	.6	.1	.0		8.6	11.5	7.5	5.5	7.7	10.1	10.1	17.0	7.6	9.3
W	.5	4.3	3.9	.8	.0	.0		9.2	11.9	6.7	14.5	10.3	16.0	8.2	9.8	6.7	12.6
NW	.8	5.8	5.8	1.1	.1	.0		13.1	12.4	10.7	15.3	15.2	14.0	17.1	10.9	11.4	9.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0	9.1	.8	6.8	4.5	7.6	3.4	5.7	2.0
TOT OBS	204	629	581	179	17	1	1611		12.0	461	119	249	89	277	87	230	99
TOT PCT	12.7	39.0	36.1	11.1	1.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.9	10.2	7.7	.6	.0		24.4	12.9	24.0	26.0	25.1	22.9
NE	1.8	2.9	.4	.1	.0		5.2	9.7	4.8	3.3	4.9	8.3
E	2.3	2.2	.5	.1	.0		5.0	8.9	7.4	1.3	4.5	5.3
SE	2.2	4.6	2.7	1.3	.2		11.0	15.2	11.3	11.6	7.7	13.4
S	3.3	7.7	5.0	1.1	.1		17.1	14.4	18.1	10.6	15.2	17.9
SW	2.8	3.9	1.7	.2	.0		8.6	11.5	7.1	8.4	11.7	8.1
W	2.3	4.7	1.9	.2	.0		9.2	11.9	8.3	11.8	8.6	8.5
NW	2.9	7.2	2.1	.8	.0		13.1	12.4	11.6	14.9	15.6	10.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.4						6.4	.0	7.4	6.2	6.6	4.6
TOT OBS	481	700	355	71	4	1611		12.0	580	338	364	329
TOT PCT	29.9	43.5	22.0	4.4	.2		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.4	5.0	41.4	34.3	11.0	.9	.0	11.7	100.0	580
06&09	6.2	5.9	36.7	37.6	11.2	2.1	.3	12.6	100.0	338
12&15	6.6	7.7	37.9	35.7	11.0	1.1	.0	12.0	100.0	364
18&21	4.6	7.3	38.6	38.0	11.2	.3	.0	11.8	100.0	329
TOT	103	101	629	581	179	17	1	12.0		1611
PCT	6.4	6.3	39.0	36.1	11.1	1.1	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.5	3.0	6.8	7.5		4.9
NE	.7	.5	.8	2.5		6.0
E	.4	.3	.9	2.7		6.6
SE	1.2	1.0	2.2	6.7		6.4
S	2.3	.7	3.8	11.0		6.5
SW	1.3	.5	1.6	5.2		6.4
W	1.2	.9	3.3	4.3		6.0
NW	2.4	1.4	4.0	5.4		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	1.6	3.0		5.3
TOT OBS	206	102	288	537	1153	5.8
TOT PCT	17.9	8.8	25.0	48.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.2	.2	1.6	4.0	3.5	1.9	.3	.4	.1	10.6	
NE	.5	.0	.0	.1	.5	1.1	.2	.2	.1	.1	1.7	
E	.4	.0	.0	.6	.6	.9	.4	.0	.2	.1	1.3	
SE	1.5	.0	.5	1.0	2.0	1.8	.7	*	.5	.1	9.0	
S	3.3	.1	1.0	1.6	3.2	3.0	.8	.1	.3	.6	4.0	
SW	.9	.1	.4	1.2	1.5	2.1	.2	.1	.1	*	1.9	
W	.5	.1	.3	1.3	2.2	1.8	.5	.1	.1	.1	2.7	
NW	1.0	.1	.1	1.0	2.3	2.3	1.0	.0	.2	.1	9.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	.0	.8	.6	1.0	.3	.0	.3	.1	2.9	
TOT OBS	116	6	29	107	194	204	68	8	24	14	383	1153
TOT PCT	10.1	.5	2.5	9.3	16.8	17.7	5.9	.7	2.1	1.2	33.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.5	2.8	3.1	3.2	3.2	3.2	3.2	3.2
* OR >5000	2.6	3.3	3.7	3.9	3.9	3.9	3.9	3.9
* OR >3500	5.7	8.7	9.5	9.8	9.9	9.9	10.0	10.0
* OR >2000	13.5	22.8	26.0	26.8	27.2	27.4	27.7	27.7
* OR >1000	20.1	33.8	39.3	41.3	43.2	44.0	44.3	44.3
* OR >600	22.1	38.2	46.6	49.7	52.0	53.0	53.4	53.4
* OR >300	22.1	38.8	47.7	51.3	53.9	54.9	55.5	55.5
* OR >150	22.1	39.0	48.0	51.7	54.3	55.5	56.0	56.0
* OR > 0	22.1	39.2	49.9	55.3	59.0	63.4	66.3	66.4
TOTAL	260	460	586	649	693	744	778	779

TOTAL NUMBER OF OBS: 1174 PCT FREQ NH <5/8: 33.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.7	4.7	7.4	5.4	4.2	5.6	9.2	7.3	36.2	9.3	1294

APRIL

PERIOD: (PRIMARY) 1958-1974
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.1	.2	.9	.7	.3	.6	.6	.0	.1	3.6	
<1/2	NO PCP	.9	.1	.2	.4	1.5	.9	.2	.4	.0	.9	5.0	
	TOT %	.6	.2	.4	1.3	2.1	1.2	.8	.9	.0	1.0	8.5	
	PCP	.2	.0	.2	.4	.8	.5	.2	.3	.0	.1	2.6	
1/2<1	NO PCP	.2	*	.1	.0	.1	*	.1	*	.0	.0	.6	
	TOT %	.4	*	.2	.4	.9	.5	.3	.4	.0	.1	3.2	
	PCP	.6	.3	.2	.4	1.2	.5	.5	.5	.0	.0	4.3	
1<2	NO PCP	.1	.1	.0	.1	.4	.1	.1	.2	.0	.0	1.1	
	TOT %	.7	.4	.2	.5	1.6	.5	.6	.7	.0	.0	5.4	
	PCP	.5	.2	.3	.4	.8	.8	.5	.2	.0	.5	4.2	
2<5	NO PCP	1.0	.5	.5	.7	1.6	.5	.8	1.1	.0	.5	7.1	
	TOT %	1.5	.7	.8	1.1	2.4	1.4	1.3	1.3	.0	.9	11.4	
	PCP	.2	.0	.0	.3	.3	.2	.2	.1	.0	.1	1.5	
5<10	NO PCP	6.8	1.6	1.3	2.7	3.7	2.4	2.6	4.0	.0	1.6	26.6	
	TOT %	7.0	1.6	1.3	2.9	4.0	2.6	2.9	4.1	.0	1.7	28.0	
	PCP	.0	.0	.1	.1	.0	*	*	.0	.0	.0	.2	
10+	NO PCP	14.1	2.4	2.2	4.7	5.9	2.2	3.4	5.6	.0	3.0	43.4	
	TOT %	14.1	2.4	2.2	4.8	5.9	2.2	3.5	5.6	.0	3.0	43.6	
	TOT OBS												1913
	TOT PCT	24.3	5.2	5.1	10.9	16.9	8.5	9.4	13.0	.0	6.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.0	.1	.1	.2	.2	.1	.2	.0	1.0	1.8	
<1/2	4-10	.3	.1	.2	.4	.5	.7	.3	.5	.0		3.1	
	11-21	.1	.0	.1	.3	.8	.2	.4	.2	.0		2.2	
	22+	.0	.1	.0	.5	.6	.1	.0	.0	.0		1.2	
	TOT %	.5	.2	.4	1.3	2.1	1.2	.9	.9	.0	1.0	8.3	
	0-3	.1	.1	.1	.0	.1	.1	.0	.0	.0	.1	.4	
1/2<1	4-10	.2	*	.1	.1	.2	.1	.1	.3	.0		1.1	
	11-21	.6	.0	.1	*	.4	.3	.1	*	.0		1.6	
	22+	.1	.0	*	.2	.3	*	.1	.1	.0		.9	
	TOT %	1.0	.1	.2	.3	1.0	.5	.4	.4	.0	.1	4.0	
	0-3	.3	.1	.1	.0	.0	.0	.0	*	.0	.0	.4	
1<2	4-10	.5	.1	.3	.2	.4	.1	.2	.4	.0		2.4	
	11-21	.5	.2	*	.2	.7	.4	.4	.3	.0		2.7	
	22+	.1	.1	.0	.1	.9	.1	.2	.1	.0		1.5	
	TOT %	1.4	.5	.4	.5	2.0	.6	.8	.9	.0	.0	7.0	
	0-3	.3	*	.2	.2	*	.1	.1	.2	.0	.9	2.0	
2<5	4-10	.7	.4	.4	.3	.8	.6	.5	.4	.0		4.2	
	11-21	.9	.3	.2	.6	1.5	.6	.5	.6	.0		5.2	
	22+	.4	*	.0	.3	.4	.3	.2	.4	.0		2.1	
	TOT %	2.3	.7	.8	1.4	2.7	1.7	1.3	1.7	.0	.9	13.5	
	0-3	.3	.1	.2	.1	.2	.2	.1	.1	.0	1.7	3.1	
5<10	4-10	2.3	.9	.4	.9	1.4	1.0	.9	1.4	.0		9.2	
	11-21	2.7	.3	.6	1.0	1.8	1.1	1.4	2.1	.0		11.3	
	22+	1.4	.0	*	.7	.4	.2	.2	.3	.0		3.3	
	TOT %	6.7	1.5	1.2	2.8	3.8	2.5	2.6	3.9	.0	1.7	26.8	
	0-3	.9	.2	.5	.1	.0	.2	.3	.2	.0	2.9	5.1	
10+	4-10	5.5	1.6	1.1	2.1	2.8	1.2	2.3	2.7	.0		19.3	
	11-21	4.8	.4	.5	1.6	2.2	.7	.6	2.0	.0		13.0	
	22+	1.2	*	.1	.7	.6	.0	.1	.3	.0		2.9	
	TOT %	12.4	2.3	2.1	4.5	5.6	2.1	3.3	5.2	.0	2.9	40.3	
	TOT OBS												1972
	TOT PCT	24.3	5.2	5.2	10.9	17.2	8.6	9.3	13.0	.0	6.4	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
53.9N 155.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	8.4	.4	1.7	8.2	14.1	21.9	6.1	1.1	2.7	1.9	66.7	33.3	474
06&09	7.7	1.0	3.1	10.1	15.7	14.3	7.7	.7	1.4	1.4	63.3	36.7	286
12&15	12.6	.0	3.1	8.1	17.0	10.3	3.6	.4	1.8	.0	57.0	43.0	223
18&21	14.3	.4	2.5	10.1	20.6	18.9	5.9	.0	1.3	.4	74.4	25.6	238
TOT	124	6	30	110	199	213	73	8	24	14	801	420	1221
PCT	10.2	.5	2.5	9.0	16.3	17.4	6.0	.7	2.0	1.1	65.6	34.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	9.3	3.6	5.5	12.9	22.8	46.0	605
06&09	8.8	2.8	5.9	12.1	28.2	42.1	354
12&15	6.3	5.2	6.5	14.1	29.9	38.0	384
18&21	7.7	5.0	9.7	15.9	28.3	33.3	339
TOT	137	69	112	229	449	686	1682
PCT	8.1	4.1	6.7	13.6	26.7	40.8	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 <3OYD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	8.6	14.2	30.8	36.9	32.3	484
06&09	7.7	15.0	30.8	34.8	34.4	273
12&15	13.3	18.0	35.1	25.6	39.3	211
18&21	14.6	22.6	42.5	34.1	23.5	226
TOT	122	196	397	397	380	1174
PCT	10.4	16.7	33.8	33.8	32.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.3	.9	.0	.0	4	1.2
35/39	.0	.3	.6	1.2	.9	4.3	2.5	4.0	45	13.9
30/34	.0	.0	.0	.9	2.8	5.3	24.5	24.5	187	57.9
25/29	.0	.0	.0	.9	3.7	1.5	7.1	9.3	73	22.6
20/24	.0	.0	.0	.6	2.5	.0	.6	.6	14	4.3
TOTAL	0	1	2	12	33	39	112	124	323	100.0
PCT	.0	.3	.6	3.7	10.2	12.1	34.7	38.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.3	.3	.5	.1	.0	.0
	3.0	.6	.0	3.1	2.6	1.2	1.1	2.2	.0	.0
	12.2	.5	2.4	6.6	10.6	8.1	8.5	7.3	.0	.6
	6.0	1.7	.5	3.3	2.6	2.1	2.4	3.8	.0	.3
	.8	.4	1.0	.5	.5	.1	.3	.5	.0	.3
	22.0	3.3	3.9	13.4	16.6	11.8	12.8	14.9	.0	1.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	46	41	32	24	16	12	32.0	600
06&09	50	46	41	32	26	19	17	32.8	358
12&15	43	39	37	30	23	17	16	30.1	384
18&21	46	43	37	30	23	15	9	30.1	336
TOT	50	45	39	32	24	17	9	31.3	1678

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.7	11.1	16.0	35.8	33.3	82	81
06&09	.0	4.2	12.6	14.7	29.5	38.9	84	95
12&15	.0	5.1	7.7	6.4	42.3	38.5	85	78
18&21	.0	8.1	9.5	9.5	31.1	41.9	84	74
TOT	0	17	34	39	113	125	84	328

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
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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 92	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	5	.0	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.5	.3	.2	10	.1	.9
9/10	.0	.0	.0	.0	.0	.0	.3	1.1	.5	.0	19	.1	1.8
7/8	.0	.0	.0	.0	.0	.3	1.5	.9	.2	.0	29	.1	2.7
6	.0	.0	.0	.0	.0	.3	.5	.1	.0	.0	9	.0	.9
5	.0	.0	.0	.0	.0	2.1	2.4	.3	.1	.0	49	.4	4.4
4	.0	.0	.0	.0	.1	2.9	1.0	.2	.0	.0	43	.5	3.7
3	.0	.0	.0	.0	1.1	2.1	.8	.0	.0	.0	40	.4	3.5
2	.0	.0	.0	.0	4.1	4.2	.9	.4	.0	.0	98	1.0	8.6
1	.0	.0	.0	.0	4.0	3.6	.2	.0	.0	.0	80	.3	7.6
0	.0	.0	.0	.3	10.9	3.0	1.2	.0	.0	.0	157	1.2	14.2
-1	.0	.0	.0	1.3	5.8	2.4	.1	.0	.0	.0	97	.7	8.8
-2	.0	.0	.0	4.0	4.2	1.5	.6	.0	.0	.0	105	1.0	9.3
-3	.0	.0	.0	3.2	2.2	.1	.0	.0	.0	.0	56	.1	5.4
-4	.0	.0	.0	4.1	2.5	.6	.2	.0	.0	.0	75	.7	6.7
-5	.0	.0	.9	3.7	1.1	.2	.0	.0	.0	.0	60	.0	5.9
-6	.0	.0	.7	1.3	.5	.1	.0	.0	.0	.0	26	.0	2.6
-7/-8	.0	.0	1.7	1.2	.0	.0	.0	.0	.0	.0	29	.0	2.8
-9/-10	.0	.5	.8	.3	.1	.3	.1	.0	.0	.0	21	.0	2.1
-11/-13	.0	.1	.2	.3	.2	.0	.0	.0	.0	.0	8	.1	.7
-14/-16	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	3	.0	.3
TOTAL	2	6	43	201	374	242	98	35	15	3	1019	67	952
PCT	.2	.6	4.2	19.7	36.7	23.7	9.6	3.4	1.5	.3	100.0	6.6	93.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	4.4	.8	.0	.0	.0	6.0
1-2	.0	3.4	2.2	.0	.0	.0	5.6
3-4	.0	1.2	3.3	.2	.0	.0	4.7
5-6	.0	.1	1.1	.5	.0	.0	1.7
7	.0	.1	.2	.9	.0	.0	1.2
8-9	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.1	.1	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	9.1	8.7	2.1	.0	.0	20.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.7	.1	.0	.0	.0	2.0
1-2	.0	1.0	.2	.0	.0	.0	1.2
3-4	.0	*	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.7	.8	*	.0	.0	3.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	.1	.0	.0	.0	2.2
1-2	.1	.5	.9	.0	.0	.0	1.5
3-4	.1	.3	.5	.0	.0	.0	.9
5-6	.0	.0	.1	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.6	1.6	.1	.0	.0	4.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.5	.5	.0	.0	.0	3.5
1-2	.1	1.3	1.7	.0	.0	.0	3.1
3-4	.0	.5	1.4	.5	.0	.0	2.4
5-6	.0	.1	.7	.6	.4	.0	1.7
7	.0	.0	.3	.4	.1	.0	.8
8-9	.0	.0	.2	.8	.2	.0	1.3
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.1	.1
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.3	4.8	2.8	.9	.1	13.5

PERIOD: (OVER-ALL) 1963-1974 APRIL AREA 0016 WEST COAST KAMCHATKA

TABLE 18 (CONT) 53.9N 155.4E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.4	.1	.0	.0	.0	3.5
1-2	.0	2.5	2.1	.0	.0	.0	4.5
3-4	.0	.9	2.7	.5	.0	.0	4.1
5-6	.0	.3	1.2	.6	.0	.0	2.2
7	.0	.0	.6	.6	.1	.0	1.3
8-9	.0	.0	.0	.5	.2	.0	.7
10-11	.0	.0	.2	.4	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.1	.0	.2	.0	.0	.3
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	6.9	2.9	.4	.0	17.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.5	.2	.0	.0	.0	2.2
1-2	.0	1.6	.9	.0	.0	.0	2.5
3-4	.0	.5	2.2	.5	.0	.0	3.1
5-6	.0	*	.6	.0	.1	.0	.8
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.6	4.2	.9	.2	.0	9.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.1	2.1	1.4	.0	.0	.0	3.6
3-4	.1	.9	1.2	.1	.0	.0	2.3
5-6	.0	.2	.6	.1	.0	.0	.9
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.1	.0	.1	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.1	.0	.0	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	3.5	.7	.0	.0	9.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	2.9	.4	.0	.0	.0	3.7	
1-2	.0	2.5	1.9	.0	.0	.0	4.4	
3-4	.0	.6	1.0	*	.0	.0	1.7	
5-6	.0	.2	1.0	.3	.1	.0	1.6	
7	.0	*	.5	.1	.0	.0	.6	
8-9	.0	.0	.2	.2	.0	.0	.3	
10-11	.0	.0	*	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	6.2	5.0	1.0	.1	.0	12.7	91.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.8	19.3	2.2	.0	.0	.0	32.4	
1-2	.6	14.9	11.2	.0	.0	.0	27.0	
3-4	.2	4.9	12.6	1.8	.0	.0	19.6	
5-6	.0	.9	5.3	2.2	.6	.0	9.0	
7	.0	.1	2.0	2.2	.2	.0	4.6	
8-9	.0	.0	1.4	1.7	.5	.0	3.6	
10-11	.0	.0	.5	1.6	.0	.0	2.1	
12	.0	.1	.1	.1	.1	.1	.6	
13-16	.0	.1	.1	.6	.0	.0	.9	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.1	.0	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.9	40.4	35.5	10.5	1.6	.1	100.0	812

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.5	15.3	15.0	5.4	2.4	1.0	.4	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	425	3
6-7	.0	1.5	3.6	4.9	3.2	1.8	1.3	.3	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	168	6
8-9	.0	.5	.7	1.4	1.3	1.0	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	7
10-11	.0	1.6	.5	.3	.3	.1	.3	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	28	6
12-13	.0	.0	.5	.4	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	6
>13	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	7
INDET	11.7	3.9	5.3	4.3	1.4	.6	.6	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	273	2
TOTAL	148	217	250	165	85	48	34	9	12	3	1	1	0	1	0	0	0	0	0	974	4
PCT	15.2	22.3	25.7	16.9	8.7	4.9	3.5	.9	1.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	2.8	.2	.9	.0	3.0	.3	.0	7.2	.6	.0	15.6	.7	.2		.0	75.7
NE	10.7	.6	4.0	.0	4.8	.0	.0	20.1	1.8	.0	8.7	.3	.0		.0	69.1
E	21.5	.0	.0	.0	5.2	.0	.0	26.7	3.8	.0	2.8	.0	.0		.0	66.7
SE	15.8	.0	3.8	.0	9.4	.0	.0	29.0	3.7	.0	14.7	.0	1.1		.0	51.5
S	10.4	.0	4.0	.0	8.1	.2	.0	22.2	2.3	.0	26.4	.3	.2		.0	48.5
SW	2.6	.0	.3	.0	5.0	.0	.0	7.9	1.2	.0	22.8	.3	.9		.0	66.7
W	2.9	.6	.6	.0	8.9	.0	.0	11.8	2.9	.0	15.1	.0	.0		.0	70.2
NW	2.6	.0	1.6	.0	8.0	.0	.3	11.7	.7	.0	18.5	.4	.0		.0	68.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.7	1.6	2.7	.0	1.6	.0	.0	8.2	.0	.0	19.7	.0	6.0		.0	66.1
TOT PCT	7.0	.2	2.2	.0	6.1	.1	*	15.4	1.7	.0	18.2	.3	.7		.0	63.7
TOT OBS:	2640															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	5.2	.1	1.5	.0	5.7	.2	.0	12.4	1.5	.0	17.6	.4	1.0		.0	67.1
06&09	6.3	.2	1.9	.0	4.5	.0	.0	12.4	1.7	.0	19.3	.3	.9		.0	65.4
12&15	10.9	.3	2.5	.0	6.3	.0	.0	19.7	2.5	.0	15.6	.3	.6		.0	61.3
18&21	5.9	.4	3.6	.0	8.4	.2	.2	18.4	1.1	.0	20.5	.2	.4		.0	59.5
TOT PCT	6.9	.2	2.2	.0	6.1	.1	*	15.3	1.7	.0	18.1	.3	.8		.0	63.8
TOT OBS:	2723															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	4.6	10.8	6.2	1.2	.0	*		22.9	9.2	20.0	25.7	25.4	24.6	24.2	25.3	19.7	20.3
NE	1.7	3.3	1.2	.4	.0	.0		6.6	8.2	6.7	5.7	3.6	5.1	6.7	7.3	10.7	7.1
E	1.5	2.0	.8	.1	.1	.0		4.4	7.6	4.1	3.7	2.9	4.2	4.5	6.0	5.8	5.1
SE	1.6	3.5	3.0	1.6	.1	.0		9.8	12.4	7.1	8.4	9.5	10.7	8.2	11.6	11.7	15.1
S	2.9	7.3	8.9	3.1	*	.0		22.2	12.6	27.4	21.7	21.8	20.1	19.0	19.3	23.5	20.2
SW	1.6	4.0	2.0	.7	.0	.0		8.3	9.6	7.1	10.7	9.2	9.2	7.1	7.8	8.1	8.0
W	1.5	2.7	1.1	.5	.1	.0		5.9	9.4	5.9	7.4	5.5	7.0	5.9	6.2	4.1	5.0
NW	2.7	6.5	3.6	.7	.1	.0		13.5	9.0	10.3	15.2	17.3	16.4	14.3	13.9	8.8	14.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0	11.3	1.5	4.9	2.7	10.1	2.6	7.6	5.3
TOT OBS	712	1171	783	243	15	1	2925		9.6	586	336	385	301	397	302	354	264
TOT PCT	24.3	40.0	26.8	8.3	.5	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	10.0	9.6	3.2	.2	*		22.9	9.2	22.1	25.0	24.7	19.9
NE	3.8	2.0	.7	.2	.0		6.6	8.2	6.3	4.3	7.0	9.2
E	2.7	1.3	.3	.2	.0		4.4	7.6	4.0	3.4	5.2	5.5
SE	3.4	3.5	2.0	.9	.0		9.8	12.4	7.6	10.0	9.7	13.1
S	6.3	8.7	6.2	.9	*		22.2	12.6	25.4	21.1	19.1	22.1
SW	3.6	3.1	1.4	.1	.0		8.3	9.6	8.4	9.2	7.4	8.1
W	2.9	2.1	.5	.4	.0		5.9	9.4	6.5	6.1	6.0	4.5
NW	6.5	5.2	1.5	.2	.0		13.5	9.0	12.1	16.9	14.1	11.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.4						6.4	.0	7.7	3.9	6.9	6.6
TOT OBS	1334	1040	461	88	2	2925		9.6	922	686	699	618
TOT PCT	45.6	35.6	15.8	3.0	.1		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.7	15.8	41.4	27.4	7.4	.2	.0	9.4	100.0	922
06&09	3.9	17.1	38.6	29.4	10.2	.7	.0	10.4	100.0	686
12&15	6.9	18.7	40.3	24.2	9.0	.7	.1	9.5	100.0	699
18&21	6.6	21.2	39.2	25.7	6.8	.5	.0	9.0	100.0	618
TOT	187	525	1171	783	243	15	1	9.6		2925
PCT	6.4	17.9	40.0	26.8	8.3	.5	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.2	2.4	3.9	8.3		5.3
NE	1.0	.4	1.6	3.7		6.3
E	.3	.3	.7	2.0		6.7
SE	.6	.4	1.5	7.7		7.2
S	1.6	.5	2.9	18.5		7.2
SW	1.6	.4	1.3	5.1		6.1
W	1.0	.3	1.2	3.5		6.2
NW	2.7	1.1	1.8	7.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.4	.4	2.3	5.2		6.3
TOT OBS	245	97	276	978	1596	6.3
TOT PCT	15.4	6.1	17.3	61.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.7	.2	.6	1.0	2.3	2.0	1.2	.4	.3	.1	8.8	
NE	.6	.0	.1	.8	1.6	1.0	.2	.1	.4	.0	1.9	
E	.3	.0	.1	.1	.7	1.1	.1	.0	.1	.1	.8	
SE	2.4	.1	*	1.7	2.6	1.7	.3	.0	.1	.0	1.4	
S	7.6	.3	.5	2.4	3.9	4.2	1.1	.2	.3	.1	3.0	
SW	2.0	.0	.1	.9	1.6	1.3	.3	*	.2	.0	2.4	
W	1.4	.0	*	.6	1.0	.8	.5	.0	.1	.0	1.5	
NW	2.9	.0	.1	1.1	2.5	1.1	.3	.1	.3	.0	4.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1	.0	.1	.2	2.0	1.4	.4	.2	.2	.1	2.6	
TOT OBS	354	9	25	136	288	233	68	14	32	6	431	1596
TOT PCT	22.2	.6	1.6	8.5	18.0	14.6	4.3	.9	2.0	.4	27.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.0	2.3	2.4	2.5	2.5	2.5	2.5	2.5
* OR >5000	2.2	2.8	3.3	3.3	3.3	3.3	3.3	3.3
* OR >3500	4.5	6.6	7.2	7.5	7.5	7.5	7.5	7.5
* OR >2000	12.1	18.2	20.7	21.6	21.9	21.9	21.9	21.9
* OR >1000	17.0	28.5	36.2	38.4	39.2	39.7	39.7	39.7
* OR >600	17.5	31.1	42.2	45.6	46.7	47.7	47.7	47.7
* OR >300	17.5	31.7	43.5	47.0	48.2	49.2	49.3	49.4
* OR >150	17.6	31.9	43.9	47.4	48.6	49.8	49.8	49.9
* OR > 0	17.8	33.2	46.7	52.3	55.9	62.9	72.0	72.5
TOTAL	288	537	756	846	905	1019	1165	1174

TOTAL NUMBER OF OBS: 1619

PCT FREQ NH <5/8: 27.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.4	5.3	6.1	3.0	4.2	3.3	6.0	6.9	36.4	20.5	1768

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.2	.3	.6	1.4	.2	.3	.3	.0	.1	3.6	
<1/2	NO PCP	2.7	.3	.1	1.0	4.2	1.4	.6	1.8	.0	1.0	13.0	
	TOT %	2.9	.4	.4	1.6	5.6	1.6	.9	2.1	.0	1.1	16.6	
	PCP	.1	.1	.2	.6	.9	.1	.1	.4	.0	*	2.4	
1/2<1	NO PCP	.2	*	*	.1	.6	.2	.1	.2	.0	.2	1.7	
	TOT %	.2	.2	.2	.7	1.5	.2	.2	.5	.0	.3	4.1	
	PCP	.4	.3	.1	.6	.9	.2	.1	.3	.0	.1	3.0	
1<2	NO PCP	.3	.1	*	.4	.6	.1	.1	.3	.0	.1	2.0	
	TOT %	.7	.4	.1	1.0	1.5	.3	.2	.6	.0	.2	4.9	
	PCP	.4	.2	.3	.7	1.0	.1	.2	.4	.0	.2	3.5	
2<5	NO PCP	1.2	.4	.1	1.2	2.2	.7	.7	.9	.0	.7	8.1	
	TOT %	1.7	.6	.4	1.8	3.2	.8	.9	1.3	.0	.9	11.6	
	PCP	.4	.5	.1	.3	.7	.1	*	.2	.0	.2	2.5	
5<10	NO PCP	6.3	1.4	1.0	2.6	4.9	2.4	2.0	4.1	.0	1.0	25.8	
	TOT %	7.0	2.0	1.1	2.9	5.5	2.5	2.0	4.2	.0	1.1	28.3	
	PCP	.1	*	.1	.1	.2	*	*	*	.0	.1	.7	
10+	NO PCP	9.7	3.0	1.7	1.9	4.9	2.7	1.9	4.5	.0	3.4	33.7	
	TOT %	9.8	3.0	1.8	1.9	5.1	2.8	1.9	4.5	.0	3.5	34.4	
	TOT OBS												2830
	TOT PCT	22.2	6.6	4.0	10.0	22.4	8.2	6.2	13.3	.0	7.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	1.0	.2	.3	.3	.6	.5	.1	.6	.0	1.1	4.8	
<1/2	4-10	1.9	.3	.2	.8	1.5	.8	.7	1.0	.0		7.1	
	11-21	.6	*	.1	.4	2.5	.3	*	.7	.0		4.7	
	22+	*	*	.0	.2	1.0	.1	.1	*	.0		1.4	
	TOT %	3.6	.6	.6	1.7	5.6	1.7	.9	2.4	.0	1.1	18.0	
	0-3	*	*	.1	.1	.1	.1	.1	.1	.0	.2	.9	
1/2<1	4-10	.1	*	.1	.2	.4	.1	.1	.2	.0		1.2	
	11-21	*	.0	*	.2	.7	.1	.1	.1	.0		1.3	
	22+	*	.1	.0	.2	.2	.0	*	*	.0		.6	
	TOT %	.2	.2	.2	.7	1.4	.3	.2	.5	.0	.2	4.0	
	0-3	.1	.1	.1	.2	.1	*	*	.1	.0	.1	.8	
1<2	4-10	.4	.3	.1	.3	.5	.2	.1	.4	.0		2.3	
	11-21	.2	.1	*	.3	.6	.2	*	.1	.0		1.6	
	22+	.1	.0	.0	.3	.2	.1	.1	.2	.0		.9	
	TOT %	.9	.5	.2	1.0	1.5	.4	.3	.7	.0	.1	5.6	
	0-3	.8	.3	.2	.2	.5	.3	.2	.4	.0	.9	3.7	
2<5	4-10	1.3	.4	.3	.6	1.2	.7	.3	1.0	.0		5.7	
	11-21	.7	.1	.1	.8	1.7	.1	.4	.5	.0		4.4	
	22+	.1	.1	.2	.5	.3	.1	.1	.2	.0		1.7	
	TOT %	3.0	.9	.7	2.1	3.8	1.2	1.0	2.0	.0	.9	15.5	
	0-3	1.2	.4	.4	.4	.8	.1	.4	.7	.0	1.0	5.4	
5<10	4-10	2.7	.8	.4	.9	1.9	1.1	.7	2.1	.0		10.6	
	11-21	1.9	.3	.2	.9	1.8	.7	.4	1.0	.0		7.2	
	22+	.5	.2	*	.4	.7	.4	.3	.1	.0		2.6	
	TOT %	6.3	1.7	1.0	2.6	5.2	2.2	1.8	3.9	.0	1.0	25.7	
	0-3	1.3	.5	.3	.4	.6	.6	.7	.9	.0	3.1	8.5	
10+	4-10	4.4	1.5	1.0	.9	1.8	1.2	.9	1.8	.0		13.5	
	11-21	2.8	.7	.3	.4	1.6	.6	.1	1.1	.0		7.6	
	22+	.5	*	.0	*	.6	.1	.0	.1	.0		1.5	
	TOT %	9.0	2.7	1.7	1.8	4.7	2.5	1.7	3.9	.0	3.1	31.1	
	TOT OBS												2859
	TOT PCT	23.0	6.6	4.4	9.8	22.1	8.4	5.9	13.4	.0	6.4	100.0	

MAY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	16.2	.3	2.1	8.2	17.0	20.5	5.1	.8	2.8	.3	73.4	26.6	610
06&09	19.9	1.0	1.5	9.6	17.9	11.0	3.7	1.0	.7	.5	66.7	33.3	408
12&15	31.3	.3	.6	6.6	12.3	8.7	2.4	.9	1.8	.6	65.7	34.3	332
18&21	25.5	.6	1.8	8.9	23.7	12.0	4.6	.6	2.5	.3	80.6	19.4	325
TOT	367	9	27	140	295	238	69	14	34	7	1200	475	1675
PCT	21.9	.5	1.6	8.4	17.6	14.2	4.1	.8	2.0	.4	71.6	28.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	16.3	4.0	5.7	12.8	22.9	38.3	959
06&09	18.6	3.3	4.8	15.0	26.1	32.3	694
12&15	17.8	3.9	5.4	17.5	29.1	26.4	709
18&21	20.4	5.1	6.5	17.1	25.3	25.8	633
TOT	540	121	167	459	767	941	2995
PCT	18.0	4.0	5.6	15.3	25.6	31.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	16.7	22.7	41.4	35.0	23.6	594
06&09	20.8	25.7	44.2	25.1	30.7	394
12&15	33.3	35.6	52.6	19.6	27.9	312
18&21	25.7	30.1	53.0	29.2	17.9	319
TOT	367	443	753	461	405	1619
PCT	22.7	27.4	46.5	28.5	25.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.5	.0	.0	.0	.0	.0	2	.5
45/49	.0	.0	.0	.2	.7	.2	1.7	.5	14	3.3
40/44	.0	.0	.0	.0	.2	3.8	5.9	4.5	61	14.4
35/39	.0	.0	.0	.2	.2	1.2	9.2	25.7	155	36.6
30/34	.0	.0	.0	.0	.2	1.2	5.2	34.4	174	41.0
25/29	.0	.0	.0	.0	.0	.0	.2	4.0	18	4.2
TOTAL	0	0	2	2	6	27	94	293	424	100.0
PCT	.0	.0	.5	.5	1.4	6.4	22.2	69.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0
	1.1	.1	.2	.5	.2	.0	.2	.5	.0	.5
	2.2	.8	.2	2.3	6.1	.4	.0	1.3	.0	1.2
	6.3	2.7	1.7	3.5	11.5	2.5	1.1	3.4	.0	4.0
	6.5	2.2	.4	5.4	12.4	4.7	3.5	5.2	.0	.7
	2.2	.0	.0	.0	.2	.7	.0	.4	.0	.7
	18.4	5.8	2.5	11.6	30.5	8.6	4.8	10.7	.0	7.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	64	55	48	37	32	28	26	38.6	965
06&09	64	54	46	37	31	29	28	37.9	698
12&15	50	44	41	36	30	28	23	35.5	713
18&21	63	46	43	36	30	27	24	35.5	634
TOT	64	54	46	36	30	28	23	37.0	3010

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.9	2.8	10.1	23.9	62.4	90	109
06&09	.0	.0	.8	9.0	27.0	63.1	91	122
12&15	.0	1.0	1.0	1.0	19.2	77.9	93	104
18&21	.0	2.1	1.0	5.2	16.5	75.3	93	97
TOT	0	4	6	28	95	299	92	432

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1937-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.4E

TABLE 17

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

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	4	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	6	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	4	.0	.2
14/16	.0	.0	.0	.0	.0	.1	.2	.3	.5	.0	.0	19	.1	.9
11/13	.0	.0	.0	.0	.0	.2	1.5	.7	.3	.0	.0	52	.4	2.2
9/10	.0	.0	.0	.0	.2	.9	1.6	.2	.1	.0	.0	59	.6	2.4
7/8	.0	.0	.0	.1	.6	2.3	1.3	.1	.1	.0	.0	87	.6	3.8
6	.0	.0	.0	.1	2.0	.8	.1	.0	.0	.0	.0	58	.2	2.7
5	.0	.0	.0	.6	3.3	3.4	.9	.1	.0	.0	.0	163	1.0	7.2
4	.0	.0	.1	1.7	4.9	2.4	.7	.0	.0	.0	.0	192	1.2	8.5
3	.0	.0	.1	1.7	1.4	.4	.1	.0	.0	.0	.0	73	.6	3.1
2	.0	.0	.6	7.7	6.2	2.2	.2	.0	.0	.0	.0	335	3.7	13.2
1	.0	.0	.9	4.5	1.8	.5	.0	.0	.0	.0	.0	132	1.9	5.8
0	.0	.2	3.4	9.1	4.0	1.0	.2	.1	.0	.0	.0	355	3.4	14.5
-1	.0	.1	2.1	2.0	.9	.2	.1	.0	.0	.0	.0	103	1.3	3.9
-2	.0	.3	2.5	3.0	1.3	.2	.1	.0	.0	.0	.0	144	1.5	5.8
-3	.0	.2	.6	.9	.4	.0	.0	.0	.0	.0	.0	29	.6	1.4
-4	.0	.2	1.1	1.3	.3	.1	.0	.0	.0	.0	.0	59	.7	2.3
-5	.0	.3	.9	.6	.3	.0	.0	.0	.0	.0	.0	40	.4	1.7
-6	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.0	8	.2	.3
-7/-8	.1	.3	.1	.3	.1	.3	.0	.0	.0	.0	.0	21	.2	.9
-9/-10	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.2
-11/-13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.1	.0
-14/-16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	35	241	665	545	297	136	26	21	3	8	1979	366	1613
PCT	.1	1.8	12.2	33.6	27.5	15.0	6.9	1.3	1.1	.2	.4	100.0	18.5	81.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.6	.4	.0	.0	.0	4.8
1-2	.2	3.2	3.5	.0	.0	.0	7.0
3-4	.0	.6	2.0	.1	.0	.0	2.9
5-6	.1	.1	1.3	.9	.0	.0	2.4
7	.0	.0	1.2	.7	.0	.0	1.9
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.1	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.8	8.4	2.5	.0	.1	19.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.2	.0	.0	.0	2.3
1-2	.1	1.3	.4	.0	.0	.0	1.8
3-4	.0	.2	.6	.2	.0	.0	1.1
5-6	.0	.0	.1	.2	.0	.0	.3
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.3	1.5	.5	.0	.0	5.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.2	.0	.0	.0	1.8
1-2	.1	.4	.4	.0	.0	.0	.9
3-4	.1	.1	.2	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.8	.9	.1	.0	.0	3.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.1	.0	.0	.0	2.3
1-2	.1	1.4	1.3	.0	.0	.0	2.8
3-4	.0	*	.8	.5	.0	.0	1.3
5-6	.0	.1	.5	.5	.0	.0	1.1
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.1	2.7	1.2	.0	.0	7.8

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.7	.8	.0	.0	.0	5.3	.8	2.4	.5	.0	.0	.0	3.7
1-2	.1	3.1	2.5	.0	.0	.0	5.7	.1	1.3	.8	.0	.0	.0	2.1
3-4	.0	1.5	4.5	1.4	.0	.0	7.3	.0	.0	.5	.1	.0	.0	.6
5-6	.0	.3	2.3	1.0	.0	.0	3.6	.0	.1	.4	*	.0	.0	.5
7	.0	.0	1.5	1.9	.0	.0	3.4	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.7	.3	.0	.0	1.0	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	*	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.5	12.5	5.0	.0	.0	27.1	.9	3.8	2.5	.7	.0	.0	7.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.1	.1	.0	.0	.0	1.4	.4	2.6	.2	.0	.0	.0	3.1	
1-2	.2	1.7	.6	.0	.0	.0	2.4	.1	2.1	2.0	.0	.0	.0	4.3	
3-4	.0	.1	.6	.0	.0	.0	.7	.0	.8	1.8	.3	.0	.0	2.9	
5-6	.1	.0	.2	.1	.0	.0	.4	*	.4	1.4	.2	.0	.0	2.1	
7	.0	.0	.1	.0	.0	.0	.1	.0	.1	.1	.1	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.0	1.6	.1	.0	.0	5.1	.6	6.2	5.7	.8	.1	.0	13.3	89.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.2	17.9	2.4	.0	.0	.0	34.5	
1-2	1.2	14.6	11.4	.0	.0	.0	27.2	
3-4	.2	3.5	11.0	2.6	.0	.0	17.3	
5-6	.2	1.1	6.1	3.0	.0	.0	10.4	
7	.0	.1	3.3	3.2	.0	.0	6.6	
8-9	.0	.1	1.0	.7	.0	.0	1.8	
10-11	.0	.0	.5	.9	.1	.0	1.5	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.1	.0	.1	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.1	.0	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								936
TOT PCT	15.8	37.5	35.7	10.8	.1	.1	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	13.1	10.8	5.4	2.6	.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	486	3
6-7	.0	2.1	3.0	3.4	2.7	1.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	5
8-9	.0	.5	.7	1.5	1.8	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	6
10-11	.0	.6	.2	.3	.5	.2	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	29	8
12-13	.0	.0	1.6	.4	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	4
>13	.0	.0	.0	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
INDET	10.4	3.7	9.6	9.6	3.7	.6	.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	488	3
TOTAL	195	256	333	269	150	40	27	7	5	1	1	0	1	0	0	0	0	0	0	1285	4
PCT	15.2	19.9	25.9	20.9	11.7	3.1	2.1	.5	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.4	.2	1.0	.0	.0	.0	.0	6.5	.4	.0	25.7	.2	.2	.0		67.0
NE	12.7	.0	.8	.0	.0	.0	.0	13.5	.0	.0	19.0	1.5	.0	.0		66.0
E	14.3	.0	5.2	.0	.0	.0	.0	19.5	.0	.0	9.5	.0	.0	.0		71.0
SE	24.1	.0	4.6	.0	.0	.0	.0	28.5	2.3	.0	17.2	.3	.0	.0		51.6
S	22.3	.2	4.7	.0	.6	.0	.0	27.6	1.8	.0	18.7	1.2	.2	.1		50.3
SW	9.2	.4	2.0	.0	.1	.0	.0	11.7	.6	.0	21.5	.5	.6	.0		65.1
W	5.7	.0	2.0	.0	.0	.0	.0	7.8	.2	.0	25.0	1.4	.3	.0		65.2
NW	5.8	.2	1.0	.0	.0	.0	.0	7.0	.8	.0	28.1	.8	.2	.0		63.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.0	.0	1.2	.0	.0	.0	.0	4.1	.6	.0	30.8	.6	.0	.0		63.9
TOT PCT	11.7	.2	2.4	.0	.2	.0	.0	14.4	.9	.0	23.0	.8	.2	*		60.7
TOT OBS:	3189															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	10.4	.0	1.9	.0	.2	.0	.0	12.3	1.2	.0	21.9	.9	.1	.0		63.6
06&09	12.4	.1	1.3	.0	.1	.0	.0	14.2	.7	.0	19.5	.4	.1	.0		65.1
12&15	13.3	.1	2.8	.0	.1	.0	.0	16.7	.4	.0	20.1	.8	.3	.0		61.8
18&21	11.2	.1	3.6	.0	.1	.0	.0	15.1	1.3	.0	31.5	.8	.4	.1		50.8
TOT PCT	11.7	.2	2.4	.0	.2	.0	.0	14.4	.9	.0	23.1	.7	.2	*		60.6
TOT OBS:	3214															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.4	11.6	4.0	.6	.0	.0		19.6	8.3	14.8	17.9	20.2	21.5	22.8	21.1	17.5	22.2
NE	1.4	2.2	.4	*	.0	.0		4.0	5.9	3.2	2.4	2.2	3.5	4.4	6.4	4.2	6.5
E	.7	.8	.3	.0	.0	.0		1.8	6.1	1.8	.8	.7	1.3	1.5	2.5	2.9	2.9
SE	1.1	2.9	1.5	.6	*	.0		6.1	10.2	4.8	4.1	2.9	5.3	8.1	8.1	7.8	8.7
S	2.8	10.2	9.0	3.2	.2	.0		25.5	12.3	25.3	26.8	21.5	21.2	21.7	26.4	28.1	32.6
SW	2.6	7.0	1.9	.1	*	.0		11.7	7.3	13.9	14.1	15.2	10.0	11.8	8.5	12.6	6.9
W	2.4	6.1	.8	*	.0	.0		9.3	5.9	9.9	11.8	13.1	10.8	7.4	8.0	7.9	5.0
NW	3.4	10.4	3.3	.3	.1	.0		17.5	7.6	16.1	19.5	20.9	24.4	17.2	16.6	13.0	11.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	10.2	2.6	3.2	2.1	5.1	2.5	6.0	3.3
TOT OBS	789	1806	742	173	12	0	3522		8.4	537	498	409	430	390	443	397	418
TOT PCT	22.4	51.3	21.1	4.9	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	9.6	7.9	1.9	.1	.0		19.6	8.3	16.3	20.9	21.9	19.9
NE	2.6	1.2	.2	.0	.0		4.0	5.9	2.8	2.9	5.4	5.3
E	1.1	.6	.1	.0	.0		1.8	6.1	1.3	1.0	2.0	2.9
SE	2.3	2.6	1.0	.1	.0		6.1	10.2	4.5	4.1	8.1	8.3
S	7.1	11.1	5.9	1.3	.1		25.5	12.3	26.0	21.4	24.2	30.4
SW	6.3	4.7	.7	*	.0		11.7	7.3	14.0	12.5	10.0	9.7
W	6.4	2.7	.2	.0	.0		9.3	5.9	10.8	11.9	7.7	6.4
NW	9.3	7.0	1.0	.2	.0		17.5	7.6	17.7	22.7	16.9	12.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	6.6	2.6	3.7	4.7
TOT OBS	1738	1337	385	60	2	3522		8.4	1035	839	833	815
TOT PCT	49.3	38.0	10.9	1.7	.1		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.6	16.8	50.6	20.6	5.2	.2	.0	8.2	100.0	1035
06&09	2.6	13.7	53.8	25.3	4.4	.2	.0	9.1	100.0	839
12&15	3.7	18.8	51.9	20.6	4.6	.4	.0	8.4	100.0	833
18&21	4.7	22.6	49.0	17.8	5.4	.6	.0	8.0	100.0	815
TOT	159	630	1806	742	173	12	0	8.4		3522
PCT	4.5	17.9	51.3	21.1	4.9	.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.5	3.9	11.0		6.2
NE	.3	*	1.5	2.3		6.9
E	.2	.1	.3	1.1		6.5
SE	*	.7	1.3	4.4		7.1
S	.9	.7	3.1	10.6		7.4
SW	.4	.3	1.6	7.8		7.3
W	.9	.6	2.1	6.7		6.7
NW	2.1	1.0	3.1	11.2		6.6
VAR	.0	.0	.0	.0		.0
CALM	.7	.5	1.6	4.8		6.6
TOT OBS	160	101	346	1277	1884	
TOT PCT	8.5	5.4	18.4	67.8	100.0	6.8

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	4.0	.1	.5	2.1	3.3	2.1	.7	.5	.2	.1	5.7	
NE	.4	.0	*	.8	1.0	.7	.3	.1	.1	.0	.7	
E	.1	.1	.0	.1	.4	.2	*	.1	.0	.0	.6	
SE	1.0	.2	.7	1.0	1.6	.2	.2	.1	.0	.0	1.4	
S	5.3	.2	1.6	3.1	5.5	2.5	1.0	.2	.3	.0	3.5	
SW	1.4	.1	.5	.8	2.9	1.8	.5	.2	.2	.0	1.8	
W	2.2	.0	.2	1.0	2.2	1.3	.5	.2	.2	.0	2.4	
NW	3.3	.2	.4	1.5	4.1	2.5	.6	.1	.3	.1	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	.1	.2	.4	1.8	1.0	.3	.3	.2	.1	1.6	
TOT OBS	366	17	78	203	431	231	76	32	28	4	418	1884
TOT PCT	19.4	.9	4.1	10.8	22.9	12.3	4.0	1.7	1.5	.2	22.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.6	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	2.2	2.8	3.2	3.2	3.2	3.4	3.4	3.4
* OR >3500	4.5	6.3	7.0	7.1	7.1	7.3	7.4	7.4
* OR >2000	9.6	16.1	18.6	19.1	19.2	19.6	19.8	19.8
* OR >1000	14.4	31.2	39.6	40.8	41.6	42.6	42.9	43.0
* OR >600	16.3	36.1	48.3	50.3	51.2	52.6	53.0	53.1
* OR >300	16.7	37.8	51.1	53.7	54.9	56.5	57.0	57.0
* OR >150	16.7	37.8	51.2	54.3	55.7	57.4	57.8	57.9
* OR > 0	16.8	38.0	52.0	56.1	58.5	68.7	75.9	77.5
TOTAL	310	703	961	1037	1082	1214	1402	1432

TOTAL NUMBER OF OBS: 1848 PCT FREQ NH <5/8: 22.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.7	3.8	3.9	3.6	3.8	4.0	7.4	8.4	39.8	18.5	1960

JUNE

PERIOD: (PRIMARY) 1939-1974
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AREA 0016 WEST COAST KAMCHATKA
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	*	*	1.0	.2	.1	.1	.0	.0	1.5	
	NO PCP	3.5	.5	.1	.7	3.6	1.6	1.9	3.1	.0	1.3	16.2	
	TOT %	3.7	.5	.1	.7	4.5	1.8	1.9	3.2	.0	1.3	17.7	
1/2<1	PCP	.2	.0	.0	.2	1.2	*	.1	.1	.0	.0	1.7	
	NO PCP	.7	.1	*	.1	.6	.3	.2	.7	.0	.1	2.7	
	TOT %	.8	.1	*	.3	1.8	.3	.3	.8	.0	.1	4.4	
1<2	PCP	.2	.1	.1	.5	2.0	.3	.1	.2	.0	.0	3.5	
	NO PCP	.4	*	*	.2	.6	.1	.1	.3	.0	.1	1.8	
	TOT %	.6	.2	.1	.7	2.6	.4	.2	.5	.0	.1	5.3	
2<5	PCP	.2	.1	.1	.6	1.8	.4	.3	.3	.0	.0	3.8	
	NO PCP	1.3	.3	.3	.5	1.9	.9	.9	.9	.0	.6	7.5	
	TOT %	1.5	.4	.4	1.1	3.6	1.3	1.3	1.2	.0	.6	11.4	
5<10	PCP	.3	.2	.1	.1	.7	.3	.1	.1	.0	.2	2.2	
	NO PCP	5.0	1.1	.4	1.3	5.3	3.4	2.4	4.5	.0	1.1	24.6	
	TOT %	5.3	1.4	.5	1.4	6.0	3.7	2.5	4.7	.0	1.3	26.8	
10+	PCP	.3	.1	.1	.3	.5	.1	.1	.3	.0	*	1.8	
	NO PCP	7.7	1.5	.5	1.6	6.4	3.5	3.4	5.9	.0	2.0	32.6	
	TOT %	8.1	1.7	.6	1.9	6.9	3.6	3.5	6.2	.0	2.1	34.4	
	TOT OBS												3153
	TOT PCT	20.0	4.1	1.6	6.1	25.4	11.1	9.6	16.6	.0	5.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.4	.2	.1	.2	.6	.6	.3	.4	.0	.9	3.9	
	4-10	2.2	.3	.2	.3	1.7	1.3	1.2	1.9	.0		9.1	
	11-21	.5	*	.0	.1	1.3	.2	.2	.7	.0		3.0	
	22+	.0	*	.0	.1	.9	*	.0	.0	.0		1.1	
	TOT %	3.2	.5	.3	.9	4.5	2.2	1.7	3.0	.0	.9	17.2	
1/2<1	0-3	.3	.1	.0	.1	.3	.1	*	.2	.0	.1	1.1	
	4-10	.5	*	*	*	.5	.2	.2	.5	.0		1.9	
	11-21	.1	.0	.0	.1	.5	*	*	.2	.0		.9	
	22+	.0	.0	.0	.1	.4	.0	.0	.0	.0		.5	
	TOT %	.9	.1	*	.3	1.7	.3	.3	.9	.0	.1	4.4	
1<2	0-3	.3	*	.1	.0	.2	.2	.2	.5	.0	.2	1.7	
	4-10	.5	.2	*	.4	.9	.3	.1	.6	.0		3.1	
	11-21	.1	*	.0	.3	1.2	.1	.1	.1	.0		1.8	
	22+	*	.0	.0	.1	.6	.0	*	*	.0		.8	
	TOT %	.9	.2	.1	.8	2.9	.6	.4	1.3	.0	.2	7.4	
2<5	0-3	.4	.1	.2	.1	.4	.4	.4	.8	.0	.6	3.5	
	4-10	1.7	.3	.2	.5	1.6	1.1	1.2	1.9	.0		8.4	
	11-21	.5	.1	.1	.5	2.2	.6	.2	.3	.0		4.6	
	22+	.1	*	.0	.2	.7	*	.0	.1	.0		1.1	
	TOT %	2.7	.5	.4	1.3	4.8	2.1	1.9	3.1	.0	.6	17.6	
5<10	0-3	.7	.4	.2	.2	.5	.5	.5	.6	.0	1.0	4.6	
	4-10	2.6	.6	.2	.8	2.4	2.2	1.4	2.7	.0		12.9	
	11-21	1.0	.2	.1	.3	2.1	.5	.2	.6	.0		5.0	
	22+	.3	.0	.0	.1	.4	.1	*	.2	.0		1.0	
	TOT %	4.7	1.2	.4	1.3	5.4	3.3	2.1	4.1	.0	1.0	23.4	
10+	0-3	1.2	.6	.2	.4	.9	.8	.9	.9	.0	1.7	7.7	
	4-10	4.1	.7	.3	.8	3.2	2.0	2.0	2.9	.0		16.0	
	11-21	1.6	.1	.1	.2	1.6	.5	.1	1.4	.0		5.6	
	22+	.2	.0	.0	.1	.4	*	.0	.1	.0		.8	
	TOT %	7.1	1.5	.5	1.6	6.1	3.3	3.0	5.3	.0	1.7	30.0	
	TOT OBS												3446
	TOT PCT	19.5	4.0	1.8	6.1	25.4	11.7	9.4	17.6	.0	4.6	100.0	

JUNE

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.5E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	16.0	.8	4.0	10.3	22.1	14.5	5.5	1.2	3.3	.3	78.0	22.0	601
06&09	14.0	.7	3.5	9.6	22.1	13.3	4.8	2.0	.4	.2	70.5	29.5	458
12&15	22.9	.2	5.0	11.1	23.2	9.0	1.7	2.6	.7	.2	76.6	23.4	423
18&21	26.7	1.9	4.0	11.8	24.1	11.3	3.3	1.2	.7	.0	85.1	14.9	423
TOT	370	17	78	203	434	234	76	32	28	4	1476	429	1905
PCT	19.4	.9	4.1	10.7	22.8	12.3	4.0	1.7	1.5	.2	77.5	22.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	16.0	3.9	5.7	16.7	21.8	35.9	1074
06&09	14.0	4.8	5.4	18.2	23.9	33.9	859
12&15	17.4	4.1	9.0	17.3	26.1	26.2	852
18&21	23.2	5.0	9.3	16.4	22.4	23.7	840
TOT	635	160	262	620	849	1099	3625
PCT	17.5	4.4	7.2	17.1	23.4	30.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	16.4	25.0	46.0	34.9	19.1	585
06&09	14.5	21.7	43.3	31.5	25.2	448
12&15	23.5	30.9	49.9	29.4	20.7	405
18&21	27.1	37.3	58.5	27.6	13.9	410
TOT	367	521	905	577	366	1848
PCT	19.9	28.2	49.0	31.2	19.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.1	.3	.5	.6	.2	15	1.7
50/54	.0	.0	.0	.0	.7	2.4	5.4	3.5	104	12.0
45/49	.0	.0	.0	.1	.5	1.8	15.0	25.3	370	42.7
40/44	.0	.0	.0	.0	.0	.5	5.4	29.7	308	35.6
35/39	.0	.0	.0	.0	.0	.1	1.2	6.5	67	7.7
30/34	.0	.0	.0	.0	.0	.0	.0	.2	2	.2
TOTAL	0	0	0	2	13	46	239	566	866	100.0
PCT	.0	.0	.0	.2	1.5	5.3	27.6	65.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.1	.3	.2	.2	.2	.0	.5
2.2	1.1	.3	.4	1.8	.7	1.3	2.5	.0	1.7
8.8	2.0	1.2	4.2	7.9	3.6	5.3	7.2	.0	2.5
6.0	.7	.2	3.1	12.6	3.4	2.7	6.6	.0	.3
1.6	.2	.1	.3	1.0	.8	1.3	1.9	.0	.6
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
19.1	4.0	1.7	8.1	23.5	8.7	10.8	18.5	.0	5.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	68	61	57	46	37	35	32	46.6	1074
06&09	68	57	54	46	37	34	33	45.6	868
12&15	59	52	50	43	36	34	30	43.2	875
18&21	57	54	50	43	37	34	32	43.4	854
TOT	68	59	54	45	37	34	30	44.8	3671

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.5	2.7	10.4	33.5	52.9	89	221
06&09	.0	.5	2.7	6.8	31.1	58.9	90	219
12&15	.0	.0	.4	1.3	26.9	71.4	93	234
18&21	.0	.0	.0	2.5	18.3	79.2	94	197
TOT	0	2	13	46	241	569	91	871

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.9E

TABLE 17

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

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	3	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	*	.1	.0	4	.0	.2
14/16	.0	.0	.0	.0	.1	.3	.1	.2	.2	.0	22	.2	.7
11/13	.0	.0	.0	.0	.6	.9	1.1	.9	.3	.0	96	.7	3.1
9/10	.0	.0	.0	.1	.9	1.1	1.4	.2	*	.0	93	.4	3.3
7/8	.0	.0	*	.8	1.8	1.8	1.0	.1	.0	.0	141	1.0	4.6
6	.0	.0	.0	.1	.4	.5	.1	.0	*	.0	30	.3	.9
5	.0	.0	.3	1.4	3.0	2.5	.8	.0	.0	.0	205	1.1	7.0
4	.0	.1	.8	2.0	5.4	2.1	.4	.0	.0	.0	273	1.6	9.2
3	.0	.0	.2	.8	1.9	.6	*	.0	.0	.0	93	.5	3.2
2	.0	.7	2.1	4.5	7.4	1.8	*	.0	.0	.0	418	3.2	13.2
1	.0	.0	.7	2.0	1.6	.6	*	.0	.0	.0	126	1.0	4.0
0	*	.7	3.0	5.9	7.6	.4	.0	.0	.0	.0	449	4.9	12.8
-1	.0	.2	1.1	2.1	1.8	.1	*	.0	.0	.0	135	2.2	3.1
-2	.0	.8	2.0	3.3	3.0	.1	.0	.0	.0	.0	232	2.4	6.8
-3	.0	.2	.9	.6	.2	*	.0	.0	.0	.0	45	.6	1.2
-4	.2	.2	1.0	1.0	.6	.0	.0	.0	.0	.0	76	1.5	1.5
-5	*	.2	1.4	.6	.2	.0	.0	.0	.0	.0	61	1.0	1.4
-6	.0	*	.2	.1	*	.0	.0	.0	.0	.0	10	.2	.2
-7/-8	.1	*	.4	.1	.0	*	.0	.0	.0	.0	17	.4	.3
-9/-10	.0	*	.1	*	.0	.0	.0	.0	.0	.0	4	.1	.1
-11/-13	.1	.0	*	*	.0	.0	.0	.0	.0	.0	4	*	.1
TOTAL	10		368		928		127		17			584	1953
		78		640		329		38		2	2537		
PCT	.4	3.1	14.5	25.2	36.6	13.0	5.0	1.5	.7	.1	100.0	23.0	77.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	4.6	.2	.0	.0	.0	6.2
1-2	.5	5.1	2.3	.0	.0	.0	7.9
3-4	.0	1.0	3.0	.3	.0	.0	4.3
5-6	.0	.3	.8	.4	.0	.0	1.5
7	.0	.0	.1	.9	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	11.0	6.4	1.6	.0	.0	20.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.0	.0	.0	.0	1.6
1-2	.2	1.3	.5	.0	.0	.0	2.0
3-4	.0	.2	.1	.0	.0	.0	.4
5-6	.0	.0	*	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.0	.6	.1	.0	.0	4.2

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.0	.0	.0	.0	1.6
1-2	.1	.3	1.3	.0	.0	.0	1.7
3-4	.0	.4	1.3	.4	.0	.0	2.0
5-6	.0	.0	.1	.7	.0	.0	.7
7	.0	.0	*	*	*	.0	.1
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.0	2.6	1.2	*	.0	6.2

PERIOD: (OVER-ALL) 1963-1974

JUNE

TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.2	.0	.0	.0	2.3	.6	1.9	.0	.0	.0	.0	2.5
1-2	.1	2.4	3.8	.0	.0	.0	6.3	.2	2.5	1.0	.0	.0	.0	3.7
3-4	.0	.3	4.2	1.0	.0	.0	5.5	.0	.1	.3	*	.0	.0	.5
5-6	.0	.1	1.7	2.1	.1	.0	4.1	.0	.0	.9	*	.0	.0	.9
7	.0	.0	.8	1.2	.1	.0	2.2	.0	.0	.3	*	.0	.0	.3
8-9	.0	.0	.3	1.0	.1	.0	1.4	.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	.1	.0	.2	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.7	11.1	5.5	.4	.0	22.1	.8	4.5	2.6	.1	*	.0	8.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	5.3	.0	.0	.0	.0	5.9	.7	5.4	.3	.0	.0	.0	6.5	
1-2	.1	2.5	1.0	.0	.0	.0	3.7	.2	4.8	3.1	.0	.0	.0	8.2	
3-4	.0	.2	.5	.0	.0	.0	.7	.0	.7	1.6	.1	.0	.0	2.4	
5-6	.0	.0	.0	.1	.0	.0	.1	.0	.3	.9	*	.0	.0	1.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.2	.0	1.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	
TOT PCT	.7	8.0	1.6	.1	.0	.0	10.4	1.0	11.2	6.7	.6	.2	.0	19.8	93.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.8	22.4	.8	.0	.0	.0	33.9	
1-2	2.0	19.0	13.4	.0	.0	.0	34.5	
3-4	.1	3.0	11.2	1.8	.0	.0	16.1	
5-6	.0	.8	4.4	3.4	.1	.0	8.7	
7	.0	.0	1.6	2.7	.3	.0	4.6	
8-9	.0	.0	.5	1.1	.1	.0	1.7	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.9	45.2	32.0	9.2	.6	.0	100.0	930

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.9	22.5	10.2	4.2	1.8	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	702	2
6-7	.0	1.8	5.3	4.8	1.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	4
8-9	.0	.3	.8	1.3	.8	.6	.2	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	6
10-11	.0	.3	.0	.1	.4	.4	.0	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
12-13	.0	.0	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	6.6	4.3	11.3	4.1	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	372	3
TOTAL	252	399	381	200	78	30	7	10	8	2	0	0	0	0	0	0	0	0	0	1367	3
PCT	18.4	29.2	27.9	14.6	5.7	2.2	.5	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	3.8	.1	1.7	.0	.0	.0	.0	5.6	.4	.0	28.3	1.5	.0		.1	63.8
NE	15.6	.2	3.3	.0	.0	.0	.0	19.1	.2	.0	22.9	1.8	.0		.0	56.1
E	24.1	1.5	7.7	.0	.0	.0	.0	32.1	1.1	.0	14.2	.0	.0		.0	52.6
SE	18.3	.0	6.8	.0	.0	.0	.0	24.8	2.7	.0	25.1	.7	.6		.0	46.0
S	20.4	.1	4.9	.0	.0	.0	.0	24.9	2.6	.0	29.9	.6	.1		.0	41.9
SW	10.3	.0	4.0	.0	.0	.0	.0	14.0	1.9	.0	34.9	.7	.0		.0	48.6
W	7.8	.0	3.3	.0	.0	.0	.0	11.2	1.4	.0	25.9	1.3	.3		.0	59.9
NW	7.5	.0	1.4	.0	.0	.0	.0	8.9	.8	.2	28.5	1.1	.0		.0	60.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	8.0	.0	3.5	.0	.0	.0	.0	11.5	1.5	.0	30.0	.0	.0		.0	57.0
TOT PCT	12.3	.1	3.5	.0	.0	.0	.0	15.7	1.6	*	28.9	.9	.1		*	52.7
TOT OBS:	3894															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	9.6	.1	3.6	.0	.0	.0	.0	13.1	1.7	.1	29.3	.9	.1		.1	54.7
06&09	12.4	.1	2.9	.0	.0	.0	.0	15.3	1.3	.0	25.6	.5	.0		.0	57.2
12&15	14.3	.1	4.3	.0	.0	.0	.0	18.5	1.4	.0	25.4	1.0	.2		.0	53.5
18&21	13.2	.0	3.7	.0	.0	.0	.0	16.6	2.1	.0	35.4	1.3	.0		.0	44.7
TOT PCT	12.3	.1	3.6	.0	.0	.0	.0	15.8	1.6	*	28.9	.9	.1		*	52.7
TOT OBS:	3936															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.9	10.5	5.0	.7	.1	.0		19.1	9.1	19.4	16.6	19.9	20.1	20.5	20.9	18.8	17.1
NE	1.0	1.7	.7	*	.0	.0		3.4	6.9	2.9	2.3	2.3	2.9	2.5	3.5	5.8	5.8
E	.6	.9	.3	*	.0	.0		1.8	7.1	2.1	.4	1.6	1.4	1.7	1.3	3.0	3.3
SE	1.2	2.5	1.4	.3	*	.0		5.4	9.0	6.4	4.1	3.4	3.9	6.8	4.3	7.2	7.7
S	3.5	12.4	10.7	4.0	.3	*		31.0	12.0	30.2	32.6	28.3	29.5	24.7	33.2	33.1	36.1
SW	3.1	6.4	2.0	.4	*	.0		12.0	7.3	10.9	15.8	13.5	11.6	10.8	12.6	10.4	9.3
W	2.3	3.7	.6	.1	*	.0		6.8	5.9	6.1	8.0	6.7	8.7	7.6	5.9	5.2	5.7
NW	3.2	9.0	3.1	.3	*	.0		15.6	7.5	13.5	18.3	20.5	19.9	17.5	14.4	10.1	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	8.4	2.0	3.9	1.9	7.9	3.8	6.4	4.8
TOT OBS	938	1950	979	243	19	2	4131		8.8	571	609	488	520	484	502	481	476
TOT PCT	22.7	47.2	23.7	5.9	.5	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.0	8.9	2.0	.1	*		19.1	9.1	18.0	20.0	20.7	18.0
NE	2.2	.9	.3	.0	.0		3.4	6.9	2.6	2.6	3.0	5.8
E	.9	.7	.2	.0	.0		1.8	7.1	1.2	1.5	1.5	3.1
SE	2.4	2.1	.8	.1	.0		5.4	9.0	5.2	3.7	5.5	7.4
S	9.9	12.2	7.5	1.2	.1		31.0	12.0	31.5	28.9	29.1	34.6
SW	7.2	3.7	1.0	.1	*		12.0	7.3	13.4	12.5	11.7	9.9
W	4.8	1.8	.2	.1	.0		6.8	5.9	7.1	7.7	6.8	5.5
NW	8.6	6.0	1.0	.1	.0		15.6	7.5	16.0	20.2	15.9	10.2
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	5.1	2.9	3.8	5.6
TOT OBS	2020	1499	536	71	5	4131		8.8	1180	1008	986	957
TOT PCT	48.9	36.3	13.0	1.7	.1		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.1	17.3	46.5	24.6	6.1	.3	.1	8.7	100.0	1180
06&09	2.9	14.7	48.5	26.7	6.5	.6	.1	9.5	100.0	1008
12&15	5.8	18.6	45.7	23.8	5.6	.5	.0	8.7	100.0	986
18&21	5.6	21.2	48.2	19.3	5.2	.4	.0	8.0	100.0	957
TOT	200	738	1950	979	243	19	2	8.8		4131
PCT	4.8	17.9	47.2	23.7	5.9	.5	*		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	1.7	3.1	9.2		5.7
NE	.3	.2	.8	2.2		6.7
E	.2	.1	.5	1.5		6.9
SE	.3	.1	.8	4.9		7.3
S	.9	1.0	3.7	23.1		7.4
SW	.4	.3	1.4	8.2		7.4
W	.4	.4	1.1	5.7		7.2
NW	1.8	1.2	3.3	9.4		6.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	1.6	5.1		6.9
TOT OBS	198	115	366	1539	2218	6.8
TOT PCT	8.9	5.2	16.5	69.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.5	.0	.5	2.3	1.9	1.7	.7	.2	.3	.0	6.9	
NE	.8	.0	.2	.5	.5	.2	.2	.1	.1	*	.9	
E	.4	*	.0	.3	.4	.3	.1	*	.0	.1	.6	
SE	1.3	.1	.7	1.3	1.2	.4	.1	.1	.1	.0	.9	
S	7.2	.1	1.4	5.6	6.3	2.5	1.3	.5	.3	*	3.7	
SW	2.2	.2	.4	2.1	2.8	1.0	.2	.2	*	*	1.1	
W	1.1	.0	.2	2.4	1.4	1.2	.1	.1	.0	.0	1.2	
NW	3.1	.0	.2	2.8	2.8	1.4	.4	.2	.1	*	4.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6	.0	.4	.8	1.8	.8	.5	.1	.2	*	1.6	
TOT OBS	469	8	87	401	421	209	80	33	25	5	480	2218
TOT PCT	21.1	.4	3.9	18.1	19.0	9.4	3.6	1.5	1.1	.2	21.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >30YD	* OR >0
* OR >6500	1.0	1.2	1.4	1.4	1.4	1.4	1.4	1.4
* OR >3000	1.5	2.1	2.5	2.5	2.6	2.7	2.8	2.8
* OR >3500	3.4	5.0	5.7	5.9	6.0	6.2	6.3	6.3
* OR >2000	8.2	12.9	15.3	15.5	15.6	15.9	16.1	16.1
* OR >1000	11.0	24.5	32.5	33.7	34.0	35.0	35.5	35.5
* OR >600	13.7	33.6	46.9	49.9	50.7	52.6	53.2	53.2
* OR >300	13.9	35.2	49.7	53.3	54.2	56.3	57.1	57.1
* OR >150	14.1	35.4	49.9	53.5	54.5	56.7	57.5	57.5
* OR > 0	14.1	35.7	51.5	56.6	58.7	66.0	77.3	78.3
TOTAL	310	784	1132	1243	1289	1451	1699	1720

TOTAL NUMBER OF OBS: 2197 PCT FREQ NH <5/8: 21.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD		TOTAL OBS
4.8	5.0	5.1	4.0	2.6	2.4	5.1	6.9	43.4	20.6	2303

PERIOD: (PRIMARY) 1939-1976
(OVER-ALL) 1870-1974

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.1	*	.2	1.3	.2	*	.2	.0	.1	2.3	
<1/2	NO PCP	4.0	.6	.2	1.1	6.8	3.1	1.5	3.5	.0	1.2	21.9	
	TOT %	4.1	.7	.2	1.3	8.1	3.3	1.5	3.7	.0	1.3	24.2	
	PCP	*	.1	.1	.2	1.0	.1	.1	.1	.0	.0	1.6	
1/2<1	NO PCP	.4	.1	*	.3	1.0	.4	.2	.4	.0	.1	2.8	
	TOT %	.4	.1	.1	.5	2.0	.5	.2	.5	.0	.1	4.5	
	PCP	.1	.2	.1	.3	1.5	.3	.1	.2	.0	.1	2.7	
1<2	NO PCP	.4	.1	.0	.1	.5	.2	.2	.3	.0	.1	2.0	
	TOT %	.5	.2	.1	.4	2.0	.5	.3	.4	.0	.2	4.7	
	PCP	.3	.1	.1	.5	2.5	.7	.4	.5	.0	.3	5.4	
2<5	NO PCP	.8	.2	.1	.3	2.5	1.0	.4	.9	.0	.5	6.7	
	TOT %	1.1	.3	.2	.8	5.0	1.7	.9	1.4	.0	.8	12.1	
	PCP	.4	.2	.1	.2	1.1	.3	.1	.3	.0	.2	2.8	
5<10	NO PCP	4.0	.6	.4	1.1	5.7	2.4	2.0	3.5	.0	1.1	20.7	
	TOT %	4.3	.8	.5	1.2	6.8	2.6	2.1	3.8	.0	1.3	23.5	
	PCP	.1	.1	.1	.1	.5	.1	.1	.1	.0	.0	1.1	
10+	NO PCP	7.9	1.4	.5	1.2	6.3	2.9	2.4	5.8	.0	1.5	30.0	
	TOT %	8.1	1.5	.6	1.3	6.8	3.0	2.4	5.9	.0	1.5	31.1	
	TOT OBS												3841
	TOT PCT	18.6	3.6	1.8	5.5	30.7	11.6	7.4	15.7	.0	5.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.5	.3	.2	.3	1.0	1.4	.7	1.2	.0	1.2	6.7	
<1/2	4-10	2.8	.4	.1	.7	3.5	1.7	.8	2.1	.0		12.0	
	11-21	1.1	.1	*	.2	2.8	.3	*	.7	.0		5.3	
	22+	.1	.0	.0	*	.8	.1	.1	*	.0		1.1	
	TOT %	4.5	.7	.3	1.3	8.1	3.5	1.5	3.9	.0	1.2	25.0	
	0-3	.2	.1	*	.1	.2	.1	.1	.2	.0	.2	1.2	
1/2<1	4-10	.4	*	.1	.3	.7	.3	.1	.3	.0		2.2	
	11-21	.1	*	.0	.1	.9	.1	*	.1	.0		1.4	
	22+	.0	.0	.0	.1	.3	*	*	.0	.0		.4	
	TOT %	.8	.1	.1	.5	2.1	.6	.3	.5	.0	.2	5.2	
	0-3	.2	.1	.1	.1	.2	.1	*	.3	.0	.2	1.2	
1<2	4-10	.5	.1	.1	.2	.7	.4	.1	.4	.0		2.5	
	11-21	.1	*	.0	.1	1.0	.2	.1	.1	.0		1.6	
	22+	.0	.0	.0	.1	.8	.1	*	.1	.0		1.0	
	TOT %	.8	.3	.1	.4	2.6	.8	.2	.9	.0	.2	6.3	
	0-3	.4	.1	*	.1	.5	.4	.1	.3	.0	.7	2.6	
2<5	4-10	.8	.2	.2	.4	1.9	1.2	.5	1.0	.0		6.2	
	11-21	.4	.1	*	.4	2.3	.4	.2	.4	.0		4.2	
	22+	*	.0	*	.1	1.0	.1	.0	*	.0		1.3	
	TOT %	1.7	.3	.3	.9	5.7	2.1	.8	1.8	.0	.7	14.2	
	0-3	.7	.1	*	.2	.8	.4	.4	.3	.0	1.0	3.8	
5<10	4-10	2.0	.4	.3	.5	2.6	1.2	1.2	2.1	.0		10.3	
	11-21	1.2	.2	.1	.4	2.0	.7	.2	.9	.0		5.8	
	22+	.2	.0	.0	*	.7	*	.0	*	.0		1.1	
	TOT %	4.1	.7	.5	1.1	6.1	2.3	1.8	3.3	.0	1.0	21.0	
	0-3	.9	.4	.2	.5	.8	.7	1.0	1.0	.0	1.4	6.9	
10+	4-10	4.0	.7	.2	.5	3.0	1.7	1.0	3.3	.0		14.3	
	11-21	2.0	.3	.1	.2	1.8	.2	.1	1.0	.0		5.7	
	22+	.5	*	*	*	.6	.1	.1	.1	.0		1.4	
	TOT %	7.4	1.3	.6	1.2	6.3	2.8	2.2	5.3	.0	1.4	28.4	
	TOT OBS												3998
	TOT PCT	19.2	3.5	1.8	5.4	30.9	12.0	6.9	15.7	.0	4.6	100.0	

JULY

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	18.6	.3	4.6	16.0	18.2	13.5	4.1	1.8	1.6	.1	78.9	21.1	681
06&09	18.2	.4	3.2	18.3	20.4	7.2	4.0	1.8	.7	.2	72.2	27.8	569
12&15	23.3	.4	2.6	18.2	17.1	8.6	3.8	1.1	.9	.0	76.1	23.9	532
18&21	27.6	.4	5.0	20.3	20.3	7.5	2.1	1.0	1.0	.6	85.9	14.1	482
TOT	476	8	87	408	429	215	81	33	25	5	1767	497	2264
PCT	21.0	.4	3.8	18.0	18.9	9.5	3.6	1.5	1.1	.2	78.0	22.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	23.6	4.7	5.4	14.4	20.0	31.8	1219
06&09	23.3	4.2	5.2	12.2	21.8	33.3	1058
12&15	23.5	4.9	7.4	15.8	23.0	25.4	1013
18&21	28.1	6.1	7.8	15.5	21.1	21.5	988
TOT	1051	211	273	618	916	1209	4278
PCT	24.6	4.9	6.4	14.4	21.4	28.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	18.4	28.7	53.5	28.7	17.8	663
06&09	15.9	24.0	50.7	25.3	24.0	558
12&15	23.2	29.9	58.7	21.4	19.8	509
18&21	27.4	36.8	68.7	21.2	10.1	467
TOT	457	648	1258	539	400	2197
PCT	20.8	29.5	57.3	24.5	18.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.0	.1	.0	1	.1
60/64	.0	.0	.0	.0	.1	.6	.1	.2	11	1.0
55/59	.0	.0	.0	.0	.3	2.8	6.8	3.3	143	13.2
50/54	.0	.0	.1	.0	.0	1.5	12.4	25.9	433	39.9
45/49	.0	.0	.0	.1	.1	.2	6.3	33.6	437	40.3
40/44	.0	.0	.0	.1	.0	.0	.6	4.7	59	5.4
35/39	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	0	1	2	5	33	286	736	1085	100.0
PCT	.0	.0	.1	.2	.5	3.1	26.4	67.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	.2	*	.1	*	.0	.1	.2	*	.0	.5
	2.3	.5	.3	.3	1.7	1.4	1.0	4.3	.0	1.4
	8.2	1.6	1.2	2.6	11.4	4.2	2.3	6.9	.0	1.6
	6.5	.7	.5	3.0	10.2	4.6	5.8	7.9	.0	1.1
	.7	.1	.0	.2	2.6	.5	.2	.7	.0	.6
	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
	17.9	2.9	2.0	6.2	26.0	10.7	9.4	19.8	.0	5.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	68	63	52	43	41	36	52.9	1255
06&09	73	68	63	52	43	42	32	52.2	1069
12&15	68	61	57	50	43	39	32	49.5	1048
18&21	70	61	57	50	44	41	32	49.6	1023
TOT	76	66	61	50	43	41	32	51.1	4395

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.4	.7	11.0	33.3	54.6	90	282
06&09	.0	.3	.7	7.1	38.5	53.4	90	296
12&15	.0	.0	.4	1.1	16.6	81.9	94	277
18&21	.0	.4	.0	.4	15.2	84.0	94	243
TOT	0	3	5	56	291	743	92	1098

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.4E

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

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	/3 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	3	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	10	.1	.3
17/19	.0	.0	.0	.0	.0	*	.0	.1	.0	.1	*	*	7	*	.2
14/16	.0	.0	.0	.0	.0	*	*	.1	.3	.2	*	.0	23	.2	.5
11/13	.0	.0	.0	*	.1	.1	.3	.7	.9	*	.0	.0	65	.5	1.6
9/10	.0	.0	.0	.0	*	.2	.7	1.4	.9	*	.0	.0	103	.6	2.6
7/8	.0	.0	.0	.0	.1	.6	1.8	1.5	.3	*	.0	.0	134	.9	3.3
6	.0	.0	.0	.0	*	.2	.8	.5	.0	.0	.0	.0	46	.2	1.2
5	.0	.0	.0	*	.5	2.1	3.9	1.7	.3	*	.0	.0	270	2.1	6.4
4	.0	.0	*	.1	1.5	4.3	2.8	1.6	.3	*	.0	.0	339	3.0	7.7
3	.0	.0	.0	.0	.8	1.5	1.3	.1	.0	.0	.0	.0	117	.5	3.2
2	.0	.0	.1	.3	6.4	7.9	4.5	1.0	.1	.0	.0	.0	636	5.4	14.7
1	.0	.0	.0	.1	1.9	2.5	.6	.1	.0	.0	.0	.0	164	1.0	4.2
0	.0	*	*	.8	10.3	5.1	2.7	.3	.1	.0	.0	.0	609	6.2	13.0
-1	.0	.0	.0	.4	1.4	1.7	.5	.0	.0	.0	.0	.0	125	1.0	3.0
-2	.0	.1	.2	.8	4.6	1.8	.7	.3	*	.0	.0	.0	268	3.2	5.3
-3	.0	.0	.1	.1	1.7	1.1	.4	.0	.0	.0	.0	.0	103	.9	2.4
-4	.0	*	*	.4	1.4	.8	.1	.1	.0	.0	.0	.0	92	1.2	1.7
-5	.0	.0	.0	.1	.7	.3	.0	.0	.0	.0	.0	.0	33	.6	.5
-6	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	7	.1	.1
-7/-8	*	.0	*	*	.1	.0	.0	.0	.0	.0	.0	.0	6	*	.2
-11/-13	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	*	*
-17/-19	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	*
TOTAL	2	5	16	98	1001	954	663	294	103	18	7	2	3163	885	2278
PCT	.1	.2	.5	3.1	31.6	30.2	21.0	9.3	3.3	.6	.2	.1	100.0	28.0	72.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	5.0	.6	.0	.0	.0	6.3
1-2	.2	4.8	3.2	.0	.0	.0	8.2
3-4	.0	.7	2.4	.0	.0	.0	3.1
5-6	.0	.0	1.3	.2	.0	.0	1.5
7	.0	.0	.3	.5	.1	.0	.9
8-9	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	10.5	7.8	.7	.2	.0	20.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2
1-2	.0	.5	.8	.0	.0	.0	1.3
3-4	.0	*	.1	*	.0	.0	.2
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.	.0	.0	.0
41-48	.0	.0	.0	..	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	.9	*	.0	.0	2.7

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.6	*	.0	.0	.0	1.9
1-2	.1	1.0	.2	.0	.0	.0	1.3
3-4	.1	.1	.5	.1	.0	.0	.8
5-6	.0	*	.2	.1	.0	.0	.3
7	.0	.0	.1	.1	.0	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.7	1.2	.4	.0	.0	4.8

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0016 WEST COAST KAMCHATKA
54.5N 155.4E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	4.5	.4	.0	.0	.0	5.5
1-2	.3	3.2	2.8	.0	.0	.0	6.3
3-4	.0	.7	4.2	.7	.0	.0	5.6
5-6	.0	.3	2.0	1.3	.0	.0	3.6
7	.0	.0	.8	1.6	.0	.0	2.4
8-9	.0	.0	.7	.6	.0	.0	1.3
10-11	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.7	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.7	11.3	5.6	.1	.0	26.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.8	.2	.0	.0	.0	3.8
1-2	.1	2.8	1.5	.0	.0	.0	4.4
3-4	.0	.5	1.4	.2	.0	.0	2.0
5-6	.0	*	.4	.0	.0	.0	.5
7	.0	.1	*	.2	.0	.0	.3
8-9	.0	.0	.1	.2	.0	.0	.3
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.3	3.6	.7	*	.0	11.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.1	.2	.0	.0	.0	2.9
1-2	.3	1.6	.6	.0	.0	.0	2.5
3-4	.2	.7	.5	.0	.0	.0	1.4
5-6	.0	.1	.0	.1	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.5	1.4	.1	.0	.0	7.1

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	6.1	.6	.0	.0	.0	7.0	
1-2	.3	3.8	2.5	.0	.0	.0	6.6	
3-4	.0	1.0	2.1	.0	.0	.0	3.1	
5-6	.0	.1	.7	.2	.0	.0	1.0	
7	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	11.0	5.9	.3	.0	.0	17.9	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.5	23.8	2.0	.0	.0	.0	37.2	
1-2	1.4	18.2	11.6	.0	.0	.0	31.1	
3-4	.3	3.9	11.2	1.1	.0	.0	16.4	
5-6	.0	.6	4.8	1.9	.0	.0	7.2	
7	.0	.1	1.4	2.5	.1	.0	4.0	
8-9	.0	.0	.9	.8	.1	.0	1.8	
10-11	.0	.0	.4	.4	.0	.0	.7	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.1	.8	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.1	.0	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.1	46.4	32.3	7.9	.3	.0	100.0	1090

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	14.1	23.2	10.5	4.6	1.1	.4	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	912	2
6-7	.1	2.7	5.1	3.0	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	4
8-9	.0	.5	.6	.8	1.2	.4	.5	1.0	1.5	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	113	9
10-11	.0	.7	.0	.0	.1	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	8
12-13	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	9
>13	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	6.4	4.0	6.7	2.8	3.4	.6	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	422	3
TOTAL	346	523	386	189	120	27	28	19	35	9	1	0	1	0	0	0	0	0	0	1684	3
PCT	20.5	31.1	22.9	11.2	7.1	1.6	1.7	1.1	2.1	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.5	.0	2.2	.0	.0	.0	.0	9.7	.7	.0	18.0	.9	.6		.0	70.2
NE	12.4	1.6	5.2	.0	.0	.0	.0	19.2	.4	.0	12.0	1.0	.2		.0	67.2
E	26.5	.0	4.9	.0	.0	.0	.0	31.4	.0	.0	7.2	.0	.0		.0	61.4
SE	30.2	.6	7.0	.0	.0	.0	.0	37.8	4.3	.0	22.4	.2	.0		.0	35.4
S	27.5	.1	8.9	.0	.0	.0	.0	36.0	1.9	.0	28.0	.1	.0		.0	34.0
SW	13.4	.2	5.6	.0	.0	.0	.0	18.7	.5	.0	32.3	.0	.4		.0	48.0
W	4.8	.0	5.7	.0	.0	.0	.0	10.5	.0	.0	28.7	1.2	.6		.0	59.0
NW	5.2	.0	4.4	.0	.0	.0	.0	8.9	.9	.0	24.6	.7	.2		.3	64.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.3	.0	6.6	.0	.0	.0	.0	11.8	2.0	.0	30.3	.0	1.3		.0	54.6
TOT PCT	14.9	.2	5.7	.0	.0	.0	.0	20.5	1.3	.0	24.2	.5	.3		*	53.2
TOT OBS:	2353															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	13.8	.0	4.7	.0	.0	.0	.0	18.2	1.0	.0	25.7	.4	.4		.0	54.2
06&09	15.2	.2	5.2	.0	.0	.0	.0	20.2	1.2	.0	18.4	.7	.5		.0	59.0
12&15	14.9	.4	6.7	.0	.0	.0	.0	21.5	1.8	.0	25.4	.2	.4		.2	50.6
18&21	15.5	.2	6.5	.0	.0	.0	.0	22.2	1.5	.0	26.0	.6	.0		.0	49.7
TOT PCT	14.8	.2	5.7	.0	.0	.0	.0	20.4	1.3	.0	23.9	.5	.3		*	53.5
TOT OBS:	2382															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.9	11.2	5.8	1.0	.3	.0		21.3	9.9	20.0	18.7	21.6	21.3	21.8	21.9	22.0	24.4
NE	.8	3.2	1.0	.1	.0	.0		5.2	8.3	5.9	2.4	3.3	3.1	7.0	4.5	7.1	6.6
E	.7	1.3	.4	*	.0	.0		2.4	6.8	2.3	1.6	1.6	.7	2.3	2.4	4.5	2.7
SE	1.5	3.1	1.9	.6	*	.0		7.2	9.9	6.0	5.1	3.7	3.6	8.0	10.7	10.5	12.0
S	3.4	10.1	9.1	3.7	.4	.0		26.8	12.3	27.2	32.9	23.5	30.3	23.1	29.4	24.3	30.2
SW	2.6	5.2	2.1	.6	.0	.0		10.4	8.4	10.7	14.0	11.2	11.4	8.8	8.4	10.2	7.6
W	2.4	3.3	1.1	.1	.0	.0		6.9	6.2	6.5	7.2	10.3	6.9	6.7	6.1	5.2	4.5
NW	2.8	8.1	3.7	.3	*	.0		14.9	8.0	13.1	15.9	21.0	20.4	15.8	15.3	9.2	8.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	8.4	2.2	3.7	2.3	6.2	1.3	7.0	3.6
TOT OBS	583	1206	667	170	22	0	2648		9.2	487	271	431	217	404	229	415	194
TOT PCT	22.0	45.5	25.2	6.4	.8	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	8.2	10.3	2.1	.8	.0		21.3	9.9	19.6	21.5	21.8	22.8
NE	2.4	2.4	.3	*	.0		5.2	8.3	4.6	3.2	6.1	6.9
E	1.4	.9	*	.0	.0		2.4	6.8	2.0	1.3	2.4	3.9
SE	2.9	3.1	1.0	.1	.0		7.2	9.9	5.6	3.7	9.0	11.0
S	8.2	11.0	5.9	1.6	*		26.8	12.3	29.2	25.8	25.4	26.2
SW	5.2	3.7	1.3	.2	.0		10.4	8.4	11.9	11.3	8.7	9.4
W	4.5	2.1	.3	.0	.0		6.9	6.2	6.7	9.2	6.5	5.0
NW	6.9	7.2	.7	.1	.0		14.9	8.0	14.1	20.8	15.6	8.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	6.2	3.2	4.4	5.9
TOT OBS	1186	1076	309	76	1	2648		9.2	758	648	693	609
TOT PCT	44.8	40.6	11.7	2.9	*		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.2	16.1	45.1	26.8	5.3	.5	.0	9.0	100.0	758
06&09	3.2	16.0	46.1	26.5	6.9	1.1	.0	9.6	100.0	648
12&15	4.4	20.1	43.4	24.8	6.3	.9	.0	9.2	100.0	633
18&21	5.9	16.1	47.6	22.2	7.4	.8	.0	9.1	100.0	609
TOT	132	451	1206	667	170	22	0	9.2		2648
PCT	5.0	17.0	45.5	25.2	6.4	.8	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	2.3	4.0	11.5		5.7
NE	.7	.5	1.5	4.1		6.6
E	.5	.1	.4	1.5		6.2
SE	.2	.1	.7	4.9		7.5
S	.6	.5	3.0	19.2		7.5
SW	.6	.2	1.2	7.3		7.2
W	1.2	.2	1.0	4.8		6.4
NW	2.3	1.4	3.0	7.7		6.1
VAR	.0	.0	.0	.0		.0
CALM	.3	.6	1.2	5.8		7.0
TOT OBS	175	93	245	1028	1541	6.6
TOT PCT	11.4	6.0	15.9	66.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.3	.1	.0	1.8	3.8	3.3	.7	1.3	.1	.1	9.2	
NE	1.1	.1	.0	.2	1.1	.9	.3	1.0	.0	.0	2.1	
E	.2	.0	.1	.1	.5	.4	.1	.3	.0	.0	.8	
SE	2.0	.0	.1	.8	1.2	.7	.1	.4	.0	.0	.6	
S	6.7	.1	.6	2.7	3.3	5.3	1.2	.9	.0	*	2.3	
SW	1.6	.0	.2	.8	1.8	2.5	.5	.6	.0	*	1.4	
W	1.1	.0	.1	.6	1.2	1.7	.4	.6	.1	.0	1.6	
NW	1.6	.0	.4	1.3	1.7	2.2	.7	1.1	.1	.1	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.2	.0	.1	.7	1.4	1.4	.2	.1	.2	.1	1.6	
TOT OBS	290	4	27	139	247	283	64	95	7	5	380	1541
TOT PCT	18.8	.3	1.8	9.0	16.0	18.4	4.2	6.2	.5	.3	24.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.7	.8	.8	.8	.8	.9	.9
* OR >5000	1.7	3.3	6.2	6.4	6.6	6.8	7.0	7.0
* OR >3500	3.3	6.3	9.6	10.0	10.2	10.7	10.9	10.9
* OR >2000	12.2	21.5	27.5	28.0	28.3	29.1	29.5	29.5
* OR >1000	15.4	31.3	42.4	43.7	44.3	45.3	45.7	45.7
* OR >600	15.9	34.9	48.0	50.8	52.1	53.8	54.2	54.2
* OR >300	16.0	35.6	49.1	52.2	53.6	55.4	55.9	55.9
* OR >150	16.0	35.6	49.3	52.5	53.9	55.7	56.1	56.2
* OR > 0	16.2	36.3	51.5	56.4	60.0	65.8	73.3	74.8
TOTAL	243	546	774	849	902	990	1103	1125

TOTAL NUMBER OF OBS: 1504 PCT FREQ NH <5/8: 25.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.7	5.6	6.1	4.0	2.8	3.5	6.7	4.3	43.4	17.9	1618

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.9	.2	.3	1.2	3.7	.6	.3	.9	.0	.1	7.3	
<1/2	NO PCP	3.2	.5	*	1.4	5.4	2.3	1.5	2.6	.0	1.3	18.3	
	TOT %	3.7	.8	.3	2.6	9.2	2.8	1.9	3.1	.0	1.4	25.7	
	PCP	.2	*	*	.2	1.3	.1	.1	.1	.0	.1	2.2	
1/2<1	NO PCP	.2	.1	*	.1	.4	.1	.1	.4	.0	.2	1.6	
	TOT %	.5	.1	.1	.2	1.7	.2	.2	.5	.0	.3	3.8	
	PCP	.2	.2	.1	.6	1.4	.4	.1	.2	.0	.1	3.2	
1<2	NO PCP	.3	.1	*	.1	.3	.4	.2	.4	.0	.1	2.0	
	TOT %	.4	.3	.1	.7	1.7	.7	.3	.6	.0	.2	5.2	
	PCP	.5	.5	.3	.3	1.4	.4	.2	.1	.0	.3	4.0	
2<5	NO PCP	2.0	.7	.2	.7	2.0	.9	.7	1.3	.0	1.0	9.7	
	TOT %	2.5	1.3	.5	.9	3.5	1.4	.8	1.5	.0	1.3	13.7	
	PCP	.6	.1	.1	.4	1.1	.2	.1	.3	.0	.1	3.0	
5<10	NO PCP	5.4	1.1	.4	1.0	3.6	1.7	1.8	3.8	.0	1.4	20.1	
	TOT %	6.0	1.3	.5	1.4	4.7	1.9	1.8	4.1	.0	1.5	23.1	
	PCP	.2	.0	*	.1	.5	.1	.0	*	.0	.1	1.0	
10+	NO PCP	8.4	1.9	.8	1.1	4.6	2.6	1.9	4.8	.0	1.7	27.5	
	TOT %	8.6	1.9	.9	1.2	4.9	2.7	1.9	4.8	.0	1.8	28.6	
	TOT OBS												2318
	TOT PCT	21.8	5.6	2.4	7.0	25.7	9.7	7.0	14.5	.0	6.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.9	.2	.2	.3	2.0	1.5	1.4	1.3	.0	1.1	9.2	
<1/2	4-10	3.9	.6	.2	1.3	5.2	2.0	1.0	2.7	.0		17.0	
	11-21	1.5	.2	.0	.9	3.0	.6	.0	1.2	.0		7.4	
	22+	.0	*	*	.1	1.1	.3	.1	.0	.0		1.6	
	TOT %	6.3	1.1	.4	2.9	11.3	4.4	2.5	5.2	.0	1.1	35.3	
	0-3	*	*	.0	*	.1	*	.1	.1	.0	.2	.5	
1/2<1	4-10	.3	.1	*	.1	.2	.1	*	.4	.0		1.4	
	11-21	.1	*	*	*	.6	.1	.1	.0	.0		.9	
	22+	.0	.0	.0	.1	.6	*	.0	.0	.0		.7	
	TOT %	.5	.1	.1	.2	1.6	.2	.2	.5	.0	.2	3.5	
	0-3	.3	.1	.1	*	.1	.2	.1	.1	.0	.2	1.2	
1<2	4-10	.4	.1	*	.2	.3	.3	.2	.3	.0		1.8	
	11-21	.1	*	.0	.1	.9	.2	.1	.1	.0		1.5	
	22+	.0	.0	.0	.2	.4	*	.0	.0	.0		.6	
	TOT %	.7	.2	.1	.6	1.7	.7	.4	.5	.0	.2	5.1	
	0-3	.4	.2	.1	.2	.5	*	.2	.2	.0	.8	2.6	
2<5	4-10	.9	.6	.2	.4	.9	.4	.4	.9	.0		4.7	
	11-21	.9	.3	.2	.3	1.4	.5	.2	.5	.0		4.2	
	22+	.3	*	.0	.1	.8	.2	.0	*	.0		1.5	
	TOT %	2.5	1.2	.5	.9	3.6	1.1	.8	1.6	.0	.8	13.0	
	0-3	.5	.2	.2	.2	.2	.2	.3	.5	.0	1.1	3.5	
5<10	4-10	2.4	.7	.2	.7	1.1	1.0	.6	1.6	.0		8.2	
	11-21	1.5	.2	*	.3	1.7	.4	.4	1.0	.0		5.5	
	22+	.4	.1	.0	*	.8	*	.0	.2	.0		1.6	
	TOT %	4.8	1.1	.4	1.2	3.9	1.7	1.4	3.3	.0	1.1	18.7	
	0-3	.8	.2	.2	.5	.4	.6	.4	.6	.0	1.4	5.0	
10+	4-10	3.6	1.1	.5	.4	2.1	1.3	1.0	2.4	.0		12.4	
	11-21	2.0	.3	.1	.2	1.2	.4	.3	1.0	.0		5.6	
	22+	.7	.0	.0	*	.5	*	.0	.1	.0		1.3	
	TOT %	7.1	1.6	.8	1.1	4.2	2.3	1.7	4.1	.0	1.4	24.3	
	TOT OBS												2952
	TOT PCT	21.8	5.3	2.3	7.0	26.2	10.4	6.9	15.2	.0	4.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	14.7	.0	1.8	7.5	15.7	25.2	5.0	4.8	.4	.4	75.4	24.6	504
06&09	11.8	.5	2.5	11.8	15.5	18.5	4.3	7.0	.8	.0	72.7	27.3	399
12&15	28.0	.0	1.5	5.2	17.6	11.2	3.3	6.1	.0	.6	73.6	26.4	329
18&21	23.6	.6	.9	11.2	16.0	14.2	3.9	6.9	.9	.3	78.5	21.5	331
TOT	291	4	27	139	252	285	66	95	8	5	1172	391	1563
PCT	18.6	.3	1.7	8.9	16.1	18.2	4.2	6.1	.5	.3	75.0	25.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	28.1	3.9	5.7	14.0	16.1	32.2	794
06&09	30.8	2.8	3.5	12.4	21.4	29.2	679
12&15	38.1	3.2	4.8	12.3	22.2	19.3	657
18&21	39.0	4.0	5.4	13.4	20.0	18.3	629
TOT	927	96	135	360	545	696	2759
PCT	33.6	3.5	4.9	13.0	19.8	25.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	14.7	20.7	41.6	36.9	21.5	483
06&09	12.1	17.9	40.8	34.6	24.6	390
12&15	28.1	33.4	53.6	24.6	21.8	317
18&21	23.6	29.3	55.1	25.2	19.7	314
TOT	281	368	703	470	331	1504
PCT	18.7	24.5	46.7	31.3	22.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
60/64	.0	.0	.0	.0	.0	.5	1.9	3.1	23	5.6
55/59	.0	.0	.0	.0	.0	2.7	9.9	9.7	92	22.2
50/54	.0	.0	.0	.0	.0	1.0	19.3	43.5	264	63.8
45/49	.0	.0	.0	.0	.0	.0	.7	7.2	33	8.0
40/44	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	1	0	17	132	264	414	100.0
PCT	.0	.0	.0	.2	.0	4.1	31.9	63.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
.5	.7	.5	.7	1.6	.8	.2	.5	.0	.0
5.3	1.4	1.0	.1	5.7	1.8	1.4	3.8	.0	1.7
11.6	1.0	.5	2.8	20.9	9.5	6.6	8.0	.0	2.9
.0	.0	.0	1.3	3.3	1.1	1.1	.7	.0	.9
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
17.6	3.1	2.1	4.9	31.8	13.1	9.4	13.0	.0	5.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	68	63	54	48	46	44	54.9	822
06&09	72	66	63	55	48	45	36	54.9	691
12&15	74	63	59	53	48	45	42	53.1	674
18&21	70	61	57	52	46	43	37	52.1	650
TOT	75	64	61	54	48	45	36	53.8	2837

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.9	.0	4.3	35.9	59.0	91	117
06&09	.0	.0	.0	4.5	41.4	54.1	90	111
12&15	.0	.0	.0	2.9	21.6	75.5	93	102
18&21	.0	.0	.0	4.7	25.9	69.4	92	85
TOT	0	1	0	17	132	265	91	415

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AREA 0016 WEST COAST KAMCHATKA
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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 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	3	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.1	.0	.1	.1	6	.0	.4
14/16	.0	.0	.0	.0	.0	.3	.2	.3	.1	.0	13	.0	.8
11/13	.0	.0	.0	.2	.3	.5	1.3	.2	.0	.0	38	.7	1.8
9/10	.0	.0	.4	.5	.6	.6	1.3	.0	.0	.0	52	.9	2.5
7/8	.0	.0	.3	.4	1.0	1.4	1.0	.1	.0	.0	64	.9	3.3
6	.0	.0	.0	.0	.0	.6	.4	.0	.0	.0	15	.2	.8
5	.0	.0	.2	1.4	2.2	2.2	.6	.1	.0	.0	102	1.4	5.2
4	.0	.0	.5	4.1	3.7	2.6	.4	.0	.0	.0	172	2.6	8.6
3	.0	.0	.0	1.4	1.1	1.6	.2	.0	.0	.0	66	.5	3.8
2	.0	.0	.6	4.6	10.6	2.1	.6	.0	.0	.0	282	5.7	12.7
1	.0	.0	.4	1.8	2.4	.7	.0	.0	.0	.0	81	.8	4.5
0	.0	.1	2.7	8.8	7.5	.6	.1	.0	.0	.0	303	7.4	12.4
-1	.0	.0	.2	1.6	3.6	.2	.0	.0	.0	.0	85	1.0	4.6
-2	.0	.1	1.8	4.8	3.1	.1	.0	.0	.0	.0	149	2.5	7.2
-3	.0	.0	.0	1.4	1.0	.0	.0	.0	.0	.0	37	.2	2.2
-4	.0	.1	.4	.7	.5	.0	.0	.0	.0	.0	25	.4	1.2
-5	.0	.0	.5	.7	.1	.0	.0	.0	.0	.0	19	.5	.8
-6	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1	.1	.0
-7/-8	.0	.1	.3	.3	.1	.0	.0	.0	.0	.0	10	.2	.5
-9/-10	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	6	.2	.2
-11/-13	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
-14/-16	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	2		127		577		96		5			401	1132
		7		504		203		10		2	1533		
PCT	.1	.5	8.3	32.9	37.6	13.2	6.3	.7	.3	.2	100.0	26.2	73.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.7	.3	.0	.0	.0	3.7
1-2	.2	3.7	3.3	.0	.0	.0	7.3
3-4	.1	1.3	3.3	.2	.0	.0	5.0
5-6	.0	.2	.9	.5	.0	.0	1.7
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.0	8.1	.9	.0	.0	18.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	.8	.6	.0	.0	.0	1.4
3-4	*	.2	.5	.0	.0	.0	.8
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	1.4	.0	.0	.0	4.5

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.2	.0	.0	.0	.7
1-2	.0	.7	1.5	.0	.0	.0	2.2
3-4	.0	.4	.3	.1	.0	.0	.9
5-6	.0	.0	.2	*	.0	.0	.3
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	2.7	.4	.0	.0	4.9

PERIOD: (OVER-ALL) 1963-1974

AUGUST

TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	4.9	.8	.0	.0	.0	6.2
1-2	.2	4.5	5.2	.0	.0	.0	9.9
3-4	.0	1.3	3.1	.4	.0	.0	4.8
5-6	.0	.2	2.4	.7	.0	.0	3.4
7	.0	.0	.5	1.8	.2	.0	2.5
8-9	.0	.0	.2	.4	.2	.0	.8
10-11	.0	.0	.3	.6	.0	.0	.9
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.2	.0	.0	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	10.9	12.8	4.3	.4	.0	29.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.2	.0	.0	.0	.0	3.7
1-2	.0	1.9	1.3	.0	.0	.0	3.2
3-4	.0	.7	1.4	.0	.0	.0	2.1
5-6	.0	.2	.7	.0	.0	.0	.9
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.2	.4	.0	.0	.6
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.1	4.6	.4	.0	.0	11.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.7	.0	.0	.0	.0	4.1
1-2	.0	1.3	.2	.0	.0	.0	1.5
3-4	.0	.2	1.5	.0	.0	.0	1.7
5-6	.0	.2	.9	.0	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.4	3.0	.0	.0	.0	8.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	3.0	.1	.0	.0	.0	3.6	
1-2	.0	3.6	2.2	.0	.0	.0	5.9	
3-4	.2	.6	.9	.2	.0	.0	1.9	
5-6	.0	.0	.4	*	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	7.3	3.7	.2	.0	.0	11.9	90.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.7	20.2	1.4	.0	.0	.0	34.3	
1-2	.4	17.1	14.5	.0	.0	.0	31.9	
3-4	.4	4.8	11.5	1.0	.0	.0	17.7	
5-6	.0	.8	6.2	1.4	.0	.0	8.3	
7	.0	.0	2.0	1.8	.2	.0	4.0	
8-9	.0	.0	.6	1.2	.2	.0	2.2	
10-11	.0	.0	.4	.6	.0	.0	1.0	
12	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.2	.0	.0	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.5	42.9	36.9	6.3	.4	.0	100.0	504

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.3	21.3	11.6	3.7	1.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	450	2
6-7	.0	2.1	3.6	2.0	2.2	.9	.7	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	5
8-9	.0	.3	.2	.6	.1	.8	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	7
10-11	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
12-13	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	4	11
INDET	11.0	4.5	14.0	7.5	3.3	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	426	3
TOTAL	170	294	309	146	69	28	13	4	12	0	0	1	0	0	0	0	0	0	0	1041	3
PCT	16.3	28.2	29.7	14.0	6.6	2.2	1.2	.4	1.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.1	.0	1.0	.0	.0	.0	.0	2.2	.8	.0	6.9	.0	.7	.0		89.5
NE	5.4	.0	1.5	.0	.0	.0	.0	6.9	5.0	.0	9.7	.0	1.5	.0		76.8
E	15.5	.0	6.4	.0	.0	.0	.0	21.9	9.4	.0	4.7	.0	.0	.0		63.9
SE	29.9	.0	5.7	.0	.0	.0	.0	35.6	5.4	.0	4.0	.0	.9	.0		54.2
S	14.2	.0	6.4	.0	.0	.0	.0	20.3	4.7	.0	13.8	.6	1.5	.0		59.1
SW	8.1	.0	4.5	.0	.0	.0	.0	12.6	1.8	.0	7.3	.0	.8	.0		77.6
W	6.6	1.4	3.9	.0	.0	.0	.0	12.0	4.1	.0	1.2	.0	.0	.0		82.6
NW	.9	.1	2.2	.0	.0	.0	.0	3.2	.0	.0	1.9	.6	.1	.0		94.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	3.2	.0	1.3	.0	.0	.0	.0	4.5	.6	.0	17.5	.0	.6	.0		70.6
TOT PCT	9.1	.1	3.7	.0	.0	.0	.0	12.8	2.9	.0	8.3	.2	.8	.0		74.9
TOT OBS:	1432															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.9	.2	2.2	.0	.0	.0	.0	8.0	2.9	.0	9.8	.2	.0	.0		79.0
06&09	8.4	.3	5.8	.0	.0	.0	.0	14.6	2.3	.0	5.2	.3	.0	.0		77.6
12&15	9.9	.0	3.9	.0	.0	.0	.0	13.8	4.2	.0	6.6	.3	3.0	.0		72.2
18&21	13.6	.0	4.1	.0	.0	.0	.0	17.7	1.9	.0	11.7	.0	.3	.0		68.4
TOT PCT	9.0	.1	3.7	.0	.0	.0	.0	12.8	2.9	.0	8.3	.2	.7	.0		74.9
TOT OBS:	1468															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	5.4	7.8	2.0	.1	.0		16.4	13.4	15.2	13.1	22.8	14.1	18.9	11.0	15.1	11.1
NE	.4	2.5	1.0	.1	.0	.0		4.0	8.5	3.2	2.2	1.7	3.3	3.9	7.4	7.1	4.6
E	.8	2.1	1.0	.2	*	.0		4.2	8.6	2.2	.7	3.3	1.5	3.3	7.4	9.9	5.2
SE	.7	4.3	3.4	.8	.5	.0		9.7	12.7	10.5	12.9	5.6	5.3	8.9	7.9	11.5	17.8
S	1.2	9.9	7.9	2.6	.3	.0		21.8	12.6	27.1	19.4	15.3	19.7	19.0	23.5	22.4	25.0
SW	1.0	5.8	4.6	.8	*	.0		12.2	10.8	11.5	15.8	13.8	19.9	10.8	15.8	7.7	12.4
W	1.0	5.5	2.3	.8	*	.0		9.6	10.4	7.1	16.0	9.2	13.9	8.8	11.5	8.6	13.9
NW	1.5	7.2	3.4	.8	.1	.0		13.0	9.6	9.5	16.0	21.0	19.2	13.8	12.5	7.5	9.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.3							9.3	.0	13.7	3.9	7.3	3.0	12.6	3.1	10.2	1.0
TOT OBS	277	704	520	133	17	0	1651		10.4	432	103	273	99	285	98	264	97
TOT PCT	16.8	42.6	31.5	8.1	1.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	7.6	4.4	.7	.0		16.4	13.4	14.8	20.5	16.8	14.0
NE	2.0	1.7	.3	.0	.0		4.0	8.5	3.0	2.2	4.8	6.4
E	2.2	1.6	.3	.1	*		4.2	8.6	1.9	2.8	4.4	8.7
SE	3.1	3.7	2.2	.7	*		9.7	12.7	11.0	5.5	8.6	13.2
S	4.6	11.1	5.4	.6	.0		21.8	12.6	25.7	16.5	20.2	23.1
SW	4.0	5.6	2.3	.2	.0		12.2	10.8	12.3	15.5	12.1	8.9
W	3.3	4.4	1.5	.3	.0		9.6	10.4	8.8	10.4	9.5	10.0
NW	5.7	5.3	1.8	.3	.0		13.0	9.6	10.8	20.5	13.4	7.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.3						9.3	.0	11.8	6.2	10.2	7.8
TOT OBS	625	675	303	47	1	1651		10.4	535	372	383	361
TOT PCT	37.9	40.9	18.4	2.8	.1		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.8	9.2	40.2	31.8	6.5	.6	.0	9.9	100.0	535
06&09	6.2	4.8	43.0	34.7	9.1	2.2	.0	11.5	100.0	372
12&15	10.2	7.6	41.0	31.1	9.1	1.0	.0	10.4	100.0	383
18&21	7.8	7.8	47.6	28.3	8.0	.6	.0	10.1	100.0	361
TOT	193	124	704	520	133	17	0	10.4		1651
PCT	9.3	7.5	42.6	31.5	8.1	1.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.1	2.4	5.6	3.5		3.9
NE	1.9	.1	.9	1.8		4.5
E	1.0	.1	.6	2.4		5.8
SE	.8	.6	1.6	5.9		6.7
S	1.4	1.2	4.8	13.0		6.9
SW	1.4	.6	2.2	4.9		6.3
W	1.3	1.7	2.9	2.4		5.4
NW	4.1	2.0	4.1	2.6		4.4
VAR	.0	.0	.0	.0		.0
CALM	4.4	1.4	2.5	3.9		4.3
TOT OBS	271	114	280	450	1115	
TOT PCT	24.3	10.2	25.1	40.4	100.0	5.3

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.0	.0	.3	.8	2.9	1.3	.7	.0	.1	12.7	
NE	.7	.0	.1	.0	.5	.6	.4	.0	.1	.0	2.3	
E	.3	.0	.1	.5	.5	.9	.4	.0	.1	.0	1.2	
SE	1.2	*	.3	.8	1.5	2.4	.7	.1	.1	.0	1.9	
S	1.6	.2	.1	1.2	4.0	6.7	2.2	.2	.4	.0	3.8	
SW	.6	.0	.3	.7	1.2	2.4	.6	.7	.0	.0	2.6	
W	.2	.0	.1	1.0	1.3	1.4	.3	.2	.0	.0	3.8	
NW	.2	.0	.1	.7	2.0	1.4	.5	.7	.1	.0	7.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	.0	.1	.3	.7	1.3	.7	.2	.1	.0	7.0	
TOT OBS	83	2	12	61	140	224	78	31	9	1	474	1115
TOT PCT	7.4	.2	1.1	5.5	12.6	20.1	7.0	2.8	.8	.1	42.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	.8	.9	.9	.9	.9	.9	.9
* OR >5000	1.4	2.3	3.5	3.6	3.6	3.6	3.6	3.6
* OR >3500	5.0	9.1	10.7	10.8	10.8	10.8	10.8	10.8
* OR >2000	14.6	25.2	30.6	30.9	30.9	30.9	30.9	30.9
* OR >1000	19.5	34.7	42.5	43.1	43.1	43.4	43.4	43.4
* OR >600	21.5	38.9	47.6	48.6	48.6	48.8	48.8	48.8
* OR >300	21.5	39.3	48.3	49.5	49.6	50.0	50.0	50.0
* OR >150	21.5	39.4	48.4	49.6	49.8	50.2	50.2	50.2
* OR > 0	21.5	39.4	49.2	51.2	52.0	53.5	57.6	57.6
TOTAL	243	444	555	577	587	603	650	650

TOTAL NUMBER OF OBS: 1128

PCT FREQ NH <5/8: 42.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.9	7.2	8.7	4.6	5.7	4.6	6.9	8.0	32.3	7.1	1231

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	*	.2	1.7	1.8	.2	.3	*	.0	.0	4.5	
	NO PCP	.6	.4	.2	.6	2.3	.6	.1	.1	.0	1.6	6.1	
	TOT %	.8	.4	.4	2.0	4.1	.7	.4	.2	.0	1.6	10.5	
1/2<1	PCP	.0	.0	.1	.2	.1	.1	.0	.1	.0	.2	.7	
	NO PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.1	.3	
	TOT %	.0	.1	.1	.3	.1	.1	.0	.1	.0	.3	1.0	
1<2	PCP	.0	.0	.1	.2	.5	.2	.0	.0	.0	.0	1.1	
	NO PCP	.3	.2	.1	.1	.3	.1	.0	*	.0	.1	1.0	
	TOT %	.3	.2	.2	.2	.8	.3	.0	*	.0	.1	2.1	
2<5	PCP	.1	.1	.3	1.0	1.6	.4	.3	.0	.0	.2	4.0	
	NO PCP	.8	.3	.5	.7	1.7	1.1	.2	.3	.0	.8	6.4	
	TOT %	.9	.5	.8	1.8	3.3	1.6	.4	.3	.0	1.0	10.4	
5<10	PCP	.1	.1	.3	.5	.6	.1	.4	.2	.0	.1	2.5	
	NO PCP	4.6	.7	.7	1.7	5.2	2.1	1.8	3.1	.0	2.0	21.9	
	TOT %	4.7	.8	1.0	2.2	5.8	2.2	2.2	3.3	.0	2.1	24.3	
10+	PCP	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	NO PCP	11.7	2.5	1.6	3.6	8.6	3.9	5.3	8.2	.0	5.9	51.4	
	TOT %	11.7	2.5	1.6	3.6	8.6	4.0	5.4	8.2	.0	5.9	51.7	
	TOT OBS												1413
	TOT PCT	18.5	4.4	4.1	10.2	22.8	8.7	8.4	12.1	.0	10.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.5	.3	.3	.6	.5	.7	.0	1.4	4.6	
	4-10	.6	.3	.6	2.1	4.4	2.4	1.9	2.0	.0		14.3	
	11-21	.4	.1	.0	.3	1.4	1.9	.7	.2	.0		5.0	
	22+	.2	.0	.0	.2	1.0	.4	.1	.0	.0		1.9	
	TOT %	1.4	.5	1.1	2.9	7.1	5.2	3.2	2.9	.0	1.4	25.7	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.3	
	4-10	.0	.1	.0	.0	.0	.0	.0	.1	.0		.1	
	11-21	.0	.0	*	.1	.1	.1	.0	.1	.0		.3	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	TOT %	.0	.1	*	.3	.1	.1	.0	.1	.0	.2	.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.1	*	.0	.1	.1	.0	*	.0		.6	
	11-21	.1	.1	.1	*	.2	.1	.0	.0	.0		.5	
	22+	.0	.0	.0	.2	.2	.1	.0	.0	.0		.5	
	TOT %	.3	.1	.2	.2	.5	.2	.0	*	.0	.1	1.6	
2<5	0-3	*	.1	.0	*	.1	.1	.0	.1	.0	.8	1.2	
	4-10	.3	.2	.3	.3	.7	.4	.2	.1	.0		2.5	
	11-21	.2	.2	.3	.7	1.5	.9	.1	.1	.0		4.1	
	22+	.2	.0	.1	.4	.5	.2	.2	*	.0		1.5	
	TOT %	.7	.4	.7	1.4	2.9	1.6	.5	.4	.0	.8	9.4	
5<10	0-3	.1	*	.1	.1	.5	.1	.1	.3	.0	1.7	2.9	
	4-10	1.0	.6	.4	.5	1.4	1.0	.9	1.5	.0		7.5	
	11-21	2.0	.1	.1	1.0	1.9	.7	.5	.6	.0		6.9	
	22+	.9	.0	.2	.2	.7	.0	.2	.4	.0		2.7	
	TOT %	4.1	.7	.8	1.8	4.5	1.8	1.7	2.8	.0	1.7	20.0	
10+	0-3	.6	.2	.2	.3	.2	.2	.4	.4	.0	5.1	7.7	
	4-10	3.4	1.1	.6	1.4	3.1	1.8	2.4	3.6	.0		17.5	
	11-21	5.1	.7	.4	1.3	2.8	1.0	1.2	2.5	.0		15.0	
	22+	.8	.1	.1	.1	.4	.1	.3	.4	.0		2.3	
	TOT %	9.[illegible]	2.1	1.3	3.1	6.5	3.2	4.2	6.9	.0	5.1	42.4	
	TOT OBS												1616
	TOT PCT	16.4	3.9	4.1	9.7	21.6	12.2	9.7	13.1	.0	9.3	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1908-1974

AREA 0016 WEST COAST KAMCHATKA
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.6	.4	1.1	4.2	11.9	23.9	8.6	3.5	2.0	.0	62.4	37.6	452
06&09	5.7	.0	1.1	8.0	10.7	14.9	7.7	2.3	.0	.0	50.6	49.4	261
12&15	6.1	.0	.9	4.8	10.0	19.1	4.8	1.7	.0	.4	47.8	52.2	230
18&21	12.7	.0	1.4	5.0	16.3	17.2	5.4	2.3	.0	.0	60.2	39.8	221
TOT	87	2	13	62	141	229	82	31	9	1	657	507	1164
PCT	7.5	.2	1.1	5.3	12.1	19.7	7.0	2.7	.8	.1	56.4	43.6	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
00&03	20.4	.5	1.4	7.6	18.3	51.8	589
06&09	25.7	1.3	1.0	8.0	23.1	40.9	389
12&15	24.4	.5	2.3	11.5	21.8	39.5	390
18&21	30.3	1.3	2.4	12.3	18.8	34.9	373
TOT	428	15	30	167	353	748	1741
PCT	24.6	.9	1.7	9.6	20.3	43.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.3	8.8	19.5	43.5	37.0	446
06&09	5.8	7.8	23.6	27.9	48.4	258
12&15	6.1	7.0	25.8	27.7	46.5	213
18&21	13.7	15.2	33.6	31.3	35.1	211
TOT	85	104	274	391	463	1128
PCT	7.5	9.2	24.3	34.7	41.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.6	.0	.0	1.1	.6	4	2.2
50/54	.0	.0	.0	.0	.0	7.2	19.9	21.5	88	48.6
45/49	.0	.0	.0	.0	1.1	7.7	11.6	27.1	86	47.5
40/44	.0	.0	.0	.0	.0	.0	.6	1.1	3	1.7
TOTAL	0	0	0	1	2	27	60	91	181	100.0
PCT	.0	.0	.0	.6	1.1	14.9	33.1	50.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.0	.0	.0	.0	.0	1.1	.6	.0	.0
9.1	1.1	.0	1.9	9.8	8.7	8.3	8.6	.0	1.1
4.4	.7	1.9	8.4	8.6	2.9	10.8	9.3	.0	.6
.0	.0	.6	.0	.0	.1	1.0	.0	.0	.0
14.1	1.8	2.5	10.4	18.4	11.7	21.1	18.4	.0	1.7

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	65	61	57	51	45	39	37	51.1	581
06&09	68	64	59	52	46	41	34	52.5	384
12&15	61	57	55	50	45	41	36	50.1	397
18&21	57	55	54	50	41	37	34	49.0	379
TOT	68	61	57	50	45	39	34	50.7	1741

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.4	2.4	19.0	45.2	31.0	85	42
06&09	.0	.0	2.1	14.9	27.7	55.3	89	47
12&15	.0	.0	.0	9.1	29.5	61.4	91	44
18&21	.0	.0	.0	16.7	31.3	52.1	90	48
TOT	0	1	2	27	60	91	89	181

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
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AREA 0016 WEST COAST KAMCHATKA
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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	61 64	65 68	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.1	.1	3	.0	.4
11/13	.0	.0	.0	.0	.0	.2	.4	.1	.0	6	.1	.6
9/10	.0	.0	.0	.0	.4	.7	.4	.4	.0	15	.2	1.5
7/8	.0	.0	.0	1.1	.2	.6	.8	.6	.0	28	.1	3.2
6	.0	.0	.0	.2	.5	.5	.0	.0	.0	10	.1	1.1
5	.0	.0	.0	.0	1.8	2.0	1.1	.0	.0	41	.0	4.9
4	.0	.0	.0	.6	2.4	1.9	1.1	.1	.0	51	.6	5.5
3	.0	.0	.1	1.4	2.4	.7	.1	.0	.0	40	.7	4.1
2	.0	.0	.1	2.1	5.2	5.7	.2	.1	.0	114	1.8	11.8
1	.0	.0	.2	2.5	3.2	1.5	.1	.0	.0	64	.4	7.3
0	.0	.0	.0	6.8	12.2	4.5	.1	.0	.0	198	1.3	22.3
-1	.0	.0	.1	3.2	2.6	.4	.0	.0	.0	54	.6	5.8
-2	.0	.0	.7	4.9	2.9	.6	.0	.0	.0	76	.5	8.6
-3	.0	.0	.2	1.8	1.9	.0	.0	.0	.0	33	.4	3.6
-4	.0	.1	.4	1.8	2.0	.5	.0	.0	.0	40	.1	4.6
-5	.1	.0	1.0	1.7	.7	.0	.0	.0	.0	29	.4	3.1
-6	.0	.0	.1	.1	.0	.0	.0	.0	.0	2	.0	.2
-7/-8	.0	.1	.7	.2	.8	.0	.0	.0	.0	16	.0	1.9
-9/-10	.0	.4	.2	.1	.2	.0	.0	.0	.0	8	.1	.8
-11/-13	.0	.5	.0	.7	.0	.0	.0	.0	.0	10	.0	1.2
-14/-16	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	9	33	246	331	169	36	12	1	839	62	777
PCT	.2	1.1	3.9	29.3	39.5	20.1	4.3	1.4	.1	100.0	7.4	92.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.1	.2	.0	.0	.0	2.8
1-2	.2	3.2	.9	.0	.0	.0	4.3
3-4	.0	.8	3.6	.2	.0	.0	4.6
5-6	.0	.2	2.5	.6	.0	.0	3.3
7	.0	.0	1.5	.2	.0	.0	1.6
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.3	9.2	1.0	.0	.0	17.2

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.4	.4	.0	.0	.0	2.1
1-2	.0	.4	.2	.0	.0	.0	.6
3-4	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.2	.2	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	1.1	.0	.0	.0	3.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.5	.7	.0	.0	.0	2.2
1-2	.1	.6	1.3	.0	.0	.0	1.9
3-4	.2	.8	2.3	.0	.0	.0	3.3
5-6	.2	.2	1.1	.0	.0	.0	1.5
7	.0	.2	.5	.3	.0	.0	1.0
8-9	.0	.0	.4	.2	.0	.0	.7
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.3	6.2	.5	.3	.0	10.9

PERIOD: (OVER-ALL) 1963-1974 SEPTEMBER AREA 0016 WEST COAST KAMCHATKA 54.1N 155.6E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.9	.2	.0	.0	.0	3.9
1-2	.2	3.8	3.3	.0	.0	.0	7.2
3-4	.0	.6	5.0	.0	.0	.0	5.6
5-6	.0	.6	1.3	.7	.0	.0	2.5
7	.0	.2	.8	1.9	.0	.0	2.9
8-9	.0	.0	.2	.7	.2	.0	1.1
10-11	.0	.0	.0	.2	.2	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	8.1	10.8	3.6	.4	.0	23.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	2.1	.0	.0	.0	.0	2.1
1-2	.0	3.0	.9	.0	.0	.0	3.9
3-4	.0	.7	2.0	.4	.0	.0	3.1
5-6	.0	.1	.4	.2	.0	.0	.8
7	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	6.0	3.3	.7	.0	.0	10.1

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.2	.0	.0	.0	1.3
1-2	.2	2.0	.2	.0	.0	.0	2.4
3-4	.0	.2	1.4	.2	.0	.0	1.9
5-6	.0	.9	.7	.7	.0	.0	2.3
7	.0	.2	.9	.2	.0	.0	1.3
8-9	.0	.0	.6	.4	.2	.0	1.2
10-11	.0	.0	.3	.2	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.3	4.3	1.8	.2	.0	10.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	.1	.0	.0	.0	1.7	
1-2	.1	2.8	1.0	.0	.0	.0	3.9	
3-4	.0	1.6	3.1	.2	.0	.0	4.9	
5-6	.0	.5	2.5	.3	.0	.0	3.3	
7	.0	.2	.5	.3	.0	.0	1.0	
8-9	.0	.0	.2	.2	.1	.0	.4	
10-11	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	6.8	7.4	1.0	.1	.0	15.4	94.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	13.6	1.8	.0	.0	.0	22.3	
1-2	1.1	16.0	8.1	.0	.0	.0	25.2	
3-4	.4	4.8	17.9	1.1	.0	.0	24.3	
5-6	.2	2.8	9.0	2.4	.0	.0	14.4	
7	.0	1.1	4.2	2.8	.0	.0	8.1	
8-9	.0	.0	1.8	1.8	.4	.0	3.9	
10-11	.0	.0	.7	.4	.2	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.2	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.8	38.3	43.3	8.8	.9	.0	100.0	457

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	9.7	9.6	5.7	1.8	.4	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	301	3
6-7	.0	.4	3.9	4.9	4.6	2.1	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	170	6
8-9	.0	.5	.2	.3	.5	.6	.8	.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	9
10-11	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
12-13	.0	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
>13	.0	.0	.0	.1	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	11.9	1.9	19.1	7.9	5.2	2.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	507	3
TOTAL	136	131	347	198	129	55	18	3	18	1	0	0	0	0	0	0	0	0	0	1036	4
PCT	13.1	12.6	33.5	19.1	12.5	5.3	1.7	.3	1.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	9.3	.0	2.4	.0	8.3	.0	.0	18.1	4.8	.0	.7	.0	.0		.0	76.5
NE	19.3	.0	3.7	1.5	3.3	.0	1.5	25.9	4.4	.0	3.0	.0	.0		.0	66.7
E	10.5	.0	3.8	.0	8.1	.0	.0	19.5	1.9	.0	.0	.0	.0		.0	78.6
SE	16.9	.0	3.0	.0	2.8	.0	.0	22.5	5.3	.0	1.0	1.0	.0		.0	70.2
S	15.4	1.1	4.0	.0	2.7	.6	.6	24.4	6.2	.6	3.9	.0	1.6		.0	63.9
SW	9.5	.0	3.5	.0	2.6	.0	2.6	18.3	7.5	2.6	2.9	.0	.2		.0	70.3
W	9.6	2.0	2.0	.0	4.5	.0	3.8	20.9	11.1	.0	1.8	.0	.0		.0	66.2
NW	5.3	.8	.8	.0	11.2	.0	.2	17.4	12.8	.0	1.1	.0	.0		.0	68.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	5.1	.0	5.1	.0	5.1	.0	.0	15.4	5.1	.0	.0	.0	.0		.0	79.5
TOT PCT	11.5	.6	2.9	.1	5.3	.1	1.0	20.6	7.1	.5	1.9	.1	.3		.0	69.7
TOT OBS:	882															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	9.6	.8	1.8	.3	6.0	.0	1.3	18.4	6.5	.0	2.8	.3	.0		.0	72.0
06&09	13.7	.5	3.8	.0	3.3	.5	.0	21.4	7.7	.0	2.2	.0	.5		.0	68.1
12&15	13.4	.5	4.3	.0	5.9	.0	1.6	24.6	8.0	1.6	1.1	.0	.0		.0	65.8
18&21	12.5	.0	2.6	.0	5.3	.0	.7	21.1	7.2	.7	.0	.0	1.3		.0	70.4
TOT PCT	11.7	.6	2.9	.1	5.3	.1	1.0	20.7	7.2	.4	1.9	.1	.3		.0	69.7
TOT OBS:	907															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	4.9	5.6	1.2	.2	.0		12.1	13.3	10.5	.0	13.8	9.1	12.6	7.7	14.7	9.1
NE	.1	4.1	3.9	.3	.0	.0		8.0	11.8	8.2	.0	5.8	9.1	10.8	7.7	7.8	.0
E	.2	3.7	2.0	.2	.0	.0		6.1	9.7	6.1	.0	4.5	.0	7.6	.0	7.8	6.8
SE	.5	4.2	4.4	1.5	.5	.0		11.1	14.1	13.6	9.1	10.0	.0	7.5	15.4	11.7	11.4
S	.4	3.7	9.1	5.2	1.0	.1		19.6	18.3	23.3	9.1	19.8	9.1	18.7	21.2	13.1	25.0
SW	.3	3.3	4.3	2.7	1.8	.0		12.3	19.2	9.2	38.6	13.4	18.2	9.9	9.6	18.1	20.5
W	.1	3.3	5.5	1.8	.9	.0		11.5	17.0	11.6	13.6	10.0	15.9	14.5	26.9	8.5	.0
NW	.3	4.5	6.7	3.5	.5	.0		15.4	16.5	13.7	29.5	18.0	20.5	14.9	11.5	14.7	27.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0	3.7	.0	4.8	18.2	3.4	.0	3.5	.0
TOT OBS	51	269	350	139	41	1	851		15.1	322	11	168	11	174	13	141	11
TOT PCT	6.0	31.6	41.1	16.3	4.8	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.3	6.3	3.0	.5	.0		12.1	13.3	10.1	13.5	12.3	14.3
NE	1.6	4.6	1.7	*	.0		8.0	11.8	8.0	6.0	10.6	7.2
E	2.7	2.8	.5	.1	.0		6.1	9.7	5.9	4.2	7.1	7.7
SE	2.4	5.6	1.8	1.3	.0		11.1	14.1	13.4	9.4	8.0	11.7
S	1.6	7.6	8.0	1.9	.5		19.6	18.3	22.8	19.1	18.9	14.0
SW	1.0	4.8	3.8	2.3	.5		12.3	19.2	10.2	13.7	9.9	18.3
W	1.8	4.7	3.6	1.0	.5		11.5	17.0	11.6	10.3	15.4	7.9
NW	1.7	7.3	4.5	1.8	.2		15.4	16.5	14.3	18.2	14.7	15.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	3.6	5.6	3.2	3.3
TOT OBS	162	371	229	75	14	851		15.1	333	179	187	152
TOT PCT	19.0	43.6	26.9	8.8	1.6		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1957-1974
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AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	2.1	33.6	39.0	16.8	4.5	.3	14.9	100.0	333
06&09	5.6	2.2	29.6	41.9	16.2	4.5	.0	14.8	100.0	179
12&15	3.2	2.1	32.6	41.7	14.4	5.9	.0	15.7	100.0	187
18&21	3.3	2.0	28.3	44.1	17.8	4.6	.0	15.3	100.0	152
TOT	33	18	269	350	139	41	1	15.1		851
PCT	3.9	2.1	31.6	41.1	16.3	4.8	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.0	.9	3.9	5.5		5.9
NE	2.1	1.0	2.2	2.7		5.0
E	.7	.3	1.8	2.8		6.3
SE	1.6	.6	2.6	7.1		6.4
S	.8	.9	5.2	12.1		7.0
SW	.4	1.3	5.3	5.4		6.5
W	.6	.7	5.5	4.3		6.4
NW	1.2	1.7	6.3	6.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	.4	1.4	1.8		5.5
TOT OBS	77	57	251	351	736	6.3
TOT PCT	10.5	7.7	34.1	47.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.2	.5	2.5	2.4	1.1	.1	.4	.0	5.0	
NE	.1	.0	.0	.3	.8	1.1	.7	.1	.3	.0	4.5	
E	.1	.0	.0	.0	1.1	1.2	1.2	.3	.4	.0	1.4	
SE	.3	*	.1	.4	1.5	3.0	1.7	.2	.3	.3	3.8	
S	.5	.2	.1	1.1	4.3	4.5	3.4	.5	.4	.0	4.1	
SW	.3	.1	.0	.4	3.4	3.1	2.1	.4	.0	*	2.1	
W	.2	.0	.4	.1	2.0	3.4	1.4	.1	.1	.1	3.3	
NW	.4	.1	.3	.3	3.2	3.6	2.8	.1	.1	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.1	.1	.5	1.0	.4	.1	.1	.3	1.8	
TOT OBS	16	4	10	27	142	171	108	15	16	5	222	736
TOT PCT	2.2	.5	1.4	3.7	19.3	23.2	14.7	2.0	2.2	.7	30.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.3	2.6	2.8	2.8	2.8	2.8	2.8	2.8
= OR >5000	3.2	4.6	4.8	4.8	4.8	4.8	4.8	4.8
= OR >3500	8.1	17.1	19.2	19.5	19.7	19.7	19.7	19.7
= OR >2000	20.5	35.4	40.8	42.0	42.7	42.7	42.7	42.7
= OR >1000	25.3	48.3	58.7	61.0	62.0	62.3	62.3	62.3
= OR >600	25.7	49.7	61.9	64.5	65.5	65.9	65.9	65.9
= OR >300	25.7	50.1	63.0	65.5	66.8	67.2	67.3	67.3
= OR >150	25.7	50.3	63.4	65.9	67.3	67.7	67.8	67.8
= OR > 0	25.8	51.0	64.3	67.3	68.6	69.4	70.0	70.0
TOTAL	192	379	478	500	510	516	520	520

TOTAL NUMBER OF OBS: 743

PCT FREQ NH <5/8: 30.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.9	2.6	5.4	3.6	5.1	3.9	11.6	10.5	44.6	1.7	869

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PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	.1	.0	.1	.0	.3	.2	.6	.0	.0	1.7	
	NO PCP	.0	.0	.0	.1	.0	.0	.1	*	.0	.0	.2	
	TOT %	.3	.1	.0	.2	.0	.3	.3	.7	.0	.0	1.9	
1/2<1	PCP	.0	.1	.2	.3	.7	*	.1	.0	.0	.0	1.4	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.1	.1	.2	.3	.7	*	.1	*	.0	.0	1.5	
1<2	PCP	.6	.2	.2	.2	.5	.4	.6	.4	.0	.1	3.3	
	NO PCP	.0	.0	.0	.1	.2	.1	.1	.3	.0	.0	.8	
	TOT %	.6	.2	.2	.3	.7	.4	.7	.8	.0	.1	4.1	
2<5	PCP	.8	1.0	.5	.7	2.2	.8	.5	1.1	.0	.2	7.9	
	NO PCP	1.2	.6	.8	.6	1.7	1.8	1.5	1.7	.0	.3	10.3	
	TOT %	2.0	1.6	1.3	1.3	4.0	2.5	2.0	2.9	.0	.6	18.2	
5<10	PCP	.5	.5	.2	1.2	1.2	.6	.9	.5	.0	.3	6.0	
	NO PCP	2.7	1.7	.9	2.7	5.6	4.9	2.1	5.0	.0	.5	26.0	
	TOT %	3.1	2.2	1.1	3.9	6.8	5.5	3.1	5.4	.0	.8	32.0	
10+	PCP	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.6	
	NO PCP	5.8	3.3	3.1	4.9	7.5	3.6	5.2	5.2	.0	3.0	41.7	
	TOT %	5.8	3.3	3.1	5.0	7.6	3.8	5.2	5.4	.0	3.0	42.3	
	TOT OBS												873
	TOT PCT	11.9	7.6	5.9	11.1	19.8	12.7	11.4	15.1	.0	4.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.0	.1	.1	*	.0		.4	
	11-21	.1	.1	.0	.1	.0	.1	.2	*	.0		.7	
	22+	.2	.0	.0	.0	.0	.1	.0	.6	.0		1.0	
	TOT %	.3	.1	.0	.2	.0	.4	.3	.7	.0	.0	2.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.2	.1	.0	.0	*	.0		.6	
	11-21	.0	.0	.1	*	.2	.0	.0	.0	.0		.4	
	22+	.0	.0	.0	.1	.2	*	.1	.0	.0		.5	
	TOT %	.1	.1	.2	.3	.7	*	.1	*	.0	.0	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.3	.1	.1	.0	.1	.0	.0	.2	.0		.9	
	11-21	.3	.1	.1	.2	.5	.2	.6	.6	.0		2.7	
	22+	.0	.0	.0	.1	.0	.1	.0	.1	.0		.4	
	TOT %	.6	.2	.2	.4	.6	.3	.6	.8	.0	.1	4.1	
2<5	0-3	.0	.1	.1	.0	.0	.0	.0	.2	.0	.6	1.1	
	4-10	1.1	1.0	.9	.3	.2	.6	.5	.6	.0		5.2	
	11-21	.6	.5	.4	.6	1.9	.8	.6	1.5	.0		6.8	
	22+	.2	.1	.0	.4	2.0	1.2	1.1	.6	.0		5.7	
	TOT %	1.9	1.7	1.4	1.3	4.1	2.6	2.1	2.9	.0	.6	18.8	
5<10	0-3	.1	.0	.0	.2	.2	.2	.1	.0	.0	.7	1.6	
	4-10	1.1	1.1	.5	1.1	1.3	1.0	.9	1.6	.0		8.5	
	11-21	1.6	1.1	.3	1.7	3.0	2.1	1.4	2.4	.0		13.6	
	22+	.4	*	.1	1.0	2.2	2.4	.8	1.5	.0		8.4	
	TOT %	3.2	2.3	1.0	4.0	6.7	5.6	3.2	5.5	.0	.7	32.2	
10+	0-3	.0	.0	.1	.4	.1	*	.0	.0	.0	2.5	3.1	
	4-10	2.3	1.9	2.0	2.5	2.0	1.7	1.9	1.7	.0		16.0	
	11-21	2.5	1.4	1.0	1.5	3.6	1.1	2.7	2.6	.0		16.3	
	22+	.5	.2	.1	.5	1.9	.7	.7	1.1	.0		5.8	
	TOT %	5.4	3.5	3.2	4.8	7.6	3.5	5.3	5.5	.0	2.5	41.2	
	TOT OBS												808
	TOT PCT	11.6	8.0	6.0	11.0	19.8	12.5	11.7	15.4	.0	4.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.9	.8	1.1	2.7	21.0	26.8	13.7	2.2	2.7	1.4	74.3	25.7	366
06&09	1.9	.0	1.3	4.5	19.5	25.3	14.9	1.9	1.9	.0	71.4	28.6	154
12&15	3.3	.0	2.0	4.6	11.1	9.8	17.0	2.6	1.3	.0	51.6	48.4	153
18&21	1.0	1.0	1.0	3.1	25.0	22.9	15.6	.0	1.0	.0	70.8	29.2	96
TOT	16	4	10	27	148	174	114	15	16	5	529	240	769
PCT	2.1	.5	1.3	3.5	19.2	22.6	14.8	2.0	2.1	.7	68.8	31.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.6	1.6	2.6	11.2	27.0	56.1	385
06&09	2.2	.5	4.9	20.0	30.3	42.2	185
12&15	2.2	3.3	4.9	25.8	36.8	26.9	182
18&21	2.0	.0	6.1	24.5	42.2	25.2	147
TOT	17	13	37	163	289	380	899
PCT	1.9	1.4	4.1	18.1	32.1	42.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.9	5.2	18.2	57.5	24.3	362
06&09	2.0	4.0	25.8	45.7	28.5	151
12&15	3.5	9.2	35.5	28.4	36.2	141
18&21	1.1	3.4	25.8	47.2	27.0	89
TOT	16	41	178	359	206	743
PCT	2.2	5.5	24.0	48.3	27.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.9	1.7	3	2.6
45/49	.0	.0	.0	.0	1.7	3.5	4.3	6.1	18	15.7
40/44	.0	.0	.0	.0	1.7	9.6	24.3	19.1	63	54.8
35/39	.0	.0	.0	.0	.0	2.6	8.7	14.8	30	26.1
30/34	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
TOTAL	0	0	0	0	4	18	44	49	115	100.0
PCT	.0	.0	.0	.0	3.5	15.7	38.3	42.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	1.7	.0	.9	.0	.0
.0	.9	.0	3.9	3.0	2.8	3.0	2.0	.0	.0
9.1	2.2	4.6	9.3	10.2	8.5	4.3	4.8	.0	1.7
3.5	1.1	3.0	2.8	3.3	1.1	4.3	4.3	.0	2.6
.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
13.5	4.1	7.6	16.1	16.5	14.1	11.7	12.0	.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
00&03	58	55	51	41	32	26	21	41.3	373
06&09	54	52	50	42	34	29	21	42.2	174
12&15	55	54	50	41	32	27	26	41.0	187
18&21	54	51	48	41	32	28	23	40.6	149
TOT	58	54	50	41	32	27	21	41.3	883

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	10.0	16.7	36.7	36.7	85	30
06&09	.0	.0	3.4	17.2	24.1	55.2	89	29
12&15	.0	.0	.0	15.6	43.8	40.6	89	32
18&21	.0	.0	.0	12.5	50.0	37.5	89	24
TOT	0	0	4	18	44	49	88	115

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.3N 155.6E

TABLE 17

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

AIR-SEA	25	29	33	37	41	45	49	53	57	TOT	W	WO
THF DIF	28	32	36	40	44	48	52	56	60		FOG	FOG
11/13	.0	.0	.0	.0	.0	.2	.2	.0	.2	3	.0	.7
9/10	.0	.0	.0	.0	.2	.7	.0	.2	.2	6	.0	1.4
7/8	.0	.0	.0	.0	2.9	.9	.0	.0	.0	17	.0	3.8
6	.0	.0	.0	.0	.0	.5	.0	.0	.0	2	.0	.5
5	.0	.0	.0	.0	3.2	.9	.2	.5	.0	21	.0	4.8
4	.0	.0	.0	1.1	1.8	.9	.9	.7	.0	24	.2	5.2
3	.0	.0	.0	.0	.0	.9	1.1	.2	.0	10	.2	2.0
2	.0	.0	.0	1.8	1.6	1.1	.2	.2	.0	22	.0	5.0
1	.0	.0	.0	.7	.5	2.7	.5	.0	.0	19	.0	4.3
0	.0	.0	.0	.9	1.8	3.8	.5	.0	.0	31	.2	6.8
-1	.0	.0	.0	.5	2.5	1.6	.5	.0	.0	22	.0	5.0
-2	.0	.0	.9	.9	4.8	2.3	.0	.0	.0	39	.0	8.8
-3	.0	.0	.0	2.0	4.5	2.9	.0	.0	.0	40	.5	8.6
-4	.0	.0	.9	3.4	4.1	.5	.0	.0	.0	39	.0	8.8
-5	.0	.5	1.1	5.2	2.5	.0	.0	.0	.0	41	.0	9.3
-6	.0	.2	1.6	2.9	.7	.0	.0	.0	.0	24	.0	5.4
-7/-8	.0	.2	3.4	2.7	.5	.0	.0	.0	.0	30	.2	6.6
-9/-10	.2	.7	1.6	1.8	.7	.2	.0	.0	.0	23	.0	5.2
-11/-13	.0	.9	1.6	.5	.2	.2	.0	.0	.0	15	.0	3.4
-14/-16	.2	.0	.5	.0	.7	.0	.0	.0	.0	6	.0	1.4
-17/-19	.0	.0	.2	.7	.7	.0	.0	.0	.0	7	.0	1.6
-20/-22	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	3		52		149		18		2		6	436
		11		111		88		8		442		
PCT	.7	2.5	11.8	25.1	33.7	19.9	4.1	1.8	.5	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	2.3	2.1	.0	.0	.0	4.4
3-4	.0	1.1	.8	.0	.0	.0	1.8
5-6	.0	.0	2.5	.0	.0	.0	2.5
7	.0	.0	.3	.7	.0	.0	1.0
8-9	.0	.0	.4	.0	.4	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	6.0	.7	.4	.0	11.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.4	.0	.0	.0	1.8
1-2	.0	2.1	.9	.0	.0	.0	3.0
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.1	.5	.0	.0	.6
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	1.8	.5	.0	.0	5.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.8	.0	.0	.0	.0	2.8
1-2	.0	.8	.6	.0	.0	.0	1.3
3-4	.0	.4	1.0	.4	.0	.0	1.7
5-6	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	1.9	.8	.0	.0	6.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.0	.0	.0	.0	.0	3.8
1-2	.4	1.5	2.0	.0	.0	.0	3.9
3-4	.0	.4	.2	.0	.0	.0	.6
5-6	.0	.0	.9	.4	.0	.0	1.2
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.8	.4	.4	.0	1.5
10-11	.0	.0	.0	.4	.4	.0	.8
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.5	.4	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	4.9	3.8	2.4	1.1	.0	13.5

PERIOD: (OVER-ALL) 1963-1974 OCTOBER AREA 0016 WEST COAST KAMCHATKA

TABLE 18 (CONT) 54.3N 155.6E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	1.0	.0	.0	.0	2.6
1-2	.4	1.5	2.8	.0	.0	.0	4.7
3-4	.0	.4	1.8	.4	.0	.0	2.6
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.4	1.9	1.7	.0	.0	4.0
8-9	.0	.3	.4	.0	.0	.0	.7
10-11	.0	.0	.4	.8	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.9	9.6	3.5	.0	.0	17.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.2	.0	.0	.0	2.3
1-2	.0	.5	.8	.0	.0	.0	1.2
3-4	.0	.4	1.2	.4	.0	.0	2.0
5-6	.0	.0	.2	.0	.4	.0	.6
7	.0	.0	.4	1.3	.0	.0	1.7
8-9	.0	.1	.4	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.4	.0	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	3.5	1.7	.4	.0	8.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	.0	1.3	3.0	.0	.0	.0	4.3
3-4	.0	.3	1.7	1.4	.0	.0	3.4
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.3	.0	.6
17-19	.0	.0	.3	.0	.6	.0	.9
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	7.7	1.7	.9	.0	14.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	
1-2	.0	2.2	1.3	.0	.0	.0	3.5	
3-4	.0	1.0	2.8	.5	.0	.0	4.2	
5-6	.0	.0	1.1	.4	.0	.0	1.4	
7	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.0	.8	1.1	.0	.0	1.9	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.8	.0	.0	.8	
13-16	.0	.0	.0	.1	.1	.0	.2	
17-19	.0	.0	.1	.4	.6	.0	1.1	
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	.4	.0	.4	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.7	8.1	3.3	1.1	.0	17.1	95.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	16.1	1.5	.0	.0	.0	23.0	
1-2	.8	12.3	13.4	.0	.0	.0	26.4	
3-4	.0	3.8	9.6	3.1	.0	.0	16.5	
5-6	.0	.0	6.9	1.1	.4	.0	8.4	
7	.0	.4	5.7	4.6	.0	.0	10.7	
8-9	.0	.4	3.4	1.5	.8	.0	6.1	
10-11	.0	.0	1.1	1.1	.4	.0	2.7	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	1.1	.8	.0	1.9	
17-19	.0	.0	.8	.8	1.1	.0	2.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.4	.0	.4	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	33.0	42.5	14.6	3.8	.0	100.0	261

PERIOD: (OVER-ALL) 1957-1974 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.0	5.4	3.7	2.3	1.0	.6	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	4
6-7	.1	.7	2.1	2.3	3.5	1.7	.7	.2	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	7
8-9	.0	.1	.0	.7	1.1	.7	.5	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	8
10-11	.0	.2	.1	.0	.0	.0	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	7	10
12-13	.0	.0	.4	.0	.0	.1	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	7	12
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	23
INDET	3.8	1.9	9.5	17.9	19.1	6.2	1.7	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	492	5
TOTAL	35	73	142	200	211	79	31	8	13	10	1	2	0	1	0	0	0	0	0	810	6
PCT	4.8	9.0	17.5	24.7	26.0	9.8	3.8	1.0	1.6	1.2	.1	.2	.0	.1	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.3	.0	4.6	.0	13.1	.0	.0	20.0	2.3	2.3	.0	.0	.0	.0		75.4
NE	1.3	.0	.0	.0	23.4	.0	.0	24.7	5.1	.0	.0	.0	.0	.0		70.3
E	6.7	.0	.0	.0	12.9	.0	.0	19.5	1.9	.0	5.2	.0	.0	.0		73.3
SE	7.5	.0	6.6	.0	9.9	.0	.0	24.0	4.7	.0	5.8	.0	1.1	.0		64.4
S	13.9	.0	9.8	.0	18.6	.0	.0	42.3	7.3	.0	2.5	.0	.0	.0		47.9
SW	16.1	.0	2.7	2.2	16.7	.0	.0	37.6	17.2	.0	2.2	.0	.0	.0		43.0
W	3.4	.0	.0	.0	19.1	.0	.0	20.6	15.7	.0	.0	.0	.0	.0		63.7
NW	3.2	.0	.0	.0	15.9	1.6	3.2	22.2	9.5	1.6	1.6	.0	.0	.0		66.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	4.5	.0	.0	4.5	.0	.0	4.5	.0	.0	.0		90.9
TOT PCT	7.0	.0	3.5	.2	15.2	.2	.4	26.0	7.4	.4	2.7	.0	.2	.0		63.5
TOT OBS:	488															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.9	.0	3.4	.0	17.7	.0	.5	26.1	9.4	.5	2.5	.0	.5	.0		61.1
06&09	8.7	.0	1.9	.0	11.5	.0	.0	21.2	6.7	.0	1.9	.0	.0	.0		70.2
12&15	7.5	.0	1.9	.0	12.1	.9	.0	22.4	6.5	.0	2.8	.0	.0	.0		68.2
18&21	8.0	.0	8.0	1.1	18.4	.0	1.1	36.8	4.6	1.1	3.4	.0	.0	.0		55.2
TOT PCT	6.8	.0	3.6	.2	15.4	.2	.4	26.1	7.4	.4	2.6	.0	.2	.0		63.5
TOT OBS:	501															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.3	4.7	2.3	.0	.0		8.6	16.9	8.7	.0	11.2	.0	8.4	.0	5.6	.0
NE	.4	3.5	3.5	.9	.2	.0		8.5	13.0	9.5	.0	8.8	.0	9.3	.0	4.7	.0
E	.6	5.6	3.7	.2	.3	.0		10.4	10.7	10.2	.0	8.1	.0	11.8	.0	11.8	.0
SE	.2	5.5	9.0	2.6	1.2	.1		18.6	15.9	21.0	.0	17.1	.0	18.9	.0	15.0	.0
S	.2	4.7	6.4	2.7	1.8	.6		16.4	19.3	17.2	.0	17.4	.0	13.0	.0	18.2	.0
SW	.0	2.6	4.7	1.4	1.1	.4		10.2	19.4	8.5	.0	7.1	.0	12.5	.0	14.4	.0
W	.2	.7	4.7	3.9	.6	.0		10.1	20.7	12.8	.0	8.1	.0	7.5	.0	10.3	.0
NW	.0	1.9	5.4	4.5	1.1	.0		12.8	20.4	9.2	.0	14.5	.0	13.2	.0	17.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	2.8	.0	7.6	.0	5.5	.0	2.4	.0
TOT OBS	31	122	200	88	30	5	476		16.5	176	0	105	0	110	0	85	0
TOT PCT	6.5	25.6	42.0	18.5	6.3	1.1		100.0		100.0	.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.9	2.9	4.5	.2	.0		8.6	16.9	8.7	11.2	8.4	5.6
NE	2.0	4.2	2.0	.2	.0		8.5	13.0	9.5	8.8	9.3	4.7
E	3.7	5.3	.9	.4	.2		10.4	10.7	10.2	8.1	11.8	11.8
SE	2.3	9.3	4.8	1.6	.5		18.6	15.9	21.0	17.1	18.9	15.0
S	2.1	5.7	5.0	2.9	.8		16.4	19.3	17.2	17.4	13.0	18.2
SW	1.1	4.5	2.9	.4	1.3		10.2	19.4	8.5	7.1	12.5	14.4
W	.4	3.4	4.4	1.6	.2		10.1	20.7	12.8	8.1	7.5	10.3
NW	.4	4.0	5.4	2.8	.2		12.8	20.4	9.2	14.5	13.2	17.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	2.8	7.6	5.5	2.4
TOT OBS	83	187	143	48	15	476		16.5	176	105	110	85
TOT PCT	17.4	39.3	30.0	10.1	3.2		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	2.3	26.7	44.3	17.0	5.7	1.1	16.6	100.0	176
06&09	7.6	1.9	24.8	37.1	22.9	4.8	1.0	16.1	100.0	105
12&15	5.5	1.8	29.1	39.1	14.5	9.1	.9	16.2	100.0	110
18&21	2.4	2.4	20.0	47.1	21.2	5.9	1.2	17.0	100.0	85
TOT	21	10	122	200	88	30	5	16.5		476
PCT	4.4	2.1	25.6	42.0	18.5	6.3	1.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	1.3	2.1	3.9		5.3
NE	.8	1.1	2.7	4.1		6.3
E	1.7	.9	2.2	6.3		6.1
SE	1.7	1.9	3.4	10.9		6.4
S	.4	.6	4.2	11.8		7.2
SW	.6	.4	3.5	4.7		6.5
W	.0	.6	7.3	2.4		6.3
NW	.3	1.3	6.6	3.1		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.5	.3	1.5	1.9		4.7
TOT OBS	36	33	132	192	393	6.3
TOT PCT	9.2	8.4	33.6	48.9	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.3	.3	1.3	2.7	.0	.0	.6	.0	4.1	
NE	.3	.0	.0	.5	1.4	1.8	.8	.1	.6	.5	2.7	
E	1.3	.0	.8	.2	2.1	2.5	.4	.2	.8	.0	2.8	
SE	.8	.0	.3	.7	4.0	4.8	.9	.8	.3	.0	5.4	
S	.5	.0	1.7	2.4	3.9	1.8	3.4	1.0	.4	.0	2.0	
SW	.5	.3	.1	.3	2.4	2.2	1.1	.0	.0	.0	2.4	
W	.0	.3	.0	.3	3.0	2.9	.3	.8	.0	.0	3.0	
NW	.3	.3	.3	.0	3.1	3.4	1.3	.3	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.8	1.0	.3	1.0	.0	.0	1.8	
TOT OBS	14	3	13	18	87	91	33	16	11	2	105	393
TOT PCT	3.6	.8	3.3	4.6	22.1	23.2	8.4	4.1	2.8	.5	26.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	3.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6
▪ OR >5000	4.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7
▪ OR >3500	5.9	13.9	15.9	15.9	15.9	15.9	15.9	15.9
▪ OR >2000	18.5	32.9	37.3	37.8	37.8	38.0	39.1	39.1
▪ OR >1000	23.7	44.7	53.0	56.0	58.9	59.4	61.2	61.2
▪ OR >600	24.4	45.8	55.5	59.4	63.0	63.8	65.8	65.8
▪ OR >300	24.9	46.8	57.8	62.0	66.6	67.4	69.4	69.4
▪ OR >150	24.9	46.8	58.1	62.5	67.4	68.1	70.2	70.2
▪ OR > 0	24.9	46.8	58.4	63.5	69.4	70.4	73.8	73.8
TOTAL	97	182	227	247	270	274	287	287

TOTAL NUMBER OF OBS: 389 PCT FREQ NH <5/8: 26.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.2	.8	6.3	3.8	4.9	7.2	9.5	8.0	49.2	3.2	474

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.9	.4	.4	1.3	.0	.4	.4	.0	.0	4.3	
	NO PCP	.0	.0	.6	.3	.2	.2	.0	.2	.0	.2	1.7	
	TOT %	.4	.9	1.0	.7	1.5	.2	.4	.6	.0	.2	6.0	
1/2<1	PCP	.4	.2	.2	1.2	1.2	.9	.6	.6	.0	.0	5.4	
	NO PCP	.0	.0	.2	.3	.2	.0	.0	.2	.0	.0	.9	
	TOT %	.4	.2	.4	1.4	1.4	.9	.6	.9	.0	.0	6.2	
1<2	PCP	.4	.6	.2	.6	1.9	.4	.7	.9	.0	.0	5.8	
	NO PCP	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.4	
	TOT %	.4	.6	.2	.6	2.1	.6	.7	.9	.0	.0	6.2	
2<5	PCP	.0	.0	.4	1.3	1.9	2.0	.2	.6	.0	.0	6.4	
	NO PCP	.6	.1	1.0	1.7	1.8	1.0	1.6	1.6	.0	.4	9.9	
	TOT %	.6	.1	1.4	3.1	3.7	3.0	1.8	2.2	.0	.4	16.3	
5<10	PCP	.6	.2	.2	.9	.7	.3	.2	.6	.0	.2	4.1	
	NO PCP	1.5	1.3	2.0	3.5	3.5	2.0	2.8	4.9	.0	1.7	23.3	
	TOT %	2.1	1.6	2.2	4.3	4.3	2.3	3.1	5.6	.0	1.9	27.4	
10+	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	4.9	4.4	4.4	8.5	3.6	2.4	3.6	3.6	.0	2.1	37.5	
	TOT %	4.9	4.4	4.4	8.7	3.9	2.4	3.6	3.6	.0	2.1	37.9	
	TOT OBS												467
	TOT PCT	8.8	7.8	9.6	18.9	16.8	9.3	10.3	13.7	.0	4.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.5	
	4-10	.2	.1	.6	.3	.5	.0	.0	.0	.0		1.6	
	11-21	.0	.5	.5	.2	.2	.0	.0	.0	.0		1.4	
	22+	.2	.5	.0	.2	.7	.2	.5	.5	.0		2.7	
	TOT %	.4	1.0	1.1	.7	1.6	.2	.5	.5	.0	.2	6.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	.7	.4	.2	.0	.0	.0		1.8	
	11-21	.2	.0	.0	.5	.6	.5	.2	.7	.0		2.7	
	22+	.2	.0	.2	.3	.5	.2	.5	.0	.0		1.8	
	TOT %	.5	.2	.4	1.5	1.5	.9	.7	.7	.0	.0	6.3	
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.0	.0	.0	.1	.2	.0	.0		.5	
	11-21	.2	.5	.0	.2	1.3	.6	.2	.2	.0		3.2	
	22+	.0	.0	.0	.5	.9	.0	.5	.7	.0		2.5	
	TOT %	.5	.7	.0	.7	2.2	.6	.8	.9	.0	.0	6.3	
2<5	0-3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.9	
	4-10	.2	.1	.4	1.1	.6	1.0	.2	.0	.0		3.6	
	11-21	.0	.0	.2	1.3	1.4	.8	1.0	1.2	.0		5.9	
	22+	.2	.0	.2	.6	1.6	1.4	.7	1.1	.0		5.9	
	TOT %	.4	.1	1.2	3.0	3.7	3.2	1.9	2.3	.0	.5	16.3	
5<10	0-3	.2	.0	.2	.0	.0	.0	.0	.0	.0	2.0	2.5	
	4-10	.2	1.0	1.0	1.9	1.9	.9	.2	1.0	.0		8.2	
	11-21	1.4	.6	.7	1.9	1.4	1.0	1.1	2.2	.0		10.2	
	22+	.2	.0	.0	.1	.7	.5	1.8	2.6	.0		5.9	
	TOT %	2.1	1.6	1.9	3.9	4.1	2.4	3.0	5.7	.0	2.0	26.8	
10+	0-3	.0	.5	.0	.2	.0	.0	.2	.0	.0	2.0	2.9	
	4-10	.6	1.5	2.4	1.8	1.5	.4	.2	1.1	.0		9.5	
	11-21	2.8	1.9	1.8	5.1	1.5	1.8	2.3	1.3	.0		18.6	
	22+	1.5	.7	.2	2.1	.7	.1	.6	1.1	.0		7.0	
	TOT %	4.9	4.6	4.4	9.2	3.7	2.3	3.3	3.6	.0	2.0	38.1	
	TOT OBS												441
	TOT PCT	8.7	8.2	9.1	19.0	16.7	9.6	10.2	13.6	.0	4.8	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.2	1.1	4.9	5.4	24.3	22.7	5.9	2.7	5.9	1.1	77.3	22.7	185
06&09	1.1	.0	2.2	4.4	23.1	36.3	5.5	4.4	1.1	.0	78.0	22.0	91
12&15	3.6	.0	3.6	3.6	16.7	17.9	10.7	4.8	.0	.0	60.7	39.3	84
18&21	11.1	2.2	.0	2.2	17.8	8.9	17.8	6.7	.0	2.2	68.9	31.1	45
TOT	15	3	14	18	88	94	33	16	12	3	296	109	405
PCT	3.7	.7	3.5	4.4	21.7	23.2	8.1	4.0	3.0	.7	73.1	26.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.0	6.4	7.9	14.3	24.1	44.3	203
06&09	4.8	5.8	2.9	16.3	25.0	45.2	104
12&15	11.3	7.2	3.1	15.5	35.1	27.8	97
18&21	10.4	5.2	9.1	23.4	27.3	24.7	77
TOT	30	30	29	79	130	183	481
PCT	6.2	6.2	6.0	16.4	27.0	38.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.3	15.3	33.3	45.9	20.8	183
06&09	1.1	10.1	27.0	51.7	21.3	89
12&15	5.3	15.8	34.2	35.5	30.3	76
18&21	9.8	24.4	34.1	41.5	24.4	41
TOT	15	59	125	174	90	389
PCT	3.9	15.2	32.1	44.7	23.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	1.9	.0	.0	1	1.9
45/49	.0	.0	.0	.0	1.9	.0	.0	.0	1	1.9
40/44	.0	.0	.0	.0	.0	1.9	17.3	23.1	22	42.3
35/39	.0	.0	.0	.0	.0	3.8	19.2	21.2	23	44.2
30/34	.0	.0	.0	.0	3.8	1.9	1.9	1.9	5	9.6
TOTAL	0	0	0	0	3	5	20	24	52	100.0
PCT	.0	.0	.0	.0	5.8	9.6	38.5	46.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.4	.5	.0	.0	.0	.0	.0	.0
.0	.5	1.4	.0	.0	.0	.0	.0	.0	.0
1.4	8.2	11.5	9.6	3.8	5.8	1.9	.0	.0	.0
8.2	5.8	3.4	10.1	7.2	3.8	5.3	.5	.0	.0
5.3	2.4	.0	.0	.0	.5	1.4	.0	.0	.0
14.9	16.8	17.8	20.2	11.1	10.1	8.7	.5	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	43	41	30	21	16	12	31.2	201
06&09	46	45	43	32	21	15	15	32.8	106
12&15	46	42	42	32	21	12	12	31.6	113
18&21	50	42	40	31	19	11	11	31.3	90
TOT	50	44	41	32	21	14	11	31.6	510

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	6.7	13.3	40.0	40.0	87	15
06&09	.0	.0	7.7	15.4	30.8	46.2	87	13
12&15	.0	.0	7.7	7.7	46.2	38.5	88	13
18&21	.0	.0	.0	.0	36.4	63.6	92	11
TOT	0	0	3	5	20	24	88	52

NOVEMBER

PERIOD: (PRIMARY) 1957-1976
(OVER-ALL) 1957-1974

AREA 0016 WEST COAST KAMCHATKA
54.4N 155.5E

TABLE 17

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

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	3	.0	1.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	2	.0	.7
5	.0	.0	.0	.0	.0	.0	.0	.4	.7	.4	.4	5	.0	1.9
4	.0	.0	.0	.0	.0	.0	.0	.7	1.1	.0	.0	5	.0	1.9
3	.0	.0	.0	.0	.0	.0	.4	.4	.4	.0	.0	3	.0	1.1
2	.0	.0	.0	.0	.0	.0	.4	.4	2.6	.0	.0	9	.0	3.3
1	.0	.0	.0	.0	.0	.0	1.1	.7	.0	.0	.0	5	.4	1.5
0	.0	.0	.0	.0	.0	.4	1.9	3.7	1.9	.0	.0	21	.0	7.8
-1	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-2	.0	.0	.0	.0	.0	.4	1.1	5.9	.0	.4	.0	21	.0	7.8
-3	.0	.0	.0	.0	.0	.7	.4	.0	.0	.0	.0	3	.0	1.1
-4	.0	.0	.0	.0	.7	.7	5.2	1.1	.0	.0	.0	21	.0	7.8
-5	.0	.0	.0	.0	.4	2.2	1.9	1.1	.0	.0	.0	15	.0	5.6
-6	.0	.0	.0	.0	1.5	1.1	1.1	.0	.0	.0	.0	10	.0	3.7
-7/-8	.0	.0	.0	.7	5.2	3.7	1.1	.0	.4	.0	.0	30	.0	11.2
-9/-10	.0	.0	.0	1.9	3.7	5.2	.4	.0	.0	.0	.0	30	.0	11.2
-11/-13	.0	.0	1.5	4.1	7.1	3.0	.0	.4	.0	.0	.0	43	.0	16.0
-14/-16	.0	.4	1.1	3.3	3.7	.4	.7	.0	.0	.0	.0	26	.7	8.9
-17/-19	.0	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	6	.0	2.2
-20/-22	.4	.4	1.5	.0	.4	.0	.0	.0	.0	.0	.0	7	.0	2.6
-23/-25	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	3	4	13	29	61	48	43	40	24	2	2	269	3	266
PCT	1.1	1.5	4.8	10.8	22.7	17.8	16.0	14.9	8.9	.7	.7	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.5	.0	.0	.0	.0	1.1
1-2	.0	1.2	1.2	.0	.0	.0	2.4
3-4	.0	.0	3.3	.0	.0	.0	3.3
5-6	.0	.0	1.8	1.8	.0	.0	3.6
7	.0	.0	.5	.6	.0	.0	1.1
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.6	.6	.0	.0	1.2
12	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.7	7.4	4.8	.0	.0	14.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	1.2	.0	.0	.0	2.6
1-2	.0	.9	.8	.0	.0	.0	1.7
3-4	.0	1.2	2.7	.0	.0	.0	3.9
5-6	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.8	.6	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.6	.0	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.9	7.3	.6	.0	.0	11.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	.9	.5	.0	.0	.0	1.4
3-4	.0	.5	2.4	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	3.5	.0	.0	.0	7.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.8	.0	.0	.0	2.1
1-2	.0	1.2	4.1	.0	.0	.0	5.3
3-4	.0	.2	.9	.6	.0	.0	1.7
5-6	.0	.0	1.8	.6	.0	.0	2.4
7	.0	.0	.6	.0	.6	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	1.2	.0	.0	1.8
12	.0	.0	.0	.6	.0	.2	.8
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.6	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.8	.0	.8
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	8.8	3.6	1.4	.2	16.7

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA 54.4N 155.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.5	.0	.0	.0	1.5	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.6	1.4	.0	.0	.0	2.0	.0	.0	.6	.0	.0	.0	.6
3-4	.0	.6	2.7	.6	.0	.0	3.9	.0	.0	3.2	.0	.0	.0	3.2
5-6	.0	.6	1.2	.0	.0	.0	1.8	.0	.0	3.0	.2	.0	.0	3.2
7	.0	.0	.6	.6	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.6
8-9	.0	.0	.0	.5	.6	.0	1.1	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.5	.5	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.6	.6	.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	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	6.4	1.7	2.3	1.1	14.2	.0	.9	7.0	.9	.0	.0	8.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.5	.6	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.6	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.6	
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.6	.6	.0	.0	.0	1.2	
5-6	.0	.0	1.2	1.1	.0	.0	2.3	.0	.0	1.2	1.8	.0	.0	3.0	
7	.0	.0	.0	.6	.0	.0	.6	.0	1.2	.6	.0	.0	.0	1.8	
8-9	.0	.0	.9	1.2	.0	.0	2.1	.0	.0	.9	.0	.0	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	1.7	1.2	.0	.0	2.9	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
20-22	.0	.0	.0	.6	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.5	6.7	4.7	1.8	.0	13.6	.0	1.8	3.9	3.6	.0	.0	9.4	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	7.3	3.0	.0	.0	.0	15.2	
1-2	.0	4.8	9.7	.0	.0	.0	14.5	
3-4	.0	3.0	17.6	1.2	.0	.0	21.8	
5-6	.0	.6	11.5	5.5	.0	.0	17.6	
7	.0	1.8	3.0	2.4	.6	.0	7.9	
8-9	.0	.0	2.4	2.4	.6	.0	5.5	
10-11	.0	.0	1.2	2.4	1.2	.0	4.8	
12	.0	.0	.6	1.8	.6	.6	3.6	
13-16	.0	.0	1.8	2.4	.0	.6	4.8	
17-19	.0	.0	.0	1.2	.0	.0	1.2	
20-22	.0	.0	.0	.6	.6	.0	1.2	
23-25	.0	.0	.0	.0	1.8	.0	1.8	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								165
TOT PCT	4.8	17.6	50.9	20.0	5.5	1.2	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	1.8	2.6	3.1	3.5	.4	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	6
6-7	.0	.2	3.3	4.8	4.2	1.8	1.8	.9	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	7
8-9	.0	.2	.9	1.3	2.4	1.3	1.5	1.1	1.8	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	52	9
10-11	.0	.0	.0	.2	.2	.2	.0	.4	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	8	12
12-13	.0	.0	.0	.2	.2	.0	.0	.0	.2	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	6	15
>13	.0	.0	.0	.0	.2	.0	.4	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	6	16
INDEF	2.0	.7	10.3	14.3	16.9	4.8	3.3	.7	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	244	6
TOTAL	9	13	78	109	126	39	34	14	20	5	3	4	2	0	0	0	0	0	0	456	7
PCT	2.0	2.9	17.1	23.9	27.6	8.6	7.5	3.1	4.4	1.1	.7	.9	.4	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

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

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.3	.0	.0	.0	6.4	.0	.0	8.8	.0	.0	2.3	.0	.0	.0	.0	88.9
NE	.0	.0	.0	.0	14.6	.0	.0	14.6	.0	.0	5.6	.0	.0	.0	.0	79.9
E	.0	.0	.0	.0	17.0	.0	.0	17.0	.0	.0	11.4	.0	.0	.0	.0	71.6
SE	.0	.0	.0	.0	8.6	.0	.0	8.6	8.6	.0	10.8	.0	1.1	.0	.0	71.0
S	12.0	.0	.0	.0	16.0	.0	.0	28.0	16.0	.0	.0	.0	12.0	.0	.0	44.0
SW	2.8	.0	.0	.0	58.3	.0	.0	61.1	.0	.0	11.1	.0	.0	.0	.0	27.8
W	.0	.0	.0	.0	11.5	.0	.0	11.5	.0	.0	.0	.0	.0	.0	.0	88.5
NW	.0	.0	.0	.0	47.2	.0	.0	47.2	15.1	.0	.0	.0	.0	.0	.0	37.7
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	23.5	5.9	.0	.0	.0	70.6
TOT PCT	1.1	.0	.0	.0	15.3	.0	.0	16.5	2.8	.0	7.4	.6	.6	.0	.0	72.2
TOT OBS:	176															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	16.9	.0	.0	16.9	2.8	.0	8.5	1.4	1.4	.0	.0	69.0
06&09	.0	.0	.0	.0	16.1	.0	.0	16.1	3.2	.0	.0	.0	.0	.0	.0	80.6
12&15	2.0	.0	.0	.0	12.0	.0	.0	14.0	4.0	.0	14.0	.0	.0	.0	.0	68.0
18&21	3.3	.0	.0	.0	13.3	.0	.0	16.7	.0	.0	3.3	.0	.0	.0	.0	80.0
TOT PCT	1.1	.0	.0	.0	14.8	.0	.0	15.9	2.7	.0	7.7	.5	.5	.0	.0	72.5
TOT OBS:	182															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.6	8.2	5.6	3.2	.0	.0		20.6	12.9	14.6	.0	27.2	.0	14.7	.0	37.5	.0
NE	.4	8.0	8.8	1.0	.2	.0		18.4	13.3	29.2	.0	9.8	.0	12.5	.0	12.5	.0
E	1.6	7.2	2.0	.6	.6	.0		12.0	10.2	9.4	.0	21.7	.0	7.4	.0	15.0	.0
SE	.0	8.0	5.0	.0	1.6	.0		14.6	13.4	19.8	.0	6.5	.0	12.5	.0	15.0	.0
S	.0	.6	2.2	.0	.0	.0		2.8	15.7	1.6	.0	3.3	.0	5.9	.0	.0	.0
SW	.0	.8	4.4	1.8	.8	.0		7.8	21.1	13.0	.0	6.5	.0	5.9	.0	.0	.0
W	.0	1.6	3.0	.6	.0	.0		5.2	16.2	1.6	.0	3.3	.0	14.7	.0	.0	.0
NW	.0	2.4	3.4	.8	1.6	.0		8.2	18.7	4.7	.0	4.3	.0	14.7	.0	10.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.4							10.4	.0								
TOT OBS	20	46	43	10	6	0	125		12.7	6.3	.0	17.4	.0	11.8	.0	10.0	.0
TOT PCT	16.0	36.8	34.4	8.0	4.8	.0		100.0		48	0	23	0	34	0	20	0
										100.0	.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	6.4	7.4	4.4	2.4	.0		20.6	12.9	14.6	27.2	14.7	37.5
NE	3.4	8.6	6.2	.0	.2		18.4	13.3	29.2	9.8	12.5	12.5
E	5.4	5.4	.6	.0	.6		12.0	10.2	9.4	21.7	7.4	15.0
SE	2.6	9.6	.8	.8	.8		14.6	13.4	19.8	6.5	12.5	15.0
S	.6	.6	1.6	.0	.0		2.8	15.7	1.6	3.3	5.9	.0
SW	.0	2.6	3.4	1.8	.0		7.8	21.1	13.0	6.5	5.9	.0
W	.8	1.6	2.2	.6	.0		5.2	16.2	1.6	3.3	14.7	.0
NW	.8	2.6	3.2	1.6	.0		8.2	18.7	4.7	4.3	14.7	10.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.4						10.4	.0	6.3	17.4	11.8	10.0
TOT OBS	38	48	28	9	2	125		12.7	48	23	34	20
TOT PCT	30.4	38.4	22.4	7.2	1.6		100.0		100.0	100.0	100.0	100.0

DECEMBER

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

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.3	4.2	39.6	37.5	8.3	4.2	.0	13.1	100.0	48
06&09	17.4	8.7	39.1	17.4	13.0	4.3	.0	11.1	100.0	23
12&15	11.8	.0	32.4	47.1	5.9	2.9	.0	13.1	100.0	34
18&21	10.0	15.0	35.0	25.0	5.0	10.0	.0	13.0	100.0	20
TOT	13	7	46	43	10	6	0	12.7		125
PCT	10.4	5.6	36.8	34.4	8.0	4.8	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.8	2.1	10.3	6.9		5.4
NE	6.1	4.0	6.1	5.2		5.0
E	2.7	2.1	3.6	4.8		5.3
SE	2.7	.2	5.2	4.2		5.3
S	.0	.0	1.3	1.3		7.0
SW	.0	.0	3.4	4.0		7.4
W	.0	.0	2.9	1.5		6.8
NW	1.5	.8	1.5	3.2		5.7
VAR	.0	.0	.0	.0		.0
CALM	1.5	1.5	3.8	2.3		5.2
TOT OBS	24	14	50	43	131	5.5
TOT PCT	18.3	10.7	38.2	32.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.8	4.2	4.8	1.9	.6	1.3	.0	9.0	
NE	1.5	.0	.0	1.0	1.0	2.9	1.9	1.0	1.0	.0	11.3	
E	1.9	.0	.0	.6	1.9	2.3	.0	.0	.0	.0	6.5	
SE	1.9	.0	.0	.0	.4	3.1	1.5	.0	.0	.0	5.3	
S	1.3	.0	.0	.0	.0	.6	.8	.0	.0	.0	.0	
SW	.2	.0	.0	.0	5.3	1.1	.0	.0	.0	.8	.0	
W	.0	.0	.0	.0	2.3	.6	.8	.0	.0	.8	.0	
NW	.0	.0	.0	.0	1.0	3.1	.0	.0	.0	.8	2.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.0	.0	.8	.8	.0	.0	.0	.0	6.1	
TOT OBS	11	0	0	3	22	25	9	2	3	3	53	131
TOT PCT	8.4	.0	.0	2.3	16.8	19.1	6.9	1.5	2.3	2.3	40.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	2.2	2.9	3.6	4.4	4.4	4.4	4.4	4.4
≥ OR >5000	2.9	4.4	5.1	5.8	5.8	5.8	5.8	5.8
≥ OR >3500	5.8	11.7	12.4	13.1	13.1	13.1	13.1	13.1
≥ OR >2000	19.0	28.3	29.2	29.9	32.1	32.1	32.1	32.1
≥ OR >1000	24.8	36.5	43.1	43.8	47.4	48.2	48.9	48.9
≥ OR >600	26.3	38.0	44.5	45.3	48.9	50.4	51.1	51.1
≥ OR >300	26.3	38.0	44.5	45.3	48.9	50.4	51.1	51.1
≥ OR >150	26.3	38.0	44.5	45.3	48.9	50.4	51.1	51.1
≥ OR > 0	26.3	38.0	44.5	46.0	50.4	52.6	54.0	59.1
TOTAL	36	52	61	63	69	72	74	81

TOTAL NUMBER OF OBS: 137 PCT FREQ NH <5/8: 40.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.1	1.8	14.7	5.5	8.6	6.7	14.1	12.3	23.3	6.7	163

DECEMBER

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

TABLE 8

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.0E

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.4	.0	.0	1.1	.0	.0	.0	.0	1.7	
	NO PCP	.0	1.1	1.4	2.0	1.1	.0	.0	.0	.0	1.7	7.3	
	TOT %	.0	1.3	1.8	2.0	1.1	1.1	.0	.0	.0	1.7	9.0	
1/2<1	PCP	.0	.6	.6	.0	.6	.7	.4	1.1	.0	.0	4.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	TOT %	.0	.6	.6	.0	.6	.7	.4	1.1	.0	.6	4.5	
1<2	PCP	.0	.0	.0	.0	.4	.1	.0	.6	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.0	.4	.7	.0	.6	.0	.0	1.7	
2<5	PCP	1.6	1.1	1.1	.0	.0	.6	.0	1.3	.0	.0	5.6	
	NO PCP	.6	.6	.0	.0	.0	.0	.0	.6	.0	.6	2.3	
	TOT %	2.1	1.7	1.1	.0	.0	.6	.0	1.8	.0	.6	7.9	
5<10	PCP	.6	.6	.0	.6	.0	.6	.0	.6	.0	.0	2.8	
	NO PCP	5.8	2.8	.8	3.0	.6	.6	1.7	.6	.0	1.7	17.5	
	TOT %	6.4	3.4	.8	3.5	.6	1.1	1.7	1.1	.0	1.7	20.3	
10+	PCP	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	1.7	
	NO PCP	19.7	12.9	8.1	7.1	.8	.8	1.6	2.8	.0	5.1	56.8	
	TOT %	19.7	13.4	8.1	7.6	.8	1.4	1.6	2.8	.0	5.1	56.5	
	TOT OBS												177
	TOT PCT	24.2	20.3	12.4	13.1	3.5	5.6	3.7	7.5	.0	9.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.8	.0	.0	.0	.0	.0	.0	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.2	.6	.8	.0	1.6	.0	.0	.0		3.2	
	TOT %	.0	1.0	.6	.8	.0	1.6	.0	.0	.0	.0	4.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
	4-10	.0	.0	.8	.0	.0	.0	.0	.0	.0		.8	
	11-21	.0	.8	.0	.0	.8	.8	.0	.8	.0		3.2	
	22+	.0	.0	.0	.0	.0	.2	.6	.8	.0		1.6	
	TOT %	.0	.8	.8	.0	.8	1.0	.6	1.6	.0	.8	6.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.8	.0		.8	
	11-21	.0	.0	.0	.0	.0	.8	.0	.0	.0		.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.0	.0	.0	.0	.0	.8	.0	.8	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	
	4-10	.8	.8	1.6	.0	.0	.0	.0	.8	.0		4.0	
	11-21	.6	1.6	.0	.0	.0	.8	.0	1.0	.0		4.0	
	22+	.8	.0	.0	.0	.0	.0	.0	.8	.0		1.6	
	TOT %	2.2	2.4	1.6	.0	.0	.8	.0	2.6	.0	.8	10.4	
5<10	0-3	1.4	.2	.0	.0	.0	.0	.0	.0	.0	2.4	4.0	
	4-10	4.4	2.0	.0	1.6	.0	.0	.8	.8	.0		9.6	
	11-21	.8	1.0	.6	1.6	.8	.8	1.6	.0	.0		8.0	
	22+	.8	.0	.0	.8	.0	.8	.0	.8	.0		3.2	
	TOT %	7.4	4.0	.6	4.0	.8	1.6	2.4	1.6	.0	2.4	24.8	
10+	0-3	2.2	.2	1.6	.0	.0	.0	.0	.0	.0	6.4	10.4	
	4-10	3.0	4.4	4.8	6.4	.6	.8	.8	.0	.0		20.8	
	11-21	4.2	4.6	1.4	3.4	.6	1.2	1.4	1.6	.0		18.4	
	22+	1.6	1.0	.6	.0	.0	.0	.0	.0	.0		3.2	
	TOT %	11.0	10.2	8.4	9.8	1.2	2.0	2.2	1.6	.0	6.4	52.8	
	TOT OBS												125
	TOT PCT	20.6	18.4	12.0	14.6	2.8	7.8	5.2	8.2	.0	10.4	100.0	

DECEMBER

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

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.3	.0	.0	1.6	14.3	20.6	7.9	1.6	4.8	3.2	60.3	39.7	63
06&09	.0	.0	.0	6.5	25.8	25.8	6.5	.0	.0	.0	64.5	35.5	31
12&15	20.0	.0	.0	.0	13.3	16.7	10.0	.0	.0	3.3	63.3	36.7	30
18&21	5.9	.0	.0	.0	11.8	.0	.0	5.9	.0	.0	23.5	76.5	17
TOT	11	0	0	3	23	26	10	2	3	3	81	60	141
PCT	7.8	.0	.0	2.1	16.3	18.4	7.1	1.4	2.1	2.1	57.4	42.6	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
00&03	11.1	4.2	1.4	8.3	11.1	63.9	72
06&09	3.1	3.1	.0	12.5	18.8	62.5	32
12&15	10.0	8.0	4.0	4.0	26.0	48.0	50
18&21	6.7	.0	.0	6.7	36.7	50.0	30
TOT	16	8	3	14	38	105	184
PCT	8.7	4.3	1.6	7.6	20.7	57.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.3	12.7	23.8	38.1	38.1	63
06&09	.0	6.5	22.6	45.2	32.3	31
12&15	20.7	31.0	34.5	34.5	31.0	29
18&21	7.1	7.1	14.3	14.3	71.4	14
TOT	11	20	34	50	53	137
PCT	8.0	14.6	24.8	36.5	38.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	.0	.0	.0	.0	.0	100.0	1	100.0
TOTAL	0	0	0	0	0	0	0	1	1	100.0
PCT	.0	.0	.0	.0	.0	.0	.0	100.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	100.0	.0	.0	.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	39	38	32	21	3	1	1	18.9	69
06&09	41	40	40	24	10	10	10	24.4	32
12&15	32	31	30	25	7	1	1	21.9	50
18&21	32	31	31	17	7	5	5	18.3	30
TOT	41	39	32	23	5	1	1	20.6	181

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	.0	100.0	98	1
06&09								
12&15								
18&21								
TOT	0	0	0	0	0	1	98	1

DECEMBER

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

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	TOT	W FOG	WO FOG
1	.0	.0	.0	.0	.0	.0	.0	1.7	2	.0	1.7
0	.0	.0	.0	.0	.0	.0	.0	2.6	3	.0	2.6
-1	.0	.0	.0	.0	.0	.0	.0	.9	1	.0	.9
-2	.0	.0	.0	.0	.0	.0	.0	1.7	2	.0	1.7
-3	.0	.0	.0	.0	.0	.0	2.6	.9	4	.9	2.6
-4	.0	.0	.0	.0	.0	.0	1.7	.0	2	.0	1.7
-5	.0	.0	.0	.0	.0	.0	3.4	4.3	9	.0	7.8
-6	.0	.0	.0	.0	.0	.0	2.6	1.7	5	.0	4.3
-7/-8	.0	.0	.0	.0	.0	2.6	4.3	.0	8	.0	6.9
-9/-10	.0	.0	.0	.0	.9	6.9	3.4	1.7	15	.9	12.1
-11/-13	.0	.0	.0	.9	2.6	3.4	2.6	.9	12	.9	9.5
-14/-16	.0	.0	1.7	.9	3.4	.0	2.6	.9	11	.0	9.5
-17/-19	.0	.0	8.6	.0	.9	.9	.0	.0	12	.0	10.3
-20/-22	.0	3.4	3.4	.9	.0	1.7	.0	.0	11	.9	8.6
-23/-25	1.7	5.2	.9	.0	.0	.0	.0	.0	9	3.4	4.3
-26/-30	4.3	.0	2.6	.0	.0	.0	.0	.0	8	.9	6.0
<-30	.9	.0	.9	.0	.0	.0	.0	.0	2	.0	1.7
TOTAL	8	10	21	3	9	18	27	20	116	9	107
PCT	6.9	8.6	18.1	2.6	7.8	15.5	23.3	17.2	100.0	7.8	92.2

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.7	.0	.0	.0	.0	2.7
1-2	.0	1.5	1.1	.0	.0	.0	2.7
3-4	.0	3.0	1.5	.0	.0	.0	4.5
5-6	.0	.0	1.1	1.5	.0	.0	2.7
7	.0	.0	.0	1.5	.0	.0	1.5
8-9	.0	.0	1.1	1.5	.0	.0	2.7
10-11	.0	.0	.0	1.5	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	4.9	6.1	.0	.0	18.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	1.5	3.4	.0	.0	.0	4.9
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	3.0	1.5	.0	.0	4.5
7	.0	1.5	4.5	.0	.4	.0	6.4
8-9	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	1.5	.0	.0	.0	1.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	14.4	1.5	.4	.0	21.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	5.3	1.1	.0	.0	.0	6.4
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	1.1	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	2.7	.0	1.1	.0	10.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.9	.0	.0	.0	.0	4.9
1-2	.0	2.3	1.9	.0	.0	.0	4.2
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	1.5	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	3.4	.0	1.5	.0	12.1

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA
54.1N 155.6E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	3.0
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.4	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.7	.0	.0	.0	2.7	.0	1.5	6.8	1.9	1.5	.0	11.7

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	3.0	1.5	.0	.0	.0	4.5	.0	.0	1.5	.0	.0	.0	1.5	
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	3.0	1.5	.0	.0	.0	4.5	
5-6	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	1.9	.0	.0	.0	1.9	
7	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.0	5.7	1.1	.0	.0	9.8	.0	3.0	6.4	1.5	1.5	.0	12.5	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.5	12.1	.0	.0	.0	.0	13.6	
1-2	.0	13.6	13.6	.0	.0	.0	27.3	
3-4	.0	6.1	13.6	.0	.0	.0	19.7	
5-6	.0	.0	7.6	4.5	.0	.0	12.1	
7	.0	1.5	9.1	1.5	1.5	.0	13.6	
8-9	.0	.0	1.5	3.0	.0	.0	4.5	
10-11	.0	.0	.0	3.0	1.5	.0	4.5	
12	.0	.0	1.5	.0	.0	.0	1.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	1.5	.0	1.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.5	.0	1.5	
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	
								66
TOT PCT	1.5	33.3	47.0	12.1	6.1	.0	100.0	

PERIOD: (OVER-ALL) 1957-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	5.0	5.6	5.0	3.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	4
6-7	.0	.6	3.1	2.5	3.8	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
8-9	.0	.0	1.3	1.9	1.3	1.9	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
10-11	.0	.0	.6	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	15
>13	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	7.5	4.4	24.4	6.3	5.0	3.8	2.5	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	87	4
TOTAL	16	16	56	26	21	10	11	0	2	1	0	0	1	0	0	0	0	0	0	160	5
PCT	10.0	10.0	35.0	16.3	13.1	6.3	6.9	.0	1.3	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.9	*	1.2	.0	7.4	.1	.0	11.5	1.4	.2	9.5	.3	.2		*	76.9
NE	6.4	.2	1.5	.1	7.1	*	.1	15.3	1.8	.0	8.3	.5	.4		.0	73.7
E	10.2	.1	2.3	.1	9.3	.0	.0	21.6	2.0	.1	7.7	.2	.1		.0	68.3
SE	12.1	.1	3.1	.1	9.5	.0	.0	24.8	3.4	.0	11.0	.2	.5		.0	60.2
S	11.5	.1	3.7	*	12.6	.1	*	27.9	4.0	*	12.6	.3	1.7		*	53.6
SW	6.2	.1	2.0	.2	17.7	.2	.2	26.3	3.0	.2	13.0	.1	.3		.0	57.1
W	3.5	.4	1.5	.0	16.1	.2	.3	21.4	4.7	.0	9.3	.3	.2		.0	64.0
NW	2.7	.1	.9	.1	17.0	.2	.3	21.0	4.5	.1	10.6	.3	.1		*	63.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.4	.1	1.7	.0	3.9	.1	.0	8.1	1.6	.0	16.3	.7	.7		.0	72.7
TOT PCT	6.3	.1	2.0	.1	10.1	.1	.1	18.6	2.8	.1	11.6	.3	.4		*	66.1
TOT OBS: 19523																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.0	.1	1.6	.1	10.1	.1	.1	16.8	2.8	.1	12.6	.4	.4		*	66.9
06&09	6.6	.1	2.0	.1	9.0	.1	.0	17.6	2.8	.0	9.0	.2	.3		.0	70.1
12&15	7.3	.1	2.2	*	9.9	.1	.1	19.6	3.2	.1	10.9	.2	.5		*	65.6
18&21	7.2	.1	2.7	.1	11.4	.1	.2	21.6	2.4	.2	12.7	.4	.3		*	62.6
TOT PCT	6.3	.1	2.0	.1	10.0	.1	.1	18.6	2.8	.1	11.6	.3	.4		*	66.3
TOT OBS: 20153																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.9	8.4	7.2	2.2	.2	*		20.0	12.3	18.0	13.3	23.2	21.7	20.2	17.8	20.4	22.8
NE	.8	4.7	3.1	.5	*	.0		9.1	9.7	10.0	3.5	6.3	4.5	10.0	8.5	9.3	4.1
E	.8	3.9	1.5	.2	.1	*		6.5	8.6	6.2	3.0	6.1	1.2	6.6	6.0	8.4	4.1
SE	.7	4.6	3.8	1.1	.4	*		10.3	12.5	11.3	5.2	7.9	6.2	9.6	7.7	11.2	10.1
S	1.3	6.2	6.4	2.5	.5	.1		16.9	14.3	18.2	15.8	15.4	14.0	14.6	17.1	17.0	17.4
SW	1.0	3.7	2.9	1.0	.3	*		8.9	13.1	8.7	11.3	9.6	8.6	8.4	7.3	8.5	8.2
W	.9	3.2	2.8	1.1	.2	*		8.2	12.7	7.6	7.6	8.6	8.9	8.8	9.0	6.9	4.9
NW	1.3	5.6	4.5	1.4	.4	.0		13.2	12.9	10.9	22.5	16.3	14.8	14.3	8.6	11.4	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8							6.8	.0	9.1	1.1	6.7	3.4	7.3	1.4	6.9	2.8
TOT OBS							20880		11.5	4730	1980	3076	1707	3184	1693	2926	1584
TOT PCT	15.5	40.3	31.9	10.0	2.2	.1		100.0		100.0	83.3	100.0	83.3	100.0	83.3	100.0	83.3

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.9	8.8	4.4	.8	.1		20.0	12.3	18.1	22.8	20.0	20.7
NE	3.2	4.1	1.7	.1	*		9.1	9.7	9.7	6.4	10.2	9.1
E	2.9	3.0	.5	.1	.1		6.5	8.6	6.0	6.0	6.7	8.1
SE	2.7	4.9	1.9	.7	.1		10.3	12.5	11.1	8.0	9.8	11.5
S	4.1	7.1	4.5	1.2	.1		16.9	14.3	18.3	15.7	15.5	17.6
SW	2.8	3.6	1.9	.5	.2		8.9	13.1	9.3	9.5	8.6	8.3
W	2.6	3.0	2.0	.6	.1		8.2	12.7	8.1	8.8	8.9	7.0
NW	4.1	5.5	2.6	.9	.1		13.2	12.9	11.8	10.4	13.9	11.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.8						6.8	.0	7.6	6.3	6.5	6.2
TOT OBS						20880		11.5	6710	4783	4877	4510
TOT PCT	35.1	39.9	19.4	4.9	.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.6	8.3	40.9	31.5	9.4	2.1	.1	11.3	100.0	6710
06&09	6.3	8.1	39.7	32.5	11.0	2.1	.3	11.8	100.0	4783
12&15	6.5	8.9	40.7	32.1	9.5	2.3	.1	11.5	100.0	4877
18&21	6.2	10.2	39.0	31.6	10.9	2.5	.1	11.6	100.0	4510
TOT								11.5		20880
PCT	6.8	8.7	40.3	31.9	10.0	2.2	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.8	2.2	5.2	7.9		5.3
NE	2.3	1.1	2.4	3.5		5.6
E	1.1	.7	1.6	3.2		6.0
SE	1.2	.7	2.4	5.9		6.5
S	1.0	.6	3.1	11.6		6.9
SW	.6	.4	2.2	5.0		6.8
W	.6	.5	2.9	4.2		6.5
NW	1.9	1.1	3.7	6.2		6.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.9	2.0	3.3		5.4
TOT OBS					13106	6.0
TOT PCT	15.5	8.3	25.5	50.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.5	.1	.3	1.0	2.9	3.3	1.0	.3	.5	.2	9.0	
NE	.6	*	*	.5	1.0	1.6	.7	.2	.3	.1	4.4	
E	.6	*	.1	.3	1.1	1.3	.3	.1	.2	.1	2.5	
SE	1.2	*	.3	.7	1.7	2.0	.7	.1	.2	.1	3.0	
S	3.0	.1	.6	1.7	3.2	3.0	1.3	.3	.3	.1	2.7	
SW	.9	.1	.2	.7	2.1	1.7	.5	.2	.1	.1	1.6	
W	.7	*	.2	.7	2.1	1.7	.5	.2	.1	.1	1.9	
NW	1.4	.1	.2	.8	2.6	2.4	.7	.2	.3	.1	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	*	.1	.3	1.0	1.1	.4	.2	.2	.1	3.7	
TOT OBS												13106
TOT PCT	11.0	.5	2.1	6.8	17.6	18.2	6.1	1.9	2.2	.9	32.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >30YD	* OR >0
* OR >6500	1.8	2.5	2.8	3.1	3.1	3.1	3.1	3.1
* OR >5000	2.5	3.8	4.6	4.9	5.0	5.0	5.0	5.0
* OR >3500	5.1	9.0	10.4	10.8	11.0	11.1	11.1	11.1
* OR >2000	14.8	23.6	27.2	28.3	29.0	29.2	29.4	29.4
* OR >1000	19.3	33.9	41.3	43.7	45.6	46.4	47.1	47.1
* OR >600	20.4	36.8	46.1	49.4	51.8	52.9	53.8	53.8
* OR >300	20.5	37.4	47.4	51.0	53.6	54.9	55.8	55.8
* OR >150	20.5	37.5	47.6	51.3	54.0	55.3	56.3	56.3
* OR > 0	20.6	38.0	49.0	53.8	57.6	61.3	66.4	67.2

TOTAL NUMBER OF OBS: 13284 PCT FREQ NH <5/8: 32.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.1	3.8	7.3	4.6	4.8	4.9	8.1	7.8	38.4	10.1	14674

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.4	.3	.2	.5	1.0	.4	.4	.5	.0	.1	3.7	
<1/2	NO PCP	1.3	.3	.3	.7	2.2	.8	.5	1.1	.0	.9	8.1	
	TOT %	1.7	.6	.5	1.2	3.1	1.2	.9	1.6	.0	.9	11.8	
	PCP	.3	.1	.2	.5	.7	.3	.4	.4	.0	.1	3.1	
1/2<1	NO PCP	.2	.1	.1	.1	.2	.1	.1	.2	.0	.1	1.2	
	TOT %	.5	.2	.3	.6	1.0	.4	.5	.6	.0	.2	4.3	
	PCP	.5	.3	.3	.4	1.0	.4	.4	.6	.0	.1	4.0	
1<2	NO PCP	.2	.1	*	.1	.3	.2	.1	.2	.0	*	1.2	
	TOT %	.7	.3	.3	.5	1.3	.5	.5	.8	.0	.1	5.1	
	PCP	.6	.4	.4	.6	1.3	.6	.4	.6	.0	.2	5.2	
2<5	NO PCP	1.2	.5	.4	.7	1.3	.7	.7	.9	.0	.6	7.1	
	TOT %	1.8	1.0	.8	1.3	2.6	1.4	1.1	1.5	.0	.8	12.3	
	PCP	.4	.2	.2	.4	.6	.2	.2	.3	.0	.1	2.7	
5<10	NO PCP	9.0	1.9	1.2	2.2	3.6	2.1	2.1	3.3	.0	1.4	22.8	
	TOT %	9.4	2.2	1.4	2.6	4.1	2.3	2.3	3.6	.0	1.6	25.5	
	PCP	.1	.1	*	.1	.2	.1	*	.1	.0	*	.7	
10+	NO PCP	10.2	4.9	3.1	4.0	4.7	2.8	2.8	4.7	.0	3.6	40.4	
	TOT %	10.3	4.9	3.1	4.1	4.9	2.4	2.9	4.8	.0	3.6	41.1	
	TOT OBS												19382
	TOT PCT	20.3	9.2	6.4	10.3	17.1	8.9	8.1	13.0	.0	7.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.3	.1	.1	.2	.4	.4	.3	.4	.0	.7	2.8	
<1/2	4-10	1.1	.4	.3	.6	1.5	.8	.5	.9	.0		6.0	
	11-21	.5	.1	.1	.3	1.0	.4	.2	.5	.0		3.1	
	22+	.1	.1	.1	.2	.6	.3	.2	.2	.0		1.7	
	TOT %	2.0	.6	.5	1.3	3.5	1.8	1.1	2.0	.0	.7	13.6	
	0-3	.1	*	*	*	.1	*	*	*	.0	.2	.5	
1/2<1	4-10	.2	.1	.3	.2	.3	.1	.1	.2	.0		1.5	
	11-21	.2	.1	.1	.2	.4	.2	.1	.3	.0		1.6	
	22+	.1	*	*	.2	.2	.1	.2	.1	.0		.9	
	TOT %	.5	.2	.4	.6	1.0	.5	.5	.6	.0	.2	4.4	
	0-3	.1	*	*	*	.1	.1	*	.1	.0	.1	.6	
1<2	4-10	.3	.2	.2	.2	.3	.2	.1	.4	.0		1.8	
	11-21	.3	.1	.1	.2	.6	.3	.3	.3	.0		2.1	
	22+	.1	*	*	.2	.4	.1	.1	.2	.0		1.0	
	TOT %	.8	.3	.3	.5	1.3	.6	.5	1.0	.0	.1	5.5	
	0-3	.2	.1	.1	.1	.2	.1	.1	.2	.0	.8	1.9	
2<5	4-10	.8	.6	.5	.5	.8	.6	.4	.7	.0		4.8	
	11-21	.7	.4	.2	.5	1.2	.5	.4	.7	.0		4.6	
	22+	.3	*	*	.3	.7	.3	.3	.3	.0		2.3	
	TOT %	2.1	1.1	.8	1.3	2.8	1.5	1.2	1.9	.0	.8	13.6	
	0-3	.5	.2	.1	.1	.3	.1	.2	.2	.0	1.5	3.3	
5<10	4-10	2.1	1.2	.7	1.1	1.3	.9	.8	1.4	.0		9.5	
	11-21	1.9	.7	.4	1.0	1.5	.8	.8	1.2	.0		8.3	
	22+	.7	.1	.1	.3	.7	.4	.4	.7	.0		3.3	
	TOT %	5.2	2.2	1.3	2.5	3.8	2.3	2.2	3.4	.0	1.5	24.3	
	0-3	.8	.4	.4	.3	.3	.3	.3	.4	.0	3.5	6.5	
10+	4-10	4.0	2.3	1.9	2.1	2.1	1.2	1.2	2.1	.0		16.8	
	11-21	3.6	1.7	.7	1.4	1.6	.7	1.0	1.5	.0		12.2	
	22+	1.0	.3	.1	.4	.5	.1	.2	.3	.0		3.0	
	TOT %	9.3	4.7	3.1	4.2	4.5	2.3	2.7	4.3	.0	3.5	38.6	
	TOT OBS												20289
	TOT PCT	20.0	9.1	6.4	10.4	16.9	8.9	8.3	13.3	.0	6.8	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	8.8	.5	2.3	6.3	17.1	21.6	6.5	1.8	3.0	1.2	69.0	31.0	5122
06&09	7.3	.4	2.0	7.7	18.9	19.1	5.8	2.0	1.4	.5	65.2	34.8	3210
12&15	14.6	.1	1.9	5.8	15.3	13.1	5.9	1.8	1.5	.9	60.9	39.1	2833
18&21	15.3	.7	1.8	6.9	18.3	13.5	5.6	2.1	2.0	.8	66.9	33.1	2574
TOT													13739
PCT	10.9	.4	2.1	6.7	17.4	18.0	6.0	1.9	2.2	.9	66.4	33.6	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
00&03	12.6	4.3	5.0	11.8	20.7	45.7	7246
06&09	12.5	3.6	4.7	12.9	24.0	42.3	4997
12&15	14.8	4.7	5.9	14.4	27.3	33.0	5057
18&21	15.5	4.2	6.8	15.9	27.1	30.4	4656
TOT							21956
PCT	13.8	4.2	5.8	13.3	24.0	39.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	8.9	16.6	33.0	38.7	28.3	4998
06&09	7.5	14.3	32.9	35.0	32.1	3123
12&15	15.1	22.8	40.7	26.3	33.0	2688
18&21	15.3	22.5	41.2	28.6	30.2	2475
TOT						13284
PCT	11.0	18.5	36.1	33.9	30.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	*	.0	.0	.0	.0		*
65/69	.0	.0	.0	.0	.0	.0	*	.0		*
60/64	.0	.0	.0	.0	*	.1	.2	.3		.5
55/59	.0	.0	.0	.1	.1	.5	1.5	1.1		3.3
50/54	.0	.0	*	.0	.1	1.2	4.8	8.0		14.1
45/49	.0	.0	.0	*	.6	1.1	3.3	8.3		13.4
40/44	.0	.0	.0	*	.2	1.4	4.5	7.0		13.1
35/39	.0	*	.1	.1	.1	1.1	3.5	6.0		10.9
30/34	.0	.0	.0	.5	.7	1.3	3.9	5.6		12.0
25/29	.0	.2	.4	.6	.9	1.5	1.6	12.2		17.3
20/24	.0	.3	.3	.4	.7	.4	1.5	4.1		7.5
15/19	.0	.1	.4	.2	.4	.9	1.5	2.1		5.6
10/14	.0	.0	.0	.0	.0	.0	.9	.6		1.5
5/9	.0	.0	.0	.0	.0	.0	.1	.6		.7
TOTAL									3742	100.0
PCT	.0	.5	1.2	1.9	3.7	9.3	27.4	56.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	*
.1	.1	.1	.1	.1	.1	*	*	.0	*
.7	.2	.1	*	.6	.3	.3	.7	.0	.3
2.6	.4	.3	.7	3.7	2.1	1.5	2.2	.0	.6
1.7	.4	.4	1.9	2.8	1.3	2.2	2.3	.0	.4
1.6	1.0	1.4	2.1	3.0	1.6	.9	1.1	.0	.3
1.9	.9	.8	1.8	2.1	.8	1.1	1.0	.0	.6
2.5	1.1	.6	1.4	2.3	1.4	1.2	1.5	.0	.1
1.5	1.1	.7	10.1	1.1	.7	.7	1.0	.0	.5
1.6	.8	.7	.8	.8	.3	1.1	1.2	.0	.2
2.1	.3	.2	.3	.5	.5	.6	1.0	.0	.1
.6	.0	.0	.0	.0	.1	.4	.4	.0	.0
.1	.1	.2	.0	.0	.0	.3	.0	.0	.0
17.0	6.3	5.4	19.2	17.0	9.0	10.3	12.5	.0	3.2

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	51	46	36	24	19	-13	41.1	7218
06&09	73	52	47	37	26	22	-4	43.6	4976
12&15	74	47	43	35	25	21	-5	40.7	5106
18&21	70	47	43	34	24	19	-4	41.1	4710
TOT	76	50	45	35	25	20	-13	41.6	22010

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.1	5.2	11.5	29.1	49.1	88	970
06&09	.0	2.8	4.7	10.9	27.4	45.8	89	1006
12&15	.0	4.2	2.5	6.1	26.9	51.9	91	951
18&21	.0	2.8	2.9	8.0	24.4	53.5	91	849
TOT	0	64	90	280	1071	2271	90	3776

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	.0	*	*	12	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	.0	22	*	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	*	*	*	*	21	*	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.1	*	.1	.1	*	.0	89	*	.4
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.2	.2	.2	.2	*	.0	.0	274	.2	1.0
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	.2	.3	.2	.2	*	.0	.0	356	.2	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.6	.5	.3	.4	.3	.2	*	.0	.0	516	.3	2.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.1	.1	.1	.1	*	.0	.0	.0	180	.1	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.8	.5	.7	.8	.4	.1	*	.0	.0	879	.5	3.8
4	.0	.0	.0	.0	.0	.0	.0	*	.7	.7	.6	.8	1.1	.8	.4	.1	*	.0	.0	1129	.8	4.6
3	.0	.0	.0	.0	.0	.0	.0	.5	.5	.3	.1	.4	.6	.3	.2	*	.0	.0	.0	487	.3	2.6
2	.0	.0	.0	.0	.0	.0	.0	.9	1.2	1.0	1.0	1.5	1.6	1.8	.3	.1	.0	.0	.0	1970	1.8	7.6
1	.0	.0	.0	.0	.0	.0	.0	1.4	.8	.3	.3	.8	.7	.4	.1	.0	.0	.0	.0	771	.5	4.3
0	.0	.0	.0	.0	.0	.0	.1	2.3	1.3	1.1	1.0	2.6	2.3	1.2	.1	*	.0	.0	.0	2207	2.1	9.8
-1	.0	.0	.0	.0	.0	.0	.7	1.2	.4	.2	.4	.7	.5	.4	*	.0	.0	.0	.0	706	.6	3.9
-2	.0	.0	.0	.0	.0	.0	1.2	.9	.6	.9	.8	1.4	.8	.4	*	*	.0	.0	.0	1131	.9	6.2
-3	.0	.0	.0	.0	.0	.0	1.7	.5	.1	.3	.4	.5	.4	.1	.0	.0	.0	.0	.0	470	.4	3.6
-4	.0	.0	.0	.0	.0	*	1.5	.5	.7	.5	.5	.4	.3	.1	*	.0	.0	.0	.0	522	.4	4.1
-5	.0	.0	.0	.0	.0	.6	1.4	.9	.3	.7	.3	.3	.1	*	.0	.0	.0	.0	.0	419	.3	4.3
-6	.0	.0	.0	.0	.0	.8	.8	.4	.3	.3	.1	*	*	.0	.0	.0	.0	.0	.0	188	.1	2.6
-7/-8	.0	.0	.0	.0	.1	1.9	1.3	.4	.4	.3	.2	*	.1	*	.0	.0	.0	.0	.0	312	.2	4.5
-9/-10	.0	.0	.0	.0	1.2	1.5	.9	.7	.2	.2	.1	*	*	.0	.0	.0	.0	.0	.0	257	.2	4.7
-11/-13	.0	.0	.0	.4	1.9	1.1	.9	.4	.1	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	262	.1	5.1
-14/-16	.0	.0	.2	1.4	.8	.4	.5	.1	.1	*	.1	.0	*	.0	.0	.0	.0	.0	.0	180	.1	3.5
-17/-19	.0	.0	1.7	.6	.2	.1	.0	.0	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	133	.1	2.7
-20/-22	.0	.6	1.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	.1	2.3
-23/-25	.2	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	.3	1.2
-26/-30	.9	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	.2	1.2
<-30	.4	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.1	.5
TOTAL																				13751		
PCT	1.4	1.8	3.7	2.7	4.5	6.7	11.2	11.0	8.5	8.2	7.9	11.3	10.2	7.2	2.4	1.0	.1	*	*	100.0	10.8	89.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	4.5	.6	.0	.0	.0	5.8
1-2	.1	2.7	2.2	.0	.0	.0	5.0
3-4	*	.9	2.3	.2	.0	.0	3.4
5-6	*	.2	1.3	.7	.0	.0	2.2
7	.0	*	.4	.6	*	.0	1.1
8-9	.0	.0	.2	.3	*	*	.6
10-11	.0	.0	.1	.3	.1	.0	.4
12	.0	.0	*	.1	.0	.0	.1
13-16	.0	*	*	.1	*	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	*	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.3	7.2	2.1	.2	*	18.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.3	.4	.0	.0	.0	4.1
1-2	*	.9	.9	.0	.0	.0	1.9
3-4	*	.2	.8	.1	.0	.0	1.1
5-6	.0	*	.5	.2	.0	.0	.7
7	.0	.1	.6	.2	*	.0	.9
8-9	.0	.0	.2	*	.0	.0	.2
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.6	3.6	.5	*	.0	9.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.7	.2	.0	.0	.0	3.1
1-2	*	1.0	.5	.0	.0	.0	1.6
3-4	*	.2	.8	*	.0	.0	1.1
5-6	.0	*	.1	*	.0	.0	.1
7	.0	.0	*	*	.1	.0	.2
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	*	.0	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	*	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	1.7	.1	.2	*	6.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.7	.4	.0	.0	.0	3.4
1-2	.1	1.0	1.5	.0	.0	.0	2.5
3-4	*	.2	.8	.3	.0	.0	1.4
5-6	*	*	.5	.3	*	.0	.9
7	.0	*	.2	.1	.1	.0	.4
8-9	.0	.0	.2	.2	.1	.0	.4
10-11	.0	.0	.1	.2	.2	.0	.4
12	.0	.0	.0	.1	.0	*	.1
13-16	.0	*	*	.1	.1	.0	.2
17-19	.0	.0	.0	.1	*	.0	.1
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.0	3.6	1.3	.5	*	9.9

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.7	.4	.0	.0	.0	3.5	.3	1.8	.1	.0	.0	.0	2.2
1-2	.1	1.9	2.2	.0	.0	.0	4.2	*	1.2	.9	.0	.0	.0	2.2
3-4	.0	.6	2.6	.5	.0	.0	3.7	.0	.3	1.4	.2	.0	.0	1.8
5-6	.0	.2	1.3	.6	*	.0	2.1	.0	*	.7	.1	*	.0	.9
7	.0	.1	.7	1.0	*	.0	1.8	.0	.1	.3	.2	.0	.0	.5
8-9	.0	*	.2	.4	.1	.0	.8	.0	*	.1	.2	.0	.0	.3
10-11	.0	.0	.1	.2	.1	.0	.5	.0	.0	.1	.2	*	.0	.3
12	.0	.0	.0	.1	*	*	.2	.0	.0	.0	.1	*	.0	.1
13-16	.0	*	*	.2	.1	.1	.3	.0	.0	*	.1	.0	.0	.1
17-19	.0	.0	.0	.1	*	.0	.1	.0	.0	*	*	.1	.0	.2
20-22	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	*	.0	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.5	7.5	3.0	.5	.1	17.1	.3	3.4	3.6	.9	.2	.0	8.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.7	.2	.0	.0	.0	2.1	.2	3.0	.3	.0	.0	.0	3.5	
1-2	.1	1.5	.9	.0	.0	.0	2.5	.1	1.9	1.5	.0	.0	.0	3.5	
3-4	*	.3	1.1	.2	.0	.0	1.7	*	.9	1.5	.1	.0	.0	2.6	
5-6	*	.1	.7	.4	.0	.0	1.2	*	.2	1.1	.4	*	.0	1.7	
7	.0	*	.4	.2	.0	.0	.6	.0	.1	.5	.2	*	.0	.9	
8-9	.0	.0	.2	.2	*	.0	.5	.0	*	.3	.3	*	.0	.7	
10-11	.0	.0	.1	.2	*	.0	.3	.0	.0	.1	.2	.1	.0	.3	
12	.0	*	.0	*	.1	.0	.1	.0	.0	*	.1	.0	.0	.1	
13-16	.0	*	.1	.2	.1	.0	.4	.0	*	.0	.1	*	.0	.1	
17-19	.0	.0	*	.0	*	.0	.1	.0	.0	.1	.1	*	.0	.2	
20-22	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
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	.1	.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	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.6	4.0	1.4	.3	.0	9.6	.3	6.2	5.3	1.5	.4	.0	13.7	92.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.8	22.4	2.6	.0	.0	.0	34.7	
1-2	.7	12.1	10.6	.0	.0	.0	23.4	
3-4	.1	3.6	11.4	1.6	.0	.0	16.8	
5-6	*	.8	6.1	2.6	.1	.0	9.8	
7	.0	.4	3.1	2.5	.3	.0	6.3	
8-9	.0	.1	1.5	1.6	.3	*	3.5	
10-11	.0	.0	.6	1.2	.5	.0	2.3	
12	.0	*	.2	.4	.1	.1	.8	
13-16	.0	.1	.2	.7	.3	.1	1.3	
17-19	.0	.0	.1	.2	.2	.0	.6	
20-22	.0	.0	.0	.1	.1	.0	.2	
23-25	.0	.0	*	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.1	*	.1	
33-40	.0	.0	.0	.0	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								6518
TOT PCT	10.6	39.6	36.5	10.9	2.3	.2	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.2	11.5	7.9	4.3	2.3	.7	.4	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4068	3
6-7	*	1.6	3.7	3.5	2.8	1.2	.8	.3	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	1508	5
8-9	.0	.6	1.0	1.1	1.1	.7	.8	.4	.7	.2	.0	*	.0	.0	.0	.0	.0	.0	.0	624	8
10-11	.0	.6	.4	.2	.2	.1	.2	.1	.2	.1	*	*	.0	*	.0	.0	.0	.0	.0	197	7
12-13	.0	.0	.5	.2	.1	.1	*	.1	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	126	7
>13	.0	.0	.0	.2	.1	.1	.1	.0	*	*	*	*	*	.0	.0	.0	.0	.0	.0	47	9
INDET	11.9	2.9	10.4	7.0	5.4	2.2	1.0	.1	.2	.1	*	*	.1	.0	.0	.0	.0	.0	.0	4037	3
TOTAL																				10607	4
PCT	18.1	17.2	24.0	16.4	12.1	5.1	3.4	1.0	1.7	.5	.2	.1	.1	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1870-1974

AREA 0016 WEST COAST KAMCHATKA
54.2N 155.5E

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	.1	.0	.0	.0	.0	1	*
63/64	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	11	.1
61/62	.0	.0	.0	.0	.0	.0	.9	.3	.1	.2	.0	.0	41	.3
59/60	.0	.0	.0	.0	.0	.0	1.1	1.2	.7	.6	.0	.0	75	.5
57/58	.0	.0	.0	.0	.0	*	.9	3.4	1.8	1.3	.0	.0	129	.8
55/56	.0	.0	.0	.0	.0	.1	4.5	14.2	2.2	.4	.0	.0	476	3.0
53/54	.0	.0	.0	.0	.0	.3	9.5	22.3	17.5	.6	.0	.0	1000	6.3
51/52	.0	.0	.0	.0	*	.7	15.1	24.2	19.8	2.2	.0	.0	1288	8.1
49/50	.0	.0	.0	.1	.4	3.8	14.4	13.4	21.5	3.7	1.5	.0	1179	7.4
47/48	.0	.0	.0	.1	.3	8.4	24.1	13.0	19.6	13.9	.4	.0	1681	10.6
45/46	.3	.3	.2	.1	.5	30.1	22.2	5.6	12.7	20.1	1.1	.0	2078	13.0
43/44	.3	.2	.2	.4	1.3	18.3	3.9	1.1	1.7	24.0	2.6	1.7	893	5.6
41/42	.3	.2	.5	.4	5.7	14.6	1.8	.3	1.8	9.7	17.9	7.7	775	4.9
39/40	.3	1.8	.4	3.3	9.4	11.4	.7	.4	.5	6.1	21.2	1.7	739	4.6
37/38	.6	.6	.7	1.6	15.9	6.2	.2	.4	.1	11.9	20.9	4.3	711	4.5
35/36	5.5	8.1	5.3	9.7	22.0	4.6	.1	.3	.0	5.2	19.0	10.3	967	6.1
33/34	11.3	4.2	8.0	17.6	27.5	1.4	.1	.2	.0	.0	8.8	16.2	1054	6.6
31/32	20.9	10.2	15.2	30.4	12.7	.3	*	.0	.0	.0	5.9	20.5	959	6.0
29/30	58.1	70.5	62.3	33.9	3.9	.0	.0	.0	.0	.0	.7	29.9	1731	10.9
27/28	2.3	3.7	7.1	2.6	.3	.0	.0	.0	.0	.0	.0	7.7	139	.9
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	944	668	879	1136	2284	3007	3621	1994	1142	482	273	117	15927	100.0
MEAN	30.8	30.5	30.5	32.1	35.5	42.9	49.0	51.6	49.9	43.6	37.8	32.6	38.9	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1000	1007	1000	997	1000	1001	1000	994	1000	593
FEB	1005	1011	1005	1009	1005	1010	1006	1011	1006	1089
MAR	1005	1004	1006	999	1005	989	1005	996	1005	1482
APR	1011	1008	1011	1009	1011	1011	1010	1010	1011	1627
MAY	1013	1010	1011	1010	1011	1009	1011	1010	1011	2977
JUN	1014	1012	1014	1011	1013	1011	1013	1011	1012	3639
JUL	1010	1008	1010	1008	1010	1008	1009	1008	1009	4347
AUG	1010	1008	1010	1007	1010	1008	1010	1007	1009	2822
SEP	1014	1011	1013	1011	1014	1011	1014	1011	1013	1698
OCT	1010	1015	1009	1017	1009	1019	1009	1019	1010	938
NOV	1005		1005		1004		1005		1005	506
DEC	1004		1002		1008		1006		1005	175
ANN	1008	1009	1008	1008	1008	1008	1008	1008	1009	21893
OBS	5142	1998	3232	1753	3332	1731	3087	1618		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	969	975	981	993	1000	1008	1017	1025	1030
FEB	973	979	984	999	1007	1013	1023	1030	1035
MAR	963	977	986	999	1006	1012	1019	1026	1037
APR	981	984	991	1005	1012	1018	1025	1031	1039
MAY	973	989	996	1005	1011	1017	1025	1031	1043
JUN	988	996	1001	1008	1013	1018	1023	1025	1034
JUL	974	990	997	1005	1009	1013	1020	1025	1030
AUG	984	991	994	1004	1010	1014	1021	1026	1033
SEP	979	987	996	1006	1013	1019	1027	1040	1048
OCT	969	975	987	1004	1011	1017	1028	1032	1036
NOV	960	967	976	1000	1007	1013	1021	1027	1029
DEC	960	966	978	998	1007	1011	1028	1030	1032

MARCH

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0017 TATAR STRAIT N
49.7N 141.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	13.8	.0	.0	13.8	3.8	.0	1.0	.0	.0		2.8	78.5
NE	3.9	.0	.0	.0	10.8	.0	.0	10.8	3.9	.0	2.5	.0	3.9		2.0	77.0
E	.0	.0	.0	.0	8.5	.0	.0	8.5	.0	.0	.0	.0	4.9		.0	86.6
SE	.0	.0	.0	.0	6.3	.0	.0	6.3	.0	.0	.0	.0	.0		.0	93.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	.0	.0		.0	92.2
SW	.0	.0	.0	.0	18.2	.0	.0	18.2	.0	.0	6.1	.0	.0		.0	75.8
W	.0	.0	5.6	4.2	22.2	.0	.0	31.9	.0	.0	4.2	.0	.0		.0	63.9
NW	.0	2.8	.0	.7	21.4	.0	.0	24.8	3.4	.0	3.4	.0	.0		.0	68.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.8	.4	.4	.4	13.3	.0	.0	14.5	2.4	.0	2.4	.0	1.2		1.2	78.2
TOT OBS:	248															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.8	12.5	.0	.0	13.3	4.2	.0	3.3	.0	2.5		.8	75.8
06&09	.0	1.7	.0	.0	3.4	.0	.0	5.2	.0	.0	3.4	.0	.0		1.7	89.7
12&15	1.8	.0	.0	.0	19.3	.0	.0	19.3	1.8	.0	.0	.0	.0		1.8	77.2
18&21	2.2	.0	2.2	.0	15.2	.0	.0	17.4	2.2	.0	2.2	.0	.0		.0	78.3
TOT PCT	.7	.4	.4	.4	12.5	.0	.0	13.5	2.5	.0	2.5	.0	1.1		1.1	79.4
TOT OBS:	281															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	10.4	8.8	7.7	3.0	.4		30.3	18.6	28.6	42.3	48.8	30.0	14.7	20.0	23.3	36.4
NE	.6	7.6	7.9	2.6	1.2	.0		19.8	15.2	22.8	11.5	16.9	22.5	22.3	10.0	25.0	4.5
E	1.4	5.2	1.9	.6	.0	.0		8.4	9.2	6.1	3.8	3.8	7.5	8.7	50.0	12.9	22.7
SE	.0	5.9	.6	.4	.0	.0		6.9	8.4	6.9	.0	2.5	20.0	9.8	.0	13.8	.0
S	.4	3.2	1.4	.0	.0	.0		5.0	8.7	7.2	3.8	5.0	10.0	3.3	.0	2.6	.0
SW	.0	6.0	.8	.0	.0	.0		6.8	7.8	4.7	7.7	5.0	10.0	13.0	.0	7.8	.0
W	.3	4.2	1.9	1.1	.0	.0		7.0	11.1	7.5	11.5	5.0	.0	3.8	.0	5.2	27.3
NW	1.3	6.5	4.8	1.3	.1	.0		13.9	11.7	12.8	15.4	13.1	.0	22.3	20.0	9.5	9.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	3.3	3.8	.0	.0	2.2	.0	.0	.0
TOT OBS	15	126	69	35	11	1	257		13.4	90	26	40	10	46	5	29	11
TOT PCT	5.8	49.0	26.8	13.6	4.3	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.3	9.6	8.2	6.0	1.2		30.3	18.6	31.7	45.0	15.2	26.9
NE	2.8	10.8	3.6	2.4	.4		19.8	15.2	20.3	18.0	21.1	19.4
E	3.7	3.1	1.6	.0	.0		8.4	9.2	5.6	4.5	12.7	15.6
SE	2.7	3.8	.4	.0	.0		6.9	8.4	5.4	6.0	8.8	10.0
S	1.6	3.0	.4	.0	.0		5.0	8.7	6.5	0.0	2.9	1.9
SW	2.7	4.1	.0	.0	.0		6.8	7.8	5.4	6.0	11.8	5.6
W	3.7	1.4	1.7	.3	.0		7.0	11.1	8.4	4.0	3.4	11.3
NW	3.8	5.8	3.7	.6	.0		13.9	11.7	13.4	10.5	22.1	9.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	3.4	.0	2.0	.0
TOT OBS	72	107	50	24	4	257		13.4	116	50	51	40
TOT PCT	28.0	41.6	19.5	9.3	1.6		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0017 TATAR STRAIT N
49.7N 141.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.4	3.4	53.4	25.0	10.3	4.3	.0	11.9	100.0	116
06&09	.0	4.0	40.0	30.0	22.0	4.0	.0	15.7	100.0	50
12&15	2.0	2.0	52.9	31.4	9.8	2.0	.0	12.1	100.0	51
18&21	.0	7.5	42.5	22.5	17.5	7.5	2.5	16.4	100.0	40
TOT	5	10	126	69	35	11	1	13.4		257
PCT	1.9	3.9	49.0	26.8	13.6	4.3	.4		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.5	1.6	10.0	8.0		4.7
NE	6.4	.7	8.8	7.4		5.4
E	2.1	.4	3.9	1.3		4.9
SE	2.1	1.1	2.2	1.1		4.0
S	2.0	.0	1.4	1.1		4.3
SW	1.2	.0	.5	2.6		5.7
W	3.0	.9	.9	2.1		4.1
NW	4.2	.7	3.7	5.9		5.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	.5	.0	.5		3.5
TOT OBS	62	11	60	57	190	4.9
TOT PCT	32.6	5.8	31.6	30.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 2499	2500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.0	.0	.0	.0	2.5	5.4	2.1	.0	.0	.0	17.2	
NE	2.2	.0	.0	.0	.7	5.9	2.6	.0	.5	.5	10.8	
E	.0	.0	.0	.0	.0	2.6	1.1	.0	.0	.0	4.1	
SE	.0	.0	.0	.0	.0	.1	1.6	.0	.0	.5	4.2	
S	.5	.0	.0	.0	.5	.4	.0	.0	.0	.5	2.5	
SW	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
W	1.7	.0	.0	.0	.0	.8	.0	.0	.0	.0	4.5	
NW	2.0	.0	.5	.1	1.6	3.2	1.1	.0	.0	.0	6.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.6	
TOT OBS	20	0	1	2	11	35	16	0	1	3	101	190
TOT PCT	10.5	.0	.5	1.1	5.8	18.4	8.4	.0	.5	1.6	53.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
≥ OR >5000	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
≥ OR >3500	8.1	9.6	10.1	10.1	10.1	10.1	10.1	10.1
≥ OR >2000	17.2	21.7	24.7	27.3	27.3	27.3	27.8	27.8
≥ OR >1000	18.7	24.7	29.3	31.8	31.8	31.8	33.3	33.3
≥ OR >600	19.2	25.8	30.3	32.8	32.8	32.8	34.3	34.3
≥ OR >300	19.2	25.8	30.3	32.8	32.8	32.8	34.3	34.3
≥ OR >150	19.2	25.8	30.3	32.8	32.8	32.8	34.3	34.3
≥ OR > 0	19.2	26.3	31.8	35.4	36.9	38.9	45.5	45.5
TOTAL	38	52	63	70	73	77	90	90

TOTAL NUMBER OF OBS: 198 PCT FREQ NH <5/8: 54.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
30.8	5.7	10.4	1.9	3.3	4.7	8.5	10.4	13.7	10.4	211

MARCH

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0017 TATAR STRAIT N
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.8	.8	.0	.0	.0	.8	1.3	1.3	.0	.0	4.9	
<1/2	NO PCP	1.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
	TOT %	1.7	1.7	.0	.0	.0	.8	1.3	1.3	.0	.0	6.9	
	PCP	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.8	
1/2<1	NO PCP	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.8	
	TOT %	.0	.8	.0	.0	.4	.0	.0	.4	.0	.0	1.6	
	PCP	1.3	.0	.0	.4	.0	.0	.3	.8	.0	.0	2.9	
1<2	NO PCP	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.8	
	TOT %	1.3	.0	.4	.4	.0	.4	.3	.8	.0	.0	3.7	
	PCP	.7	.2	.7	.0	.0	.4	.3	.9	.0	.0	3.3	
2<5	NO PCP	1.2	.9	.3	.0	.7	.1	.3	.5	.0	.4	4.5	
	TOT %	1.9	1.1	1.0	.0	.7	.5	.6	1.4	.0	.4	7.8	
	PCP	.8	.4	.0	.0	.0	.0	.4	.4	.0	.0	2.0	
5<10	NO PCP	2.6	3.2	.4	.4	.4	.0	.3	1.3	.0	.4	9.0	
	TOT %	3.4	3.6	.4	.4	.4	.0	.7	1.7	.0	.4	11.0	
	PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
10+	NO PCP	20.1	13.6	6.5	5.6	3.7	5.0	4.4	8.5	.0	1.2	68.6	
	TOT %	20.5	13.6	6.5	5.6	3.7	5.0	4.4	8.5	.0	1.2	69.0	
	TOT OBS												245
	TOT PCT	29.1	20.8	8.4	6.4	5.2	6.7	7.3	14.0	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.4	.4	.0	.0		.8	
	11-21	.4	.4	.0	.0	.0	.4	.9	1.1	.0		3.2	
	22+	1.5	1.3	.0	.0	.0	.0	.0	.4	.0		3.2	
	TOT %	1.9	1.7	.0	.0	.0	.8	1.3	1.5	.0	.0	7.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.4	.0	.0	.4	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.8	.0	.0	.0	.0	.0	.0	.0		.8	
	TOT %	.0	.8	.0	.0	.4	.0	.0	.4	.0	.0	1.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.4	.0	.8	.0	.0	.4	.3	.5	.0		2.4	
	11-21	.3	.0	.0	.4	.0	.0	.0	.1	.0		.8	
	22+	.8	.0	.0	.0	.0	.0	.0	.0	.0		.8	
	TOT %	1.5	.0	.8	.4	.0	.4	.3	.6	.0	.0	4.0	
	0-3	.0	.0	.0	.0	.0	.0	.3	.1	.0	.4	.8	
2<5	4-10	.0	.4	.4	.0	.3	.5	.0	1.2	.0		2.8	
	11-21	1.1	.6	.3	.0	.4	.0	.3	.1	.0		2.8	
	22+	1.2	.1	.3	.4	.0	.0	.4	.0	.0		2.4	
	TOT %	2.3	1.1	1.0	.4	.7	.5	1.0	1.4	.0	.4	8.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
5<10	4-10	1.4	1.0	.0	.4	.0	.0	.3	.9	.0		4.0	
	11-21	1.1	1.3	.4	.0	.4	.0	.0	.4	.0		3.6	
	22+	.8	1.2	.0	.0	.0	.0	.4	.8	.0		3.2	
	TOT %	3.3	3.5	.4	.4	.4	.0	.7	2.1	.0	.4	11.3	
	0-3	.0	.6	1.4	.0	.4	.0	.0	1.2	.0	1.2	4.8	
10+	4-10	8.6	6.5	4.1	5.3	2.2	4.5	3.3	3.3	.0		37.9	
	11-21	5.3	5.8	.6	.2	.6	.4	.3	3.2	.0		16.5	
	22+	6.4	.5	.3	.0	.0	.0	.3	.2	.0		7.7	
	TOT %	20.3	13.4	6.5	5.5	3.2	4.9	3.9	8.0	.0	1.2	66.9	
	TOT OBS												246
	TOT PCT	29.3	20.6	8.7	6.8	4.7	6.7	7.3	14.0	.0	2.0	100.0	

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PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.8	.0	.0	1.9	7.8	21.4	8.7	.0	1.0	2.9	50.5	49.5	103
06&09	10.3	.0	2.6	.0	2.6	23.1	7.7	.0	.0	.0	46.2	53.8	39
12&15	23.5	.0	.0	.0	5.9	5.9	5.9	.0	.0	.0	41.2	58.8	34
18&21	11.5	.0	.0	.0	.0	11.5	7.7	.0	.0	.0	30.8	69.2	26
TOT	22	0	1	2	11	36	16	0	1	3	92	110	202
PCT	10.9	.0	.5	1.0	5.4	17.8	7.9	.0	.5	1.5	45.5	54.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	5.7	.8	4.9	9.0	11.5	68.0	122
06&09	7.0	1.8	.0	10.5	8.8	71.9	57
12&15	10.5	1.8	3.5	1.8	22.8	59.6	57
18&21	10.4	4.2	6.3	16.7	8.3	54.2	48
TOT	22	5	11	26	36	184	284
PCT	7.7	1.8	3.9	9.2	12.7	64.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.9	10.9	25.7	28.7	45.5	101
06&09	10.8	10.8	13.5	29.7	56.8	37
12&15	23.5	23.5	26.5	14.7	58.8	34
18&21	11.5	11.5	23.1	15.4	61.5	26
TOT	22	26	46	49	103	198
PCT	11.1	13.1	23.2	24.7	52.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	1.0	.0	.0	1.0	2	1.9
30/34	.0	1.0	.0	8.7	2.9	4.9	1.9	.0	20	19.4
25/29	.0	.0	2.9	9.7	19.4	19.4	8.7	.0	62	60.2
20/24	.0	.0	1.0	1.0	2.9	3.9	3.9	.0	13	12.6
15/19	.0	.0	.0	.0	.0	2.9	1.0	.0	4	3.9
10/14	.0	.0	.0	.0	.0	1.0	1.0	.0	2	1.9
TOTAL	0	1	4	20	27	33	17	1	103	100.0
PCT	.0	1.0	3.9	19.4	26.2	32.0	16.5	1.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.0	.0	.0	.0	1.0	.0	.2	.0	.0
4.6	4.4	1.5	1.0	1.0	.0	4.6	2.4	.0	.0
25.0	13.1	6.3	8.7	.0	2.9	1.7	1.5	.0	1.0
1.9	4.9	4.9	1.0	.0	.0	.0	.0	.0	.0
.0	1.0	.0	1.0	.0	.0	.0	1.9	.0	.0
.7	.2	.0	.0	.0	.0	.0	1.0	.0	.0
33.0	23.5	12.6	11.7	1.0	3.9	6.3	7.0	.0	1.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	44	37	36	26	7	5	4	24.1	121
06&09	50	49	36	27	13	7	7	26.2	62
12&15	34	33	33	26	10	5	5	23.5	57
18&21	45	44	39	23	12	8	8	22.2	48
TOT	50	44	36	26	9	5	4	24.1	288

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	21.6	21.6	35.3	19.6	2.0	70	51
06&09	.0	43.5	26.1	17.4	13.0	.0	64	23
12&15	.0	37.5	31.3	18.8	12.5	.0	66	16
18&21	.0	5.9	35.3	47.1	11.8	.0	71	17
TOT	0	28	28	33	17	1	68	107

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	2	.0	.8
4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	2	.4	.4
3	.0	.0	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	.0	3	.0	1.2
2	.0	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	.4	.0	4	.0	1.6
1	.0	.0	.0	.0	.0	.0	.0	1.2	2.0	.0	.4	.0	.0	9	.0	3.6
0	.0	.0	.0	.0	.0	.0	.4	1.6	1.6	.0	.0	.0	.0	9	.4	3.2
-1	.0	.0	.0	.0	.0	.0	.8	4.4	.4	.0	.0	.0	.0	14	.4	5.2
-2	.0	.0	.0	.0	.0	.0	3.6	4.0	.8	.0	.0	.0	.0	21	.0	8.5
-3	.0	.0	.0	.0	.0	.0	5.6	3.2	.0	.0	.0	.0	.0	22	.0	8.9
-4	.0	.0	.0	.0	.0	.0	2.8	3.2	.4	.0	.0	.0	.0	16	.0	6.5
-5	.0	.0	.0	.0	.0	1.2	7.3	.0	.0	.4	.0	.0	.0	22	.4	8.5
-6	.0	.0	.0	.0	.0	1.2	3.6	.4	.0	.0	.0	.0	.0	13	.0	5.2
-7/-8	.0	.0	.0	.0	.0	6.5	4.0	.0	.0	.0	.0	.0	.0	26	.4	10.1
-9/-10	.0	.0	.0	.0	1.2	2.8	.8	.0	.0	.0	.0	.0	.0	12	.0	4.8
-11/-13	.0	.0	.0	.8	4.4	.8	.8	.0	.0	.0	.0	.0	.0	17	.0	6.9
-14/-16	.0	.0	.0	2.8	3.6	.8	.0	.0	.0	.0	.0	.0	.0	18	.0	7.3
-17/-19	.0	.0	2.4	4.8	2.0	.0	.0	.0	.0	.0	.0	.0	.0	23	.0	9.3
-20/-22	.0	1.2	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	3.2
-23/-25	.4	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	2.4
TOTAL	1	7	10	23	28	33	74	47	18	4	1	1	1	248	5	243
PCT	.4	2.8	4.0	9.3	11.3	13.3	29.8	19.0	7.3	1.6	.4	.4	.4	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.3	1.0	.0	.0	.0	7.3
1-2	.0	1.9	3.6	.0	.0	.0	5.6
3-4	.0	1.0	3.6	2.9	.0	.0	7.5
5-6	.0	.7	.7	1.0	.0	.0	2.4
7	.0	.0	.0	4.9	.0	.0	4.9
8-9	.0	.0	.0	.0	1.7	.0	1.7
10-11	.0	.0	.0	4.9	1.0	.0	5.8
12	.0	.0	.0	.0	1.9	.0	1.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.0	9.0	13.6	4.6	.0	37.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	7.0	1.2	.0	.0	.0	9.2
1-2	.0	1.9	1.5	.0	.0	.0	3.4
3-4	.0	1.9	1.2	.0	.0	.0	3.2
5-6	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	1.0	.0	.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	11.2	4.9	.0	.0	.0	17.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.5	.7	.0	.0	.0	8.3
1-2	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.5	2.2	.0	.0	.0	9.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	9.7	.0	.0	.0	.0	9.7
1-2	.0	.0	1.0	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.7	1.0	.0	.0	.0	10.7

PERIOD: (OVER-ALL) 1963-1974

MARCH

AREA 0017 TATAR STRAIT N
49.7N 141.6E

TABLE 18 (CONT)

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

S

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

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	4.6	.0	.0	.0	.0	5.3
1-2	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.7	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.6	.7	.7	.0	.0	6.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	2.7	.0	.0	.0	.0	2.9	
1-2	.0	.0	.2	.0	.0	.0	.2	
3-4	.0	.0	1.2	.0	.0	.0	1.2	
5-6	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	1.0	.0	.0	1.0	
8-9	.0	.0	.0	1.0	.2	.0	1.2	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.2	2.7	1.7	2.2	.2	.0	7.0	96.1
TOT PCT	.2	2.7	1.7	2.2	.2	.0	7.0	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	42.7	2.9	.0	.0	.0	51.5	
1-2	.0	6.8	7.8	.0	.0	.0	14.6	
3-4	.0	2.9	6.8	2.9	.0	.0	12.6	
5-6	.0	1.0	1.0	1.0	.0	.0	2.9	
7	.0	.0	.0	5.8	.0	.0	5.8	
8-9	.0	.0	.0	1.0	1.9	.0	2.9	
10-11	.0	.0	.0	5.8	1.0	.0	6.8	
12	.0	.0	.0	.0	1.9	.0	1.9	
13-16	.0	.0	1.0	.0	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	53.4	19.4	16.5	4.9	.0	100.0	103

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	10.4	11.2	1.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	3
6-7	.0	.0	.0	.8	.8	.0	3.2	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	9
8-9	.0	.0	.0	.0	.8	.8	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
>13	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	38.4	10.4	7.2	2.4	2.4	.8	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	2
TOTAL	48	26	23	7	7	3	7	3	1	0	0	0	0	0	0	0	0	0	0	125	3
PCT	38.4	20.8	18.4	5.6	5.6	2.4	5.6	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1939-1974

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	2.7	1.2	1.2	.0	9.5	.0	1.2	14.9	1.2	.0	8.2	.0	.0		.0	75.6
NE	5.5	.0	.0	.0	4.5	.0	.0	9.1	3.6	.0	7.3	.0	.0		.0	80.0
E	2.3	.0	.0	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0		.0	97.7
SE	4.8	.0	3.2	.0	.0	.0	.0	8.0	3.2	.0	4.8	.0	.0		.0	84.0
S	3.1	4.6	3.1	.0	2.0	.0	.0	11.7	1.8	.0	11.7	.8	.0		.0	74.0
SW	3.6	2.7	1.8	.0	7.2	.0	.0	15.2	2.2	.0	16.6	.4	.0		.0	65.5
W	.0	.0	.0	.0	5.8	.0	.0	5.8	.0	.0	2.9	.0	.0		.0	91.3
NW	8.7	.0	.0	.0	25.5	.0	.0	34.2	.0	.0	.7	.0	.0		.0	65.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	3.6	.0	.0	3.6	3.6	.0	17.9	.0	.0		.0	75.0
TOT PCT	3.4	1.7	1.5	.0	6.6	.0	.2	13.0	1.7	.0	9.1	.2	.0		.0	75.9
TOT OBS:	407															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.8	1.1	1.1	.0	10.2	.0	.0	14.1	.6	.0	9.0	.0	.0		.0	76.3
06&09	3.7	.0	2.4	.0	3.7	.0	.0	9.8	3.7	.0	12.2	.0	.0		.0	74.4
12&15	1.0	3.0	2.0	.0	6.0	.0	1.0	13.0	1.0	.0	4.0	.0	.0		.0	82.0
18&21	6.7	2.7	.0	.0	6.7	.0	.0	16.0	4.0	.0	13.3	1.3	.0		.0	65.3
TOT PCT	3.2	1.6	1.4	.0	7.4	.0	.2	13.4	1.8	.0	9.2	.2	.0		.0	75.3
TOT OBS:	434															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.2	5.7	9.0	4.6	1.1	.0		22.5	15.5	18.2	25.0	30.8	28.6	24.7	12.5	21.2	19.6
NE	.6	2.8	3.4	.6	.0	.0		7.5	11.9	7.0	2.5	8.8	10.7	8.0	8.3	9.0	4.3
E	.3	2.8	2.5	.2	.0	.0		5.8	10.0	6.3	5.0	1.7	.0	5.0	8.3	13.5	6.5
SE	.5	4.7	1.6	.1	.3	.0		7.2	9.1	7.4	5.0	4.2	.0	6.7	20.8	4.5	19.6
S	.3	7.0	6.8	5.8	.6	.0		20.5	16.6	22.1	21.3	27.9	16.1	14.3	8.3	19.9	21.7
SW	.3	4.2	5.7	1.7	.5	.0		12.3	15.4	13.3	16.3	10.0	19.6	11.7	12.5	10.3	10.9
W	1.0	2.5	2.6	.3	.2	.0		6.5	11.1	3.7	7.5	7.9	10.7	9.0	8.3	4.5	9.8
NW	1.3	3.2	4.6	.7	.0	.0		9.8	11.9	11.1	17.5	3.8	7.1	8.7	20.8	12.2	7.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.8							7.8	.0	10.9	.0	5.0	7.1	12.0	.0	5.1	.0
TOT OBS	53	122	134	52	10	0	371		12.8	128	20	60	14	75	12	39	23
TOT PCT	14.3	32.9	36.1	14.0	2.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	9.0	6.4	2.4	.3		22.5	15.5	19.1	30.4	23.0	20.6
NE	1.1	5.1	.9	.3	.0		7.5	11.9	6.4	9.1	8.0	7.3
E	1.8	3.8	.2	.0	.0		5.8	10.0	6.1	1.4	5.5	10.9
SE	3.3	3.3	.3	.3	.0		7.2	9.1	7.1	3.4	8.6	10.1
S	4.1	6.2	6.9	3.2	.0		20.5	16.6	22.0	25.7	13.5	20.6
SW	2.2	4.6	4.6	.6	.3		12.3	15.4	13.7	11.8	11.8	10.5
W	1.8	3.5	1.0	.2	.0		6.5	11.1	4.2	8.4	8.9	6.5
NW	2.9	3.9	3.0	.1	.0		9.8	11.9	12.0	4.4	10.3	10.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.8						7.8	.0	9.5	5.4	10.3	3.2
TOT OBS	110	146	87	26	2	371		12.8	148	74	87	62
TOT PCT	29.6	39.4	23.5	7.0	.5		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	9.5	8.1	30.4	33.8	16.9	1.4	.0	12.6	100.0	148
06&09	5.4	4.1	29.7	41.9	14.9	4.1	.0	13.9	100.0	74
12&15	10.3	6.9	34.5	34.5	10.3	3.4	.0	12.1	100.0	87
18&21	3.2	4.8	40.3	37.1	11.3	3.2	.0	13.2	100.0	62
TOT	29	24	122	134	52	10	0	12.8		371
PCT	7.8	6.5	32.9	36.1	14.0	2.7	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.3	1.8	4.4	8.2		4.9
NE	1.1	.7	2.5	2.9		5.8
E	.8	.9	.6	2.8		5.9
SE	1.7	.4	.9	2.5		5.0
S	7.8	3.1	4.7	9.7		4.7
SW	3.6	2.0	2.6	5.1		5.1
W	3.0	.2	1.1	1.1		3.5
NW	2.7	.0	2.1	4.6		5.6
VAR	.0	.0	.0	.0		.0
CALM	4.1	1.3	.3	2.2		3.4
TOT OBS	98	33	61	124	316	4.9
TOT PCT	31.0	10.4	19.3	39.2	100.0	

TABLE 6

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

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
2.1	.0	.0	.0	2.9	2.9	1.7	.3	.0	.6	10.2	
.0	.0	.0	.0	1.1	.1	1.7	.3	.0	.0	4.0	
.0	.0	.0	.0	.6	.6	1.3	.0	.0	.0	2.7	
.5	.0	.0	.3	.6	.9	.8	.3	.0	.0	2.1	
1.4	.0	.0	1.3	4.4	1.7	1.1	.0	1.6	.2	13.4	
1.6	.0	.0	.9	2.0	.8	1.1	.0	.3	.1	6.5	
.0	.0	.0	.0	.6	.2	.6	.3	.0	.0	3.8	
.5	.0	.0	.3	2.0	1.9	1.1	.0	.3	.1	9.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.9	.0	.0	.0	.3	.6	.0	.0	.0	.3	5.7	
22	0	0	9	46	31	30	4	7	4	163	316
7.0	.0	.0	2.8	14.6	9.8	9.5	1.3	2.2	1.3	51.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.1	3.3	3.3	3.3	3.3	3.3	3.3	3.3
* OR >5000	2.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5
* OR >3500	7.8	12.5	13.4	13.4	13.4	13.4	13.4	13.4
* OR >2000	11.9	19.7	22.4	22.4	23.3	23.3	23.6	23.6
* OR >1000	14.6	27.5	34.3	35.8	36.7	37.0	37.3	37.3
* OR >600	14.9	29.3	36.4	38.2	39.4	40.0	40.3	40.3
* OR >300	14.9	29.3	36.4	38.2	39.4	40.0	40.3	40.3
* OR >150	14.9	29.3	36.4	38.2	39.4	40.0	40.3	40.3
* OR > 0	14.9	30.4	38.5	43.0	44.2	46.3	48.7	49.0
TOTAL	50	102	129	144	148	155	163	164

TOTAL NUMBER OF OBS: 335 PCT FREQ NH <5/8: 51.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
26.4	1.4	10.6	5.8	5.8	1.9	6.4	5.3	28.1	8.3	360

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

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50.1N 141.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.6	.0	.0	.0	.5	.2	.0	.1	.0	.0	1.5	
<1/2	NO PCP	1.2	.2	.0	.4	.6	.7	.0	.1	.0	.7	3.9	
	TOT %	1.8	.2	.0	.4	1.1	1.0	.0	.2	.0	.7	5.3	
	PCP	.2	.0	.0	.0	.0	.2	.0	.7	.0	.0	1.2	
1/2<1	NO PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.2	.3	.0	.7	.0	.0	1.5	
	PCP	1.1	.1	.0	.0	.5	.2	.4	.9	.0	.2	3.4	
1<2	NO PCP	.2	.0	.0	.0	.2	.3	.0	.0	.0	.0	.7	
	TOT %	1.3	.1	.0	.0	.7	.5	.4	.9	.0	.2	4.1	
	PCP	.8	.5	.0	.5	.8	.9	.0	1.6	.0	.0	5.1	
2<5	NO PCP	.2	.7	.2	.0	1.9	1.0	.4	.1	.0	.5	5.1	
	TOT %	1.0	1.3	.2	.5	2.7	1.9	.4	1.6	.0	.5	10.2	
	PCP	.9	.0	.1	.1	1.0	.4	.0	.3	.0	.0	2.9	
5<10	NO PCP	4.8	1.5	1.3	2.2	5.9	2.5	1.2	.7	.0	1.0	21.1	
	TOT %	5.7	1.5	1.5	2.3	7.0	3.0	1.2	1.0	.0	1.0	24.0	
	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
10+	NO PCP	10.8	3.6	3.5	4.4	12.1	6.8	4.3	5.1	.0	4.4	54.7	
	TOT %	10.7	3.6	3.5	4.4	12.1	6.8	4.3	5.1	.0	4.4	55.0	
	TOT OBS												413
	TOT PCT	20.8	6.7	5.2	7.6	23.7	13.5	6.2	9.6	.0	6.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.4	.3	.0	.0	.0	.0	.0	.1	.0	.8	1.6	
<1/2	4-10	.8	.0	.0	.3	.5	.5	.0	.0	.0		2.2	
	11-21	.2	.0	.0	.1	.2	.3	.0	.1	.0		.8	
	22+	.5	.0	.0	.0	.3	.0	.0	.0	.0		.8	
	TOT %	2.0	.3	.0	.4	1.0	.8	.0	.2	.0	.8	5.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.3	.0	.3	.0		.5	
	11-21	.3	.0	.0	.0	.0	.0	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.5	.0		.5	
	TOT %	.3	.0	.0	.0	.0	.3	.0	.8	.0	.0	1.4	
	0-3	.3	.0	.0	.0	.0	.0	.0	.3	.0	.3	.8	
1<2	4-10	.5	.1	.0	.0	.3	.3	.4	.1	.0		1.6	
	11-21	.5	.0	.0	.0	.5	.1	.0	.6	.0		1.6	
	22+	.3	.0	.0	.0	.0	.3	.0	.0	.0		.5	
	TOT %	1.5	.1	.0	.0	.8	.6	.4	1.0	.0	.3	4.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.5	.8	
2<5	4-10	.5	.9	.3	.3	.0	.1	.2	.3	.0		2.5	
	11-21	.4	.3	.0	.0	.6	1.6	.2	1.0	.0		4.1	
	22+	.3	.3	.0	.0	1.0	.3	.0	.0	.0		1.9	
	TOT %	1.2	1.4	.3	.3	1.6	2.0	.4	1.6	.0	.5	9.3	
	0-3	.0	.0	.0	.3	.0	.0	.3	.0	.0	1.1	1.6	
5<10	4-10	2.3	1.0	.7	1.0	2.0	1.0	.3	.6	.0		8.8	
	11-21	2.9	.6	.8	.8	2.1	1.0	.1	.1	.0		8.5	
	22+	1.3	.1	.2	.3	2.3	.5	.2	.1	.0		4.9	
	TOT %	6.5	1.6	1.6	2.3	6.5	2.5	.9	.8	.0	1.1	23.9	
	0-3	1.5	.3	.3	.3	.3	.3	.8	.7	.0	4.9	9.3	
10+	4-10	1.7	1.0	1.9	3.2	4.4	2.1	1.4	1.9	.0		17.6	
	11-21	4.6	2.5	1.6	.8	3.5	2.8	2.3	2.3	.0		20.3	
	22+	3.4	.3	.0	.1	2.7	1.1	.3	.1	.0		8.0	
	TOT %	11.3	4.1	3.8	4.3	10.9	6.3	4.7	5.0	.0	4.9	55.2	
	TOT OBS												364
	TOT PCT	22.7	7.6	5.7	7.3	20.7	12.5	6.4	9.5	.0	7.7	100.0	

APRIL

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.4	.0	.0	4.5	14.0	15.9	10.8	1.3	2.5	.6	56.1	43.9	157
06&09	8.3	.0	.0	2.8	15.3	2.8	5.6	4.2	2.8	1.4	43.1	56.9	72
12&15	11.8	.0	.0	.0	10.3	5.9	7.4	.0	.0	1.5	36.8	63.2	68
18&21	12.0	.0	.0	2.0	12.0	6.0	10.0	.0	2.0	2.0	46.0	54.0	50
TOT	30	0	0	10	46	34	31	5	7	4	167	180	347
PCT	8.6	.0	.0	2.9	13.3	9.8	8.9	1.4	2.0	1.2	48.1	51.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	5.6	1.7	4.4	12.2	20.0	56.1	180
06&09	4.8	.0	4.8	10.8	25.3	54.2	83
12&15	4.9	2.0	4.9	6.9	31.4	50.0	102
18&21	4.0	1.3	8.0	10.7	24.0	52.0	75
TOT	22	6	23	46	107	236	440
PCT	5.0	1.4	5.2	10.5	24.3	53.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.4	9.6	25.6	34.0	40.4	156
06&09	8.5	9.9	22.5	25.4	52.1	71
12&15	11.5	14.8	24.6	16.4	59.0	61
18&21	12.8	12.8	31.9	23.4	44.7	47
TOT	29	37	86	92	157	335
PCT	8.7	11.0	25.7	27.5	46.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	1.9	1.9	.0	.9	5	4.6
40/44	.0	.0	.9	.9	8.3	5.6	.9	3.7	22	20.4
35/39	.0	.0	.9	.0	16.7	14.8	3.7	8.3	48	44.4
30/34	.0	.0	.9	4.6	3.7	4.6	3.7	8.3	28	25.9
25/29	.0	.0	1.9	.9	.9	.9	.0	.0	5	4.6
TOTAL	0	0	5	7	34	30	9	23	108	100.0
PCT	.0	.0	4.6	6.5	31.5	27.8	8.3	21.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.9	.9	.2	2.3	.2	.0	.0
	.9	.0	.0	1.2	11.6	4.9	.0	1.9	.0	.0
	3.7	.9	2.3	3.9	19.4	9.7	2.3	1.2	.0	.9
	10.4	4.9	.0	.2	4.4	1.9	.0	3.2	.0	.9
	1.9	.9	1.9	.0	.0	.0	.0	.0	.0	.0
	16.9	6.7	4.2	6.3	36.3	16.7	4.6	6.5	.0	1.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	49	46	36	26	24	12	36.0	167
06&09	51	50	45	37	29	28	28	37.5	80
12&15	48	47	44	34	28	24	24	35.1	94
18&21	55	54	45	35	28	27	27	34.6	75
TOT	55	49	45	36	28	24	12	35.8	416

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	20.0	28.6	22.9	11.4	17.1	71	35
06&09	.0	10.3	34.5	31.0	6.9	17.2	74	29
12&15	.0	5.0	40.0	25.0	.0	30.0	77	20
18&21	.0	10.7	25.0	32.1	10.7	21.4	75	28
TOT	0	14	35	31	9	23	74	112

APRIL

PERIOD: (PRIMARY) 1958-1974
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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 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.3	.0
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	3	.0	1.0
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.0	.3	.0	9	.3	2.6
9/10	.0	.0	.0	.0	.0	.0	.0	.7	2.9	.7	.3	.0	14	.3	4.2
7/8	.0	.0	.0	.0	.0	.0	.0	2.9	5.5	1.0	.0	.0	29	.7	8.8
6	.0	.0	.0	.0	.0	.0	.0	3.6	1.3	.0	.0	.0	15	2.0	2.9
5	.0	.0	.0	.0	.0	.0	2.0	3.6	1.0	.3	.0	.0	21	.7	6.2
4	.0	.0	.0	.0	.0	.0	3.6	6.8	.7	.3	.3	.0	36	2.3	9.4
3	.0	.0	.0	.0	.0	.0	2.0	3.9	.0	.0	.0	.0	18	1.0	4.9
2	.0	.0	.0	.0	.0	.0	3.9	3.9	.7	.0	.0	.0	26	1.3	7.2
1	.0	.0	.0	.0	.0	1.3	1.3	.3	.3	.0	.0	.0	10	.0	3.3
0	.0	.0	.0	.0	1.0	1.6	4.9	1.3	.7	.0	.0	.0	29	1.0	8.5
-1	.0	.0	.0	.0	.0	2.0	1.6	.3	.7	.0	.0	.0	14	.3	4.2
-2	.0	.0	.0	.0	.7	4.2	1.0	.7	.0	.0	.0	.0	20	.3	6.2
-3	.0	.0	.0	.0	.7	2.0	1.6	.7	.0	.0	.0	.0	15	.3	4.6
-4	.0	.0	.0	.0	1.6	1.3	2.9	.3	.0	.0	.0	.0	19	.0	6.2
-5	.0	.0	.0	.0	.3	1.3	.3	.0	.0	.0	.0	.0	6	.0	2.0
-6	.0	.0	.0	.0	1.0	.7	.0	.0	.0	.0	.0	.0	5	.0	1.6
-7/-8	.0	.0	.0	.0	2.0	.7	.0	.3	.0	.0	.0	.0	9	.0	2.9
-9/-10	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.0	4	.0	1.3
-11/-13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
-17/-19	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
-20/-22	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1		0		25		78		44		5			33	274
		1		1		46		90		15		1	307		
PCT	.3	.3	.0	.3	8.1	15.0	25.4	29.3	14.3	4.9	1.6	.3	100.0	10.7	89.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	.4	.3	.0	.0	.0	2.7
1-2	.0	3.0	4.5	.0	.0	.0	7.5
3-4	.0	.0	2.5	.0	.0	.0	2.5
5-6	.0	.4	2.0	1.3	.0	.0	3.8
7	.0	.0	.3	.8	.4	.0	1.5
8-9	.0	.0	.9	1.7	.4	.0	3.0
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.4	.0	.4
13-16	.0	.0	.0	.3	.4	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT.PCT	1.9	3.9	10.6	4.5	1.7	.0	22.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.4	.0	.0	.0	1.4
1-2	.0	1.2	.4	.0	.0	.0	1.6
3-4	.0	.4	.0	.1	.0	.0	.5
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.0	1.3	.1	.0	.0	4.0

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.0	.4	.0	.0	.0	3.9
1-2	.0	1.8	.3	.0	.0	.0	2.2
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.8	1.7	.1	.4	.0	7.5

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.0	.4	.0	.0	.0	4.4	.0	2.7	.0	.0	.0	.0	2.7
1-2	.0	3.9	1.9	.0	.0	.0	5.8	.0	1.3	1.8	.0	.0	.0	3.1
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.4	3.2	1.5	.0	.0	5.2	.0	.4	3.1	.6	.0	.0	4.2
7	.0	.0	1.5	3.4	.0	.0	5.0	.0	.0	.2	.8	.0	.0	1.0
8-9	.0	.0	.9	2.7	.6	.0	4.2	.0	.0	.0	.3	.2	.0	.5
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.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
TOT PCT	.0	8.3	9.6	8.4	1.0	.0	27.3	.0	4.4	5.7	2.3	.4	.0	12.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.2	.4	.0	.0	.0	1.6	.5	.9	.5	.0	.0	.0	1.9	
1-2	.4	1.1	1.1	.0	.0	.0	2.6	.0	1.9	1.2	.0	.0	.0	3.1	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.0	.0	.0	.0	1.0	
5-6	.0	.0	.4	.4	.0	.0	.9	.0	.0	1.0	.4	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.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	
TOT PCT	.4	2.3	2.4	.4	.3	.0	5.8	.5	2.8	4.2	.6	.0	.0	8.2	90.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.5	13.8	3.0	.0	.0	.0	29.3	
1-2	.4	14.2	11.6	.0	.0	.0	26.3	
3-4	.0	.4	6.5	.4	.0	.0	7.3	
5-6	.0	1.3	10.8	4.3	.0	.0	16.4	
7	.0	.0	3.0	5.2	.4	.0	8.6	
8-9	.0	.0	1.7	4.7	1.3	.0	7.8	
10-11	.0	.0	.0	1.3	.4	.0	1.7	
12	.0	.0	.0	.0	1.3	.0	1.3	
13-16	.0	.0	.0	.9	.4	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.9	29.7	36.6	16.8	3.9	.0	100.0	232

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	12.2	7.7	9.2	.9	1.8	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	111	4
6-7	.3	1.5	4.2	1.8	4.2	2.7	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	6
8-9	.0	.0	.6	.6	1.2	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
10-11	.0	.0	.3	.6	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	12.5	7.1	8.9	7.7	4.8	.6	.6	.6	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	148	3
TOTAL	44	70	76	69	37	18	11	3	5	0	2	1	0	0	0	0	0	0	0	336	4
PCT	13.1	20.8	22.6	20.5	11.0	5.4	3.3	.9	1.5	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1911-1974

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	.9	3.1	.0	5.8	.0	.0	12.5	2.7	.0	13.2	.0	.0		.0	71.6
NE	4.9	1.6	.4	.0	2.9	.0	.0	8.2	.0	.0	6.1	.0	.0		.0	85.7
E	14.0	.0	.0	.0	3.1	.0	.0	17.1	3.1	.0	17.8	.0	.0		.0	62.0
SE	12.7	.0	.4	.0	.0	.0	.0	13.1	1.5	.0	10.5	.0	.0		.0	74.9
S	5.9	.9	1.9	.0	.0	.0	.0	8.8	.5	.0	15.2	.0	.8		.0	74.8
SW	3.7	1.2	2.8	.0	.0	.0	.0	7.7	1.9	.0	12.1	.0	1.4		.0	77.0
W	4.7	3.5	3.5	.0	8.1	.0	.0	16.3	.0	.0	10.5	.0	.0		.0	73.3
NW	9.6	.4	7.9	.0	12.3	.0	.0	29.8	1.8	.0	5.3	.0	.0		.0	63.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.7	.0	1.7	.0	1.7	.0	.0	5.0	1.7	.0	21.7	.0	.0		.0	71.7
TOT PCT	5.9	.8	2.4	.0	2.7	.0	.0	11.5	1.4	.0	12.9	.0	.4		.0	73.7
TOT OBS:	712															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.0	.3	1.3	.0	4.0	.0	.0	11.4	.7	.0	15.1	.0	1.0		.0	71.9
06&09	3.8	1.5	2.3	.0	.0	.0	.0	7.5	.8	.0	12.0	.0	.0		.0	79.7
12&15	6.8	1.0	4.4	.0	2.4	.0	.0	14.6	2.9	.0	9.2	.0	.0		.0	73.3
18&21	5.8	1.0	1.0	.0	1.9	.0	.0	8.7	1.9	.0	16.5	.0	.0		.0	72.8
TOT PCT	5.8	.8	2.3	.0	2.6	.0	.0	11.2	1.5	.0	13.1	.0	.4		.0	73.8
TOT OBS:	741															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	7.1	6.1	1.7	.3	.0		16.4	12.4	15.0	22.3	15.3	21.7	15.5	23.1	14.1	21.2
NE	1.2	5.1	2.6	.1	.0	.0		9.0	8.3	9.2	3.8	4.4	10.9	11.0	11.5	14.1	3.8
E	.8	2.9	.8	.2	.0	.0		4.6	7.9	4.0	3.3	4.2	4.3	4.9	3.8	8.2	3.8
SE	.8	5.2	3.9	.2	.0	.0		10.1	9.8	7.8	12.0	7.8	.0	9.8	9.6	20.7	19.2
S	1.3	12.4	10.0	3.1	.2	.0		27.0	12.3	25.2	19.6	33.6	35.9	27.7	34.6	21.5	25.0
SW	1.4	5.8	4.8	1.9	.2	.0		14.1	12.7	15.7	22.8	19.7	20.7	10.2	5.8	6.6	11.5
W	.1	2.2	.8	.2	.0	.0		3.1	9.7	4.5	1.1	1.9	.0	4.1	3.8	1.2	.0
NW	.5	3.8	2.8	.3	.3	.0		7.7	12.1	10.2	8.7	7.5	2.2	8.8	3.8	2.7	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0	8.5	6.5	5.6	4.3	7.9	3.8	10.9	15.4
TOT OBS	102	295	209	50	7	0	663		10.5	224	46	90	23	164	26	64	26
TOT PCT	15.4	44.5	31.5	7.5	1.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.3	7.6	4.0	.4	.2		16.4	12.4	16.2	16.6	16.6	16.1
NE	4.0	4.2	.8	.0	.0		9.0	8.3	8.2	5.8	11.1	11.1
E	2.3	1.9	.4	.0	.0		4.6	7.9	3.9	4.2	4.7	6.9
SE	3.4	5.3	1.4	.0	.0		10.1	9.8	8.5	6.2	9.7	20.3
S	6.5	13.8	5.6	1.1	.0		27.0	12.3	24.3	34.1	28.7	22.5
SW	3.8	6.0	3.7	.6	.0		14.1	12.7	16.9	19.9	9.6	8.1
W	1.3	1.4	.4	.0	.0		3.1	9.7	3.9	1.5	4.1	.8
NW	2.3	3.3	1.8	.4	.0		7.7	12.1	9.9	8.4	8.2	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.0						8.0	.0	8.1	5.3	7.4	12.2
TOT OBS	238	289	119	16	1	663		10.5	270	113	190	90
TOT PCT	35.9	43.6	17.9	2.4	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1911-1974

AREA 0017 TATAR STRAIT N
50.1N 141.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	8.1	7.0	41.5	34.1	7.8	1.5	.0	10.9	100.0	270
06&09	5.3	7.1	45.1	29.2	1.5	1.8	.0	11.6	100.0	113
12&15	7.4	5.3	51.6	28.4	6.8	.5	.0	10.1	100.0	190
18&21	12.2	13.3	37.8	33.3	3.3	.0	.0	8.8	100.0	90
TOT	53	49	295	209	50	7	0	10.5		663
PCT	8.0	7.4	44.5	31.5	7.5	1.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	1.0	4.5	7.5		6.5
NE	1.0	.8	2.8	3.1		6.0
E	.8	.1	1.7	1.7		6.0
SE	2.0	.6	2.4	3.9		5.4
S	7.8	4.4	6.5	10.3		4.9
SW	2.1	2.7	5.2	4.6		5.4
W	.0	.6	1.4	.7		6.1
NW	1.4	1.0	2.5	3.7		5.8
VAR	.0	.0	.0	.0		.0
CALM	2.6	.4	2.1	4.3		5.4
TOT OBS	104	62	155	213	534	5.6
TOT PCT	19.5	11.6	29.0	39.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.0	.2	.7	2.8	3.4	.7	.3	.3	.2	5.1	
NE	.4	.0	.0	*	.4	2.6	.8	*	.4	.0	3.0	
E	.7	.0	.0	.3	.3	.8	.5	.0	.0	.0	1.6	
SE	1.0	.0	.2	*	.7	1.4	.9	.2	.6	.2	3.8	
S	3.0	.0	.7	.3	2.9	3.1	2.1	.7	.5	.7	15.0	
SW	1.2	.0	.1	.4	.1	3.4	1.2	.2	.6	.2	7.2	
W	.3	.0	.0	.0	.3	.4	.1	.3	.0	.2	.9	
NW	1.2	.0	.0	.3	1.6	1.5	.6	.2	.0	.2	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.2	.2	1.3	.7	.4	.2	.0	.0	4.7	
TOT OBS	57	0	7	12	56	93	39	12	13	9	236	534
TOT PCT	10.7	.0	1.3	2.2	10.5	17.4	7.3	2.2	2.4	1.7	44.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	3.3	3.8	4.3	4.3	4.3	4.3	4.3	4.3
* OR >5000	5.1	5.8	6.5	6.5	6.5	6.5	6.5	6.5
* OR >3500	10.7	11.8	13.6	13.6	13.7	13.7	13.7	13.7
* OR >2000	19.9	25.1	28.9	29.8	30.7	30.9	30.9	30.9
* OR >1000	23.3	33.6	38.2	39.4	40.7	41.4	41.4	41.4
* OR >600	23.9	34.7	40.1	41.4	42.9	43.6	43.6	43.6
* OR >300	24.1	35.3	40.9	42.1	43.8	44.8	44.8	44.8
* OR >150	24.1	35.3	40.9	42.1	43.8	44.8	44.8	44.8
* OR > 0	24.2	36.7	43.8	45.8	48.1	50.6	55.7	56.1
TOTAL	134	203	242	253	266	280	308	310

TOTAL NUMBER OF OBS: 553 PCT FREQ NH <5/8: 43.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
19.2	4.5	8.2	6.4	4.7	5.9	7.7	8.9	24.4	10.1	574

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1911-1974

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.2	.0	.1	.3	.0	.4	.4	.0	.0	1.5	
<1/2	NO PCP	.9	.4	.5	.2	2.4	1.2	.3	.2	.0	1.1	7.3	
	TOT %	1.1	.6	.5	.4	2.7	1.2	.7	.6	.0	1.1	8.8	
	PCP	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	1.4	
1/2<1	NO PCP	.4	.0	.1	.1	.5	.1	.0	.0	.0	.1	1.4	
	TOT %	.9	.0	.1	.1	.5	.4	.0	.6	.0	.1	2.8	
	PCP	.2	.1	.1	.0	.4	.1	.0	.1	.0	.1	1.1	
1<2	NO PCP	.0	.0	.1	.3	.2	.1	.0	.1	.0	.1	1.0	
	TOT %	.2	.1	.2	.3	.5	.2	.0	.3	.0	.3	2.1	
	PCP	.4	*	.5	.5	.6	.A	.0	.6	.0	.3	3.8	
2<5	NO PCP	.6	.8	.4	.6	.9	.9	.0	.3	.0	.6	5.0	
	TOT %	.9	.9	.9	1.1	1.5	1.7	.0	.9	.0	.8	8.8	
	PCP	.6	.4	.1	.4	1.1	.0	.1	.6	.0	.1	3.5	
5<10	NO PCP	3.6	1.4	.7	1.1	3.6	2.2	.6	.6	.0	1.0	14.6	
	TOT %	4.2	1.7	.8	1.5	4.8	2.2	.7	1.2	.0	1.1	18.1	
	PCP	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
10+	NO PCP	8.2	5.2	2.0	5.9	17.2	9.5	1.6	4.3	.0	5.0	59.0	
	TOT %	8.3	5.3	2.0	6.0	17.2	9.5	1.6	4.3	.0	5.0	59.3	
	TOT OBS												713
	TOT PCT	14.7	8.6	4.5	9.4	27.2	15.1	3.0	8.0	.0	8.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.5	.1	.2	.1	.1	.0	.1	.0	.8	2.0	
<1/2	4-10	.3	.2	.3	.0	1.3	.8	.5	.2	.0		3.5	
	11-21	.3	.0	.0	.2	1.0	.2	.3	.2	.0		2.1	
	22+	.1	.1	.0	.0	.2	.0	.0	.2	.0		.5	
	TOT %	.9	.7	.4	.4	2.5	1.0	.7	.7	.0	.8	8.1	
	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	4-10	.6	.0	.2	.2	.3	.0	.0	.2	.0		1.4	
	11-21	.4	.0	.0	.0	.3	.3	.0	.3	.0		1.4	
	22+	.0	.0	.0	.0	.1	*	.0	.0	.0		.2	
	TOT %	1.0	.0	.2	.2	.8	.5	.0	.5	.0	.0	3.0	
	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.5	
1<2	4-10	.3	*	.2	.3	.3	.0	.0	.2	.0		1.2	
	11-21	.0	.0	.0	.1	.2	*	.0	.0	.0		.3	
	22+	.1	*	.0	.0	.3	*	.0	.2	.0		.6	
	TOT %	.4	.1	.2	.3	.7	.2	.0	.3	.0	.3	2.6	
	0-3	.1	.1	.2	.2	.5	.2	.0	.0	.0	.8	1.8	
2<5	4-10	.4	.6	.5	.8	.8	.6	.0	.6	.0		4.4	
	11-21	.2	.3	.3	.2	.8	.7	.0	.3	.0		2.7	
	22+	.4	.0	.0	*	.2	*	.0	.1	.0		.8	
	TOT %	1.0	1.0	1.0	1.2	2.3	1.6	.0	1.0	.0	.8	9.7	
	0-3	.2	.3	.2	.3	.1	.2	.0	.0	.0	1.1	2.3	
5<10	4-10	1.7	1.1	.4	.7	1.6	.9	.5	.5	.0		7.3	
	11-21	2.0	.5	.1	.6	2.2	.7	.2	.6	.0		6.8	
	22+	.6	.0	.2	.0	1.0	.4	.2	*	.0		2.3	
	TOT %	4.4	1.9	.8	1.6	4.9	2.2	.8	1.1	.0	1.1	18.7	
	0-3	.8	.4	.4	.2	.6	.7	.1	.5	.0	5.0	8.7	
10+	4-10	3.8	3.3	1.3	3.2	8.1	3.6	1.3	2.1	.0		26.8	
	11-21	3.0	1.8	.4	2.9	5.4	2.9	.2	1.4	.0		18.0	
	22+	.8	.0	.0	.2	1.6	1.6	.0	.2	.0		4.4	
	TOT %	8.4	5.4	2.1	6.4	15.8	8.8	1.7	4.2	.0	5.0	57.8	
	TOT OBS												657
	TOT PCT	16.1	9.1	4.6	10.0	27.0	14.3	3.2	7.8	.0	7.9	100.0	

MAY

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1911-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	10.6	.0	1.7	2.1	11.4	19.1	4.2	.8	3.0	2.5	55.5	44.5	236
06&09	7.6	.0	.0	2.9	10.5	13.3	9.5	1.0	1.9	2.9	49.5	50.5	105
12&15	12.4	.0	2.1	2.8	10.3	16.6	9.0	3.4	2.8	.0	59.3	40.7	145
18&21	15.3	.0	.0	.0	6.9	18.1	9.7	5.6	1.4	1.4	58.3	41.7	72
TOT	62	0	7	12	58	96	40	12	14	10	311	247	558
PCT	11.1	.0	1.3	2.2	10.4	17.2	7.2	2.2	2.5	1.8	55.7	44.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	9.3	4.3	2.3	8.9	17.5	57.6	302
06&09	6.7	.7	1.5	6.0	17.2	67.9	134
12&15	8.6	1.4	2.9	12.4	21.5	53.1	209
18&21	10.4	4.7	2.8	10.4	13.2	58.5	106
TOT	66	22	18	72	135	438	751
PCT	8.8	2.9	2.4	9.6	18.0	58.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	10.7	16.2	26.5	31.2	42.3	234
06&09	7.6	8.6	17.1	34.3	48.6	105
12&15	12.7	16.2	25.4	35.9	38.7	142
18&21	15.3	16.7	23.6	36.1	40.3	72
TOT	62	82	133	186	234	553
PCT	11.2	14.8	24.1	33.6	42.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.8	.0	.0	.0	.0	.0	1	.8
55/59	.0	.0	.0	.8	.8	.0	.8	.0	3	2.4
50/54	.0	.0	.0	6.4	1.6	6.4	.8	2.4	22	17.6
45/49	.0	.0	1.6	1.6	4.8	15.2	8.8	9.2	44	35.2
40/44	.0	.0	.0	.0	1.6	8.0	6.4	5.6	27	21.6
35/39	.0	.0	.0	.0	1.6	1.6	8.8	7.2	24	19.2
30/34	.0	.0	.0	.0	.0	.8	.0	2.4	4	3.2
TOTAL	0	0	3	11	13	40	32	26	125	100.0
PCT	.0	.0	2.4	8.8	10.4	32.0	25.6	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.8	.0	.0	.0	.0	.0
.0	.0	.0	.8	.8	.8	.0	.0	.0	.0
.6	.2	.0	1.0	9.2	5.8	.6	.2	.0	.0
2.2	1.0	.6	4.4	14.0	10.6	.6	.2	.0	1.6
5.6	1.8	1.4	2.0	5.2	2.4	.8	2.4	.0	.0
6.8	.6	2.2	2.4	1.4	2.6	1.6	.8	.0	.8
1.6	.0	.0	1.6	.0	.0	.0	.0	.0	.0
16.8	3.6	4.2	12.2	31.4	22.2	3.6	3.6	.0	2.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	68	57	54	43	34	30	28	43.5	292
06&09	57	55	52	43	36	34	27	43.6	128
12&15	57	55	50	41	32	30	30	41.6	204
18&21	59	54	51	41	34	29	29	41.6	105
TOT	68	57	53	43	34	30	27	42.7	729

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	14.3	16.3	22.4	26.5	20.4	77	49
06&09	.0	6.9	3.4	48.3	27.6	13.8	78	29
12&15	.0	14.8	7.4	37.0	18.5	22.2	78	27
18&21	.0	7.7	11.5	30.8	26.9	23.1	79	26
TOT	0	15	14	43	33	26	78	131

PERIOD: (PRIMARY) 1958-1974
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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 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	2	.0	.3
17/19	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	2	.0	.3
14/16	.0	.0	.0	.0	.3	.0	.6	.6	.5	.0	.0	13	.8	1.3
11/13	.0	.0	.0	.0	.2	1.4	1.6	.6	.3	.0	.0	26	.8	3.4
9/10	.0	.0	.0	.0	.6	2.4	2.2	1.3	.0	.2	.0	42	1.0	5.8
7/8	.0	.0	.0	.5	1.6	3.5	1.6	.6	.0	.0	.0	49	.8	7.1
6	.0	.0	.0	1.0	1.3	2.1	1.4	.0	.0	.0	.0	36	1.0	4.8
5	.0	.0	.0	1.1	2.7	3.0	2.4	.2	.0	.0	.0	59	.8	8.7
4	.0	.0	.0	1.8	3.0	3.2	.5	.0	.0	.0	.0	53	.5	8.0
3	.0	.0	.3	1.0	2.7	.8	.3	.2	.0	.0	.0	33	.5	4.8
2	.0	.0	.3	2.9	2.9	3.9	.8	.5	.2	.0	.0	71	1.4	10.0
1	.0	.0	.5	2.2	1.4	1.0	.2	.0	.0	.0	.0	33	1.1	4.2
0	.0	.3	1.3	3.5	2.2	1.9	.5	.0	.0	.0	.0	61	1.8	8.0
-1	.0	.0	.6	2.9	1.0	.3	.2	.0	.0	.0	.0	31	.6	4.4
-2	.0	.2	1.3	2.6	1.1	.3	.2	.0	.0	.0	.0	35	1.1	4.5
-3	.0	.2	1.0	.6	1.3	.0	.0	.0	.0	.0	.0	19	.2	2.9
-4	.2	.2	.6	.6	1.0	.2	.0	.0	.0	.0	.0	17	.5	2.2
-5	.0	.2	.6	1.1	.2	.0	.0	.0	.0	.0	.0	13	.5	1.6
-6	.2	.0	.3	.6	.2	.0	.0	.0	.0	.0	.0	8	.0	1.3
-7/-8	.0	.3	1.0	.3	.3	.0	.0	.0	.0	.0	.0	12	.3	1.6
-9/-10	.0	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-11/-13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-14/-16	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	2	9	52	146	150	151	78	27	6	1	1	623	85	538
PCT	.3	1.4	8.3	23.4	24.1	24.2	12.5	4.3	1.0	.2	.2	100.0	13.6	86.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.9	.3	.0	.0	.0	3.9
1-2	.0	.9	2.3	.0	.0	.0	3.3
3-4	.0	.2	2.4	.2	.0	.0	2.8
5-6	.0	.0	1.1	1.3	.0	.0	2.4
7	.0	.0	.4	.3	.0	.0	.7
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.1	6.8	2.2	.5	.0	14.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	2.4	.3	.0	.0	.0	4.1
1-2	.0	2.4	1.3	.0	.0	.0	3.7
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.5	.1	.0	.0	.6
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.8	2.5	.1	.0	.0	8.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.4	.0	.0	.0	2.3
1-2	.0	.4	.6	.0	.0	.0	1.1
3-4	.0	.5	.0	.3	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.3	1.1	.3	.0	.0	4.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.0	1.0	.0	.0	.0	3.3
1-2	.0	2.0	2.0	.0	.0	.0	3.9
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.1	.3	.3	.0	.0	.6
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.3	.0	.1	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	4.2	.3	.0	.0	9.1

MAY

PERIOD: (OVER-ALL) 1963-1974

TABLE 18 (CONT)

AREA 0017 TATAR STRAIT N
50.1N 141.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	3.4	.5	.0	.0	.0	4.9	.3	1.9	.0	.0	.0	.0	2.2
1-2	.0	7.0	4.0	.0	.0	.0	11.0	.0	3.2	2.0	.0	.0	.0	5.2
3-4	.0	.4	9.1	.8	.0	.0	6.4	.0	.1	3.4	.7	.0	.0	4.1
5-6	.0	.4	2.5	.3	.0	.0	3.2	.0	.3	1.8	1.3	.3	.0	3.6
7	.0	.0	.4	.9	.2	.0	1.5	.0	.0	.0	.4	.1	.0	.4
8-9	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.2	.0	.4	.0	.0	.0	.0	.1	.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
TOT PCT	.9	11.3	12.5	3.5	.4	.0	28.7	.3	5.4	7.2	2.5	.4	.0	15.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.3	3.4	.0	.0	.0	.0	3.6	
1-2	.0	.2	.3	.0	.0	.0	.4	.0	.6	.9	.0	.0	.0	1.5	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.1	.0	.0	1.7	
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.1	.1	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.1	.8	.0	.0	.0	1.9	.3	4.2	3.8	.5	.5	.0	9.3	91.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.4	18.2	2.5	.0	.0	.0	33.2	
1-2	.0	16.7	13.4	.0	.0	.0	30.1	
3-4	.0	1.5	13.2	2.0	.0	.0	16.7	
5-6	.0	.8	7.8	3.3	.3	.0	12.2	
7	.0	.0	1.5	1.5	.3	.0	3.3	
8-9	.0	.0	.3	1.5	.0	.0	1.8	
10-11	.0	.3	.3	.8	.0	.0	1.3	
12	.0	.0	.0	.3	.8	.0	1.0	
13-16	.0	.0	.0	.0	.3	.0	.3	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.4	37.5	39.0	9.4	1.8	.0	100.0	395

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	12.2	10.5	6.5	1.9	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	3
6-7	.0	1.7	3.8	2.9	1.0	.8	.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	5
8-9	.0	.6	.4	1.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
10-11	.0	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
12-13	.0	.0	.2	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.2	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8
INDET	14.9	11.6	14.1	6.1	1.1	.4	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	2
TOTAL	83	142	154	88	27	13	10	4	2	1	0	0	0	0	0	0	0	0	0	524	3
PCT	15.8	27.1	29.4	16.8	5.2	2.5	1.9	.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.7	1.8	4.0	.0	.0	.0	.0	13.6	.7	.0	8.2	.7	.0		.0	76.7
NE	12.9	1.3	2.0	.0	.0	.0	.0	16.2	2.6	.0	7.9	.0	.3		.0	72.9
E	6.7	.0	1.7	.0	.0	.0	.0	8.3	.0	.0	8.3	.0	1.7		.0	81.7
SE	5.7	.0	1.8	.0	.0	.0	.0	7.5	1.2	.0	11.9	.6	.0		.0	78.8
S	6.7	1.0	1.7	.0	.0	.0	.0	9.4	1.6	.0	26.6	1.1	.7		.7	60.0
SW	1.5	.0	1.3	.0	.0	.0	.0	2.8	.7	.0	21.1	.5	1.1		.0	73.9
W	4.6	.0	1.7	.0	.0	.0	.0	6.3	4.0	.0	14.9	.0	.0		.0	74.9
NW	10.2	2.7	.4	.0	.0	.0	.0	13.3	2.2	.0	12.0	.0	.0		.0	72.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	6.1	.9	.0	.0	.0	.0	.0	7.0	1.8	.0	18.4	.0	.0		.0	72.8
TOT PCT	6.3	.9	1.7	.0	.0	.0	.0	8.9	1.4	.0	17.7	.6	.5		.2	70.7
TOT OBS:	1048															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.6	1.0	2.1	.0	.0	.0	.0	6.7	2.3	.0	18.1	.5	.3		.0	72.0
06&09	7.4	.0	1.1	.0	.0	.0	.0	8.5	.6	.0	13.1	.0	.0		.6	77.3
12&15	7.3	1.1	1.7	.0	.0	.0	.0	10.1	1.1	.0	17.2	1.1	.8		.3	69.3
18&21	8.6	.7	1.3	.0	.0	.0	.0	10.5	2.0	.0	24.3	.0	.7		.0	62.5
TOT PCT	6.2	.8	1.7	.0	.0	.0	.0	8.7	1.6	.0	17.9	.6	.5		.2	70.6
TOT OBS:	1069															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	6.7	4.2	.4	.0	.0		13.1	9.3	10.0	18.7	9.7	18.6	14.9	18.9	13.3	10.0
NE	1.3	3.2	1.6	.5	.0	.0		6.7	9.1	5.9	6.0	6.0	7.0	7.2	4.7	8.4	10.0
E	.7	2.2	1.1	.1	.0	.0		4.1	8.2	3.6	1.5	3.2	1.2	4.5	3.8	8.2	7.0
SE	1.3	4.5	1.9	.4	.0	.0		8.1	9.1	9.2	3.7	5.4	3.5	6.1	22.6	9.8	16.0
S	3.9	11.2	10.9	3.5	.4	.0		29.4	12.3	29.4	17.9	29.0	20.9	33.1	32.1	31.3	26.0
SW	1.6	8.1	6.2	2.3	.0	.0		18.2	11.8	22.8	28.4	19.8	25.6	12.1	12.3	11.7	21.0
W	1.4	2.2	.6	.0	.0	.0		4.2	5.9	5.1	10.4	2.8	8.1	3.0	.9	.8	7.0
NW	.8	2.5	1.5	.2	.0	.0		5.1	9.1	6.3	11.9	4.6	5.8	4.0	4.7	2.4	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1							11.1	.0	8.7	1.5	19.4	9.3	15.1	.0	14.1	2.0
TOT OBS	239	407	276	75	4	0	1001		9.3	287	67	124	43	285	53	92	50
TOT PCT	23.9	40.7	27.6	7.5	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.5	6.3	1.1	.2	.0		13.1	9.3	11.7	12.0	15.5	12.1
NE	3.3	2.5	.5	.3	.0		6.7	9.1	5.9	6.3	6.8	9.0
E	2.0	1.8	.2	.1	.0		4.1	8.2	3.2	2.7	4.4	7.7
SE	3.9	3.2	.9	*	.0		8.1	9.1	7.3	4.9	8.7	12.0
S	10.2	10.6	6.6	1.7	.2		29.4	12.3	27.2	26.9	32.9	29.4
SW	5.7	7.7	4.1	.6	.0		18.2	11.8	23.9	21.3	12.1	15.0
W	3.0	1.0	.2	.0	.0		4.2	5.9	6.1	4.2	2.7	3.0
NW	2.8	1.4	.9	*	.0		5.1	9.1	7.3	4.9	4.1	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.1						11.1	.0	7.3	16.8	12.7	9.9
TOT OBS	477	347	145	30	2	1001		9.3	354	167	338	142
TOT PCT	47.7	34.7	14.5	3.0	.2		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.3	13.6	41.8	28.8	8.2	.3	.0	9.7	100.0	354
04&09	16.8	10.2	35.3	26.9	10.2	.6	.0	9.5	100.0	167
12&15	12.7	12.1	42.3	26.3	5.9	.6	.0	9.0	100.0	338
18&21	9.9	15.5	40.1	28.2	6.3	.0	.0	9.1	100.0	142
TOT	111	128	407	276	75	4	0	9.3		1001
PCT	11.1	12.8	40.7	27.6	7.5	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	1.8	3.4	4.7		5.6
NE	1.7	.6	1.6	3.2		5.6
E	1.3	.3	1.3	1.8		5.4
SE	1.6	.9	1.9	2.3		5.1
S	4.6	3.4	7.7	14.5		5.9
SW	2.6	2.4	6.2	6.5		5.8
W	.7	.3	.6	1.4		5.5
NW	.4	1.0	1.3	2.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	3.1	1.2	3.6	5.7		5.4
TOT OBS	138	89	207	316	750	5.7
TOT PCT	18.4	11.9	27.6	42.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.5	.9	1.3	2.3	.9	.1	.1	.0	5.6	
NE	.5	.0	.3	.3	1.1	1.5	.6	.1	.0	.1	2.5	
E	.6	.0	.0	.0	.9	.7	.5	.1	.0	.1	1.8	
SE	.3	.0	.0	*	1.3	.9	1.0	.0	.0	.3	3.0	
S	6.7	.1	.3	1.2	4.0	5.0	1.5	.0	.5	.5	10.4	
SW	2.6	.0	.1	.4	2.4	3.1	1.2	.1	.1	.3	7.3	
W	.1	.0	.1	.1	.3	.6	.3	.0	.0	.2	1.3	
NW	.6	.0	.0	*	.8	.9	*	.0	.0	.3	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.1	.1	1.9	2.3	1.5	.4	.1	.3	5.2	
TOT OBS	102	1	11	23	104	130	56	7	9	16	293	750
TOT PCT	13.6	.1	1.5	3.1	13.9	17.3	7.5	.9	.9	2.1	39.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.3	2.2	3.0	3.0	3.0	3.0	3.0	3.0
* OR >5000	1.8	3.2	3.9	3.9	3.9	3.9	3.9	3.9
* OR >3500	7.0	10.0	11.4	11.4	11.4	11.4	11.4	11.4
* OR >2000	16.8	24.6	27.8	28.0	28.4	28.7	28.7	28.7
* OR >1000	21.8	35.7	41.4	42.0	42.5	42.8	42.9	42.9
* OR >600	22.5	37.4	44.1	44.7	45.5	45.8	45.9	45.9
* OR >300	22.6	37.8	45.3	46.1	46.8	47.2	47.4	47.4
* OR >150	22.6	37.8	45.3	46.1	46.8	47.2	47.4	47.4
* OR > 0	22.8	37.9	46.3	47.2	48.8	54.2	60.4	60.9
TOTAL	173	288	352	399	371	412	459	463

TOTAL NUMBER OF OBS: 760 PCT FREQ NH <5/8: 39.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.4	4.6	8.5	4.4	5.1	4.8	6.0	10.4	27.9	13.0	800

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	7.7	1.8	4.0	.0	.0	.0	.0	13.6	.7	.0	8.2	.7	.0		.0	76.7
NE	12.9	1.3	2.0	.0	.0	.0	.0	16.2	2.6	.0	7.9	.0	.3		.0	72.9
E	6.7	.0	1.7	.0	.0	.0	.0	8.3	.0	.0	8.3	.0	1.7		.0	81.7
SE	5.7	.0	1.8	.0	.0	.0	.0	7.5	1.2	.0	11.9	.6	.0		.0	78.8
S	6.7	1.0	1.7	.0	.0	.0	.0	9.4	1.6	.0	26.6	1.1	.7		.7	60.0
SW	1.5	.0	1.3	.0	.0	.0	.0	2.8	.7	.0	21.1	.5	1.1		.0	73.9
W	4.6	.0	1.7	.0	.0	.0	.0	6.3	4.0	.0	14.9	.0	.0		.0	74.9
NW	10.2	2.7	.4	.0	.0	.0	.0	13.3	2.2	.0	12.0	.0	.0		.0	72.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	6.1	.9	.0	.0	.0	.0	.0	7.0	1.8	.0	18.4	.0	.0		.0	72.8
TOT PCT	6.3	.9	1.7	.0	.0	.0	.0	8.9	1.4	.0	17.7	.6	.5		.2	70.7
TOT OBS:	1048															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	3.6	1.0	2.1	.0	.0	.0	.0	6.7	2.3	.0	18.1	.5	.3		.3	72.0
06&09	7.4	.0	1.1	.0	.0	.0	.0	8.5	.6	.0	13.1	.0	.0		.6	77.3
12&15	7.3	1.1	1.7	.0	.0	.0	.0	10.1	1.1	.0	17.2	1.1	.8		.3	69.3
18&21	8.6	.7	1.3	.0	.0	.0	.0	10.5	2.0	.0	24.3	.0	.7		.0	62.5
TOT PCT	6.2	.8	1.7	.0	.0	.0	.0	8.7	1.6	.0	17.9	.6	.5		.2	70.6
TOT OBS:	1069															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.8	6.7	4.2	.4	.0	.0		13.1	9.3	10.0	18.7	9.7	18.6	14.9	18.9	13.3	10.0
NE	1.3	3.2	1.6	.5	.0	.0		6.7	9.1	5.9	6.0	6.0	7.0	7.2	4.7	8.4	10.0
E	.7	2.2	1.1	.1	.0	.0		4.1	8.2	3.6	1.5	3.2	1.2	4.5	3.8	8.2	7.0
SE	1.3	4.5	1.9	.4	.0	.0		8.1	9.1	8.2	3.7	5.4	3.5	6.1	22.6	9.8	16.0
S	3.9	11.2	10.3	3.5	.4	.0		29.4	12.3	29.4	17.9	29.0	20.9	33.1	32.1	31.3	26.0
SW	1.6	8.1	6.2	2.3	.0	.0		18.2	11.8	27.8	28.4	19.8	25.6	12.1	12.3	11.7	21.0
W	1.4	2.2	.6	.0	.0	.0		4.2	5.9	5.1	10.4	2.8	8.1	3.0	.9	.8	7.0
NW	.8	2.5	1.3	.2	.0	.0		5.1	9.1	8.3	11.9	4.6	5.8	4.0	4.7	2.4	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.1							11.1	.0	8.7	1.5	19.4	9.3	15.1	0	14.1	2.0
TOT OBS	239	407	276	75	4	0	1001		9.3	987	67	124	43	285	53	92	50
TOT PCT	23.9	40.7	27.6	7.5	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.5	6.3	1.1	.2	.0		13.1	9.3	11.7	12.0	15.5	12.1
NE	3.3	2.5	.5	.3	.0		6.7	9.1	5.9	6.3	6.8	9.0
E	2.0	1.8	.2	.1	.0		4.1	8.2	3.2	2.7	4.4	7.7
SE	3.9	3.2	.9	*	.0		8.1	9.1	7.3	4.9	8.7	12.0
S	10.2	10.6	6.6	1.7	.2		29.4	12.3	27.2	26.9	32.9	29.4
SW	5.7	7.7	4.1	.6	.0		18.2	11.8	23.9	21.3	12.1	15.0
W	3.0	1.0	.2	.0	.0		4.2	5.9	6.1	4.2	2.7	3.0
NW	2.8	1.4	.9	*	.0		5.1	9.1	7.3	4.9	4.1	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	11.1						11.1	.0	7.3	16.8	12.7	9.9
TOT OBS	477	347	145	30	2	1001		9.3	354	167	338	142
TOT PCT	47.7	34.7	14.5	3.0	.2		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.3	13.6	41.8	28.8	8.2	.3	.0	9.7	100.0	356
06&09	16.8	10.2	35.3	26.9	10.2	.6	.0	9.5	100.0	167
12&15	12.7	12.1	42.3	26.3	5.9	.6	.0	9.0	100.0	338
18&21	9.9	15.5	40.1	28.2	6.3	.0	.0	9.1	100.0	142
TOT	111	128	407	276	75	4	0	9.3		1001
PCT	11.1	12.8	40.7	27.6	7.5	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.3	1.8	3.4	4.7		5.6
NE	1.7	.6	1.6	3.2		5.6
E	1.3	.3	1.3	1.8		5.4
SE	1.6	.9	1.9	2.3		5.1
S	4.6	3.4	7.7	14.5		5.9
SW	2.6	2.4	6.2	6.5		5.8
W	.7	.3	.6	1.4		5.5
NW	.4	1.0	1.3	2.0		6.2
VAR	.0	.0	.0	.0		.0
CALM	3.1	1.2	3.6	5.7		5.4
TOT OBS	138	89	207	316	750	5.7
TOT PCT	18.4	11.9	27.6	42.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.5	.9	1.3	2.3	.9	.1	.1	.0	5.6	
NE	.5	.0	.3	.3	1.1	1.5	.6	.1	.0	.1	2.5	
E	.6	.0	.0	.0	.9	.7	.5	.1	.0	.1	1.8	
SE	.3	.0	.0	*	1.3	.9	1.0	.0	.0	.3	3.0	
S	6.7	.1	.3	1.2	4.0	5.0	1.5	.0	.5	.5	10.4	
SW	2.6	.0	.1	.4	2.4	3.1	1.2	.1	.1	.3	7.3	
W	.1	.0	.1	.1	.3	.6	.3	.0	.0	.2	1.3	
NW	.6	.0	.0	*	.8	.9	*	.0	.0	.3	1.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.1	.1	1.9	2.3	1.5	.4	.1	.3	5.2	
TOT OBS	102	1	11	23	104	130	56	7	7	16	293	750
TOT PCT	13.6	.1	1.5	3.1	13.9	17.3	7.5	.9	.9	2.1	39.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.3	2.2	3.0	3.0	3.0	3.0	3.0	3.0
* OR >5000	1.8	3.2	3.9	3.9	3.9	3.9	3.9	3.9
* OR >3500	7.0	10.0	11.4	11.4	11.4	11.4	11.4	11.4
* OR >2000	16.8	24.6	27.8	28.0	28.4	28.7	28.7	28.7
* OR >1000	21.8	35.7	41.4	42.0	42.5	42.8	42.9	42.9
* OR >600	22.5	37.4	44.1	44.7	45.5	45.8	45.9	45.9
* OR >300	22.6	37.8	45.3	46.1	46.8	47.2	47.4	47.4
* OR >150	22.6	37.8	45.3	46.1	46.8	47.2	47.4	47.4
* OR > 0	22.8	37.9	46.3	47.2	48.8	54.2	60.4	60.9
TOTAL	173	288	352	359	371	412	459	463

TOTAL NUMBER OF OBS: 760 PCT FREQ NH <5/8: 39.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
15.4	4.6	8.5	4.4	5.1	4.8	6.0	10.4	27.9	13.0	800

PERIOD: (PRIMARY) 1962-1974
(OVER-ALL) 1906-1974

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.1	.1	.0	.2	.0	.0	.1	.0	.0	.6	
<1/2	NO PCP	.3	.4	.2	.5	5.1	2.5	.3	.2	.0	.9	10.3	
	TOT %	.3	.5	.2	.5	5.3	2.5	.3	.3	.0	.9	10.9	
	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.2	*	.0	.1	.6	.2	.1	.1	.0	.3	1.5	
	TOT %	.2	*	.0	.1	.7	.3	.1	.1	.0	.3	1.7	
	PCP	.1	*	.0	*	.4	.0	.0	.0	.0	.1	.7	
1<2	NO PCP	.2	.0	.0	.0	.4	.3	.0	.1	.0	.3	1.2	
	TOT %	.3	*	.0	*	.7	.3	.0	.1	.0	.4	1.9	
	PCP	1.0	.6	.0	.5	.6	.1	.1	.2	.0	.4	3.5	
2<5	NO PCP	.6	.2	.4	.3	2.2	1.1	.1	.4	.0	.6	5.9	
	TOT %	1.5	.9	.4	.7	2.9	1.2	.2	.7	.0	1.0	9.5	
	PCP	.5	.4	.3	.1	1.5	.2	.2	.3	.0	.3	3.7	
5<10	NO PCP	2.3	1.8	.8	1.9	4.8	2.8	.6	.7	.0	1.3	16.9	
	TOT %	2.7	2.2	1.1	2.0	6.3	3.1	.7	1.0	.0	1.6	20.7	
	PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
10+	NO PCP	7.8	3.6	2.6	4.7	13.3	10.4	2.8	3.1	.0	6.8	55.0	
	TOT %	8.0	3.6	2.6	4.7	13.3	10.4	2.8	3.1	.0	6.8	55.3	
	TOT OBS												1045
	TOT PCT	13.1	7.2	4.3	8.0	29.1	17.8	4.1	5.3	.0	10.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.1	.0	.1	.8	.4	.2	.1	.0	.9	2.5	
<1/2	4-10	.3	.3	.2	.4	2.2	1.6	.2	.2	.0		5.4	
	11-21	.1	.1	.0	*	2.0	.4	.0	*	.0		2.6	
	22+	.0	.0	.0	.0	.5	.1	.0	.0	.0		.6	
	TOT %	.4	.5	.2	.5	5.4	2.6	.4	.4	.0	.9	11.2	
	0-3	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	.6	
1/2<1	4-10	.1	*	.0	.0	.2	.2	.1	.1	.0		.7	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0		.2	
	22+	.0	.0	.0	.0	.2	*	.0	.0	.0		.2	
	TOT %	.2	*	.0	.1	.6	.3	.1	.1	.0	.3	1.7	
	0-3	.2	.1	.0	.0	.4	.1	.1	.0	.0	.4	1.2	
1<2	4-10	.2	.0	.0	.0	.2	.1	.0	.1	.0		.6	
	11-21	.1	.0	.0	*	.1	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.1	.3	.0	.0	.0	.0		.3	
	TOT %	.5	.1	.0	.1	.9	.3	.1	.1	.0	.4	2.4	
	0-3	.1	.1	.1	.1	.3	.1	.0	.1	.0	1.0	1.9	
2<5	4-10	1.0	.5	.2	.5	1.4	.8	.2	.3	.0		4.8	
	11-21	.7	.2	.1	.1	1.1	.8	.0	.3	.0		3.2	
	22+	.1	.0	.0	.0	.3	.1	.0	.0	.0		.5	
	TOT %	2.0	.8	.3	.7	3.1	1.7	.2	.6	.0	1.0	10.5	
	0-3	.5	.7	.1	.4	.8	.3	.2	.1	.0	1.3	4.5	
5<10	4-10	1.1	.4	.4	1.2	2.8	1.5	.4	.5	.0		8.2	
	11-21	.8	.7	.3	.3	2.0	1.1	.1	.4	.0		5.8	
	22+	.3	.4	.1	.1	.7	.3	.0	.1	.0		2.0	
	TOT %	2.7	2.2	.9	2.0	6.3	3.2	.7	1.1	.0	1.3	20.5	
	0-3	.8	.4	.6	.6	1.5	.6	1.0	.5	.0	6.9	12.9	
10+	4-10	4.0	2.1	1.5	2.6	4.3	4.0	1.2	1.2	.0		21.0	
	11-21	2.5	.6	.6	1.5	5.3	3.8	.5	.9	.0		15.6	
	22+	.1	.0	.0	.2	1.9	1.8	.0	.1	.0		4.2	
	TOT %	7.4	3.1	2.7	4.9	13.1	10.2	2.7	2.7	.0	6.9	53.7	
	TOT OBS												985
	TOT PCT	13.1	6.7	4.1	8.2	29.4	18.4	4.2	5.0	.0	10.9	100.0	

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

AREA 0017 TATAR STRAIT N
50.4N 141.7E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	12.7	.0	1.0	1.9	14.3	21.1	8.8	.6	.6	3.6	64.6	35.4	308
06&09	7.0	.0	.8	1.6	20.2	14.0	4.7	1.6	1.6	.8	51.9	48.1	129
12&15	14.8	.4	1.6	4.8	10.8	16.8	8.0	.8	.8	1.6	60.4	39.6	250
18&21	22.1	.0	3.5	4.7	12.8	10.5	4.7	1.2	1.2	.0	60.5	39.5	86
TOT	104	1	11	24	108	134	57	7	7	16	469	304	773
PCT	13.5	.1	1.4	3.1	14.0	17.3	7.4	.9	.9	2.1	60.7	39.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	10.3	1.8	2.3	9.2	18.7	57.7	390
06&09	7.3	.0	.6	9.5	20.7	62.0	179
12&15	12.3	1.1	3.1	11.4	23.4	48.7	359
18&21	13.5	5.1	3.2	12.2	17.3	48.7	156
TOT	118	19	26	113	221	587	1084
PCT	10.9	1.8	2.4	10.4	20.4	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
00&03	12.7	15.9	25.0	41.2	33.8	308
06&09	7.2	8.8	19.2	34.4	46.4	125
12&15	15.3	17.8	30.6	33.1	36.4	242
18&21	22.4	28.2	37.6	24.7	37.6	85
TOT	104	127	207	271	282	760
PCT	13.7	16.7	27.2	35.7	37.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	1.8	.0	.0	.9	1.8	1.8	.0	7	6.3
55/59	.0	.0	.9	.9	1.8	3.6	9.0	5.4	24	21.6
50/54	.0	.0	.0	.0	2.7	2.7	17.1	13.5	40	36.0
45/49	.0	.0	.0	.9	.9	4.5	9.9	11.7	31	27.9
40/44	.0	.0	.0	.0	.0	.9	.0	7.2	9	8.1
TOTAL	0	2	1	2	7	15	42	42	111	100.0
PCT	.0	1.8	.9	1.8	6.3	13.5	37.8	37.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.9	.0	.9	.9	.9	.9	.0	.0	1.8
	1.8	1.8	.0	1.1	5.9	9.2	.0	.2	.0	1.8
	3.2	2.9	.0	2.7	7.7	10.4	3.4	.5	.0	5.4
	5.2	2.3	.7	.9	14.0	2.3	.0	.9	.0	1.8
	1.8	.0	2.7	.0	2.5	.2	.0	1.1	.0	.0
	11.5	7.9	3.4	5.6	30.9	23.0	4.3	2.7	.0	10.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	67	61	52	44	41	39	52.6	386
06&09	73	72	63	53	41	39	39	52.9	182
12&15	82	66	59	50	41	36	32	49.6	364
18&21	63	60	57	48	37	34	33	48.3	156
TOT	82	66	61	51	41	37	32	51.0	1088

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.9	14.3	8.6	40.0	34.3	83	35
06&09	.0	.0	6.9	17.2	48.3	27.6	85	29
12&15	.0	16.0	.0	16.0	32.0	36.0	82	25
18&21	.0	.0	.0	12.5	33.3	54.2	90	24
TOT	0	5	7	15	44	42	85	113

JUNE

PERIOD: (PRIMARY) 1942-1974
(OVER-ALL) 1906-1974

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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	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.3	.0	.1	.0	.1	.0	.0	5	.0	.5
17/19	.0	.0	.0	.0	.2	.1	.1	.2	.0	.0	.1	.1	8	.2	.6
14/16	.0	.0	.0	.0	.2	.3	.2	.3	.8	.0	.0	.0	18	.1	1.8
11/13	.0	.0	.0	.1	.4	1.4	.9	1.0	.3	.0	.0	.0	40	.5	3.6
9/10	.0	.0	.1	.3	.9	1.4	2.0	.7	.0	.0	.1	.0	53	.6	4.9
7/8	.0	.0	.0	1.5	1.0	1.6	1.9	.6	.0	.0	.0	.0	63	1.0	5.5
6	.0	.0	.0	.3	.9	.7	1.3	.0	.0	.0	.0	.0	31	.5	2.7
5	.0	.1	.1	2.1	2.7	2.5	1.8	.4	.0	.0	.0	.0	93	.8	8.9
4	.0	.5	1.0	1.9	3.1	2.4	.6	.2	.0	.0	.0	.0	93	1.0	8.7
3	.0	.0	.5	.9	1.4	2.5	.3	.0	.0	.0	.0	.0	54	1.5	4.2
2	.0	.4	1.3	3.0	3.2	3.3	.7	.0	.0	.0	.0	.0	115	2.7	9.3
1	.0	.1	.2	1.9	1.4	1.4	.2	.1	.0	.0	.0	.0	50	.8	4.4
0	.1	1.0	1.3	5.0	2.9	2.5	.7	.0	.0	.0	.0	.0	130	2.6	10.9
-1	.0	.3	.3	1.1	1.7	.9	.2	.1	.0	.0	.0	.0	45	1.5	3.2
-2	.0	.3	.7	3.3	1.3	.5	.2	.0	.0	.0	.0	.0	61	.7	5.6
-3	.0	.0	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	16	.3	1.4
-4	.0	.0	.6	.8	.6	.1	.1	.1	.0	.0	.0	.0	23	.7	1.7
-5	.0	.2	.7	.7	.2	.2	.0	.0	.0	.0	.0	.0	20	.3	1.8
-6	.1	.0	.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	8	.1	.7
-7/-8	.0	.0	.0	.4	.9	.3	.1	.0	.0	.0	.0	.0	17	.3	1.5
-9/-10	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
-11/-13	.1	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	6	.1	.5
-14/-16	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	.2	.2
-17/-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	3	30	75	238	229	221	110	38	11	1	2	1	959	162	797
PCT	.3	3.1	7.8	24.8	23.9	23.0	11.5	4.0	1.1	.1	.2	.1	100.0	16.9	83.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.7	.2	.0	.0	.0	3.5
1-2	.1	2.4	2.6	.0	.0	.0	5.1
3-4	.0	.8	1.3	.2	.0	.0	2.3
5-6	.0	.0	.5	.2	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.4	.0	.0	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.2	4.6	.6	.0	.0	12.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.4	.9	.0	.0	.0	3.8
1-2	.2	1.0	.9	.0	.0	.0	2.1
3-4	.0	.4	.8	.2	.0	.0	1.4
5-6	.0	.0	.0	.5	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.8	2.6	.8	.0	.0	7.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.5
1-2	.0	1.1	1.0	.0	.0	.0	2.2
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.2	1.5	.1	.0	.0	4.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.0	.2	.0	.0	.0	2.4
1-2	.0	1.6	1.6	.0	.0	.0	3.3
3-4	.0	*	.2	.0	.0	.0	.2
5-6	.0	.2	.2	.4	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.9	2.2	.4	.0	.0	6.7

PERIOD: (OVER-ALL) 1963-1974

JUNE

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	5.8	.2	.0	.0	.0	7.9	.5	2.2	.2	.0	.0	.0	2.8
1-2	.3	3.3	4.4	.0	.0	.0	8.0	.2	3.7	2.3	.0	.0	.0	6.2
3-4	.3	.5	4.5	1.1	.0	.0	6.4	*	.2	3.0	.2	.0	.0	3.4
5-6	.0	.2	2.9	1.1	.0	.0	4.2	.0	*	.9	.8	.0	.0	1.8
7	.0	.0	1.0	1.5	.0	.0	2.4	.0	.0	1.0	.5	.0	.0	1.6
8-9	.0	.0	.5	.4	.0	.0	.9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	9.8	13.6	4.4	.0	.0	30.4	.7	6.1	7.7	2.1	.0	.0	16.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	1.5	.0	.0	.0	.0	1.6	.4	.8	.0	.0	.0	.0	1.2	
1-2	.2	.6	.5	.0	.0	.0	1.2	.2	1.4	.6	.0	.0	.0	2.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.2	.0	.0	.9	
5-6	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.4	
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	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.2	.6	.0	.0	.0	3.2	.6	2.3	1.7	.5	.0	.0	5.0	86.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	18.4	18.6	1.6	.0	.0	.0	38.6	
1-2	1.3	15.1	13.8	.0	.0	.0	30.2	
3-4	.4	2.0	10.9	1.8	.0	.0	15.1	
5-6	.0	.5	4.7	3.1	.0	.0	8.4	
7	.0	.0	2.2	2.2	.0	.0	4.4	
8-9	.0	.0	.7	.9	.0	.0	1.6	
10-11	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.2	.2	.0	.0	.4	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.4	.2	.0	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								549
TOT PCT	20.0	36.6	34.4	8.9	.0	.0	100.0	

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	16.6	6.1	4.7	1.7	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	239	3
6-7	.0	1.2	2.4	2.8	1.9	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	5
8-9	.0	.7	1.2	1.2	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
10-11	.0	1.2	.7	.3	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
12-13	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
>13	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	21.5	8.4	12.7	3.2	3.2	1.2	.1	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	381	2
TOTAL	179	210	181	93	93	20	4	2	2	4	0	0	0	0	0	0	0	0	0	748	3
PCT	23.9	28.1	24.2	12.4	7.1	2.7	.5	.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TAYAR STRAIT N
50.0N 141.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	7.7	1.6	5.2	.0	.0	.0	.0	14.5	3.8	.0	13.6	1.3	.0	.0		66.9
NE	4.7	.6	9.8	.0	.0	.0	.0	15.1	2.8	.0	13.6	.0	.0	.0		68.5
E	9.0	3.6	3.6	.0	.0	.0	.0	16.3	.0	.0	6.0	.0	.0	.0		77.7
SE	16.9	3.4	3.7	.0	.0	.0	.0	24.0	.0	.0	14.0	.6	.0	.0		61.4
S	5.4	1.2	5.5	.0	.0	.0	.0	12.1	2.5	.0	19.5	.9	.0	.3		64.7
SW	4.1	.0	3.2	.0	.0	.0	.0	7.3	.8	.0	17.0	.1	.0	.5		74.3
W	7.7	.0	7.7	.0	.0	.0	.0	15.5	1.9	.0	18.7	.0	.0	.0		63.9
NW	5.4	.0	4.6	.0	.0	.0	.0	10.0	1.7	.0	13.4	1.7	.0	.0		73.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.3	3.?	5.8	.0	.0	.0	.0	10.3	1.9	.0	21.8	.0	.0	.0		66.0
TOT PCT	6.1	1.5	5.2	.0	.0	.0	.0	12.8	1.9	.0	16.6	.6	.0	.2		68.0
TOT OBS:	1196															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.5	1.4	5.5	.0	.0	.0	.0	13.4	1.4	.0	18.7	.5	.0		.5	65.6
06&09	4.9	1.8	3.5	.0	.0	.0	.0	10.2	3.1	.0	15.0	1.3	.0		.0	70.4
12&15	6.0	1.1	3.0	.0	.0	.0	.0	10.2	2.7	.0	15.9	.5	.0		.0	70.8
18&21	6.7	1.8	9.3	.0	.0	.0	.0	17.8	.0	.0	17.3	.0	.4		.0	64.4
TOT PCT	6.1	1.5	5.1	.0	.0	.0	.0	12.7	1.9	.0	17.0	.6	.1		.2	67.7
TOT OBS:	1233															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	6.2	5.3	.2	.1	.0		13.1	10.1	11.7	21.4	16.9	25.0	10.5	15.5	11.1	20.0
NE	.5	3.8	2.1	.2	*	.0		6.7	9.4	5.2	7.1	6.0	4.2	7.8	.0	10.4	2.0
E	.7	4.5	1.6	.0	.0	.0		7.0	8.5	5.4	1.2	5.9	.0	8.0	1.7	12.4	8.0
SE	.7	3.9	2.1	.4	.1	.0		7.1	9.7	7.0	6.0	6.1	3.3	6.8	15.5	7.2	16.0
S	1.6	11.9	11.1	4.1	.5	.0		29.3	13.1	25.8	22.6	31.8	23.3	30.2	36.2	27.7	28.0
SW	1.2	6.8	6.6	1.4	.1	.0		16.1	12.0	21.0	19.0	15.4	20.0	12.6	12.1	12.4	18.0
W	.7	2.0	.5	.0	.0	.0		3.2	7.0	2.4	8.3	2.7	5.0	3.7	5.2	2.8	4.0
NW	.5	3.5	1.2	.0	.0	.0		5.2	8.0	6.0	7.1	7.9	12.5	2.8	10.3	2.6	4.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.3							12.3	.0	12.4	7.1	7.1	6.7	17.7	3.4	13.4	.0
TOT OBS	228	499	361	74	10	0	1172		9.7	364	42	183	30	305	29	194	25
TOT PCT	19.5	42.6	30.8	6.3	.9	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.5	7.1	1.2	.3	.0		13.1	10.1	12.7	18.1	10.9	12.1
NE	2.6	3.4	.6	*	.0		6.7	9.4	5.4	5.8	7.1	9.5
E	2.6	4.0	.4	.0	.0		7.0	8.5	4.9	5.0	7.4	11.9
SE	3.3	2.8	.9	.1	.0		7.1	9.7	6.9	5.8	7.6	8.2
S	7.3	12.8	7.2	1.9	.0		29.3	13.1	28.2	30.6	30.7	27.7
SW	4.7	7.2	3.5	.7	.0		16.1	12.0	20.8	16.1	12.6	13.0
W	1.8	1.2	.2	.0	.0		3.2	7.0	3.0	3.1	3.8	3.0
NW	2.4	2.6	.2	.0	.0		5.2	8.0	6.2	8.6	3.4	2.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	12.3						12.3	.0	11.8	7.0	16.5	11.9
TOT OBS	487	482	167	36	0	1172		9.7	406	213	334	219
TOT PCT	41.6	41.1	14.2	3.1	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1957-1974
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AREA 0017 TATAR STRAIT N
50.6N 141 7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	11.8	6.7	43.3	31.3	5.4	1.5	.0	9.7	100.0	406
06&09	7.0	8.0	43.7	29.6	11.3	.5	.0	11.0	100.0	213
12&15	16.5	6.6	40.1	32.0	4.8	.0	.0	9.0	100.0	334
18&21	11.9	8.2	43.8	29.2	5.5	1.4	.0	9.3	100.0	219
TOT	144	84	499	361	74	10	0	9.7		1172
PCT	12.3	7.2	42.6	30.8	6.3	.9	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.6	4.7	6.1		6.6
NE	1.0	.6	1.7	3.6		6.2
E	.8	.9	2.2	3.9		6.4
SE	.8	.4	1.2	4.7		6.6
S	3.4	2.0	6.7	16.3		6.4
SW	2.0	1.7	5.0	7.0		6.0
W	.3	.3	.6	1.6		6.4
NW	.7	.3	1.8	2.1		6.0
VAR	.0	.0	.0	.0		.0
CALM	1.7	1.4	3.4	7.4		6.2
TOT OBS	117	82	271	522	992	6.3
TOT PCT	11.8	8.3	27.3	52.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.2	.2	.4	2.6	2.7	1.8	.3	.1	.0	9.0	
NE	.4	*	.2	.4	1.8	1.0	.4	.3	*	.0	2.6	
E	.2	.1	.3	.5	1.4	1.4	.6	.4	.2	.1	2.6	
SE	.7	*	.1	.3	1.4	.9	1.3	.2	.0	*	2.2	
S	4.7	.6	1.4	1.4	4.0	5.1	1.6	1.5	.2	.3	7.7	
SW	2.0	.3	.5	.3	2.5	2.1	1.1	.4	.0	.1	6.4	
W	.5	.0	.0	.3	.6	.4	.1	.0	.1	.0	.9	
NW	.2	.0	.3	.2	1.3	.9	.1	.1	.0	.1	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4	.1	.2	.5	2.6	1.9	1.4	.2	.1	.6	9.8	
TOT OBS	122	13	31	42	180	161	84	34	7	12	306	992
TOT PCT	12.3	1.3	3.1	4.2	18.1	16.2	8.5	3.4	.7	1.2	30.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.7	2.0	2.0	2.0	2.0	2.0	2.0
* OR >5000	4.4	5.1	5.4	5.4	5.4	5.4	5.4	5.4
* OR >3500	9.9	12.9	13.8	13.9	14.0	14.0	14.0	14.0
* OR >2000	20.0	26.9	29.6	30.0	30.1	30.3	30.3	30.3
* OR >1000	27.4	40.9	45.9	47.2	47.6	48.0	48.0	48.0
* OR >600	28.5	43.5	49.8	51.1	51.6	52.0	52.2	52.2
* OR >300	29.0	44.9	52.3	54.1	54.7	55.1	55.3	55.3
* OR >150	29.1	45.3	53.2	55.0	55.8	56.3	56.5	56.5
* OR > 0	29.1	45.7	54.1	56.6	58.2	61.3	68.1	68.8
TOTAL	293	460	545	570	586	617	686	693

TOTAL NUMBER OF OBS: 1007 PCT FREQ NH <5/8: 31.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.2	3.8	5.8	4.3	5.5	4.3	8.0	9.3	35.5 12.2	1045

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
<1/2	NO PCP	.8	.3	.2	.4	3.7	1.8	.3	.5	.0	2.2	10.3	
	TOT %	.9	.3	.2	.5	3.8	1.8	.3	.5	.0	2.2	10.6	
	PCP	.1	.0	.1	.0	.1	.1	.1	.0	.0	.1	.5	
1/2<1	NO PCP	.1	.0	.0	.2	.5	.2	.1	.0	.0	.2	1.3	
	TOT %	.2	.0	.1	.2	.6	.3	.2	.0	.0	.3	1.8	
	PCP	.2	.3	.1	.3	.4	.0	.0	.0	.0	.1	1.3	
1<2	NO PCP	.3	.2	.0	.2	.6	.2	.0	.1	.0	.2	1.7	
	TOT %	.5	.4	.1	.4	.9	.2	.0	.1	.0	.3	2.9	
	PCP	.7	.2	.4	.8	1.5	.5	.2	.2	.0	.3	4.8	
2<5	NO PCP	.4	.6	.4	.4	1.7	1.0	.3	.3	.0	.5	5.6	
	TOT %	1.1	.8	.8	1.2	3.2	1.5	.5	.5	.0	.8	10.4	
	PCP	.8	.5	.5	.6	1.3	.5	.2	.3	.0	.8	5.6	
5<10	NO PCP	2.6	.9	1.0	.5	4.4	2.0	.3	.9	.0	2.2	14.8	
	TOT %	3.4	1.5	1.5	1.2	5.7	2.5	.6	1.2	.0	3.0	20.4	
	PCP	.1	*	.0	.0	.1	.0	.0	.0	.0	.1	.3	
10+	NO PCP	7.1	3.6	4.2	3.8	14.2	9.5	1.6	2.8	.0	6.6	53.5	
	TOT %	7.3	3.7	4.2	3.8	14.3	9.5	1.6	2.8	.0	6.6	53.9	
	TOT OBS												1190
	TOT PCT	13.2	6.7	7.0	7.4	28.6	15.8	3.3	5.0	.0	13.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.0	.0	.2	.4	.6	.1	.1	.0	2.2	3.7	
<1/2	4-10	.5	.2	.2	.2	1.5	.8	.3	.4	.0		4.1	
	11-21	.2	.1	.1	*	1.7	.4	.0	.0	.0		2.5	
	22+	.0	.0	.0	.1	.4	*	.0	.0	.0		.5	
	TOT %	1.0	.3	.2	.6	3.9	1.8	.4	.4	.0	2.2	10.8	
	0-3	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.4	
1/2<1	4-10	.2	.0	.0	.1	.4	.2	.1	.0	.0		1.1	
	11-21	.0	.0	.1	.0	.2	.1	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.2	.0	.1	.2	.6	.3	.2	.0	.0	.3	1.9	
	0-3	.0	.1	.0	.0	.2	.0	.0	.0	.0	.2	.4	
1<2	4-10	.3	.3	.1	.3	.6	.1	.0	.1	.0		1.9	
	11-21	.1	.0	.1	.1	.2	.2	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.4	.2	.4	1.0	.3	.0	.1	.0	.2	2.9	
	0-3	.0	.2	.1	.1	.1	.2	.2	.1	.0	.8	1.7	
2<5	4-10	.8	.4	.5	.6	1.2	.8	.3	.3	.0		4.9	
	11-21	.5	.3	.2	.3	1.1	.5	.1	.1	.0		3.0	
	22+	.0	.0	.0	.1	.8	*	.0	.0	.0		1.0	
	TOT %	1.3	.8	.8	1.1	3.1	1.6	.5	.5	.0	.8	10.5	
	0-3	.5	*	.1	*	.2	.1	.2	.0	.0	2.9	4.1	
5<10	4-10	1.4	1.0	.9	.7	2.0	.9	.3	.7	.0		7.9	
	11-21	1.2	.5	.5	.4	2.2	1.3	.2	.5	.0		6.6	
	22+	.2	.0	.0	.0	.8	.1	.0	.0	.0		1.1	
	TOT %	3.2	1.5	1.5	1.1	5.3	2.4	.6	1.2	.0	2.9	19.7	
	0-3	.6	.3	.4	.2	.4	.2	.3	.3	.0	6.3	8.8	
10+	4-10	3.0	2.0	2.9	2.0	5.7	3.9	1.2	2.0	.0		22.7	
	11-21	3.4	1.3	1.0	1.3	5.6	4.4	.2	.7	.0		17.9	
	22+	.2	.2	.0	.2	2.8	1.3	.0	.0	.0		4.7	
	TOT %	7.1	3.8	4.3	3.8	14.5	9.8	1.7	2.9	.0	6.3	54.2	
	TOT OBS												1131
	TOT PCT	13.1	6.9	7.0	7.2	28.4	16.2	3.4	5.1	.0	12.6	100.0	

JULY

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	13.3	1.1	3.5	4.1	17.7	18.5	7.1	3.8	.8	1.4	71.2	28.8	368
06&09	8.6	.5	4.3	2.2	17.3	16.2	9.2	2.7	.5	1.1	62.7	37.3	185
12&15	13.6	1.4	3.1	3.1	17.0	15.6	8.5	3.1	1.4	1.4	68.0	32.0	294
18&21	12.8	2.2	1.7	8.4	19.6	11.7	11.2	3.4	.0	.6	71.5	28.5	179
TOT	128	13	33	43	182	165	88	34	8	12	706	320	1026
PCT	12.5	1.3	3.2	4.2	17.7	16.1	8.6	3.3	.8	1.2	68.8	31.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	11.9	1.2	2.4	11.7	18.3	54.5	420
06&09	7.1	.9	4.9	5.4	22.8	59.4	224
12&15	10.7	2.8	2.8	12.4	21.2	50.1	363
18&21	11.9	1.8	3.5	11.9	20.3	50.7	227
TOT	132	21	38	133	251	659	1234
PCT	10.7	1.7	3.1	10.8	20.3	53.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	13.2	19.6	31.1	41.9	27.0	363
06&09	7.7	13.3	19.9	43.1	37.0	181
12&15	13.6	19.5	33.1	38.3	28.6	287
18&21	13.1	19.3	35.8	40.9	23.3	176
TOT	124	185	307	412	288	1007
PCT	12.3	18.4	30.5	40.9	28.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	1.4	1.7	1.1	.0	15	4.2
60/64	.0	.0	.0	.0	.6	3.9	12.1	15.2	113	31.7
55/59	.0	.0	.3	.6	1.4	8.7	15.7	23.9	180	50.6
50/54	.0	.0	.0	.0	1.4	.8	2.2	6.7	40	11.2
45/49	.0	.0	.0	.3	.0	.0	.0	2.0	8	2.2
TOTAL	0	0	1	3	17	54	111	170	356	100.0
PCT	.0	.0	.3	.8	4.8	15.2	31.2	47.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.4	.5	.8	2.0	.3	.0	.0	.0	.0
6.2	2.8	2.7	2.6	8.2	5.0	.8	.7	.0	2.8
6.8	2.7	2.9	4.8	13.7	9.6	1.6	2.9	.0	5.6
.3	.9	1.9	.4	3.7	1.9	.6	.3	.0	1.4
.2	.4	.0	.3	.0	.8	.0	.0	.0	.6
13.8	7.1	7.9	8.8	27.5	17.6	2.9	3.9	.0	10.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	76	72	68	59	52	49	45	59.2	429
06&09	85	76	68	60	52	48	43	60.2	225
12&15	73	70	65	58	50	47	46	53.0	367
18&21	80	70	62	57	49	46	42	56.4	232
TOT	85	72	67	59	50	47	42	58.5	1253

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.0	5.1	18.4	30.6	44.9	86	98
06&09	.0	.0	4.5	15.7	37.1	42.7	87	89
12&15	.0	2.3	6.9	12.6	31.0	47.1	87	87
18&21	.0	1.2	2.4	12.9	24.7	58.8	89	85
TOT	0	4	17	54	111	173	87	359

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
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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 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	3	.0	.3
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.1	3	.1	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.4	.0	.0	.1	.0	.0	5	.0	.5
14/16	.0	.0	.0	.1	.2	.1	.2	.1	.2	.0	.0	.0	9	.1	.8
11/13	.0	.0	.1	.3	.0	1.0	1.1	.3	.1	.0	.0	.0	29	.6	2.2
9/10	.0	.0	.0	.1	.3	1.2	.7	.4	.1	.0	.0	.0	28	.2	2.5
7/8	.0	.1	.1	.3	1.1	1.8	1.2	.4	.0	.0	.0	.0	51	.5	4.4
6	.0	.0	.1	.2	.7	1.0	.8	.0	.0	.0	.0	.0	28	.4	2.3
5	.0	.0	.2	.9	1.9	2.2	1.3	.1	.0	.0	.0	.0	68	1.2	5.4
4	.0	.0	.2	2.0	3.7	4.5	.3	.2	.0	.0	.0	.0	113	1.0	9.9
3	.0	.0	.5	.7	1.2	1.6	.2	.0	.0	.0	.0	.0	43	.6	3.6
2	.0	.2	.7	3.6	4.4	3.2	.7	.1	.0	.0	.0	.0	133	1.7	11.1
1	.0	.0	.3	1.6	3.4	1.3	.1	.0	.0	.0	.0	.0	70	1.6	5.1
0	.0	.4	1.2	3.8	6.7	1.8	.3	.0	.0	.0	.0	.0	148	3.3	11.0
-1	.0	.0	.9	1.1	2.8	1.2	.0	.0	.0	.0	.0	.0	57	1.1	4.4
-2	.0	.2	.7	1.9	5.3	1.2	.0	.0	.0	.0	.0	.0	96	1.9	7.3
-3	.0	.0	.8	.2	.7	.7	.0	.0	.0	.0	.0	.0	34	.6	2.7
-4	.0	.3	.9	1.9	2.9	.0	.0	.0	.0	.0	.0	.0	62	1.5	4.4
-5	.0	.2	.7	.7	.5	.2	.0	.0	.0	.0	.0	.0	23	.6	1.6
-6	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	6	.1	.5
-7/-8	.1	.0	.9	.5	.3	.3	.0	.0	.0	.0	.0	.0	21	.3	1.7
-9/-10	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2		83		376		73		4		0			179	861
		15		222		241		17		3		4	1040		
PCT	.2	1.4	8.0	21.3	36.2	23.1	7.0	1.6	.4	.3	.0	.4	100.0	17.2	82.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	3.1	.0	.0	.0	.0	4.3
1-2	.0	2.5	3.6	.0	.0	.0	6.1
3-4	.0	.3	3.5	.0	.0	.0	3.8
5-6	.0	.2	.6	.0	.0	.0	.8
7	.0	.0	.2	.0	.2	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.3	7.9	.2	.2	.0	15.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5
1-2	.0	1.4	1.3	.0	.0	.0	2.7
3-4	.0	.0	.1	.2	.0	.0	.3
5-6	.0	.2	.3	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.9	1.6	.2	.0	.0	4.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.0	.0	.0	.0	2.5
1-2	.0	.8	.3	.0	.0	.0	1.1
3-4	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.7	.4	.0	.0	.0	3.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	2.1	.0	.0	.0	.0	2.5
1-2	.0	1.5	.9	.0	.0	.0	2.4
3-4	.0	.0	1.3	.2	.0	.0	1.5
5-6	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	2.2	.7	.2	.0	7.1

PERIOD: (OVER-ALL) 1963-1974

JULY

TABLE 18 (CONT)

AREA 0017 TATAR STRAIT N
50.6N 141.7E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	4.9	.0	.0	.0	.0	5.7	1.3	2.7	.0	.0	.0	.0	4.0
1-2	.0	7.6	4.3	.0	.0	.0	11.9	.4	2.5	1.6	.0	.0	.0	4.4
3-4	.0	.8	4.4	.4	.0	.0	5.7	.0	.6	2.0	.2	.0	.0	2.9
5-6	.0	.1	1.6	2.3	.2	.0	4.2	.0	.2	1.6	.1	.0	.0	1.9
7	.0	.0	1.0	.4	.0	.0	1.4	.0	.0	.2	.3	.0	.0	.5
8-9	.0	.0	.3	1.0	.1	.0	1.4	.0	.0	*	.2	*	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.2	.0	.3	.0	.0	.0	*	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	13.5	11.6	4.3	.5	.0	30.6	1.7	6.0	5.4	.8	*	.0	14.0

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.7	1.2	.0	.0	.0	.0	1.9	.4	1.9	.0	.0	.0	.0	2.3	
1-2	.0	.7	.8	.0	.0	.0	1.4	.0	1.2	1.1	.0	.0	.0	2.3	
3-4	.0	.1	.0	.0	.0	.0	.1	.0	*	.8	.0	.0	.0	.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	2.0	.8	.0	.0	.0	3.5	.4	3.2	2.0	.0	.0	.0	5.6	85.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	20.4	19.2	.0	.0	.0	.0	39.5	
1-2	.4	18.3	13.7	.0	.0	.0	32.3	
3-4	.0	1.9	12.3	1.1	.0	.0	15.3	
5-6	.0	.7	4.2	2.6	.2	.0	7.7	
7	.0	.0	1.4	.9	.2	.0	2.5	
8-9	.0	.0	.4	1.2	.2	.0	1.8	
10-11	.0	.0	.0	.2	.0	.0	.2	
12	.0	.0	.0	.2	.2	.0	.4	
13-16	.0	.2	.0	.0	.2	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								569
TOT PCT	20.7	40.2	32.0	6.2	.9	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	11.0	8.4	5.2	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	287	3
6-7	.0	1.1	2.7	2.3	1.3	.9	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	5
8-9	.0	.3	.4	.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
10-11	.0	.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
12-13	.0	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
>13	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	13
INDET	17.8	10.8	21.6	9.6	2.9	1.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	626	2
TOTAL	195	245	353	144	69	27	2	2	3	1	0	0	0	0	0	0	0	0	0	1041	3
PCT	18.7	23.5	33.9	13.8	6.6	2.6	.2	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	9.3	6.2	4.2	.0	.0	.0	.0	19.3	3.6	.0	2.6	.0	.6		.0	74.0
NE	9.6	6.0	1.4	.0	.0	.0	.0	17.0	4.3	.4	4.6	.0	.0		.0	73.8
E	18.0	2.7	1.9	.0	.0	.0	.0	22.6	1.9	.7	1.7	.0	.0		.0	73.0
SE	10.1	1.0	2.6	.0	.0	.0	.0	13.7	1.0	.0	8.2	.0	1.0		.0	76.0
S	6.7	.6	5.3	.0	.0	.0	.0	12.6	1.4	.0	9.8	.3	.0		.0	76.0
SW	3.7	.2	1.9	.0	.0	.0	.0	5.8	.8	.0	13.3	.0	.0		.0	80.1
W	10.7	1.7	1.1	.0	.0	.0	.0	13.6	2.3	.0	5.6	.0	.0		.0	78.5
NW	8.3	5.2	7.7	.0	.0	.0	.0	21.0	3.4	.0	6.5	.0	.0		.0	69.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.9	.0	1.8	.0	.0	.0	.0	2.7	1.8	.9	14.4	.0	.9		.0	79.3
TOT PCT	7.8	2.2	3.6	.0	.0	.0	.0	13.6	2.0	.2	8.1	.1	.3		.0	75.8
TOT OBS:	1185															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	5.9	2.9	2.1	.0	.0	.0	.0	10.9	1.4	.0	10.9	.0	.2		.0	76.5
06&09	6.5	1.6	4.1	.0	.0	.0	.0	12.2	2.8	.0	6.9	.0	.4		.0	77.6
12&15	10.7	2.5	3.9	.0	.0	.0	.0	16.9	3.1	.6	6.5	.3	.3		.0	72.5
18&21	9.0	.5	5.8	.0	.0	.0	.0	15.3	.9	.0	7.3	.0	.0		.0	78.8
TOT PCT	7.9	2.1	3.6	.0	.0	.0	.0	13.6	2.1	.2	7.9	.1	.2		.0	75.9
TOT OBS:	1212															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	5.9	7.3	1.0	.1	.0		14.8	12.3	12.2	14.1	17.1	11.7	15.4	5.0	19.4	15.4
NE	.4	2.8	2.4	.1	*	.0		5.7	10.7	6.3	5.1	3.1	6.7	5.3	6.7	8.5	3.8
E	1.0	4.1	2.6	.5	.0	.0		8.1	9.6	9.3	.0	3.9	1.7	9.3	5.8	12.7	5.8
SE	.7	4.0	3.4	.2	.1	.0		8.5	10.4	7.9	7.7	7.0	11.7	6.8	4.2	14.6	15.4
S	1.8	11.5	13.8	2.3	.2	.0		29.5	12.4	26.8	33.3	33.6	31.7	32.3	25.0	24.2	32.7
SW	1.1	7.2	4.3	1.0	*	.0		13.6	10.7	15.6	25.6	16.9	26.7	8.5	30.0	5.9	15.4
W	.5	1.9	1.1	.2	.0	.0		3.7	9.3	4.6	7.7	3.2	5.0	3.2	3.3	2.9	.0
NW	.8	2.5	3.1	.5	.0	.0		6.8	11.4	6.4	6.4	9.0	5.0	5.4	13.3	7.5	3.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.1							9.1	.0	10.8	.0	6.2	.0	13.9	6.7	4.3	7.7
TOT OBS	189	475	451	69	5	0	1189		10.3	379	39	211	30	310	30	164	26
TOT PCT	15.9	39.9	37.9	5.8	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	7.5	3.5	.5	.0		14.8	12.3	12.4	16.4	14.5	18.8
NE	2.0	2.8	.9	*	.0		5.7	10.7	6.2	3.5	5.4	7.9
E	2.9	4.2	1.0	.0	.0		8.1	9.6	8.4	3.6	9.0	11.7
SE	2.7	4.8	.8	.2	.0		8.5	10.4	7.9	7.6	6.5	14.7
S	6.5	15.7	6.6	.7	.0		29.5	12.4	27.5	33.4	31.6	25.4
SW	4.6	6.4	2.4	.2	.0		13.6	10.7	16.6	18.2	10.4	7.2
W	1.5	1.7	.5	.0	.0		3.7	9.3	4.8	3.4	3.2	2.5
NW	1.9	3.4	1.5	*	.0		6.8	11.4	6.4	8.5	6.1	7.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.1						9.1	.0	9.8	5.4	13.2	4.7
TOT OBS	411	554	205	19	0	1189		10.3	418	241	340	190
TOT PCT	34.6	46.6	17.2	1.6	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	9.8	6.5	40.0	38.0	5.3	.5	.0	10.1	100.0	418
06609	5.4	7.1	39.4	42.7	4.6	.8	.0	11.1	100.0	241
12615	13.2	6.8	38.8	32.9	7.9	.3	.0	10.0	100.0	340
18621	4.7	7.4	42.6	40.5	4.7	.0	.0	10.6	100.0	190
TOT	108	81	475	451	69	5	0	10.3		1189
PCT	9.1	6.8	39.9	37.9	5.8	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.6	7.0	5.9		6.6
NE	1.0	.3	2.0	2.8		6.1
E	1.6	1.1	2.1	4.1		5.7
SE	1.4	.7	2.2	3.9		5.9
S	6.0	2.9	8.9	11.8		5.6
SW	2.3	1.4	3.8	4.1		5.4
W	1.8	.5	.4	1.3		4.1
NW	.8	.6	2.4	3.3		6.3
VAR	.0	.0	.0	.0		.0
CALM	2.6	1.2	3.0	3.3		5.0
TOT OBS	172	87	296	379	934	5.7
TOT PCT	18.4	9.3	31.7	40.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.4	.9	3.1	4.4	1.5	.1	.1	.1	3.3	
NE	.3	.0	.0	.4	1.4	1.4	.7	.0	.2	*	1.6	
E	.4	.1	.3	.5	1.8	1.3	.7	.3	.0	.1	3.5	
SE	.3	.0	*	.4	1.8	1.5	.4	.4	.1	.0	3.3	
S	2.7	.3	.7	1.5	3.3	5.3	2.7	.6	.2	.5	11.7	
SW	1.3	.0	.1	.3	1.5	1.9	.8	.2	*	.2	5.2	
W	.2	.1	.1	.2	.3	.5	.1	.1	.0	.1	2.3	
NW	.3	.0	.1	.4	2.0	1.8	.1	.1	.1	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.0	.0	.2	1.0	1.7	.4	.3	.3	.2	4.7	
TOT OBS	66	5	17	45	152	185	70	21	10	11	352	934
TOT PCT	7.1	.5	1.8	4.8	16.3	19.8	7.5	2.2	1.1	1.2	37.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.1	2.3	2.4	2.5	2.5	2.5	2.5	2.5
* OR >9000	4.3	4.7	4.8	5.0	5.0	5.0	5.0	5.0
* OR >3500	9.6	11.8	12.0	12.2	12.2	12.2	12.2	12.2
* OR >2000	21.5	29.3	30.6	30.9	31.4	31.6	31.7	31.7
* OR >1000	28.6	41.9	46.2	46.9	47.6	48.1	48.2	48.2
* OR >600	29.6	45.1	50.5	51.3	52.1	52.7	52.8	52.8
* OR >300	29.9	45.9	51.5	53.0	53.7	54.4	54.5	54.5
* OR >150	30.0	46.0	51.7	53.5	54.3	54.9	55.0	55.0
* OR > 0	30.5	46.7	53.6	55.8	56.8	59.4	61.6	62.2
TOTAL	289	443	509	530	539	564	585	590

TOTAL NUMBER OF OBS: 949 PCT FREQ NH <5/8: 37.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.5	5.6	8.1	5.4	4.9	6.4	8.5	10.4	31.6	6.7	1006

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.0	.0	.1	.1	*	.0	*	.0	.0	.4	
<1/2	NO PCP	.1	.1	.1	.1	2.0	1.0	.1	.3	.0	.8	4.7	
	TOT %	.3	.1	.1	.2	2.2	1.1	.1	.3	.0	.8	5.2	
	PCP	.2	.0	.1	.1	.3	.0	*	*	.0	.0	.7	
1/2<1	NO PCP	.0	.0	.1	.0	.0	.3	.0	.1	.0	.1	.5	
	TOT %	.2	.0	.2	.1	.3	.3	*	.1	.0	.1	1.2	
	PCP	.3	.2	.1	.1	.8	.0	.0	.1	.0	.1	1.6	
1<2	NO PCP	.0	.1	.1	.1	.1	.1	.0	.0	.0	.2	.7	
	TOT %	.3	.3	.2	.2	.8	.1	.0	.1	.0	.3	2.3	
	PCP	.8	.3	.7	.3	1.2	.3	.2	.5	.0	.1	4.6	
2<5	NO PCP	.7	.2	.0	.6	1.6	.4	.1	.4	.0	.3	4.3	
	TOT %	1.6	.4	.7	1.0	2.8	.8	.3	1.0	.0	.4	9.0	
	PCP	1.3	.5	1.0	.3	1.2	.3	.2	.7	.0	.1	5.7	
5<10	NO PCP	2.4	1.8	.7	1.4	4.4	2.6	.7	.5	.0	1.4	15.9	
	TOT %	3.7	2.3	1.7	1.7	5.6	2.9	.9	1.3	.0	1.5	21.6	
	PCP	.0	.1	.1	.2	.2	.1	.0	.0	.0	.0	.6	
10+	NO PCP	8.7	2.8	5.6	4.9	17.5	8.0	2.4	4.1	.0	6.3	60.3	
	TOT %	8.7	2.9	5.7	5.0	17.7	8.1	2.4	4.1	.0	6.3	60.9	
	TOT OBS												1183
	TOT PCT	14.7	6.0	8.7	8.2	29.4	13.2	3.7	6.8	.0	9.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.1	.0	.0	.0	.1	.0	.1	.0	.8	1.1	
<1/2	4-10	.2	*	.1	*	1.0	.6	.1	.2	.0		2.2	
	11-21	.1	.0	.1	.0	1.1	.3	.0	.1	.0		1.7	
	22+	.0	.0	.0	.1	*	.1	.0	.0	.0		.3	
	TOT %	.3	.1	.2	.1	2.2	1.1	.1	.4	.0	.8	5.2	
	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.2	.3	
1/2<1	4-10	.0	.0	.0	.1	.1	.3	.0	.1	.0		.5	
	11-21	.2	.0	.1	.0	*	*	.0	.0	.0		.4	
	22+	.0	.0	.1	.0	.1	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.2	.1	.2	.3	*	.1	.0	.2	1.3	
	0-3	.1	.0	.1	.0	.4	.0	.0	.0	.0	.3	.8	
1<2	4-10	.1	*	.1	.0	.2	.1	.0	.0	.0		.4	
	11-21	.2	.3	.1	.1	.2	.0	.0	.1	.0		.9	
	22+	.1	*	.0	.0	.2	.1	.0	.0	.0		.4	
	TOT %	.4	.3	.2	.1	.9	.2	.0	.1	.0	.3	2.5	
	0-3	.1	.1	*	*	.3	*	.2	.0	.0	.4	1.1	
2<5	4-10	.3	.2	.2	.5	.9	.5	.2	.2	.0		2.8	
	11-21	.9	.3	.4	.4	1.4	.3	.0	.9	.0		4.5	
	22+	.4	.0	.1	*	.2	.0	.0	.1	.0		.8	
	TOT %	1.6	.5	.7	1.0	2.7	.8	.3	1.1	.0	.4	9.1	
	0-3	.1	.1	.1	.1	.3	.3	.0	.2	.0	1.5	2.7	
5<10	4-10	1.2	1.1	.6	.7	1.8	1.6	.5	.3	.0		7.9	
	11-21	1.8	.9	.5	.7	2.7	.8	.3	.5	.0		8.1	
	22+	.3	.1	.3	.2	.8	.2	.0	*	.0		2.0	
	TOT %	3.5	2.2	1.5	1.7	5.6	2.9	.8	1.1	.0	1.5	20.9	
	0-3	.3	.2	.8	.6	.9	.6	.1	.4	.0	6.2	10.0	
10+	4-10	4.0	1.5	3.4	2.4	7.5	4.3	1.3	1.8	.0		26.0	
	11-21	4.1	1.0	1.5	2.0	8.4	2.9	.8	1.6	.0		22.3	
	22+	.4	*	.0	*	1.1	.5	.2	.4	.0		2.6	
	TOT %	8.7	2.7	5.8	5.0	18.0	8.2	2.4	4.1	.0	6.2	61.0	
	TOT OBS												1141
	TOT PCT	14.7	5.8	8.5	8.0	29.6	13.6	3.6	6.9	.0	9.3	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.7	.0	2.5	3.1	16.0	23.0	9.0	1.7	1.4	.8	64.3	35.7	356
06&09	4.5	.5	2.5	3.0	17.3	15.8	5.0	1.5	1.0	1.0	52.0	48.0	202
12&15	10.7	1.1	.7	6.6	14.0	15.8	7.4	2.9	2.2	1.8	63.2	36.8	272
18&21	5.3	.8	.8	7.5	19.5	22.6	6.8	4.5	.0	.8	68.4	31.6	133
TOT	69	5	17	45	156	187	71	23	13	11	597	366	963
PCT	7.2	.5	1.8	4.7	16.2	19.4	7.4	2.4	1.3	1.1	62.0	38.0	100.0

TABLE 11

PERCENT FREQLENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	6.8	1.9	1.6	8.9	21.6	59.1	425
06&09	4.4	.8	1.6	7.2	16.9	69.1	249
12&15	3.8	1.4	4.1	12.6	23.1	54.9	364
18&21	5.7	.5	4.1	7.7	22.7	59.3	194
TOT	65	16	34	117	262	738	1232
PCT	5.3	1.3	2.8	9.5	21.3	59.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.8	11.6	21.0	45.0	34.0	353
06&09	4.5	8.5	18.0	36.5	45.5	200
12&15	10.5	13.5	25.9	39.1	35.0	266
18&21	5.4	7.7	20.8	47.7	31.5	130
TOT	68	104	206	398	345	949
PCT	7.2	11.0	21.7	41.9	36.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.4	.4	.0	.0	.0	2	.8
65/69	.0	.0	.0	.4	2.5	2.1	2.1	.0	17	7.1
60/64	.0	.0	.0	.4	5.0	8.3	21.3	16.7	124	51.7
55/59	.0	.0	.0	1.3	1.3	7.5	12.9	12.1	84	35.0
50/54	.0	.0	.0	.0	.4	1.3	1.3	2.1	12	5.0
45/49	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
TOTAL	0	0	0	6	23	46	91	74	240	100.0
PCT	.0	.0	.0	2.5	9.6	19.2	37.9	30.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.4	.4	.0	.0
.7	.1	1.1	1.4	1.7	1.3	.0	.4	.0	.4
5.1	2.5	6.7	5.4	10.5	7.3	2.1	2.8	.0	1.3
5.1	3.1	6.5	5.9	8.3	2.1	.4	3.1	.0	.4
.0	.4	2.3	1.5	.0	.4	.0	.4	.0	.0
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
10.9	6.1	16.6	14.6	28.5	11.0	2.9	7.2	.0	2.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	81	75	72	63	56	54	50	62.8	441
06&09	83	76	72	63	57	53	43	63.9	252
12&15	79	70	67	61	54	50	48	61.1	372
18&21	75	73	66	59	52	49	49	59.0	201
TOT	83	75	70	62	55	50	43	61.9	1266

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.9	12.1	29.3	29.3	22.4	80	58
06&09	.0	3.3	21.7	10.0	41.7	23.3	81	60
12&15	.0	.0	1.5	19.7	42.4	36.4	86	66
18&21	.0	.0	3.6	17.9	37.5	41.1	87	56
TOT	0	6	23	46	91	74	84	240

AUGUST

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
50.6N 141.7E

TABLE 17

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

AIR-SEA TMP DIF	49 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	# FOG	WD FOG
23/25	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.2
20/22	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	2	.0	.2
17/19	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	4	.1	.3
14/16	.0	.0	.0	.2	.2	.3	.1	.5	.3	.0	16	.0	1.6
11/13	.0	.0	.0	.1	.3	.3	.3	.1	.0	.0	11	.0	1.1
9/10	.0	.0	.1	.2	.3	.8	.5	.3	.0	.0	22	.1	2.1
7/8	.0	.0	.1	.1	.5	1.6	.8	.5	.0	.0	36	.3	3.3
6	.0	.0	.1	.2	.3	1.3	.5	.1	.0	.0	25	.1	2.4
5	.0	.1	.6	1.0	1.6	2.3	.9	.2	.0	.0	67	.9	5.7
4	.0	.1	.2	.7	2.6	3.6	.9	.0	.0	.0	81	.7	7.3
3	.0	.0	.0	.7	3.1	1.9	.3	.1	.0	.0	61	.7	5.4
2	.0	.1	.0	1.3	6.6	2.7	.1	.0	.0	.0	109	1.0	9.8
1	.0	.1	.1	1.9	2.9	1.3	.0	.0	.0	.0	63	.6	5.6
0	.1	.1	.6	3.5	8.1	.9	.1	.0	.0	.0	135	.6	12.8
-1	.0	.0	.3	2.1	4.0	.3	.0	.0	.0	.0	67	1.0	5.6
-2	.0	.0	.5	5.2	4.6	.2	.0	.0	.0	.0	105	.6	9.8
-3	.0	.1	.5	2.2	1.2	.0	.0	.0	.0	.0	40	.3	3.7
-4	.0	.0	.8	3.8	1.2	.0	.0	.0	.0	.0	58	.3	5.5
-5	.0	.1	1.2	2.3	.3	.0	.0	.0	.0	.0	39	.0	3.9
-6	.0	.0	.3	.7	.2	.0	.0	.0	.0	.0	12	.1	1.1
-7/-8	.0	.4	1.3	1.1	.1	.0	.0	.0	.0	.0	29	.2	2.7
-9/-10	.0	1.0	.8	.3	.0	.0	.0	.0	.0	.0	21	.1	2.0
-11/-13	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	1		76		385		46		3	2	1009	77	932
PCT	.1	2.4	7.5	27.4	38.2	17.6	4.6	1.8	.3	.2	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	3.0	.3	.0	.0	.0	3.8
1-2	.0	2.3	3.3	.0	.0	.0	5.7
3-4	.0	.6	3.6	.3	.0	.0	4.6
5-6	.0	.0	1.7	.2	.1	.0	2.0
7	.0	.0	1.0	.5	.0	.0	1.5
8-9	.0	.0	.3	.2	.0	.0	.4
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.9	10.3	1.4	.1	.0	18.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.0	.0	.0	.0	1.3
1-2	.0	1.7	2.4	.0	.0	.0	4.1
3-4	.0	*	1.0	.2	.0	.0	1.3
5-6	.0	.0	.3	.0	*	.0	.3
7	.0	.0	.2	*	.0	.0	.2
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	4.0	.3	*	.0	7.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.2	.0	.0	.0	1.4
1-2	.0	.8	1.9	.0	.0	.0	2.7
3-4	.0	.3	.7	.5	.0	.0	1.5
5-6	.0	.0	.1	.2	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.7	2.9	.6	.0	.0	5.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.2	.0	.0	.0	.8
1-2	.3	1.1	1.1	.0	.0	.0	2.5
3-4	.0	.0	1.6	*	.0	.0	1.7
5-6	.0	*	*	.3	.2	.0	.6
7	.0	.0	.1	*	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	3.0	.4	.2	.0	5.7

PERIOD: (OVER-ALL) 1963-1974

AUGUST

TABLE 18 (CONT)

AREA 0017 TATAR STRAIT N
50.0N 141.7E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.8	.2	.0	.0	.0	4.2
1-2	.3	4.4	5.8	.0	.0	.0	10.5
3-4	.0	1.4	6.2	.3	.0	.0	7.8
5-6	.0	.1	3.6	.7	.0	.0	4.4
7	.0	.2	.9	1.1	.0	.0	2.2
8-9	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	8.9	16.9	2.3	.0	.0	29.6

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.0	.0	.0	.0	2.2
1-2	.1	2.5	1.7	.0	.0	.0	4.3
3-4	.0	.7	1.6	.7	.0	.0	3.0
5-6	.0	.2	.5	.3	.0	.0	1.0
7	.0	.0	.2	.4	.0	.0	.6
8-9	.0	.0	.3	*	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.1	4.3	1.5	.0	.0	11.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.1	1.1	.8	.0	.0	.0	2.0
3-4	.0	.1	.6	.2	.0	.0	.9
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.9	1.7	.2	.0	.0	3.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.5	.2	.0	.0	.0	1.7	
1-2	.2	1.0	1.4	.0	.0	.0	2.5	
3-4	.0	*	.7	.0	.0	.0	.7	
5-6	.0	.2	.6	.0	.0	.0	.8	
7	.0	.0	.4	.2	.0	.0	.6	
8-9	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	*	.0	.0	*	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.7	3.6	.2	.0	.0	6.7	88.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.0	12.0	1.0	.0	.0	.0	27.1	
1-2	1.2	14.9	18.3	.0	.0	.0	34.3	
3-4	.0	3.2	16.1	2.2	.0	.0	21.5	
5-6	.0	.5	6.9	1.7	.3	.0	9.5	
7	.0	.2	2.9	2.2	.0	.0	5.2	
8-9	.0	.0	1.4	.3	.0	.0	1.7	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.2	.2	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.2	30.8	46.7	6.9	.3	.0	100.0	591

PERIOD: (OVER-ALL) 1937-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	10.6	9.3	5.5	2.1	.3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	287	3
6-7	.0	.8	2.1	2.0	1.5	.6	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
8-9	.0	.1	.4	.8	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
10-11	.0	.9	.1	.3	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
12-13	.0	.0	.9	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
>13	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	11.9	11.4	23.3	6.5	3.6	1.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	594	3
TOTAL	124	240	365	155	80	34	6	3	2	2	0	0	0	0	0	0	0	0	0	1011	3
PCT	12.3	23.7	36.1	15.3	7.9	3.4	.6	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	11.7	4.1	1.2	.0	.7	.0	.0	17.0	2.3	.0	.7	.0	.0		.0	80.1
NE	15.7	2.0	5.3	.0	.0	.0	.0	22.0	6.3	.0	.0	.0	.0		.0	71.7
E	8.6	.9	.7	.0	.0	.0	.0	10.2	5.6	.0	.0	.0	.0		.0	84.3
SE	8.8	2.0	2.7	.0	.0	.0	.0	13.5	3.0	.6	1.3	.0	.0		.0	81.6
S	6.7	1.8	.6	.0	.0	.0	.0	9.1	.8	.3	1.8	.0	.3		.0	88.0
SW	3.4	1.5	.8	.0	.0	.0	.0	5.6	2.1	1.2	3.2	.0	.0		.0	87.8
W	5.2	4.9	3.4	.0	.0	.0	.0	13.5	3.4	.0	2.5	.0	.0		.0	80.6
NW	7.5	3.3	.9	.0	.0	.0	.0	11.8	1.6	.0	.0	.0	.9		.0	85.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	4.5	2.2	.0	.0	.0	.0	.0	6.7	2.2	.0	1.1	.0	.0		.0	89.9
TOT PCT	7.8	2.4	1.5	.0	.1	.0	.0	11.6	2.6	.3	1.3	.0	.2		.0	84.1
TOT OBS:	1270															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00603	7.3	2.2	1.3	.0	.0	.0	.0	10.6	1.5	.2	1.8	.0	.4		.0	85.7
06609	6.3	1.6	1.2	.0	.0	.0	.0	9.1	4.0	.0	2.4	.0	.0		.0	84.6
12615	6.9	1.8	2.7	.0	.3	.0	.0	11.4	3.0	.6	.9	.0	.0		.0	84.1
18621	10.3	3.8	1.1	.0	.0	.0	.0	15.3	3.1	.4	.8	.0	.0		.0	80.5
TOT PCT	7.6	2.3	1.6	.0	.1	.0	.0	11.4	2.7	.3	1.5	.0	.2		.0	84.0
TOT OBS:	1302															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	4.1	4.6	2.7	.1	.0		12.0	14.9	10.6	22.7	14.8	22.6	7.6	17.3	8.9	20.0
NE	.7	3.9	3.0	.7	.0	.0		8.2	10.8	7.3	10.6	8.0	14.2	8.5	3.8	7.0	11.8
E	.5	4.8	2.1	.6	.0	.0		7.9	9.8	8.9	8.3	4.6	4.7	8.7	19.2	6.1	12.7
SE	1.2	6.1	4.1	1.0	.0	.0		12.4	10.6	9.1	8.0	7.5	14.2	12.8	12.5	21.6	19.1
S	1.2	6.9	12.7	3.5	.2	.0		24.5	14.3	25.3	14.8	35.5	8.0	25.1	18.3	23.2	13.6
SW	1.0	5.6	4.7	1.2	.1	.0		12.5	11.7	15.7	16.3	12.6	8.5	11.1	9.6	10.5	7.3
W	.5	2.1	3.5	.6	.1	.0		6.7	13.4	7.7	4.9	3.3	5.7	7.4	5.8	7.2	10.0
NW	.5	2.6	4.9	1.3	.1	.0		9.4	14.4	5.4	12.9	10.7	16.5	9.2	13.5	11.2	5.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.4							6.4	.0	8.9	1.5	3.1	5.7	9.6	.0	4.4	.0
TOT OBS	156	452	496	146	7	0	1257		12.0	369	66	191	53	292	26	205	55
TOT PCT	12.4	36.0	39.5	11.6	.6	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	5.0	4.0	.7	.1		12.0	14.9	12.5	16.5	8.4	11.3
NE	2.5	4.6	.7	.4	.0		8.2	10.8	7.8	9.3	8.1	8.0
E	2.7	4.4	.8	.1	.0		7.9	9.8	8.8	4.6	9.6	7.5
SE	4.1	6.3	1.7	.3	.0		12.4	10.6	9.0	8.9	12.7	21.1
S	4.0	12.4	7.0	1.0	.1		24.5	14.3	23.7	29.5	24.5	21.2
SW	3.8	5.9	2.6	.3	.0		12.5	11.7	15.8	11.7	11.0	9.8
W	1.7	3.1	1.5	.4	.0		6.7	13.4	7.2	3.8	7.2	7.8
NW	1.6	4.4	2.8	.5	.0		9.4	14.4	7.4	12.0	9.6	10.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.4						6.4	.0	7.8	3.7	8.8	3.5
TOT OBS	363	581	264	47	2	1257		12.0	435	244	318	260
TOT PCT	28.9	46.2	21.0	3.7	.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.8	6.7	34.7	40.7	9.2	.9	.0	11.6	100.0	435
06&09	3.7	4.9	35.2	38.5	17.6	.0	.0	13.0	100.0	244
12&15	8.8	4.4	38.1	37.4	10.7	.6	.0	11.5	100.0	318
18&21	3.5	8.1	36.2	40.8	11.2	.4	.0	12.3	100.0	260
TOT	80	76	452	496	146	7	0	12.0		1257
PCT	6.4	6.0	36.0	39.5	11.6	.6	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.8	4.9	3.6		6.0
NE	.8	.4	2.2	3.5		6.4
E	1.7	1.2	2.2	3.2		5.3
SE	3.4	1.0	3.3	3.9		4.9
S	9.5	2.4	7.5	8.1		4.6
SW	5.7	1.3	4.6	2.4		4.0
W	2.0	.7	1.7	2.1		4.9
NW	2.3	1.0	2.1	2.1		4.7
VAR	.0	.0	.0	.0		.0
CALM	2.5	1.2	2.2	1.3		4.0
TOT OBS	278	94	294	289	955	4.9
TOT PCT	29.1	9.8	30.8	30.3	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.3	2.7	3.0	1.0	.1	.1	.0	3.2	
NE	.0	.0	.0	.1	1.2	2.1	.2	.7	.0	.0	2.6	
E	.2	.0	.0	.0	1.3	1.9	.5	.3	.1	.1	4.0	
SE	.3	.0	.4	.2	1.8	2.4	.4	.0	.1	.2	5.8	
S	.3	.1	.2	.7	3.1	3.3	1.8	.9	.1	.7	16.3	
SW	.2	.0	.3	.2	1.9	2.1	.7	.7	.0	.1	7.7	
W	.0	.0	.0	.0	1.3	1.4	.3	.0	.0	.1	3.5	
NW	.3	.0	.1	.2	1.0	1.5	.6	.0	.1	*	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.1	.0	.0	.1	1.0	.6	.6	.1	.0	.2	4.3	
TOT OBS	14	1	11	18	146	174	58	26	5	14	488	955
TOT PCT	1.5	.1	1.2	1.9	15.3	18.2	6.1	2.7	.5	1.5	51.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
▪ OR >5000	3.6	4.7	4.7	4.7	4.7	4.7	4.7	4.7
▪ OR >3500	8.4	10.5	10.7	10.7	10.7	10.7	10.7	10.7
▪ OR >2000	19.8	26.9	28.7	28.7	28.9	28.9	28.9	28.9
▪ OR >1000	27.4	40.6	43.7	44.0	44.3	44.5	44.5	44.5
▪ OR >600	28.0	42.1	45.5	45.9	46.2	46.4	46.4	46.4
▪ OR >300	28.9	43.2	46.8	47.1	47.4	47.6	47.6	47.6
▪ OR >150	28.9	43.2	46.9	47.2	47.5	47.7	47.7	47.7
▪ OR > 0	29.0	43.9	47.6	48.0	48.4	48.6	48.9	49.1
TOTAL	283	429	465	469	473	475	478	480

TOTAL NUMBER OF OBS: 977 PCT FREQ NH <5/8: 50.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.2	8.3	10.3	4.7	4.5	6.0	11.4	5.9	26.4	1.3	1042

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.1	.1	.0	*	*	.0	.0	.0	.2	
<1/2	NO PCP	.1	.0	.0	.1	.2	.1	.0	*	.0	.1	.5	
	TOT %	.1	.0	.1	.2	.2	.1	*	*	.0	.1	.7	
	PCP	.2	.0	*	.1	.0	.0	.1	.1	.0	.0	.5	
1/2<1	NO PCP	.1	.0	.0	.0	.1	*	.0	.0	.0	.0	.2	
	TOT %	.2	.0	*	.1	.1	*	.1	.1	.0	.0	.6	
	PCP	.1	.0	.2	.1	.1	.0	.0	.0	.0	.0	.4	
1<2	NO PCP	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.2	.1	.2	.0	.0	.0	.0	.0	.6	
	PCP	.4	.3	*	.4	.8	*	.3	.2	.0	.2	2.8	
2<5	NO PCP	.3	.2	.3	.3	.3	.6	.0	.1	.0	.0	2.0	
	TOT %	.7	.4	.3	.7	1.2	.6	.3	.3	.0	.2	4.8	
	PCP	1.1	1.2	.4	.9	1.0	.5	.3	.6	.0	.2	6.1	
5<10	NO PCP	1.7	.7	1.5	2.1	3.2	2.1	.9	1.0	.0	.8	13.8	
	TOT %	2.8	1.8	1.9	2.9	4.2	2.6	1.2	1.6	.0	.9	19.9	
	PCP	.2	.3	.2	.2	.3	.2	.1	*	.0	.1	1.6	
10+	NO PCP	7.8	5.1	5.9	8.4	18.5	9.5	4.7	6.3	.0	5.7	71.7	
	TOT %	8.0	5.4	6.0	8.5	18.8	9.7	4.8	6.4	.0	5.8	73.3	
	TOT OBS												1269
	TOT PCT	12.0	7.8	8.5	12.5	24.5	12.9	6.4	8.4	.0	7.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.1	.2	.2	.0	.0	.1	.5	
<1/2	4-10	.1	.0	.1	.1	.0	.1	.1	.4	.0		.9	
	11-21	.1	.0	.0	.0	.0	*	.2	.4	.0		.6	
	22+	.0	.0	.0	.1	.0	.0	.0	.2	.0		.3	
	TOT %	.1	.0	.1	.2	.1	.3	.5	1.1	.0	.1	2.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0		.2	
	11-21	.1	.0	.0	.1	.0	.0	.1	*	.0		.2	
	22+	.2	.0	*	*	.1	*	.0	.0	.0		.4	
	TOT %	.4	.0	*	.1	.1	*	.1	.1	.0	.0	.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	*	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.1	.1	.1	.0	.0	.0	.0		.2	
	22+	.1	.1	.1	.0	.1	.0	.0	.0	.0		.3	
	TOT %	.1	.3	.2	.1	.2	.0	.0	.0	.0	.0	.8	
	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.3	
2<5	4-10	.2	.2	.2	.4	.4	.3	.2	.1	.0		1.9	
	11-21	.3	.2	.0	.2	.6	.2	.1	.2	.0		2.0	
	22+	.3	*	.2	.1	.2	.0	.1	.1	.0		1.1	
	TOT %	.8	.4	.3	.8	1.3	.6	.4	.4	.0	.2	5.4	
	0-3	.0	.1	.1	.2	.1	.0	.1	.1	.0	1.0	1.6	
5<10	4-10	.8	.6	.8	1.2	1.0	1.1	.3	.3	.0		6.1	
	11-21	1.3	1.0	.8	1.1	1.7	.6	.8	1.0	.0		8.3	
	22+	.8	.2	.1	.3	1.3	.5	.1	.2	.0		3.5	
	TOT %	2.8	1.9	1.7	2.8	4.1	2.2	1.3	1.6	.0	1.0	19.5	
	0-3	.4	.6	.4	1.0	1.1	.8	.2	.4	.0	5.2	10.2	
10+	4-10	3.0	2.8	3.8	4.5	5.5	4.0	1.6	1.5	.0		26.6	
	11-21	2.8	1.7	1.3	2.5	10.0	3.6	2.4	3.4	.0		27.7	
	22+	1.4	.4	.2	.5	1.9	.9	.4	.9	.0		6.6	
	TOT %	7.6	5.5	5.7	8.4	18.5	9.3	4.7	6.2	.0	5.2	71.2	
	TOT OBS												1231
	TOT PCT	12.0	8.1	8.0	12.5	24.2	12.4	6.8	9.5	.0	6.5	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.1	.0	.8	2.7	14.8	21.5	5.1	1.9	.5	2.7	51.1	48.9	372
06&09	.5	.0	1.5	1.0	16.5	18.9	10.2	1.0	.5	.0	50.0	50.0	206
12&15	2.4	.4	1.2	.0	13.4	14.6	4.0	3.6	.8	1.6	42.1	57.9	247
18&21	1.8	.0	1.8	3.6	19.6	13.7	5.4	4.8	.0	.6	51.2	48.8	168
TOT	14	1	12	18	155	178	59	26	5	15	483	510	993
PCT	1.4	.1	1.2	1.8	15.6	17.9	5.9	2.6	.5	1.5	48.6	51.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.7	.4	.8	3.5	16.0	77.8	463
06&09	2.7	.4	.8	5.3	17.6	73.3	262
12&15	1.2	1.2	.9	5.6	25.4	65.7	338
18&21	4.1	1.1	.7	8.1	21.8	64.2	271
TOT	30	10	10	71	265	948	1334
PCT	2.2	.7	.7	5.3	19.9	71.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.1	1.9	7.6	44.0	48.4	368
06&09	.5	2.0	7.9	44.3	47.8	203
12&15	2.5	4.9	9.5	34.6	56.0	243
18&21	1.8	5.5	16.0	37.4	46.6	163
TOT	14	32	93	397	487	977
PCT	1.4	3.3	9.5	40.6	49.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.3	.0	.9	.3	.0	5	1.4
60/64	.0	.3	.0	.9	1.4	5.5	8.6	4.6	74	21.3
55/59	.0	.6	.6	.9	1.7	7.8	20.7	9.5	145	41.7
50/54	.0	.0	.3	1.1	2.0	4.9	9.8	5.2	81	23.3
45/49	.0	.0	.0	.3	4.0	1.7	1.1	1.7	31	8.9
40/44	.0	.0	.0	.0	1.7	.6	.3	.9	12	3.4
TOTAL	0	3	3	12	38	74	142	76	348	100.0
PCT	.0	.9	.9	3.4	10.9	21.3	40.8	21.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.3	.0	.0	.0	.3	.6	.0	.0	.0	.3
	1.4	.0	.3	2.9	12.5	2.4	.6	.6	.0	.6
	5.0	3.7	2.7	7.5	14.4	6.3	1.3	.4	.0	.6
	3.7	6.3	3.8	1.4	2.8	1.2	1.1	2.2	.0	.9
	.7	1.1	1.4	.9	1.1	1.0	.9	1.7	.0	.0
	.3	.0	.5	.4	.0	.0	.6	1.7	.0	.3
	11.4	11.1	8.6	13.0	31.0	11.5	4.5	6.5	.0	2.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	73	66	57	48	44	39	57.1	472
06&09	77	74	68	58	45	43	41	57.6	264
12&15	73	67	63	57	46	39	33	55.8	341
18&21	75	66	61	54	43	37	31	53.7	273
TOT	77	72	65	57	46	41	31	56.2	1350

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	4.4	10.0	28.9	46.7	10.0	79	90
06&09	.0	10.3	12.6	19.5	37.9	19.5	79	87
12&15	.0	2.3	10.3	20.7	41.4	25.3	82	87
18&21	.0	3.6	10.7	15.5	36.9	33.3	84	84
TOT	0	18	38	74	142	76	81	348

SEPTEMBER

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
50.9N 141.7E

TABLE 17

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

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	3	.0	.3
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0	2	.0	.2
14/16	.0	.0	.0	.1	.2	.0	.0	.1	.2	.0	.0	6	.0	.5
11/13	.0	.0	.1	.1	.0	.2	.1	.4	.1	.0	.2	12	.1	1.0
9/10	.0	.0	.1	.1	.1	.3	.3	.3	.3	.1	.0	16	.0	1.4
7/8	.0	.0	.1	.1	.2	.7	.8	.3	.2	.0	.0	26	.1	2.2
6	.0	.0	.0	.0	.1	.5	.4	.2	.0	.0	.0	14	.1	1.2
5	.0	.0	.0	.4	.8	.5	1.1	.4	.1	.0	.0	38	.1	3.3
4	.0	.1	.2	.3	.8	1.3	2.3	.7	.0	.0	.0	63	.1	5.6
3	.0	.0	.0	.1	.4	1.5	.8	.2	.0	.0	.0	34	.1	3.0
2	.2	.1	.3	.4	1.0	3.9	2.8	.4	.1	.0	.0	101	.0	9.1
1	.0	.0	.0	.2	1.2	2.5	.9	.0	.0	.0	.0	53	.0	4.8
0	.1	.3	.3	1.1	2.5	5.5	3.9	.1	.0	.0	.0	156	.3	13.7
-1	.0	.0	.0	.6	1.8	1.7	.7	.1	.0	.0	.0	55	.2	4.7
-2	.0	.1	.6	1.9	4.6	5.6	.8	.2	.0	.0	.0	153	.0	13.7
-3	.0	.0	.3	.7	1.6	1.4	.3	.0	.0	.0	.0	48	.3	4.0
-4	.0	.0	.5	1.3	3.5	2.3	.5	.0	.0	.0	.0	91	.1	8.1
-5	.0	.0	.8	2.3	3.0	1.3	.0	.0	.0	.0	.0	82	.2	7.2
-6	.0	.1	.3	1.1	.8	.3	.0	.0	.0	.0	.0	28	.1	2.4
-7/-8	.0	.2	1.3	2.3	.8	.4	.0	.0	.0	.0	.0	58	.1	5.1
-9/-10	.2	.4	1.6	1.2	.2	.2	.0	.0	.0	.0	.0	41	.0	3.7
-11/-13	.2	.8	.4	.6	.1	.1	.0	.0	.0	.0	.0	24	.0	2.2
-14/-16	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	6	.0	.5
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	9	24	84	166	264	336	176	36	10	4	5	1114	19	1095
PCT	.8	2.2	7.5	14.9	23.7	30.2	15.8	3.2	.9	.4	.4	100.0	1.7	98.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.8	1.1	.0	.0	.0	2.0
3-4	.0	.4	2.1	.3	.0	.0	2.7
5-6	.0	.1	1.0	1.7	.0	.0	2.8
7	.0	.0	.1	.5	.0	.0	.6
8-9	.0	.0	.2	.3	.0	.0	.5
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	4.7	3.3	.0	.0	10.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.1	.0	.0	.0	.0	1.6
1-2	.0	.7	1.0	.0	.0	.0	1.7
3-4	.0	.4	.0	.6	.0	.0	.9
5-6	.0	.2	*	.0	.0	.0	.3
7	.0	.2	.2	.2	.0	.0	.6
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.5	1.2	.8	.0	.0	5.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.8	.2	.0	.0	.0	2.1
1-2	.0	2.3	1.2	.0	.0	.0	3.5
3-4	.0	.5	.2	.2	.0	.0	.9
5-6	.0	.0	.1	.1	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.6	1.7	.4	.0	.0	6.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.4	.0	.0	.0	.0	3.8
1-2	.0	1.9	2.2	.0	.0	.0	4.1
3-4	.0	.3	.7	.0	.0	.0	1.0
5-6	.0	.2	.4	.5	.0	.0	1.1
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	*	.0	.0	.0	*
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.8	3.4	.8	.0	.0	10.4

PERIOD: (OVER-ALL) 1963-1974

SEPTEMBER

AREA 001T TATAR STRAIT N
50.5N 141.7E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.2	.4	.0	.0	.0	3.8	.4	2.4	.2	.0	.0	.0	3.0
1-2	.2	2.8	4.0	.6	.0	.0	7.0	.0	2.0	1.2	.0	.0	.0	3.2
3-4	.0	1.6	4.7	.3	.0	.0	6.6	.0	.6	2.8	.4	.0	.0	3.7
5-6	.0	.3	2.3	1.1	.0	.0	3.7	.0	.2	.8	.4	.0	.0	1.4
7	.0	.0	.2	1.2	.0	.0	1.4	.0	.4	.3	.7	.2	.0	1.5
8-9	.0	.0	.3	.3	.1	.0	.7	.0	.0	.2	.4	*	.0	.6
10-11	.0	.2	.0	.5	.2	.0	.9	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	7.1	11.8	4.1	.5	.0	24.9	.4	5.5	5.5	2.2	.2	.0	13.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	.6	.1	.0	.0	.0	1.3	.3	1.1	.0	.0	.0	.0	1.4	
1-2	.0	1.2	1.7	.0	.0	.0	2.9	.0	.9	2.7	.0	.0	.0	3.6	
3-4	.0	.0	1.8	.5	.0	.0	2.3	.0	.2	2.4	.2	.0	.0	2.8	
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.2	1.7	.2	.0	.0	2.1	
7	.0	.0	.6	.3	.1	.0	1.0	.0	.0	.4	.6	*	.0	1.0	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.2	.0	.0	.4	
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	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	1.8	4.9	1.0	.1	.0	8.5	.3	2.3	7.3	1.4	*	.0	11.3	91.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.3	13.7	.9	.0	.0	.0	26.9	
1-2	.2	12.7	15.1	.0	.0	.0	28.0	
3-4	.0	3.9	14.6	2.5	.0	.0	21.0	
5-6	.0	1.2	7.0	4.0	.0	.0	12.3	
7	.0	.5	1.8	3.7	.4	.0	6.3	
8-9	.0	.0	.9	1.6	.2	.0	2.6	
10-11	.0	.2	.2	1.1	.2	.0	1.6	
12	.0	.0	.0	.7	.0	.0	.7	
13-16	.0	.0	.0	.4	.2	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								568
TOT PCT	12.5	32.2	40.5	13.9	.9	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	7.9	9.5	7.9	2.8	.4	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	4
6-7	.0	1.3	1.4	1.2	1.5	.9	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	5
8-9	.0	.1	.1	.8	.5	.5	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
10-11	.0	.9	.0	.2	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
12-13	.0	.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	3
>13	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	6	14
INDET	11.6	8.9	20.0	10.4	5.5	1.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	619	3
TOTAL	130	202	332	218	111	37	14	6	4	0	0	1	0	1	0	0	0	0	0	1056	4
PCT	12.3	19.1	31.4	20.6	10.5	3.5	1.3	.6	.4	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.2	1.1	2.0	.0	3.6	.0	.0	14.4	3.0	.0	.0	.0	.9	.0	.0	81.0
NE	15.3	7.8	.0	.0	4.2	.0	.0	23.1	5.9	.0	2.6	.0	.0	.0	.0	68.4
E	9.2	.0	.0	.0	.0	.0	.0	9.2	3.2	.0	3.7	.0	.0	.0	.0	83.9
SE	12.1	1.6	3.1	.0	.0	.0	.0	16.8	.0	.0	6.3	.0	.0	.0	.0	77.0
S	3.6	.6	.6	.0	.4	.0	.0	5.2	.0	.0	6.9	.0	.0	.0	.0	87.9
SW	3.4	1.9	.0	.0	1.2	.0	.0	6.5	1.0	.0	4.8	.0	1.0	.0	.0	86.7
W	4.4	.8	.0	.0	.8	.0	.0	6.1	.8	.0	4.4	.0	.0	.0	.0	88.6
NW	10.7	1.5	3.2	.0	3.6	.0	.5	18.0	2.6	.0	2.4	.0	.1	.0	.0	76.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9	2.9	.0	.0	.0	.0	.0	5.7	.0	.0	2.9	.0	2.9	.0	.0	88.6
TOT PCT	7.6	1.7	1.3	.0	2.0	.0	.1	12.0	1.9	.0	3.6	.0	.4	.0	.0	82.2
TOT OBS:	1010															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.4	2.9	1.6	.0	2.1	.0	.0	12.9	2.1	.0	6.3	.0	.5	.0	.0	78.1
06&09	6.9	.9	.9	.0	1.4	.0	.5	10.1	1.4	.0	4.1	.0	.0	.0	.0	84.4
12&15	9.7	1.7	.3	.0	3.1	.0	.0	14.2	2.4	.0	1.7	.0	.7	.0	.0	81.0
18&21	6.5	1.2	2.4	.0	.6	.0	.0	10.7	1.2	.0	1.2	.0	.0	.0	.0	87.0
TOT PCT	7.8	1.9	1.2	.0	2.0	.0	<.1	12.3	1.9	.0	3.8	.0	.4	.0	.0	81.6
TOT OBS:	1055															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	5.0	8.6	3.4	.5	.1		18.1	16.1	16.0	26.7	22.5	20.4	15.0	17.7	16.9	31.4
NE	.3	2.5	4.3	.5	*	.0		7.6	13.1	5.7	1.7	6.4	.0	10.9	5.2	9.1	5.7
E	.3	2.4	2.0	.4	.0	.0		5.1	11.6	4.8	3.3	3.3	.0	5.1	6.3	8.0	11.4
SE	.1	3.2	2.4	.3	.1	.1		6.2	12.6	7.4	.0	2.8	7.4	6.6	2.1	10.0	2.9
S	.4	5.0	8.8	2.6	.7	.0		17.6	15.6	15.8	3.3	19.3	15.7	20.5	13.5	21.2	8.6
SW	.6	3.6	4.9	1.3	.2	.0		10.7	13.8	11.8	18.3	12.4	10.2	11.3	7.3	6.1	2.9
W	.3	4.5	5.6	1.5	.0	.0		11.8	13.5	11.5	15.0	9.6	11.1	12.9	14.6	12.3	12.9
NW	.3	7.0	8.6	2.7	1.0	.0		19.7	15.3	21.3	25.0	19.6	35.2	16.6	33.3	13.4	24.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0	4.7	6.7	4.1	.0	1.3	.0	3.0	.0
TOT OBS	56	319	432	123	25	2	957		14.1	300	30	172	27	237	24	132	35
TOT PCT	5.9	33.3	45.1	12.9	2.6	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	6.5	7.1	1.6	.1		18.1	16.1	17.0	22.2	15.2	19.9
NE	1.3	4.0	2.3	*	.0		7.6	13.1	6.2	5.5	10.3	8.4
E	1.8	1.8	1.3	.2	.0		5.1	11.6	4.6	2.9	5.2	8.7
SE	1.4	3.6	.9	.2	.1		6.2	12.6	6.7	3.4	6.2	8.5
S	2.8	7.3	5.9	1.4	.2		17.6	15.6	14.7	18.8	19.8	18.6
SW	2.1	5.3	2.5	.8	.0		10.7	13.8	12.4	12.1	10.9	5.4
W	1.9	6.2	3.1	.6	.0		11.8	13.5	11.8	9.8	13.0	12.4
NW	2.9	9.1	5.7	1.9	.1		19.7	15.3	21.7	21.7	18.1	15.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	4.8	3.5	1.1	2.4
TOT OBS	193	420	275	64	5	957		14.1	330	199	261	167
TOT PCT	20.2	43.9	28.7	6.7	.5		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.8	3.3	33.3	43.6	13.3	1.2	.3	13.5	100.0	330
06&09	3.5	1.5	31.2	47.2	14.6	1.5	.5	14.6	100.0	199
12&15	1.1	3.1	34.5	45.6	10.7	5.0	.0	14.7	100.0	261
18&21	2.4	2.4	34.1	44.9	13.2	3.0	.0	13.8	100.0	167
TOT	3(	26	319	432	123	25	2	14.1		957
PCT	3..	2.7	33.3	45.1	12.9	2.6	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.0	1.3	5.3	7.0		5.5
NE	1.2	.4	2.1	3.5		6.1
E	1.0	.4	1.9	1.6		5.3
SE	2.8	.5	2.0	1.9		4.3
S	8.0	1.7	5.1	3.6		3.9
SW	4.4	1.1	3.2	1.6		3.8
W	3.8	1.1	3.4	3.4		4.6
NW	4.4	2.5	6.1	5.7		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.5	1.3	.4		3.4
TOT OBS	238	71	229	217	755	4.7
TOT PCT	31.5	9.4	30.3	28.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.1	.8	1.0	4.1	3.9	.7	.4	.0	.1	6.1	
NE	.2	.0	.1	.6	1.3	1.7	.8	.3	.0	.2	2.3	
E	.4	.0	.0	.1	.3	.5	.3	.5	.0	.3	2.5	
SE	.0	.0	.0	.5	.4	1.3	.6	.3	.1	.0	3.8	
S	.2	.0	.0	.0	1.5	2.6	1.3	.6	.5	.1	11.6	
SW	*	.0	.0	.3	.6	1.5	.5	.1	.3	.0	6.9	
W	.1	.0	.3	.3	1.1	2.2	.1	.1	.3	.1	7.1	
NW	.5	.1	.1	1.2	3.0	3.5	1.1	.8	.0	.1	8.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.4	.9	.0	.0	.1	.0	2.5	
TOT OBS	14	2	10	31	95	138	40	24	10	7	384	755
TOT PCT	1.9	.3	1.3	4.1	12.6	18.3	5.3	3.2	1.3	.9	50.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.9	2.2	2.3	2.3	2.3	2.3	2.3	2.3
* OR >5000	4.6	5.1	5.2	5.2	5.2	5.2	5.2	5.2
* OR >3500	8.4	9.7	10.3	10.4	10.4	10.4	10.4	10.4
* OR >2000	20.1	26.4	28.2	28.7	28.7	28.7	28.7	28.7
* OR >1000	25.8	35.8	40.0	40.8	41.3	41.3	41.3	41.4
* OR >600	26.6	38.0	43.6	44.7	45.4	45.4	45.4	45.5
* OR >300	26.9	39.0	44.9	46.1	46.8	46.8	46.8	46.9
* OR >150	27.2	39.3	45.1	46.4	47.0	47.0	47.0	47.1
* OR > 0	27.3	40.0	46.8	48.0	49.0	49.0	49.2	49.3
TOTAL	215	315	368	378	386	386	387	388

TOTAL NUMBER OF OBS: 787 PCT FREQ NH <5/8: 50.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
25.0	6.0	8.7	5.2	4.6	6.9	8.6	9.0	23.9	2.0	840

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.4	
<1/2	NO PCP	.0	.1	.0	.1	.2	.0	.1	*	.0	.0	.5	
	TOT %	.0	.1	.0	.2	.2	.0	.2	.2	.0	.0	.9	
	PCP	.1	.0	.1	.1	.2	*	.1	.3	.0	.0	.9	
1/2<1	NO PCP	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.1	.1	.4	.1	.1	.3	.0	.0	1.2	
	PCP	.3	*	.0	.0	.3	.0	.0	.2	.0	0	.8	
1<2	NO PCP	.2	.1	.0	.1	.0	.1	.2	.0	.0	.0	.7	
	TOT %	.4	.1	.0	.1	.3	.1	.2	.2	.0	.0	1.5	
	PCP	1.0	1.2	.1	.5	.2	*	.3	1.9	.0	.0	5.3	
2<5	NO PCP	.5	.4	.3	.1	.7	.4	.4	.6	.0	.0	3.4	
	TOT %	1.4	1.6	.4	.7	.9	.4	.7	2.6	.0	.0	8.7	
	PCP	1.2	.5	.3	.2	.2	.6	.3	.7	.0	.2	4.2	
5<10	NO PCP	3.8	1.1	.5	.9	3.1	1.5	1.5	2.6	.0	.4	15.5	
	TOT %	5.0	1.7	.8	1.2	3.3	2.1	1.8	3.4	.0	.6	19.8	
	PCP	.2	.0	.0	.1	.0	.1	.0	.1	.0	.0	.5	
10+	NO PCP	11.5	4.1	4.1	4.0	12.0	7.5	8.9	12.5	.0	2.9	67.5	
	TOT %	11.7	4.1	4.1	4.1	12.0	7.6	8.9	12.7	.0	2.9	68.0	
	TOT OBS												1012
	TOT PCT	18.7	7.6	5.4	6.3	17.1	10.3	11.8	19.3	.0	3.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.1	.1	.1	.0	.1	.1	.0		.5	
	11-21	.0	.1	.0	.0	.3	.1	.0	.0	.0		.4	
	22+	.0	.0	.0	.0	.0	.0	.1	.1	.0		.2	
	TOT %	.0	.1	.1	.1	.4	.1	.2	.2	.0	.0	1.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.1	.0	.2	.0	.1	.0		.4	
	11-21	.1	.0	.1	.0	.3	*	.1	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0		.3	
	TOT %	.1	.0	.1	.1	.3	.2	.1	.4	.0	.0	1.4	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	.0	.1	.0	.0	.1	.1	.0		.3	
	11-21	.2	.1	.0	.0	.1	.1	.1	.1	.0		.6	
	22+	.3	.1	.0	.0	.2	.1	.1	.0	.0		.9	
	TOT %	.6	.2	.0	.1	.4	.2	.3	.2	.0	.0	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.5	.6	.1	.3	.3	.3	.3	.8	.0		3.2	
	11-21	.4	1.0	.2	.2	.5	.2	.4	.9	.0		3.7	
	22+	1.0	.2	.0	.1	.2	.0	1.0	.0	.0		2.4	
	TOT %	1.8	1.7	.3	.6	1.0	.5	.7	2.7	.0	.0	9.4	
	0-3	.1	.2	.2	.0	.0	.2	.0	.1	.0	.4	1.2	
5<10	4-10	1.0	.4	.1	.6	.8	.6	.6	1.3	.0		5.4	
	11-21	2.3	.9	.3	.7	2.1	1.0	.7	1.3	.0		9.3	
	22+	1.3	.1	.1	.0	.4	.2	.3	.8	.0		3.3	
	TOT %	4.8	1.6	.7	1.3	3.3	2.0	1.6	3.5	.0	.4	19.2	
	0-3	.3	.1	.1	.1	.2	.3	.3	.3	.0	2.6	4.3	
10+	4-10	3.5	1.5	2.2	2.0	3.9	2.6	3.2	4.5	.0		23.3	
	11-21	5.6	2.3	1.4	1.6	5.6	3.6	4.4	6.0	.0		30.7	
	22+	1.5	.2	.3	.3	2.6	1.2	1.0	1.6	.0		8.7	
	TOT %	10.9	4.2	4.0	4.0	12.3	7.8	8.8	12.4	.0	2.6	67.0	
	TOT OBS												939
	TOT PCT	18.2	7.7	5.2	6.2	17.6	10.7	11.8	19.5	.0	3.0	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.2	.0	1.6	5.7	13.5	18.2	6.0	2.2	1.9	.3	51.6	48.4	318
06&09	.6	.0	1.1	3.4	12.3	19.0	3.9	2.8	.6	1.7	45.3	54.7	179
12&15	4.1	.5	1.0	3.0	10.7	18.3	4.1	3.0	1.0	.0	45.7	54.3	197
18&21	.9	.9	1.8	1.8	13.2	15.8	6.1	5.3	1.8	2.6	50.0	50.0	114
TOT	17	2	11	32	101	146	41	24	11	7	392	416	808
PCT	2.1	.2	1.4	4.0	12.5	18.1	5.1	3.0	1.4	.9	48.5	51.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.8	1.3	1.0	11.5	18.1	67.3	382
06&09	1.4	1.4	1.4	8.1	15.8	71.9	221
12&15	.3	1.0	3.4	10.8	22.7	61.7	295
18&21	2.8	2.3	1.1	6.8	22.2	64.8	176
TOT	12	15	19	106	210	712	1074
PCT	1.1	1.4	1.8	9.9	19.6	66.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.6	5.4	17.3	37.4	45.4	313
06&09	1.2	2.9	12.9	34.5	52.6	171
12&15	4.2	7.3	17.3	30.9	51.8	191
18&21	.9	5.4	10.7	42.0	47.3	112
TOT	19	42	121	282	384	787
PCT	2.4	5.3	15.4	35.8	48.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	1.0	.0	1.6	2.6	1.6	2.6	18	9.4
50/54	.0	.0	1.0	1.0	1.6	4.2	5.2	2.6	30	15.6
45/49	.0	.0	1.0	1.6	4.7	4.2	8.9	2.6	44	22.9
40/44	.0	.0	.5	1.6	5.7	6.3	8.3	6.3	55	28.6
35/39	.0	.0	.0	2.1	4.2	3.6	6.3	5.2	41	21.4
30/34	.0	.0	.0	.5	.0	.0	.0	1.6	4	2.1
TOTAL	0	0	7	13	34	40	58	40	192	100.0
PCT	.0	.0	3.6	6.8	17.7	20.8	30.2	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	1.0	6.1	1.7	.5	.0	.0	.0
.0	.5	1.6	2.2	6.0	2.7	.0	2.1	.0	.5
3.0	3.6	2.6	1.7	3.5	1.6	1.6	4.3	.0	1.0
3.4	2.9	1.4	1.6	5.1	1.6	5.2	7.0	.0	.5
3.9	1.6	2.6	.7	1.4	1.0	6.9	2.7	.0	.5
.0	.1	.4	.0	1.0	.0	.5	.0	.0	.0
10.3	8.7	8.6	7.2	23.2	8.6	14.7	16.1	.0	2.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	62	61	56	44	34	30	24	44.4	385
06&09	59	58	56	45	34	26	16	45.5	220
12&15	59	58	55	43	34	29	16	43.5	293
18&21	56	55	54	44	34	26	23	43.7	177
TOT	62	58	55	44	34	28	16	44.3	1075

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	12.7	30.2	19.0	22.2	15.9	75	63
06&09	.0	12.2	18.4	24.5	22.4	22.4	76	49
12&15	.0	10.6	8.5	19.1	34.0	27.7	81	47
18&21	.0	10.5	5.3	18.4	44.7	21.1	80	38
TOT	0	23	34	40	58	42	78	197

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1872-1974

AREA 0017 TATAR STRAIT N
50.5N 141.5E

TABLE 17

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

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0	3	.1	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.2
9/10	.0	.0	.0	.0	.1	.2	.1	.3	.1	.3	.0	11	.2	1.0
7/8	.0	.0	.0	.0	.0	.4	.5	.1	.0	.6	.0	16	.2	1.5
6	.0	.0	.0	.0	.1	.5	.3	.2	.2	.2	.0	15	.0	1.6
5	.0	.0	.0	.0	.1	.1	.6	.4	1.8	.3	.1	33	.4	3.1
4	.0	.0	.0	.0	.2	.7	.6	.6	1.5	.0	.1	36	.1	3.7
3	.0	.0	.0	.0	.4	.2	.4	.4	1.0	.0	.0	23	.1	2.4
2	.0	.0	.0	.1	.5	1.0	1.5	1.4	1.6	.2	.1	60	.1	6.3
1	.0	.0	.0	.2	.1	.5	.6	.9	.6	.5	.0	33	.5	3.0
0	.0	.0	.0	.4	1.1	1.9	2.6	1.3	.6	.2	.0	76	.0	8.1
-1	.0	.0	.1	.0	.5	.7	.4	.7	.6	.1	.0	31	.0	3.3
-2	.0	.0	.2	.6	1.7	1.4	2.4	1.3	.6	.0	.0	77	.2	8.0
-3	.0	.0	.1	.4	.9	1.0	1.6	.7	.3	.1	.0	48	.2	4.9
-4	.0	.0	.1	1.1	2.2	2.1	3.6	1.9	.4	.0	.0	108	.3	11.2
-5	.0	.0	.2	.6	2.5	1.7	1.6	1.2	.4	.0	.0	77	.5	7.7
-6	.0	.0	.0	.1	.6	.9	.5	.1	.0	.0	.0	21	.0	2.2
-7/-8	.0	.0	.3	1.4	2.7	3.1	2.4	.6	.0	.0	.0	98	.2	10.3
-9/-10	.0	.0	.2	.4	2.5	2.0	1.3	.3	.0	.0	.0	63	.3	6.4
-11/-13	.1	.1	.2	.9	1.6	1.3	.4	.0	.0	.0	.0	43	.1	4.5
-14/-16	.1	.0	.5	1.4	1.9	.4	.0	.0	.0	.0	.0	41	.1	4.3
-17/-19	.0	.1	.3	.5	.1	.0	.0	.0	.0	.0	.0	10	.1	1.0
-20/-22	.0	.2	.1	.4	.1	.0	.0	.0	.0	.0	.0	8	.1	.8
<-30	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	5	23	81	187	190	204	119	93	26	4	934	38	896
PCT	.2	.5	2.5	8.7	20.0	20.3	21.8	12.7	10.0	2.8	.4	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.6	.4	.0	.0	.0	3.4
1-2	.0	2.3	2.2	.0	.0	.0	4.5
3-4	.0	.0	4.8	.4	.0	.0	5.2
5-6	.0	.2	1.8	1.4	.0	.0	3.4
7	.0	.0	.5	.5	.0	.0	1.0
8-9	.0	.0	.1	.4	.1	.0	.6
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.2	.2	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	10.0	3.6	.3	.0	19.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	*	.0	.0	.0	1.6
1-2	.0	.9	1.6	.0	.0	.0	2.6
3-4	.0	*	1.5	.2	.0	.0	1.7
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.4	.2	.0	.0	.5
8-9	.0	.0	.0	.0	*	.0	*
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	4.3	.4	*	.0	7.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.9	1.1	.0	.0	.0	2.0
3-4	.0	.1	.4	.0	.0	.0	.5
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	1.6	.0	.0	.0	3.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.4	.0	.0	.0	2.1
1-2	.0	1.0	.4	.0	.0	.0	1.4
3-4	.0	.2	1.0	.0	.0	.0	1.2
5-6	.0	.0	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.2	.2
8-9	.0	.0	*	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	1.8	.2	.0	.2	5.1

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

TABLE 18 (CONT)

AREA 0017 TATAR STRAIT N
50.5N 141.5E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.7	.4	.0	.0	.0	2.6	.6	.9	.2	.0	.0	.0	1.7
1-2	.0	2.6	2.5	.0	.0	.0	5.2	.0	3.0	1.6	.0	.0	.0	4.6
3-4	.0	.5	2.4	.2	.0	.0	3.1	.0	.2	1.9	.2	.0	.0	2.2
5-6	.0	.0	1.6	.4	.2	.0	2.2	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.4	.2	.0	.0	.5	.0	.0	.2	.4	.0	.0	.6
8-9	.0	.0	.7	.3	.2	.0	1.1	.0	.0	.2	.8	.2	.0	1.2
10-11	.0	.0	.0	.4	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.2	.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	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.9	8.0	1.3	.9	.0	15.6	.6	4.3	4.4	1.3	.2	.0	10.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.4	3.8	.2	.0	.0	.0	4.4	.2	3.6	.2	.0	.0	.0	4.0	
1-2	.0	1.8	2.2	.0	.0	.0	4.0	.0	4.0	3.6	.0	.0	.0	7.6	
3-4	.0	.0	2.2	.2	.0	.0	2.4	.0	.4	2.9	.5	.0	.0	3.8	
5-6	.0	.0	.4	.7	.0	.0	1.1	.0	.2	.3	.6	.4	.0	1.6	
7	.0	.0	.3	.4	.0	.0	.6	.0	.0	.8	.4	.0	.0	1.2	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.4	.4	.2	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.6	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.4	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.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	
TOT PCT	.4	5.6	5.2	1.4	.0	.0	12.5	.2	8.1	8.8	2.8	1.2	.0	21.1	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	16.9	1.8	.0	.0	.0	25.3	
1-2	.0	16.5	15.3	.0	.0	.0	31.9	
3-4	.0	1.4	17.1	1.6	.0	.0	20.1	
5-6	.0	.5	5.7	3.0	.5	.0	9.8	
7	.0	.0	2.5	2.0	.0	.2	4.6	
8-9	.0	.0	1.4	2.1	.7	.0	4.3	
10-11	.0	.0	.0	1.2	.4	.0	1.6	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.2	.5	.5	.0	1.2	
17-19	.0	.0	.2	.0	.0	.0	.2	
20-22	.0	.0	.0	.2	.2	.0	.4	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.2	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	35.4	44.1	11.0	2.7	.2	100.0	562

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	13.5	9.9	5.8	2.5	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	286	3
6-7	.0	.6	1.3	3.7	1.5	2.0	.6	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	6
8-9	.0	.4	.5	.2	.5	.4	.6	.0	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	24	8
10-11	.0	.9	.1	.0	.2	.1	.4	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	18	6
12-13	.0	.0	.6	.1	.1	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
>13	.0	.0	.0	.6	.0	.0	.0	.0	.1	.0	.1	.1	.2	.1	.0	.0	.0	.0	.0	11	16
INDET	13.5	10.2	12.8	6.4	4.0	1.4	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	411	3
TOTAL	121	216	213	142	75	40	18	4	8	2	2	1	2	2	0	0	0	0	0	846	4
PCT	14.3	25.5	25.2	16.8	8.9	4.7	2.1	.5	.9	.2	.2	.1	.2	.2	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.1	.0	.0	1.1	39.2	.0	.0	41.4	1.9	.0	2.2	.0	.0	.0		54.6
NE	1.3	11.8	.0	.0	25.0	.0	.0	38.2	5.9	.0	5.9	.0	.0	.0		50.0
E	2.8	.0	3.7	.0	7.5	.0	.0	14.0	7.5	.0	13.1	.0	.0	.0		65.4
SE	.0	8.1	3.3	.0	17.1	.0	.0	28.5	6.5	.0	8.9	.0	.0	.0		56.1
S	2.5	3.8	.0	.0	6.3	.0	.0	12.7	4.4	.0	8.2	.0	.0	.0		74.7
SW	3.1	3.1	.0	.0	7.0	.0	.0	10.1	.8	.0	7.0	.0	.0	.0		82.2
W	1.0	.8	.0	.0	7.4	.0	.0	9.2	1.8	.0	7.4	.0	.0	.0		81.6
NW	.6	1.3	.0	.6	18.6	.0	.0	21.0	7.0	.0	2.2	.0	.0	.0		69.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	20.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0		80.0
TOT PCT	1.2	1.9	.4	.4	18.1	.0	.0	21.7	4.4	.0	5.0	.0	.0	.0		68.8
TOT OBS:	520															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	2.6	.0	.0	17.5	.0	.0	20.1	4.2	.0	10.6	.0	.0	.0		65.1
06&09	1.9	2.8	.9	.0	14.0	.0	.0	19.6	4.7	.0	1.9	.0	.0	.0		73.8
12&15	1.4	.0	.0	.0	17.5	.0	.0	18.9	3.5	.0	.0	.0	.0	.0		77.6
18&21	1.0	2.1	1.0	2.1	22.7	.0	.0	28.9	5.2	.0	4.1	.0	.0	.0		61.9
TOT PCT	1.1	1.9	.4	.4	17.7	.0	.0	21.3	4.3	.0	4.9	.0	.0	.0		69.6
TOT OBS:	536															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.3	8.0	5.5	2.9	.1		20.0	21.3	13.7	32.6	14.0	30.4	15.2	30.1	14.4	21.9
NE	.0	2.3	.8	.2	.2	.0		3.3	11.5	2.4	1.8	3.4	1.8	4.1	2.8	5.0	5.5
E	1.1	2.4	1.3	.1	.0	.0		4.9	8.7	4.4	3.6	6.4	7.1	2.6	4.5	9.4	4.7
SE	.2	2.9	2.8	.1	.0	.0		5.9	10.8	3.0	5.8	13.1	8.5	6.7	4.5	8.1	1.2
S	.2	2.5	3.4	1.1	.2	.0		7.3	14.7	9.3	1.3	11.4	1.3	13.9	2.3	5.0	4.7
SW	.0	2.5	2.8	.7	.0	.0		6.0	13.7	8.9	.4	7.6	2.2	9.3	1.1	13.8	.4
W	.4	3.7	7.1	5.6	.6	.0		17.4	18.1	19.4	23.7	16.1	14.3	17.0	12.5	12.5	19.1
NW	.8	5.3	16.6	9.7	1.7	.1		34.3	18.4	37.3	30.8	28.0	34.4	29.1	42.0	29.4	42.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	1.6	.0	.0	.0	2.1	.0	2.5	.0
TOT OBS	21	134	230	124	30	1	540		17.1	124	56	59	56	97	44	40	64
TOT PCT	3.9	24.8	42.6	23.0	5.6	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	6.0	7.9	4.6	.7		20.0	21.3	19.6	22.0	19.9	19.0
NE	1.2	1.5	.5	.2	.0		3.3	11.5	2.2	2.6	3.7	5.3
E	1.6	3.0	.2	.1	.0		4.9	8.7	4.2	6.7	3.2	6.5
SE	1.3	3.9	.6	.1	.0		5.9	10.8	3.9	10.9	6.0	3.8
S	1.3	3.5	1.9	.6	.0		7.3	14.7	6.8	6.5	10.3	4.8
SW	1.4	2.8	1.6	.2	.0		6.0	13.7	6.3	5.0	6.7	5.5
W	1.6	5.7	7.9	1.9	.3		17.4	18.1	20.7	15.2	15.6	16.6
NW	2.1	12.8	15.1	4.0	.3		34.3	18.4	35.3	31.1	33.2	37.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	1.1	.0	1.4	1.0
TOT OBS	66	212	192	63	7	540		17.1	180	115	141	104
TOT PCT	12.2	39.3	35.6	11.7	1.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.1	2.2	22.2	51.1	18.9	4.4	.0	16.9	100.0	180
06&09	.0	3.5	24.3	40.0	26.1	6.1	.0	17.2	100.0	115
12&15	1.4	2.8	29.1	34.8	25.5	5.7	.7	17.2	100.0	141
18&21	1.0	3.8	24.0	41.3	23.1	6.7	.0	17.1	100.0	104
TOT	5	16	134	230	124	30	1	17.1		540
PCT	.9	3.0	24.8	42.6	23.0	5.6	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	2.0	3.1	7.1		5.9
NE	.0	.4	.9	2.2		7.1
E	1.4	1.1	.3	2.3		5.1
SE	1.1	.5	1.9	4.9		6.4
S	2.6	.5	1.7	5.3		5.5
SW	2.1	1.4	1.6	2.6		4.6
W	6.1	3.8	5.0	3.1		4.0
NW	6.9	6.1	11.9	7.2		4.8
VAR	.0	.0	.0	.0		.0
CALM	.6	.3	.3	.0		2.5
TOT OBS	72	51	85	110	318	5.1
TOT PCT	22.6	16.0	26.7	34.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.6	.0	.0	.6	5.0	1.7	1.7	.0	.0	.0	4.2	
NE	.0	.0	.0	.3	2.0	.1	.0	.0	.0	.0	1.2	
E	.3	.0	.0	.3	1.1	.0	.6	.0	.0	.0	2.8	
SE	.0	.0	.0	.0	3.5	.5	1.6	.0	.3	.0	2.5	
S	.0	.0	.3	.0	2.1	.8	.7	.0	.0	.0	6.1	
SW	.6	.0	.0	.0	1.2	.7	.9	.0	.0	.0	4.2	
W	.0	.0	.6	.3	1.6	3.4	.5	.0	.0	.6	11.2	
NW	1.0	.0	.4	.6	9.4	2.3	4.3	.3	.0	.3	13.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
TOT OBS	8	0	4	7	82	30	33	1	1	3	149	318
TOT PCT	2.5	.0	1.3	2.2	25.8	9.4	10.4	.3	.3	.9	46.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.2	1.5	1.8	1.8	1.8	1.8	1.8	1.8
* OR >5000	1.5	1.8	2.1	2.1	2.1	2.1	2.1	2.1
* OR >3500	10.7	11.6	12.2	12.2	12.2	12.2	12.2	12.2
* OR >2000	15.2	18.9	21.0	21.6	21.6	21.6	21.6	21.6
* OR >1000	20.4	29.6	37.8	40.9	45.4	46.6	46.6	46.6
* OR >600	20.7	30.8	39.3	42.7	47.6	49.1	49.1	49.1
* OR >300	20.7	31.1	40.2	43.6	48.8	50.3	50.3	50.3
* OR >150	20.7	31.1	40.2	43.6	48.8	50.3	50.3	50.3
* OR > 0	20.7	31.1	40.5	44.5	49.7	52.4	52.4	52.4
TOTAL	68	102	133	146	163	172	172	172

TOTAL NUMBER OF OBS: 328 PCT FREQ NH <5/8: 47.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.8	5.2	9.8	6.4	6.1	6.4	11.8	5.2	28.6	1.7	346

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	3.2	.2	.2	.0	.0	.0	.0	2.1	.0	.0	5.6	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	TOT %	3.4	.2	.2	.0	.0	.0	.0	2.3	.0	.0	6.0	
1/2<1	PCP	2.3	.2	.3	.2	.2	.2	.1	.9	.0	.0	4.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	2.5	.2	.3	.2	.2	.2	.1	1.1	.0	.0	4.9	
1<2	PCP	.7	.0	.0	.2	.0	.0	.2	2.3	.0	.2	3.6	
	NO PCP	.0	.0	.0	.0	.1	*	.0	.4	.0	.0	.6	
	TOT %	.7	.0	.0	.2	.1	*	.2	2.7	.0	.2	4.1	
2<5	PCP	.8	.2	.3	1.1	.6	.4	.8	1.0	.0	.0	5.3	
	NO PCP	.2	.4	.2	.4	.5	.6	1.5	.1	.0	.0	3.8	
	TOT %	1.0	.6	.5	1.5	1.0	1.0	2.3	1.1	.0	.0	9.0	
5<10	PCP	.9	.4	.0	.2	.2	.0	.3	.0	.0	.0	2.8	
	NO PCP	2.3	.7	1.3	.9	.3	.8	3.6	7.4	.0	.2	17.4	
	TOT %	3.2	1.1	1.3	1.1	.5	.8	3.9	8.2	.0	.2	20.3	
10+	PCP	.8	.2	.0	.0	.0	.0	.3	.5	.0	.0	1.9	
	NO PCP	7.5	.9	2.6	2.8	5.5	4.0	11.6	18.2	.0	.6	53.8	
	TOT %	8.3	1.1	2.6	2.8	5.5	4.0	11.9	18.8	.0	.6	55.7	
	TOT OBS												533
	TOT PCT	19.2	3.2	5.0	5.8	7.4	6.1	18.3	34.1	.0	.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0		.2	
	11-21	.5	.0	.2	.0	.0	.0	.0	.8	.0		1.5	
	22+	2.9	.0	.0	.0	.0	.0	.0	1.2	.0		4.1	
	TOT %	3.4	.2	.2	.0	.0	.0	.0	2.1	.0	.0	5.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.1	.0	.2	.0	.0	.2	.0		.8	
	11-21	1.6	.0	.2	.2	.0	.2	.1	.4	.0		2.6	
	22+	1.2	.0	.0	.0	.0	.0	.0	.8	.0		2.1	
	TOT %	2.8	.2	.3	.2	.2	.2	.1	1.4	.0	.0	5.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.4	
	4-10	.2	.0	.0	.2	.0	.1	.1	.0	.0		.6	
	11-21	.4	.0	.0	.0	.1	*	.0	1.6	.0		2.3	
	22+	.9	.0	.0	.0	.0	.0	.4	1.3	.0		2.6	
	TOT %	1.5	.0	.0	.2	.1	.1	.5	3.1	.0	.2	5.8	
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.2	.1	.3	.5	.8	.3	*	.0		2.4	
	11-21	.2	.3	.0	1.2	.8	.2	.8	1.0	.0		4.5	
	22+	.8	.2	.0	.0	.0	.2	1.4	.7	.0		3.2	
	TOT %	1.2	.7	.3	1.5	1.2	1.2	2.4	1.7	.0	.0	10.3	
5<10	0-3	.1	.0	.6	.2	.0	.0	.2	.3	.0	.2	1.5	
	4-10	.9	.6	.5	.8	.1	.4	.6	1.3	.0		5.3	
	11-21	1.0	.3	.1	.0	.4	.4	1.1	3.3	.0		6.6	
	22+	1.2	.2	.1	.1	.0	.0	1.6	2.3	.0		6.6	
	TOT %	3.2	1.1	1.3	1.1	.5	.8	3.5	8.2	.0	.2	19.9	
10+	0-3	.2	.0	.4	.0	.2	.0	.2	.4	.0	.6	1.9	
	4-10	2.1	1.1	1.4	1.6	1.5	1.3	2.8	3.8	.0		15.6	
	11-21	4.2	*	.8	1.2	2.2	1.8	5.2	9.5	.0		25.0	
	22+	1.5	.0	.0	.0	1.3	.5	3.0	4.1	.0		10.4	
	TOT %	8.0	1.1	2.6	2.8	5.2	3.6	11.1	17.8	.0	.6	55.7	
	TOT OBS												533
	TOT PCT	20.1	3.3	4.8	5.8	7.2	5.9	17.6	34.3	.0	.9	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.2	.0	2.2	2.9	21.6	12.2	10.1	.7	.7	2.2	54.7	45.3	139
06&09	1.4	.0	.0	4.3	30.0	8.6	14.3	.0	.0	.0	58.6	41.4	70
12&15	5.1	.0	1.3	1.3	17.9	10.3	6.4	.0	.0	2.6	44.9	55.1	78
18&21	.0	.0	.0	.0	36.2	2.1	8.5	.0	.0	.0	46.8	53.2	47
TOT	8	0	4	8	82	32	33	1	1	5	174	160	334
PCT	2.4	.0	1.2	2.4	24.6	9.6	9.9	.3	.3	1.5	52.1	47.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	5.2	3.6	4.7	12.4	17.1	57.0	193
06&09	1.7	6.8	5.9	10.2	19.5	55.9	118
12&15	6.0	4.0	5.3	9.3	21.9	53.6	151
18&21	10.8	8.1	6.3	8.1	19.8	46.8	111
TOT	33	30	31	59	111	309	573
PCT	5.8	5.2	5.4	10.3	19.4	53.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	2.2	9.5	25.5	31.4	43.1	137
06&09	1.4	8.7	27.5	33.3	39.1	69
12&15	4.0	9.3	20.0	25.3	54.7	75
18&21	.0	12.8	21.3	25.5	53.2	47
TOT	7	32	79	97	152	328
PCT	2.1	9.8	24.1	29.6	46.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.0	.9	1	.9
45/49	.0	.0	.0	.0	1.8	4.6	.0	.0	7	6.4
40/44	.0	.0	.0	.0	1.8	3.7	5.5	3.7	16	14.7
35/39	.0	.0	.0	2.8	4.6	.9	.9	6.4	17	15.6
30/34	.0	.0	.0	.9	.9	.0	.0	3.7	6	5.5
25/29	.0	.0	.0	2.8	2.8	3.7	.0	2.8	13	11.9
20/24	.0	.0	.0	7.3	11.0	3.7	.9	3.7	29	26.6
15/19	.0	.0	.0	9.2	1.8	2.8	1.8	2.8	20	18.3
TOTAL	0	0	0	25	27	21	10	26	109	100.0
PCT	.0	.0	.0	22.9	24.8	19.3	9.2	23.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	3.2	.9	2.3	.0	.0	.0
.9	.0	.0	.2	8.0	3.7	.9	.9	.0	.0
.0	.0	2.5	6.0	4.1	.2	.7	2.1	.0	.0
.0	1.8	.0	.9	.0	.0	.0	2.8	.0	.0
.7	.0	.0	3.7	.0	2.1	1.4	4.1	.0	.0
5.7	.9	1.8	4.8	.7	.0	3.2	9.4	.0	.0
.9	.0	.0	.0	.0	.0	0.0	11.5	.0	.0
8.3	2.8	5.3	15.6	16.1	6.9	14.4	30.7	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	58	50	45	28	9	6	5	28.0	188
06&09	64	51	45	30	18	6	6	30.2	110
12&15	54	53	42	28	12	9	8	28.1	145
18&21	50	49	45	27	10	6	6	26.5	108
TOT	64	50	45	28	10	6	5	28.2	551

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	36.8	15.8	26.3	10.5	10.5	69	38
06&09	.0	25.0	34.4	12.5	6.3	21.9	72	32
12&15	.0	12.5	25.0	25.0	.0	37.5	77	16
18&21	.0	11.5	26.9	11.5	15.4	34.6	78	26
TOT	0	27	28	21	10	26	73	112

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

AREA 0017 TATAR STRAIT N
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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	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	4	.0	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.0	.2	.2	6	.0	1.3
5	.0	.0	.0	.0	.0	.0	.0	.2	1.8	.7	.4	.0	.2	.0	.0	15	.0	3.3
4	.0	.0	.0	.0	.0	.0	.0	.2	.7	.9	.2	.2	.2	.0	.0	11	.0	2.5
3	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.4	.0	.0	.0	.0	6	.4	.9
2	.0	.0	.0	.0	.0	.0	.0	.7	1.8	.4	.4	.2	.0	.0	.0	16	.2	3.3
1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.2	.0	.0	.0	.0	.0	7	.2	1.4
0	.0	.0	.0	.0	.0	.0	2.7	.9	1.8	.7	.6	.2	.0	.0	.0	31	.2	6.7
-1	.0	.0	.0	.0	.0	.0	.4	.2	.4	.9	.7	.0	.0	.0	.0	12	.7	2.0
-2	.0	.0	.0	.0	.0	.2	2.0	2.0	.4	.7	.0	.0	.0	.0	.0	24	.0	5.4
-3	.0	.0	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	4	.0	.9
-4	.0	.0	.0	.0	.0	3.1	1.1	1.6	.4	.4	.0	.0	.0	.0	.0	30	.2	6.5
-5	.0	.0	.0	.0	.0	1.6	2.0	1.3	.6	.0	.0	.0	.0	.0	.0	25	.0	5.6
-6	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.2	.2	.0	.0	.0	.0	8	.0	1.8
-7/-8	.0	.0	.0	.0	.9	2.0	.7	2.7	.2	.0	.0	.0	.0	.0	.0	29	.0	6.5
-9/-10	.0	.0	.0	.4	4.2	2.0	1.3	1.6	.7	.0	.0	.0	.0	.0	.0	46	.4	9.8
-11/-13	.0	.0	.0	2.2	3.3	2.7	.7	1.1	.4	.0	.0	.0	.0	.0	.0	47	.4	10.0
-14/-16	.0	.0	.7	3.6	2.7	1.1	.7	.0	.0	.0	.0	.0	.0	.0	.0	39	.4	8.3
-17/-19	.0	.4	1.3	1.6	1.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	27	.4	5.6
-20/-22	.0	.7	.7	.7	1.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	17	.2	3.6
-23/-25	.4	.9	.7	.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	.7	3.3
-26/-30	.2	1.1	1.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	.0	3.3
<-30	1.8	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	.4	2.0
TOTAL	11	15	23	44	69	69	55	57	56	26	16	3	2	1	1	448	23	425
PCT	2.5	3.3	5.1	9.8	15.4	15.4	12.3	12.7	12.5	5.8	3.6	.7	.4	.2	.2	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.0	1.8	.0	.0	.0	1.8
3-4	.0	.4	3.0	.4	.0	.0	3.8
5-6	.0	.0	4.1	.8	.0	.0	5.0
7	.0	.0	.6	1.5	.4	.0	2.5
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.4	.0	.8	.0	1.2
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.4	.4	.0	.8
17-19	.0	.0	.0	.0	.4	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	10.0	3.8	2.1	.0	17.0

NE

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

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.4	.0	.0	.0	1.7
1-2	.4	.0	1.1	.0	.0	.0	1.6
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.2	2.3	.0	.0	.0	3.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.9	.0	.0	.0	2.2
1-2	.0	.5	2.4	.0	.0	.0	2.9
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	4.1	.0	.0	.0	5.9

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

TABLE 18 (CONT)

AREA 0017 TATAR STRAIT N
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.6	1.1	.0	.0	.0	3.1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	.9	1.9	.0	.0	.0	2.2	.0	1.8	1.9	.0	.0	.0	3.6
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.8	.1	.0	.0	.9
5-6	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.8	.5	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.9	4.1	.4	.0	.0	6.8	.0	3.6	3.9	.6	.0	.0	8.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.1	1.0	.0	.0	.0	2.2	1.2	.8	.6	.0	.0	.0	2.7	
1-2	.0	1.3	1.3	.0	.0	.0	2.7	.0	1.9	3.6	.0	.0	.0	5.5	
3-4	.0	.7	3.5	1.7	.0	.0	5.9	.0	.5	5.9	2.0	.0	.0	8.4	
5-6	.0	.4	2.6	1.8	.0	.0	4.8	.0	.0	5.4	3.1	.0	.0	8.5	
7	.0	.0	.0	.3	.6	.0	.9	.0	.0	2.3	4.9	.6	.0	7.8	
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.4	.0	.9	.0	.0	1.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.3	.0	.7	.0	.0	.4	.4	.1	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.6	8.5	5.0	.9	.0	18.0	1.2	3.6	18.3	11.7	.7	.0	35.6	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	9.1	4.1	.0	.0	.0	16.6	
1-2	.4	6.6	14.5	.0	.0	.0	21.6	
3-4	.0	1.7	14.9	4.1	.0	.0	20.7	
5-6	.0	.4	14.1	7.1	.0	.0	21.6	
7	.0	.0	3.3	6.6	1.7	.0	11.6	
8-9	.0	.4	.0	1.7	.0	.0	2.1	
10-11	.0	.0	.4	.4	.8	.0	1.7	
12	.0	.0	.0	.8	.4	.0	1.2	
13-16	.0	.0	.4	1.2	.8	.0	2.5	
17-19	.0	.0	.0	.0	.4	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	18.3	51.9	22.0	4.1	.0	100.0	241

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	5.5	9.6	10.1	2.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
6-7	.0	.9	2.0	2.6	4.1	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	6
8-9	.0	.0	.6	.3	.6	.3	.6	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	9
10-11	.0	.6	.3	.3	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
12-13	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	13
INDET	7.2	13.9	11.0	11.3	5.8	2.0	.3	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	182	4
TOTAL	29	72	86	85	43	11	6	5	7	1	0	0	0	0	0	0	0	0	0	345	4
PCT	8.4	20.9	24.9	24.6	12.5	3.2	1.7	1.4	2.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	.0	.0	.0	.0	51.7	.0	.0	51.7	6.8	.0	3.4	.0	.0	.0		38.1
NE	.0	.0	.0	.0	42.7	.0	.0	42.7	.0	.0	30.3	.0	.0	.0		27.0
E	.0	.0	.0	.0	3.6	.0	.0	3.6	.0	.0	48.8	.0	.0	.0		47.6
SE	.0	.0	.0	.0	15.2	.0	.0	15.2	12.1	.0	.0	.0	.0	.0		72.7
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0		50.0
W	.0	.0	.0	.0	13.1	.0	.0	13.1	18.0	.0	6.6	.0	.0	.0		62.3
NW	.0	.0	.0	3.0	27.4	.0	.0	30.4	6.7	.0	.0	.0	.0	3.0		60.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0		66.7
TOT PCT	.0	.0	.0	.7	27.7	.0	.0	28.5	5.8	.0	16.1	.0	.0	.7		48.9
TOT OBS:	137															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	.0	.0	.0	1.5	22.1	.0	.0	23.5	5.9	.0	19.1	.0	.0	1.5		50.0
06&09	.0	.0	.0	.0	28.6	.0	.0	28.6	14.3	.0	4.8	.0	.0	.0		52.4
12&15	.0	.0	.0	.0	44.4	.0	.0	44.4	2.8	.0	8.3	.0	.0	.0		44.4
18&21	.0	.0	.0	.0	11.1	.0	.0	11.1	.0	.0	33.3	.0	.0	.0		55.6
TOT PCT	.0	.0	.0	.7	27.3	.0	.0	28.0	5.6	.0	16.1	.0	.0	.7		49.7
TOT OBS:	143															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	.7	7.4	8.2	6.4	.0		22.7	27.1	15.8	32.5	25.0	58.3	19.8	61.1	15.9	6.3
NE	1.0	9.6	3.5	2.2	1.3	.0		17.6	13.0	18.8	7.5	25.0	4.2	21.6	.0	22.7	15.6
E	1.0	10.4	3.4	.0	.0	.0		14.8	8.6	16.3	25.0	6.3	12.5	9.5	.0	22.7	34.4
SE	.0	2.2	2.0	.0	.0	.0		4.2	11.2	2.1	.0	6.3	.0	10.3	.0	.0	12.5
S	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SW	.0	1.3	.7	.7	.0	.0		2.7	15.5	3.3	10.0	.0	.0	.0	.0	9.1	.0
W	.0	1.8	6.5	.7	1.2	.0		10.2	17.2	12.5	10.0	6.3	16.7	12.9	11.1	.0	.0
NW	1.3	6.2	12.1	3.7	2.5	.0		25.8	16.4	27.9	15.0	25.0	8.3	25.9	27.8	29.5	31.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0	3.3	.0	6.3	.0	.0	.0	.0	.0
TOT OBS	8	48	53	23	17	0	149		16.6	60	10	16	6	29	9	11	8
TOT PCT	5.4	32.2	35.6	15.4	11.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	4.4	7.9	7.0	3.4		22.7	27.1	18.2	34.1	29.6	11.8
NE	5.0	8.9	1.0	2.0	.7		17.6	13.0	17.1	19.3	16.4	19.7
E	4.2	10.6	.0	.0	.0		14.8	8.6	17.5	8.0	7.2	27.6
SE	.8	2.7	.7	.0	.0		4.2	11.2	1.8	4.5	7.9	5.3
S	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
SW	.0	1.3	1.3	.0	.0		2.7	15.5	4.3	.0	.0	5.3
W	.7	6.4	2.0	.7	.5		10.2	17.2	12.1	9.1	12.5	.0
NW	3.4	10.7	8.6	3.0	.2		25.8	16.4	26.1	20.5	26.3	30.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.0						2.0	.0	2.9	4.5	.0	.0
TOT OBS	24	67	32	19	7	149		16.6	70	22	38	19
TOT PCT	16.1	45.0	21.5	12.8	4.7		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.9	4.3	37.1	37.1	11.4	7.1	.0	14.5	100.0	70
06&09	4.5	.0	18.2	45.5	13.6	18.2	.0	19.3	100.0	22
12&15	.0	2.6	21.1	31.6	26.3	18.4	.0	20.7	100.0	38
18&21	.0	5.3	52.6	26.3	10.5	5.3	.0	13.1	100.0	19
TOT	3	5	48	53	23	17	0	16.6		149
PCT	2.0	3.4	32.2	35.6	15.4	11.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.8	3.0	12.9		7.4
NE	2.3	.0	4.0	14.6		6.8
E	6.8	3.0	1.0	5.1		4.0
SE	2.0	.0	.0	1.0		4.0
S	.0	.0	.0	.0		.0
SW	3.0	.0	1.0	.0		2.2
W	1.0	2.0	7.1	2.0		5.5
NW	2.0	2.3	6.1	14.9		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	1.0		4.0
TOT OBS	18	8	22	51	99	5.9
TOT PCT	18.2	8.1	22.2	51.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.8	.0	1.0	.0	9.3	2.0	.0	.0	.0	.0	1.5	
NE	4.0	.0	1.0	.0	2.5	8.1	.0	.0	1.0	1.0	3.3	
E	3.0	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	10.9	
SE	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	3.0	
W	1.0	.0	.0	1.0	1.0	1.0	3.0	.0	1.0	.0	4.0	
NW	1.3	.0	.0	.0	3.3	10.1	4.0	.0	.0	.0	6.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
TOT OBS	14	0	2	1	16	22	9	0	2	1	32	99
TOT PCT	14.1	.0	2.0	1.0	16.2	22.2	9.1	.0	2.0	1.0	32.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >4500	1.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >3000	1.0	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >3500	6.9	10.8	11.8	11.8	11.8	11.8	11.8	11.8
* OR >2000	9.8	18.6	24.5	28.4	30.4	33.3	34.3	34.3
* OR >1000	11.8	23.5	29.4	40.2	43.1	48.0	50.0	50.0
* OR >600	11.8	23.5	29.4	40.2	44.1	49.0	51.0	51.0
* OR >300	11.8	23.5	29.4	40.2	45.1	50.0	52.9	52.9
* OR >150	11.8	23.5	29.4	40.2	45.1	50.0	52.9	52.9
* OR > 0	11.8	24.5	32.4	44.1	50.0	56.9	61.8	67.6
TOTAL	12	25	33	45	51	58	63	69

TOTAL NUMBER OF OBS: 102 PCT FREQ NH <5/8: 32.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.1	3.5	11.5	.9	8.0	6.2	10.6	4.4	36.3	11.5	113

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	4.9	2.4	.0	.0	.0	.0	.7	1.5	.0	.0	9.5	
<1/2	NO PCP	1.4	3.4	2.0	.0	.0	.0	.0	.7	.0	.7	8.1	
	TOT %	6.3	5.7	2.0	.0	.0	.0	.7	2.2	.0	.7	17.6	
	PCP	1.4	2.7	.0	.7	.0	.0	.0	.7	.0	.0	5.4	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
	TOT %	1.4	2.7	.0	.7	.0	.0	.7	.7	.0	.0	6.1	
	PCP	3.0	2.0	.5	.2	.0	.0	.0	5.1	.0	.0	10.8	
1<2	NO PCP	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	3.0	2.7	.5	.8	.0	.0	.0	5.1	.0	.0	12.2	
	PCP	1.4	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	5.4	
2<5	NO PCP	.0	.2	2.5	.7	.0	.0	.7	4.7	.0	.0	8.8	
	TOT %	1.4	2.2	2.5	.7	.0	.0	.7	6.8	.0	.0	14.2	
	PCP	1.4	.0	.0	.0	.0	.0	.7	.7	.0	.0	2.7	
5<10	NO PCP	5.4	2.4	3.7	2.0	.0	.7	1.2	5.6	.0	.7	21.6	
	TOT %	6.8	2.4	3.7	2.0	.0	.7	1.9	6.3	.0	.7	24.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	2.9	2.0	5.4	1.4	.0	2.0	6.4	4.9	.0	.7	25.7	
	TOT %	2.9	2.0	5.4	1.4	.0	2.0	6.4	4.9	.0	.7	25.7	
	TOT OBS												148
	TOT PCT	21.6	17.7	14.2	5.6	.0	2.7	10.3	25.8	.0	2.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	1.4	
<1/2	4-10	.0	4.1	1.4	.0	.0	.0	.0	.0	.0		5.4	
	11-21	1.2	.9	.7	.0	.0	.0	.7	.0	.0		3.4	
	22+	4.6	.9	.0	.0	.0	.0	.0	.7	.0		6.1	
	TOT %	5.8	5.8	2.0	.0	.0	.0	.7	1.4	.0	.7	16.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	1.4	.0	.7	.0	.0	.0	.0	.0		2.0	
	11-21	.0	.7	.0	.0	.0	.0	.7	.0	.0		1.4	
	22+	1.4	.7	.0	.0	.0	.0	.0	.7	.0		2.7	
	TOT %	1.4	2.7	.0	.7	.0	.0	.7	.7	.0	.0	6.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	2.0	.5	.2	.0	.0	.0	.7	.0		3.4	
	11-21	1.0	.7	.0	.0	.0	.0	.0	3.1	.0		4.8	
	22+	2.0	.0	.0	.0	.0	.0	.0	1.4	.0		3.4	
	TOT %	3.1	2.7	.5	.2	.0	.0	.0	5.1	.0	.0	11.6	
	0-3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.7	
2<5	4-10	.0	.2	1.2	.0	.0	.0	.7	1.4	.0		3.4	
	11-21	.7	.7	2.0	.7	.0	.0	.0	3.4	.0		7.5	
	22+	1.7	.7	.0	.0	.0	.0	.0	2.4	.0		4.8	
	TOT %	2.4	2.2	3.2	.7	.0	.0	.7	7.1	.0	.0	16.3	
	0-3	.0	.0	.7	.0	.0	.0	.0	.7	.0	.7	2.0	
5<10	4-10	.0	1.0	3.1	.7	.0	.0	.7	2.0	.0		7.5	
	11-21	2.4	.0	.0	1.4	.0	.7	.5	2.6	.0		7.5	
	22+	4.4	1.4	.0	.0	.0	.0	.7	1.0	.0		7.5	
	TOT %	6.8	2.4	3.7	2.0	.0	.7	1.9	6.3	.0	.7	24.5	
	0-3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7	1.4	
10+	4-10	.7	1.0	4.4	.7	.0	1.4	.5	2.2	.0		10.9	
	11-21	1.5	.7	.7	.0	.0	.0	4.8	2.6	.0		10.2	
	22+	.7	.0	.0	.0	.0	.7	1.2	.2	.0		2.7	
	TOT %	2.9	2.0	5.4	.7	.0	2.0	6.5	4.9	.0	.7	25.2	
	TOT OBS												147
	TOT PCT	22.3	17.9	15.0	4.3	.0	2.7	10.4	25.5	.0	2.0	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	13.2	.0	1.9	1.9	5.7	26.4	9.4	.0	1.9	1.9	62.3	37.7	53
06&09	13.3	.0	.0	.0	60.0	6.7	6.7	.0	.0	.0	86.7	13.3	15
12&15	20.0	.0	4.0	.0	8.0	28.0	12.0	.0	4.0	.0	76.0	24.0	25
18&21	9.1	.0	.0	.0	18.2	9.1	.0	.0	.0	.0	36.4	63.6	11
TOT	15	0	2	1	16	23	9	0	2	1	69	35	104
PCT	14.4	.0	1.9	1.0	15.4	22.1	8.7	.0	1.9	1.0	66.3	33.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	18.3	7.0	11.3	12.7	19.7	31.0	71
06&09	13.0	.0	21.7	13.0	17.4	34.8	23
12&15	16.7	9.5	7.1	19.0	33.3	14.3	42
18&21	14.3	.0	9.5	23.8	23.8	28.6	21
TOT	26	9	18	25	37	42	157
PCT	16.6	5.7	11.5	15.9	23.6	26.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	13.7	31.4	51.0	21.6	27.5	51
06&09	13.3	13.3	46.7	40.0	13.3	15
12&15	20.0	32.0	60.0	24.0	16.0	25
18&21	9.1	18.2	54.5	9.1	36.4	11
TOT	15	28	54	24	24	102
PCT	14.7	27.5	52.9	23.5	23.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.0	.0	16.7	1	16.7
40/44	.0	.0	.0	.0	.0	.0	16.7	.0	1	16.7
35/39	.0	.0	.0	.0	.0	.0	16.7	.0	1	16.7
15/19	.0	.0	.0	.0	16.7	16.7	.0	.0	2	33.3
10/14	.0	.0	.0	.0	.0	16.7	.0	.0	1	16.7
TOTAL	0	0	0	0	1	2	2	1	6	100.0
PCT	.0	.0	.0	.0	16.7	33.3	33.3	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0
.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	12.5	4.2	.0	.0
16.7	.0	.0	.0	.0	.0	16.7	.0	.0	.0
.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0
16.7	.0	.0	33.3	.0	.0	45.8	4.2	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	38	37	25	13	0	-1	-1	13.0	64
06&09	44	43	34	14	-2	-2	-2	16.1	20
12&15	32	31	28	12	-8	-8	-8	11.2	35
18&21	46	45	45	9	-2	-2	-2	12.8	17
TOT	46	44	32	13	0	-8	-8	13.0	136

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	100.0	.0	83	1
06&09	.0	.0	.0	66.7	33.3	.0	80	3
12&15	.0	.0	100.0	.0	.0	.0	61	1
18&21	.0	.0	.0	.0	.0	100.0	90	1
TOT	0	0	1	2	2	1	79	6

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1933-1973

TABLE 17

AREA 0017 TATAR STRAIT N
49.2N 141.7E

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
4	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	.0	2	.0	1.8
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1	.0	.9
2	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	1	.0	.9
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	1	.0	.9
-4	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	1	.0	.9
-7/-8	.0	.0	.0	.0	.0	1.8	.9	.0	.0	.0	.0	.0	3	.0	2.7
-9/-10	.0	.0	.0	.0	.9	.9	.9	.0	.0	.0	.0	.0	3	.0	2.7
-11/-13	.0	.0	.0	1.8	2.7	4.5	.9	.0	.0	.0	.0	.0	11	.0	9.9
-14/-16	.0	.0	.9	6.3	3.6	.9	.0	.0	.0	.0	.0	.0	13	.9	10.8
-17/-19	.0	.0	4.5	9.9	1.8	.0	.0	.0	.0	.0	.0	.0	18	.0	16.2
-20/-22	.0	.9	6.3	4.5	2.7	.0	.0	.0	.0	.0	.0	.0	16	1.8	12.6
-23/-25	.0	9.0	2.7	1.8	.0	.0	.0	.0	.0	.0	.0	.0	15	3.6	9.9
-26/-30	10.8	1.8	3.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	19	5.4	11.7
<=30	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3.6	2.7
TOTAL	19	13	20	28	13	9	3	1	2	1	1	1	111	17	94
PCT	17.1	11.7	18.0	25.2	11.7	8.1	2.7	.9	1.8	.9	.9	.9	100.0	15.3	84.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	4.9	.0	.0	.0	4.9
5-6	.0	.0	2.3	3.9	.0	.0	6.2
7	.0	.0	.0	5.2	2.6	.0	7.8
8-9	.0	.0	1.0	1.3	.0	.0	2.3
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	3.9	.0	5.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	8.1	12.7	6.5	.0	27.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.0	1.3	2.6	.0	.0	.0	3.9
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	2.6	1.3	.0	3.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	1.6	.0	.0	2.9
12	.0	.0	.0	.0	1.3	.0	1.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	5.5	4.2	2.6	.0	16.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	.0	.0	.0	.0	3.6
1-2	1.3	1.3	1.3	.0	.0	.0	3.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	4.9	1.3	.0	.0	.0	7.5

SE

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

PERIOD: (OVER-ALL) 1963-1973 DECEMBER AREA 0017 TATAR STRAIT N

TABLE 18 (CONT) 49.2N 141.7E

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

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

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	2.6	3.9	.0	.0	.0	.0	6.5	
1-2	.0	.0	1.3	.0	.0	.0	1.3	.0	1.3	2.6	.0	.0	.0	3.9	
3-4	.0	.0	5.2	.0	.0	.0	5.2	.0	3.9	.0	.0	.0	.0	3.9	
5-6	.0	.0	5.2	.0	.0	.0	5.2	.0	.0	6.8	.0	.0	.0	6.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.6	.0	.0	3.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	.0	.0	2.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	11.7	.0	.0	.0	11.7	2.6	9.1	11.0	5.2	.0	.0	27.9	96.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	10.4	.0	.0	.0	.0	16.9	
1-2	1.3	3.9	9.1	.0	.0	.0	14.3	
3-4	.0	5.2	13.0	1.3	.0	.0	19.5	
5-6	.0	.0	14.3	6.5	1.3	.0	22.1	
7	.0	.0	1.3	7.8	2.6	.0	11.7	
8-9	.0	.0	1.3	3.9	.0	.0	5.2	
10-11	.0	.0	1.3	2.6	.0	.0	3.9	
12	.0	.0	.0	.0	1.3	.0	1.3	
13-16	.0	.0	.0	1.3	3.9	.0	5.2	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	19.5	40.3	29.4	9.1	.0	100.0	77

PERIOD: (OVER-ALL) 1957-1973 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	4.0	10.5	4.0	.8	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	4
6-7	.8	.0	1.6	1.6	.8	.8	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
8-9	.0	.0	.8	.8	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
10-11	.0	.0	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
12-13	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	6.5	15.3	14.5	9.7	8.1	4.8	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	4
TOTAL	9	24	35	20	14	8	7	1	6	0	0	0	0	0	0	0	0	0	0	124	5
PCT	7.3	19.4	28.2	16.1	11.3	6.5	5.6	.8	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.1	1.7	2.1	.1	12.4	.0	.1	21.3	3.0	.0	5.3	.2	.2	.3		69.8
NE	7.4	3.1	1.9	.0	9.0	.0	.0	20.2	3.9	*	8.1	.0	.4	.2		67.5
E	7.1	.7	1.2	.0	2.3	.0	.0	11.2	2.1	.1	9.9	.0	.7	.0		76.0
SE	7.1	1.6	2.1	.0	3.9	.0	.0	14.6	2.9	.1	6.6	.1	.1	.0		75.6
S	4.1	1.4	1.9	.0	.9	.0	.0	8.2	1.3	*	10.8	.3	.2	.1		69.2
SW	2.6	1.1	1.2	.0	3.4	.0	.0	7.9	1.0	.1	15.1	.1	.3	.1		75.3
W	3.8	1.2	2.3	.4	5.8	.0	.0	13.1	3.2	.0	7.8	.0	.0	.0		75.9
NW	6.1	1.7	2.5	.4	10.9	.0	.1	21.4	3.0	.0	4.6	.2	.1	.3		70.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.7	.9	.9	.0	2.5	.0	.0	6.1	1.3	.1	13.1	.0	.4	.0		79.0
TOT PCT	4.7	1.3	1.8	.2	7.0	.0	*	14.8	2.6	*	9.3	.1	.3	.2		72.6
TOT OBS:	7733															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	1.5	1.5	.2	6.8	.0	.0	13.7	2.4	*	11.3	.1	.5	.3		71.7
06&09	4.1	1.2	1.6	.0	5.1	.0	*	12.1	3.5	.0	7.6	.1	*	.2		76.4
12&15	5.2	1.2	1.8	.0	9.3	.0	.1	17.3	2.4	.1	6.4	.2	.2	.2		73.2
18&21	5.7	1.4	2.4	.2	5.8	.0	.0	15.2	2.0	*	11.8	.1	.1	.0		70.7
TOT PCT	4.6	1.3	1.8	.1	6.9	.0	*	14.6	2.6	*	9.4	.1	.3	.2		72.8
TOT OBS:	8006															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	5.5	6.9	3.6	1.4	.1		18.3	15.8	15.2	25.8	21.5	26.7	15.3	22.1	15.3	20.2
NE	.7	4.4	3.1	.8	.3	.0		9.2	11.3	9.2	5.8	8.8	8.2	10.7	5.3	11.9	6.7
E	.8	4.2	1.9	.3	.0	.0		7.1	9.2	6.9	5.5	4.3	3.9	6.6	10.4	11.4	11.7
SE	.6	4.3	2.8	.3	.1	*		7.7	10.2	6.7	4.8	6.3	6.9	8.2	9.2	11.0	12.2
S	1.1	7.1	7.8	2.6	.3	.0		19.0	12.0	19.0	13.8	22.7	16.3	20.0	17.0	17.7	16.0
SW	.7	5.1	4.1	1.2	.1	.0		11.3	12.5	13.3	16.5	11.9	14.3	10.0	9.1	9.4	8.7
W	.5	2.7	3.0	1.0	.2	.0		7.4	11.6	7.9	10.0	5.9	7.7	7.7	6.6	4.9	9.0
NW	.8	4.3	6.0	2.1	.5	*		13.8	12.9	14.6	15.1	12.9	12.7	13.3	19.0	12.0	12.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.3							6.3	.0	7.3	2.7	5.7	3.3	8.2	1.4	5.8	2.5
TOT OBS							7556		12.6	2325	402	1146	292	1840	258	970	323
TOT PCT	12.2	37.6	39.4	11.8	3.0	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	6.9	5.1	2.4	.6		18.3	15.8	17.1	23.3	16.9	16.9
NE	2.6	4.8	1.2	.6	.1		9.2	11.3	8.6	8.5	9.8	10.5
E	2.6	3.9	.6	*	.0		7.1	9.2	6.7	4.4	6.9	11.5
SE	2.7	4.0	.9	.1	*		7.7	10.2	6.5	6.2	8.3	11.4
S	4.4	8.5	4.8	1.2	*		19.0	12.0	18.1	21.2	19.5	17.2
SW	3.1	5.1	2.6	.4	*		11.3	12.5	13.6	12.2	9.7	8.5
W	1.9	3.2	1.8	.4	.1		7.4	11.6	8.2	6.3	7.4	6.4
NW	2.6	5.7	4.3	1.0	.1		13.8	12.9	14.6	12.9	14.1	12.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.3						6.3	.0	6.7	5.2	7.3	4.9
TOT OBS						7556		12.6	2727	1498	2098	1293
TOT PCT	29.5	42.1	21.4	6.1	.9		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.7	6.2	37.8	36.4	10.7	2.3	*	12.1	100.0	2727
06&09	5.2	5.0	34.2	37.2	14.6	3.7	.1	13.7	100.0	1438
12&15	7.3	5.3	38.3	33.5	11.9	3.7	.1	12.6	100.0	2098
18&21	4.9	7.6	39.4	34.4	10.7	2.7	.3	12.4	100.0	1293
TOT								12.6		7556
PCT	6.3	6.0	37.6	35.4	11.8	3.0	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	1.2	5.0	7.1		6.0
NE	1.7	.5	2.9	4.7		6.1
E	1.8	.9	1.7	2.8		5.4
SE	1.9	.6	1.8	3.0		5.2
S	5.2	2.0	5.0	8.1		4.6
SW	2.9	1.4	3.4	3.7		4.8
W	2.2	1.0	2.2	1.9		4.8
NW	2.6	1.5	4.0	5.2		5.6
VAR	.0	.0	.0	.0		.0
CALM	2.1	.8	1.6	2.6		4.3
TOT OBS					5843	5.4
TOT PCT	23.3	10.1	27.7	39.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	*	.3	.6	3.6	3.2	1.2	.2	.1	.1	5.9	
NE	.8	*	.2	.2	1.3	2.4	.8	.2	.2	.2	3.4	
E	.6	*	.1	.2	.8	1.1	.7	.2	*	.1	3.6	
SE	.4	*	.1	.2	1.1	1.0	.8	.1	.1	.1	3.3	
S	2.0	.1	.4	.6	2.6	2.7	1.3	.4	.4	.4	9.5	
SW	1.2	*	.1	.3	1.2	1.6	.9	.2	.1	.1	5.7	
W	.4	*	.1	.2	.7	1.1	.5	.1	.1	.1	3.9	
NW	.8	*	.2	.3	2.6	2.8	1.3	.2	.1	.1	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	*	.1	.1	.9	.9	.4	.1	.1	.2	3.5	
TOT PCT	8.1	.2	1.4	2.7	14.9	16.7	7.9	1.6	1.2	1.3	49.8	5843 100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.6	2.4	2.6	2.6	2.6	2.6	2.6	2.6
* OR >4000	3.0	4.0	4.2	4.2	4.2	4.2	4.2	4.2
* OR >3500	8.7	11.1	11.9	12.0	12.0	12.0	12.0	12.0
* OR >2000	17.2	23.8	26.6	27.6	28.1	28.5	28.7	28.7
* OR >1000	22.0	33.4	38.6	40.9	42.1	43.0	43.4	43.4
* OR >600	22.6	35.0	40.9	43.3	44.8	45.7	46.1	46.1
* OR >300	22.8	35.6	41.8	44.3	45.9	46.9	47.4	47.4
* OR >150	22.8	35.6	41.9	44.5	46.1	47.1	47.6	47.6
* OR > 0	22.9	36.3	43.5	46.2	49.0	51.8	55.2	56.1

TOTAL NUMBER OF OBS: 5996 PCT FREQ NH <5/8: 43.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.8	4.9	9.2	4.5	5.2	5.4	8.8	7.9	27.6 7.7	6337

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	1.0	.4	*	.1	.1	.1	.2	.6	.0	.0	2.5	
<1/2	NO PCP	.6	.6	.3	.2	1.4	.7	.1	.2	.0	.6	4.8	
	TOT %	1.6	1.0	.3	.2	1.5	.8	.4	.8	.0	.6	7.3	
	PCP	.5	.4	.1	.1	.1	.1	*	.3	.0	*	1.6	
1/2<1	NO PCP	.1	*	*	*	.2	.1	.1	.1	.0	.1	.7	
	TOT %	.6	.4	.1	.2	.3	.2	.1	.4	.0	.1	2.3	
	PCP	.8	.3	.1	.1	.3	*	.1	.9	.0	.1	2.6	
1<2	NO PCP	.1	.1	.1	.1	.2	.2	*	.1	.0	.1	.9	
	TOT %	.8	.4	.2	.3	.4	.2	.1	1.0	.0	.2	3.5	
	PCP	.8	.6	.3	.5	.6	.4	.2	.9	.0	.1	4.4	
2<5	NO PCP	.5	.5	.5	.3	1.1	.6	.4	.8	.0	.3	4.8	
	TOT %	1.3	1.0	.8	.8	1.7	1.0	.6	1.7	.0	.4	9.2	
	PCP	.9	.4	.3	.3	.7	.3	.3	.6	.0	.2	3.9	
5<10	NO PCP	3.1	1.5	1.2	1.3	3.0	1.7	1.1	2.1	.0	.9	16.1	
	TOT %	4.1	2.0	1.5	1.6	3.8	2.0	1.3	2.7	.0	1.1	20.0	
	PCP	.2	.1	*	.1	.1	*	*	.1	.0	*	.6	
10+	NO PCP	9.2	4.5	4.3	4.6	11.4	7.2	4.9	7.0	.0	4.0	57.0	
	TOT %	9.4	4.5	4.3	4.6	11.5	7.3	4.9	7.1	.0	4.0	57.6	
	TOT OBS												7751
	TOT PCT	17.8	9.2	7.1	7.7	19.2	11.4	7.5	13.6	.0	6.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.1	*	.1	.1	.1	*	.1	.0	.6	1.3	
<1/2	4-10	.2	.5	.2	.1	.7	.5	.2	.2	.0		2.5	
	11-21	.3	.2	.1	*	.6	.2	.2	.3	.0		1.9	
	22+	1.0	.2	.0	*	.1	*	*	.3	.0		1.7	
	TOT %	1.6	1.0	.3	.2	1.5	.8	.4	.8	.0	.6	7.4	
	0-3	*	.0	.0	*	*	*	*	*	.0	.1	.1	
1/2<1	4-10	.1	.2	*	.1	.2	.1	*	.1	.0		.8	
	11-21	.3	.1	*	*	.1	.1	.1	.1	.0		.7	
	22+	.3	.1	*	*	*	*	.0	.2	.0		.7	
	TOT %	.6	.4	.1	.2	.3	.2	.1	.5	.0	.1	2.5	
	0-3	.1	*	*	.0	.1	*	*	*	.0	.2	.4	
1<2	4-10	.2	.3	.2	.1	.2	.1	.1	.2	.0		1.3	
	11-21	.3	.1	*	.1	.1	*	*	.6	.0		1.2	
	22+	.5	*	*	*	.1	.1	*	.3	.0		1.0	
	TOT %	1.0	.4	.2	.2	.5	.2	.2	1.1	.0	.2	3.9	
	0-3	*	.1	.1	*	.1	*	.1	.1	.0	.4	.9	
2<5	4-10	.4	.4	.4	.4	.6	.5	.2	.5	.0		3.3	
	11-21	.5	.4	.3	.3	.7	.5	.2	.8	.0		3.8	
	22+	.6	.1	.1	.1	.3	.1	.2	.4	.0		1.9	
	TOT %	1.6	1.1	.8	.8	1.7	1.0	.7	1.8	.0	.4	9.9	
	0-3	.2	.1	.2	.1	.2	.1	.1	.1	.0	1.1	2.2	
5<10	4-10	1.2	.8	.7	.8	1.2	.8	.4	.9	.0		6.8	
	11-21	1.7	.7	.4	.6	1.6	.8	.4	1.1	.0		7.1	
	22+	1.1	.4	.1	.1	.7	.2	.4	.6	.0		3.6	
	TOT %	4.1	2.0	1.4	1.6	3.7	1.9	1.1	2.7	.0	1.1	19.8	
	0-3	.5	.3	.5	.3	.6	.4	.3	.5	.0	4.0	7.2	
10+	4-10	3.4	2.3	2.7	2.8	4.3	3.2	1.8	2.4	.0		22.8	
	11-21	3.7	1.8	1.0	1.4	4.7	2.6	2.1	3.1	.0		20.4	
	22+	1.6	.2	.1	.1	1.6	1.0	.6	.8	.0		6.0	
	TOT %	9.3	4.5	4.3	4.6	11.1	7.1	4.8	6.8	.0	4.0	56.5	
	TOT OBS												7976
	TOT PCT	18.2	9.4	7.2	7.6	18.9	11.3	7.5	13.7	.0	6.3	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	7.5	.1	1.5	3.1	13.7	19.7	7.9	1.3	1.4	1.9	58.2	41.8	2410
06E09	6.2	.1	1.3	2.1	20.2	13.8	7.7	1.5	.9	.9	54.6	45.4	1202
12E15	11.8	.4	1.5	2.2	11.8	14.8	7.3	1.7	1.3	1.0	53.8	46.2	1610
18E21	9.1	.4	.9	2.8	15.8	12.1	7.0	2.5	.6	.8	52.0	48.0	886
TOT													6108
PCT	8.4	.2	1.4	2.7	14.5	16.5	7.7	1.6	1.2	1.4	55.6	44.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	7.6	2.4	3.6	10.0	17.9	58.6	2948
06E09	5.6	1.3	4.3	8.6	18.2	62.0	1550
12E15	7.5	2.6	3.8	10.2	24.7	51.2	2280
18E21	8.8	2.9	4.6	11.6	19.3	52.8	1385
TOT							8163
PCT	7.4	2.4	3.9	10.1	19.9	56.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	7.6	13.2	25.6	35.6	38.7	2384
06E09	6.3	8.7	20.5	35.6	43.9	1177
12E15	11.8	15.9	27.3	29.2	43.5	1566
18E21	9.2	13.8	27.5	30.2	42.2	869
TOT						5996
PCT	8.5	13.1	25.4	33.4	41.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	*	*	.0	.0	.0		.1
65/69	.0	.0	.1	.1	.4	.3	.3	.0		1.4
60/64	.0	.2	.0	.1	.8	2.0	4.4	3.6		11.1
55/59	.0	.1	.3	.4	.9	3.0	6.1	5.3		16.1
50/54	.0	.0	.1	.9	1.0	2.0	3.6	3.3		11.0
45/49	.0	.0	.3	.5	1.8	3.2	2.9	3.9		12.5
40/44	.0	.0	.1	.2	1.9	2.5	3.8	2.7		11.4
35/39	.0	.0	.1	.5	2.8	2.1	3.6	2.8		11.9
30/34	.0	.1	.1	1.5	.8	1.0	.6	1.6		5.6
25/29	.0	.0	.5	1.3	2.3	2.4	.9	.3		7.7
20/24	.0	.0	.1	.8	1.4	.8	.5	.4		3.9
15/19	.0	.0	.0	.9	1.9	2.2	.3	.3		5.6
10/14	.0	.0	.0	.0	.0	1.8	.1	.0		1.9
TOTAL									1698	100.0
PCT	.0	.4	1.7	7.3	15.9	23.4	27.1	24.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	*	*	.0	.0
65/69	.1	*	.2	.2	.5	.2	.0	*	.0	.1
60/64	1.3	.6	1.0	1.2	4.0	1.6	.4	.4	.0	.6
55/59	1.8	1.1	1.2	2.1	4.9	3.0	.4	.7	.0	.8
50/54	.8	1.1	1.0	.9	2.9	2.2	.6	.6	.0	.8
45/49	1.1	.8	.5	2.6	3.7	1.7	.8	.7	.0	.5
40/44	1.3	.5	.6	2.2	3.2	1.3	.8	1.5	.0	.1
35/39	1.5	.3	1.0	1.3	2.6	1.5	2.4	1.1	.0	.2
30/34	1.7	1.1	.2	.4	.6	.2	.5	.8	.0	.1
25/29	2.8	1.4	.8	1.2	.0	.5	.3	.6	.0	.1
20/24	.8	.6	.7	.6	.1	.0	.3	.9	.0	.0
15/19	1.8	.1	.0	.1	.0	.0	2.3	1.3	.0	.0
10/14	.1	*	.0	.0	.0	.0	1.7	.1	.0	.0
PCT	15.0	7.8	7.1	12.8	22.6	12.1	10.4	8.8	.0	3.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	81	58	53	42	31	28	-1	49.3	2945
06E09	85	60	54	43	32	28	-2	50.8	1543
12E15	82	55	51	41	30	26	-4	49.0	2272
18E21	80	57	53	40	30	26	-2	47.4	1392
TOT	85	59	53	42	31	26	-8	49.2	8152

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	12.1	15.4	21.1	33.7	17.8	78	518
06E09	.0	11.2	16.2	26.3	27.5	18.9	79	430
12E15	.0	10.1	23.1	19.4	21.2	26.2	82	392
18E21	.0	5.1	12.1	19.9	24.2	38.8	84	385
TOT	0	140	225	359	517	484	81	1725

MARCH - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	.0	*	7	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	*	*	*	7	*	*
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	*	*	*	*	.0	*	.0	12	*	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	*	*	*	.0	*	*	.0	.0	24	*	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.1	*	.1	*	.0	.0	66	.1	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.3	.2	.2	.2	.2	.1	*	*	.0	.0	129	.2	1.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.4	.4	.3	.3	.3	.2	.1	.1	.0	.0	.0	190	.2	2.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.8	.7	.3	.3	.4	.4	.3	.1	*	.0	.0	.0	271	.4	3.3
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.3	.3	.1	.3	.2	.2	*	*	.0	.0	.0	170	.4	1.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.7	.5	.7	.6	.7	.6	.5	.4	.1	*	.0	.0	.0	396	.5	4.5
4	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.1	.6	.6	.5	.7	.6	1.0	.5	.1	.0	.0	.0	.0	490	.6	5.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.4	.4	.3	.5	.4	.6	.2	*	*	.0	.0	.0	276	.3	3.1
2	.0	.0	.0	.0	.0	.0	.0	.1	.6	1.0	.6	1.0	.7	1.0	1.1	1.3	.4	*	.0	.0	.0	.0	636	.9	6.9
1	.0	.0	.0	.0	.0	.0	.0	.3	.4	.4	.3	.3	.3	.5	.9	.5	.1	.0	.0	.0	.0	.0	328	.5	3.5
0	.0	.0	.0	.0	.0	.0	.1	.6	.9	.9	.7	1.1	.7	1.0	1.7	1.4	.1	*	*	.0	.0	.0	775	1.0	8.3
-1	.0	.0	.0	.0	.0	.0	.1	.7	.3	.5	.4	.3	.4	.5	.7	.6	*	.0	.0	.0	.0	.0	326	.6	3.7
-2	.0	.0	.0	.0	.0	.0	.5	1.1	.6	.6	.4	.7	.5	.8	1.6	.7	*	.0	.0	.0	.0	.0	592	.5	6.9
-3	.0	.0	.0	.0	.0	.0	.7	.6	.3	.3	.4	.2	.3	.4	.4	.2	.0	.0	.0	.0	.0	.0	247	.2	3.5
-4	.0	.0	.0	.0	.0	.0	.8	.7	.7	.4	.4	.5	.5	.7	.9	.2	.0	.0	.0	.0	.0	.0	425	.4	5.3
-5	.0	.0	.0	.0	.0	.1	.9	.4	.3	.5	.3	.3	.4	.5	.4	*	.0	.0	.0	.0	.0	.0	307	.2	4.0
-6	.0	.0	.0	.0	.0	.1	.6	.1	.1	.1	.1	.1	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	109	*	1.7
-7/-8	.0	.0	.0	.0	.0	.9	.9	.2	.5	.4	.4	.4	.5	.3	.2	*	.0	.0	.0	.0	.0	.0	302	.2	4.5
-9/-10	.0	.0	.0	.0	.3	.8	.5	.2	.3	.4	.2	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	202	.1	3.3
-11/-13	.0	.0	.0	.3	.9	.9	.4	.1	.2	.2	.3	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	157	.1	3.6
-14/-16	.0	.0	.1	1.0	1.1	.4	.1	.1	.1	.2	.1	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	124	.2	3.2
-17/-19	.0	.0	.7	1.6	.5	.2	.1	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	.1	3.3
-20/-22	.0	.2	.9	.6	.3	.1	.1	*	*	.1	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	.2	2.1
-23/-25	*	1.1	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	.4	1.6
-26/-30	1.1	.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	.5	1.5
<-30	.6	.2	*	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	.4	.5
TOTAL																							6793		
PCT	1.8	1.7	2.6	4.0	3.3	3.7	5.7	5.1	6.5	9.2	7.6	9.0	7.7	9.1	10.9	8.2	2.9	.7	.3	.1	*	*	100.0	9.4	90.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.3	.3	.0	.0	.0	3.1
1-2	*	1.6	2.5	.0	.0	.0	4.2
3-4	.0	.4	3.2	.5	.0	.0	4.0
5-6	.0	.2	1.6	1.2	*	.0	2.9
7	.0	.0	.3	1.4	.4	.0	2.1
8-9	.0	.0	.3	.4	.2	.0	.9
10-11	.0	.0	.1	.8	.2	.0	1.0
12	.0	.0	.0	.1	.3	.0	.4
13-16	.0	*	.0	.2	.5	.0	.8
17-19	.0	*	.0	.0	*	.0	.1
20-22	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.5	8.2	4.6	1.6	.0	19.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.3	.0	.0	.0	2.8
1-2	*	1.3	1.4	.0	.0	.0	2.7
3-4	.0	.3	.6	.1	.0	.0	1.1
5-6	.0	.1	.2	.4	.1	.0	.8
7	.0	*	.1	*	.0	.0	.2
8-9	.0	.0	*	*	*	.0	*
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.8	2.9	.7	.3	.0	8.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.2	.2	.0	.0	.0	2.6
1-2	.2	.8	1.0	.0	.0	.0	1.9
3-4	.0	.1	.3	.1	.0	.0	.6
5-6	.0	.0	.1	*	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	*	.0	.0	*
10-11	.0	.0	.0	*	.0	.0	*
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	1.6	.2	.0	.0	5.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.6	.3	.0	.0	.0	3.1
1-2	*	1.1	1.3	.0	.0	.0	2.5
3-4	.0	.2	.7	*	.0	.0	.9
5-6	.0	.1	.2	.2	*	.0	.4
7	.0	.0	.1	.1	.0	*	.1
8-9	.0	.0	*	*	.0	.0	*
10-11	.0	*	.0	*	*	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	*	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	2.5	.3	.1	*	7.1

PERIOD: (OVER-ALL) 1963-1974

MARCH - DECEMBER

AREA 0017 TATAR STRAIT N
50.1N 141.7E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	2.6	.3	.0	.0	.0	3.6	.4	2.1	.1	.0	.0	.0	2.5
1-2	.1	3.5	2.9	.0	.0	.0	6.4	.1	2.0	1.4	.0	.0	.0	3.5
3-4	*	.5	2.9	.3	.0	.0	3.8	*	.2	1.7	.4	.0	.0	2.3
5-6	.0	.2	1.8	.8	*	.0	2.8	.0	.1	1.0	.4	*	.0	1.6
7	.0	*	.5	.9	*	.0	1.4	.0	*	.3	.3	*	.0	.7
8-9	.0	.0	.3	.6	.1	.0	1.0	.0	.0	.1	.2	*	.0	.3
10-11	.0	*	.0	.2	*	.0	.3	.0	.0	.0	*	.0	.0	*
12	.0	.0	*	.1	.1	.0	.2	.0	.0	.0	*	*	.0	*
13-16	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.1	.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	.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	.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	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.9	8.8	2.9	.3	.0	19.7	.4	4.5	4.5	1.5	.1	.0	11.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.6	.2	.0	.0	.0	2.0	.6	2.1	.2	.0	.0	.0	2.8	
1-2	.1	.8	1.1	.0	.0	.0	1.9	*	1.4	1.8	.0	.0	.0	3.2	
3-4	.0	.1	1.4	.2	.0	.0	1.7	.0	.5	1.7	.3	.0	.0	2.5	
5-6	.0	.1	1.0	.3	.0	.0	1.3	.0	.1	1.8	.4	*	.0	2.3	
7	.0	.0	.1	.1	.1	.0	.3	.0	.0	.6	1.0	.1	.0	1.7	
8-9	.0	.0	.0	.1	.0	.0	.1	.0	*	.1	.5	*	.0	.8	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	*	.1	*	.0	.2	
12	.0	.0	*	*	*	.0	.1	.0	.0	.0	*	*	.0	*	
13-16	.0	.0	.0	*	*	.0	.1	.0	.0	.1	.1	*	.0	.2	
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	*	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.5	3.7	.9	.1	.0	7.6	.7	4.1	6.2	2.5	.3	.0	13.8	92.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	17.5	1.8	.0	.0	.0	30.5	
1-2	.5	12.6	13.3	.0	.0	.0	26.4	
3-4	*	2.4	12.5	2.0	.0	.0	17.0	
5-6	.0	.7	7.7	3.7	.3	.0	12.3	
7	.0	.1	2.0	3.8	.5	*	6.4	
8-9	.0	*	.8	1.9	.4	.0	3.2	
10-11	.0	*	.2	1.4	.3	.0	1.9	
12	.0	.0	*	.3	.6	.0	.9	
13-16	.0	*	.2	.5	.6	.0	1.3	
17-19	.0	*	*	.0	.1	.0	.1	
20-22	.0	.0	.0	*	*	.0	*	
23-25	.0	.0	.0	.0	*	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3687
TOT PCT	11.8	33.4	38.5	13.5	2.9	*	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	10.4	9.3	6.1	1.7	.6	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1853	3
6-7	.1	.9	2.2	2.2	1.9	1.0	.8	.3	.3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	559	5
8-9	.0	.2	.5	.6	.5	.3	.5	.1	.1	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	163	6
10-11	.0	.6	.2	.2	.1	.1	.2	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	104	5
12-13	.0	.0	.7	*	.2	.1	.0	*	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	61	5
>13	.0	.0	.0	.3	.2	.1	.2	.0	.1	*	*	*	*	*	.0	.0	.0	.0	.0	43	11
INDET	15.6	10.8	14.6	6.9	4.1	1.6	.4	.2	.5	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	3373	3
TOTAL																				6156	3
PCT	16.5	22.9	27.4	16.3	8.7	3.7	2.3	.8	1.2	.2	.1	.1	*	*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0017 TATAR STRAIT N
50.1N 141.7E

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.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	.4	.0	.0	.0	.0	4	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	6	.1
69/70	.0	.0	.0	.0	.0	.0	.1	.4	.3	.0	.0	.0	8	.1
67/68	.0	.0	.0	.0	.0	.1	1.0	3.5	.6	.0	.0	.0	57	.8
65/66	.0	.0	.0	.0	.0	.1	1.2	6.8	1.3	.0	.0	.0	102	1.4
63/64	.0	.0	.0	.0	.0	.4	7.6	24.5	8.3	.0	.0	.0	448	6.3
61/62	.0	.0	.0	.0	.0	.6	9.1	28.8	11.5	.2	.0	.0	552	7.8
59/60	.0	.0	.0	.0	.3	1.8	20.9	18.2	16.3	1.7	.0	.0	650	9.1
57/58	.0	.0	.0	.0	.2	2.9	17.5	7.9	22.5	2.3	.0	.0	592	8.3
55/56	.0	.0	.0	.0	.2	5.7	13.8	3.0	14.7	5.5	.2	.0	468	6.6
53/54	.0	.0	.0	.0	.5	9.4	11.7	2.3	9.9	8.2	.2	.0	445	6.3
51/52	.0	.0	.0	.0	.5	12.8	7.4	1.0	6.2	14.2	.4	.0	435	6.1
49/50	.0	.0	.0	.0	1.2	13.2	5.0	.8	3.5	16.3	1.1	.0	408	5.7
47/48	.0	.0	.0	.0	3.2	16.0	2.8	.8	.9	8.2	2.8	.0	321	4.5
45/46	.0	.0	.0	.6	14.5	15.7	1.3	.5	2.0	15.2	8.2	.0	482	6.8
43/44	.0	.0	1.2	.6	12.2	7.1	.2	.5	.3	6.8	5.7	.8	260	3.7
41/42	.0	.0	.8	3.5	12.2	5.2	.3	.1	.3	7.8	8.3	.8	268	3.8
39/40	.0	.0	.4	1.9	19.6	5.4	.1	.0	.4	6.3	11.0	3.3	312	4.4
37/38	.0	.0	1.6	13.1	18.7	1.7	.1	.0	.7	2.8	12.3	7.5	285	4.0
35/36	.0	.0	3.5	24.3	9.9	.7	.0	.0	.3	2.6	8.5	10.0	236	3.3
33/34	.0	.0	20.9	26.5	5.1	1.0	.0	.0	.1	1.0	16.3	10.0	280	3.9
31/32	.0	.0	41.1	26.5	.9	.1	.0	.0	.1	.6	16.7	31.7	320	4.5
29/30	.0	.0	23.3	1.6	.8	.0	.0	.0	.0	.2	7.2	26.7	138	1.9
27/28	.0	.0	7.4	1.3	.0	.0	.0	.0	.0	.0	1.1	9.2	39	.5
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	0	0	258	313	647	994	1085	1077	1174	979	472	120	7119	100.0
MEAN			31.7	34.4	40.4	48.2	56.7	61.0	57.0	47.4	37.2	32.4	44.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN										
FEB										
MAR	1012	1008	1009	1008	1011	1007	1007	1005	1010	289
APR	1010	1006	1011	1003	1011	1007	1010	1007	1010	445
MAY	1010	1011	1011	1011	1011	1008	1011	1010	1011	738
JUN	1010	1009	1009	1009	1010	1008	1010	1007	1010	1080
JUL	1008	1008	1008	1006	1009	1008	1008	1008	1008	1247
AUG	1010	1007	1010	1008	1009	1008	1010	1009	1010	1233
SEP	1013	1011	1012	1010	1012	1010	1013	1010	1012	1311
OCT	1014	1007	1013	1009	1014	1009	1015	1009	1014	1066
NOV	1011	1007	1010	1007	1012	1006	1010	1007	1009	570
DEC	1011	1010	1010	1011	1011	1002	1011	1014	1010	159
ANN	1011	1008	1010	1008	1011	1007	1011	1009	1010	8138
OBS	2575	365	1253	295	2005	258	1065	322		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN									
FEB									
MAR	983	986	997	1005	1009	1014	1025	1031	1032
APR	981	983	990	1004	1010	1016	1026	1028	1031
MAY	986	989	997	1006	1011	1016	1022	1025	1026
JUN	989	995	1001	1006	1010	1013	1018	1021	1025
JUL	989	993	999	1005	1008	1011	1015	1018	1022
AUG	988	992	999	1005	1010	1014	1019	1021	1024
SEP	985	990	998	1008	1013	1017	1024	1029	1032
OCT	984	992	1000	1009	1014	1019	1025	1029	1030
NOV	983	987	992	1005	1010	1015	1022	1026	1027
DEC	981	985	994	1007	1012	1016	1020	1026	1027

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

AREA 0018 TATAR STRAIT S
47.9N 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	ND SIG WEA
N	.0	.0	.0	.0	40.2	.0	.0	40.2	1.4	.0	2.4	.0	.0	.0	.0	56.0
NE	.0	.0	.0	.0	21.5	.0	.0	21.5	.5	.0	.9	.0	.0	.0	.0	77.1
E	2.3	.0	.0	.0	17.1	.0	.0	19.4	5.4	.0	9.3	.0	.0	.0	.0	65.9
SE	1.6	.0	.0	.0	18.0	.0	.0	19.7	6.6	.0	.0	.0	.0	.0	.0	73.8
S	.0	.0	.0	.0	32.1	.0	.0	32.1	.0	.0	.0	.0	.0	.0	.0	67.9
SW	.0	.0	.0	.0	.0	4.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0	95.2
W	.0	.0	.0	.0	.0	.0	.0	.0	6.7	.0	1.9	.0	.0	.0	.0	91.3
NW	.0	.0	.0	.0	18.2	.0	.0	18.2	2.3	.0	.7	.0	.0	.0	.0	78.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.2	.0	.0	.0	25.8	.2	.0	26.2	2.1	.0	2.1	.0	.0	.0	.0	69.6
TOT OBS:	427															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	ND SIG WEA
00&03	.8	.0	.0	.0	27.8	.0	.0	28.6	3.0	.0	3.0	.0	.0	.0	.0	65.4
06&09	.0	.0	.0	.0	22.9	.0	.0	22.9	2.8	.0	1.8	.0	.0	.0	.0	72.5
12&15	.0	.0	.0	.0	27.8	.7	.0	28.5	2.8	.0	.7	.0	.0	.0	.0	68.1
18&21	.0	.0	.0	.0	22.8	.0	.0	22.8	1.3	.0	3.8	1.3	.0	.0	.0	70.9
TOT PCT	.2	.0	.0	.0	25.8	.2	.0	26.2	2.6	.0	2.2	.2	.0	.0	.0	68.8
TOT OBS:	465															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	6.4	19.9	14.4	3.6	.2		45.2	20.4	39.9	46.3	50.8	45.0	49.7	42.6	41.4	43.9
NE	.1	4.5	5.7	2.3	.5	.0		13.0	15.4	12.5	12.5	14.5	11.7	12.9	13.8	12.1	13.3
E	.5	4.0	2.4	.2	.0	.0		7.2	9.7	9.2	10.3	.0	11.7	2.9	12.8	.0	14.3
SE	.8	1.1	1.5	.1	.0	.0		3.5	9.2	2.7	5.1	2.4	8.3	2.4	4.3	.0	5.1
S	.2	.5	.8	.0	.0	.0		1.4	10.3	.9	5.1	2.4	.0	1.2	2.1	.0	.0
SW	.7	1.2	1.4	.5	.0	.0		3.8	12.2	4.8	.0	4.4	6.7	3.8	4.3	3.4	2.0
W	.0	1.3	3.7	.8	.0	.0		5.8	14.4	8.0	10.3	7.7	3.3	4.1	4.3	2.6	4.1
NW	.0	4.9	9.9	2.5	.4	.0		17.7	15.5	19.6	7.4	12.9	13.3	19.4	16.0	37.1	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	2.4	2.9	4.8	.0	3.5	.0	3.4	.0
TOT OBS	22	100	190	88	19	1	420		16.4	84	34	62	30	85	47	29	49
TOT PCT	5.2	23.8	45.2	21.0	4.5	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.7	12.5	20.8	7.1	2.1		45.2	20.4	41.7	48.9	47.2	42.9
NE	2.2	5.4	4.5	.8	.2		13.0	15.4	12.5	13.6	13.3	12.8
E	2.5	4.0	.7	.0	.0		7.2	9.7	9.5	3.8	6.4	9.0
SE	1.8	1.1	.5	.0	.0		3.5	9.2	3.4	4.3	3.0	3.2
S	.7	.5	.2	.0	.0		1.4	10.3	2.1	1.6	1.5	.0
SW	.8	1.8	1.1	.0	.0		3.8	12.2	3.4	5.2	4.0	2.6
W	.5	3.9	1.4	.0	.0		5.8	14.4	8.7	6.3	4.2	3.5
NW	2.3	8.3	5.6	1.4	.1		17.7	15.5	16.1	13.0	18.2	24.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.5	3.3	2.3	1.3
TOT OBS	67	158	146	39	10	420		16.4	118	92	132	78
TOT PCT	16.0	37.6	34.8	9.3	2.4		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

AREA 0018 TATAR STRAIT S
47.0N 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	1.7	17.8	54.2	19.5	4.2	.0	17.1	100.0	118
06&09	3.3	5.4	18.5	31.5	34.8	5.4	1.1	18.5	100.0	92
12&15	2.3	3.0	28.0	43.2	18.2	5.3	.0	15.7	100.0	132
18&21	1.3	1.3	32.1	51.3	11.5	2.6	.0	14.2	100.0	78
TOT	10	12	100	190	88	19	1	16.4		420
PCT	2.4	2.9	23.8	45.2	21.0	4.5	.2		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	3.8	12.9	20.3		6.1
NE	4.1	1.3	2.3	4.8		4.9
E	1.7	.6	1.9	1.2		4.7
SE	.1	.1	1.3	1.3		6.8
S	.3	.0	.7	1.0		6.6
SW	2.0	.5	1.3	1.9		4.8
W	3.2	.7	1.5	1.4		3.8
NW	10.0	1.8	3.2	3.8		3.3
VAR	.0	.0	.0	.0		.0
CALM	2.3	.0	1.2	.0		2.0
TOT OBS	76	23	68	93	260	5.0
TOT PCT	29.2	8.8	26.2	35.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.7	.0	1.1	4.7	6.8	10.8	2.2	1.2	.0	.4	11.7	
NE	.4	.0	.0	.1	1.8	2.2	.1	.4	.4	.0	7.2	
E	.0	.0	.0	.0	.8	.4	.0	.0	.4	.0	3.8	
SE	.0	.0	.0	.1	.8	1.3	.1	.0	.0	.0	.6	
S	.0	.0	.0	.7	.0	.7	.3	.0	.0	.0	.3	
SW	.0	.0	.0	.0	.8	1.3	.4	.8	.0	.0	2.5	
W	.0	.0	.0	.4	.7	1.9	.0	.0	.0	.0	3.8	
NW	.2	.0	.1	.2	1.8	2.7	.0	.4	.0	.0	13.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.1	
TOT OBS	11	0	3	14	36	55	8	7	2	1	121	260
TOT PCT	4.2	.0	1.2	6.2	13.8	21.2	3.1	2.7	.8	.4	46.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	3.1	3.5	3.5	3.5	3.8	3.8	3.8	3.8
* OR >3500	5.2	6.3	6.9	6.9	7.3	7.3	7.3	7.3
* OR >2000	14.9	22.6	25.3	26.7	28.8	28.8	29.2	29.2
* OR >1000	20.8	31.3	36.1	38.9	41.3	42.0	42.7	42.7
* OR >600	23.6	34.0	40.6	43.4	46.5	47.9	48.6	48.6
* OR >300	24.7	35.1	41.7	44.4	47.6	49.0	49.7	49.7
* OR >150	24.7	35.1	41.7	44.4	47.6	49.0	49.7	49.7
* OR > 0	24.7	35.8	44.4	48.3	51.7	53.5	54.9	54.9
TOTAL	71	103	128	139	149	154	158	158

TOTAL NUMBER OF OBS: 288

PCT FREQ NH <5/8: 45.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.4	5.9	8.9	4.6	5.6	5.3	8.6	7.2	29.6	4.9	304

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

AREA 0018 TATAR STRAIT S
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	1.6	.7	.2	.2	.2	.0	.0	.0	.0	.0	3.0	
<1/2	NO PCP	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	1.9	.8	.4	.2	.2	.0	.0	.0	.0	.0	3.5	
	PCP	4.2	.5	.5	.2	.0	.0	.0	.7	.0	.0	6.1	
1/2<1	NO PCP	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	4.4	.5	.5	.2	.0	.0	.0	.8	.0	.0	6.3	
	PCP	3.8	.6	.0	.1	.1	.0	.0	.4	.0	.0	4.7	
1<2	NO PCP	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	3.7	.6	.2	.1	.1	.0	.0	.4	.0	.0	5.2	
	PCP	4.2	.4	.4	.1	.2	.0	.0	1.7	.0	.0	6.8	
2<5	NO PCP	1.4	.2	.0	.2	.0	.0	.2	.2	.0	.0	2.3	
	TOT %	5.6	.6	.4	.3	.2	.0	.2	1.9	.0	.0	9.1	
	PCP	2.7	.5	.0	.0	.0	.2	.0	.3	.0	.0	3.7	
5<10	NO PCP	5.2	3.1	.7	1.1	.5	.8	.8	2.9	.0	.2	15.2	
	TOT %	7.9	3.6	.7	1.1	.5	1.0	.8	3.2	.0	.2	19.0	
	PCP	1.4	.2	.2	.0	.0	.0	.0	.2	.0	.0	2.1	
10+	NO PCP	18.6	6.2	5.0	1.6	.6	3.9	5.0	11.5	.0	2.3	54.8	
	TOT %	20.0	6.4	5.2	1.6	.6	3.9	5.0	11.8	.0	2.3	56.9	
	TOT OBS												427
	TOT PCT	43.4	12.5	7.4	3.5	1.6	4.9	6.1	18.0	.0	2.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0		.5	
	11-21	.5	.0	.2	.2	.0	.0	.0	.0	.0		1.0	
	22+	1.2	.0	.0	.0	.0	.0	.0	.0	.0		1.2	
	TOT %	1.9	.2	.2	.2	.0	.0	.0	.0	.0	.0	2.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.0	.2	.2	.0	.0	.0	.1	.0		.7	
	11-21	1.4	.2	.2	.0	.0	.0	.0	.5	.0		2.4	
	22+	2.9	.2	.0	.0	.0	.0	.0	.2	.0		3.4	
	TOT %	4.5	.5	.5	.2	.0	.0	.0	.8	.0	.0	6.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0		.5	
	11-21	1.5	.2	.0	.1	.1	.0	.0	.5	.0		2.4	
	22+	2.8	.5	.0	.0	.0	.0	.0	.1	.0		3.4	
	TOT %	4.5	.9	.0	.1	.1	.0	.0	.6	.0	.0	6.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.7	.6	.7	.1	.0	.0	.0	.2	.0		2.4	
	11-21	3.8	.0	.0	.1	.2	.0	.2	.8	.0		5.0	
	22+	2.8	.1	.0	.0	.0	.0	.0	1.0	.0		3.8	
	TOT %	7.3	.7	.7	.2	.2	.0	.2	2.0	.0	.0	11.3	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	
5<10	4-10	1.1	1.2	.2	.5	.4	.1	.0	1.3	.0		4.8	
	11-21	4.0	1.1	.4	.6	.1	.4	.7	1.6	.0		8.9	
	22+	2.5	1.4	.1	.0	.0	.3	.2	.1	.0		4.6	
	TOT %	7.6	3.7	.7	1.1	.5	.8	.8	3.0	.0	.2	18.8	
	0-3	.4	.1	.5	.8	.2	.7	.0	.0	.0	2.2	4.8	
10+	4-10	4.0	2.0	2.9	.2	.1	1.1	1.3	3.4	.0		14.9	
	11-21	8.9	3.9	1.6	.5	.4	1.0	2.8	6.4	.0		25.5	
	22+	6.1	.6	.1	.1	.0	.2	.7	1.5	.0		9.4	
	TOT %	19.4	6.6	5.1	1.6	.7	3.1	4.7	11.2	.0	2.2	54.8	
	TOT OBS												416
	TOT PCT	45.4	12.7	7.3	3.5	1.4	3.8	5.8	17.6	.0	2.4	100.0	

JANUARY

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.7	.0	.0	1.9	19.0	21.0	1.0	1.9	1.0	.0	51.4	48.6	105
06&09	4.1	.0	2.7	8.2	19.2	15.1	8.2	5.5	.0	.0	63.0	37.0	73
12&15	7.0	.0	1.2	7.0	5.8	29.1	2.3	1.2	.0	2.3	55.8	44.2	86
18&21	.0	.0	.0	10.0	3.3	16.7	3.3	.0	3.3	.0	36.7	63.3	30
TOT	15	0	3	17	40	63	10	7	2	2	159	135	294
PCT	5.1	.0	1.0	5.8	13.6	21.4	3.4	2.4	.7	.7	54.1	45.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.7	7.5	6.0	8.2	17.2	57.5	134
06&09	2.7	4.4	9.7	10.6	14.2	58.4	113
12&15	3.3	6.0	4.7	14.7	25.3	46.0	150
18&21	4.7	7.1	4.7	10.6	18.8	54.1	85
TOT	17	30	30	54	93	258	482
PCT	3.5	6.2	6.2	11.2	19.3	53.5	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.9	12.7	21.6	31.4	47.1	102
06&09	4.1	9.6	27.4	37.0	35.6	73
12&15	7.1	14.3	31.0	29.8	39.3	84
18&21	.0	3.4	20.7	20.7	58.6	29
TOT	15	33	74	90	124	288
PCT	5.2	11.5	25.7	31.3	43.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
25/29	.0	.0	3.6	.0	10.7	.0	3.6	.0	5	17.9
20/24	.0	.0	.0	3.6	.0	7.1	3.6	3.6	5	17.9
15/19	.0	.0	.0	14.3	17.9	17.9	14.3	.0	18	64.3
TOTAL	0	0	1	4	5	7	6	1	28	100.0
PCT	.0	.0	3.6	17.9	28.6	25.0	21.4	3.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
6.3	.9	3.6	.0	.0	7.1	.0	.0	.0	.0
7.1	3.6	3.6	.0	.0	.0	.0	3.6	.0	.0
25.9	16.1	3.6	.0	.0	3.6	2.7	12.5	.0	.0
39.3	20.5	10.7	.0	.0	10.7	2.7	16.1	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	39	38	32	19	5	0	-6	19.1	133
06&09	48	45	34	19	7	1	1	20.8	109
12&15	46	45	34	21	8	1	0	20.7	147
18&21	39	38	30	18	4	0	0	17.7	85
TOT	48	42	34	19	5	1	-6	19.7	474

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	22.2	33.3	33.3	11.1	.0	68	9
06&09	.0	22.2	33.3	22.2	11.1	11.1	70	9
12&15	.0	25.0	.0	25.0	50.0	.0	77	4
18&21	.0	16.7	33.3	16.7	33.3	.0	72	6
TOT	0	6	8	7	6	1	71	28

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.5
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.3	.0	4	.0	1.1
2	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.3	.0	3	.0	.8
1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	2	.0	.5
0	.0	.0	.0	.0	.0	.0	.0	.5	.3	.0	.0	.3	4	.0	1.1
-1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	2	.0	.5
-2	.0	.0	.0	.0	.0	.0	.5	1.9	.3	.0	.0	.0	10	.0	2.7
-3	.0	.0	.0	.0	.0	.0	.3	1.4	.3	.0	.0	.0	7	.0	1.9
-4	.0	.0	.0	.0	.0	.0	1.6	.8	.3	.3	.0	.0	11	.0	3.0
-5	.0	.0	.0	.0	.0	.3	1.9	.8	.5	.0	.0	.0	13	.0	3.6
-6	.0	.0	.0	.0	.0	.3	1.6	.3	.0	.0	.0	.0	8	.0	2.2
-7/-8	.0	.0	.0	.0	.0	.5	4.4	.8	.5	.0	.0	.0	23	.0	6.3
-9/-10	.0	.0	.0	.0	1.4	3.3	1.1	1.4	.3	.0	.0	.0	27	.3	7.1
-11/-13	.0	.0	.0	1.4	4.9	6.0	3.0	.5	.0	.0	.0	.0	58	.0	15.9
-14/-16	.0	.0	.8	4.7	4.1	3.6	1.4	.0	.0	.0	.0	.0	53	.5	14.1
-17/-19	.0	.0	2.2	3.8	4.9	1.4	.3	.0	.0	.0	.0	.0	46	.5	12.1
-20/-22	.0	2.5	1.9	.5	1.6	1.1	.3	.0	.0	.0	.0	.0	29	.3	7.7
-23/-25	.0	2.2	3.3	2.7	.0	.3	.0	.0	.0	.0	.0	.0	31	.5	8.0
-26/-30	1.4	2.7	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	21	.5	5.2
<-30	1.1	.5	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	7	.0	1.9
TOTAL	9	29	33	50	64	61	60	33	12	6	4	3	364	10	354
PCT	2.5	8.0	9.1	13.7	17.6	16.8	16.5	9.1	3.3	1.6	1.1	.8	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.9	.0	.0	.0	3.1
1-2	.0	4.0	3.4	.0	.0	.0	7.4
3-4	.0	.8	6.9	3.4	.0	.0	11.0
5-6	.0	.0	2.8	3.1	.0	.0	5.9
7	.0	.9	.9	2.9	.0	.0	4.6
8-9	.0	.0	3.3	2.0	.5	.0	5.8
10-11	.0	.0	.9	2.0	.0	.0	2.9
12	.0	.0	.0	1.4	1.0	.0	2.4
13-16	.0	.0	.0	.5	2.0	.0	2.5
17-19	.0	.0	.0	.0	.5	.5	1.0
20-22	.0	.0	.5	.0	.0	.0	.5
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.9	19.4	15.3	4.0	.5	47.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.1	.0	.0	.0	1.1
1-2	.0	2.0	3.3	.0	.0	.0	5.3
3-4	.0	.5	.8	.0	.0	.0	1.3
5-6	.0	.5	.1	.6	.0	.0	1.3
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.5	1.0	.0	.0	1.5
10-11	.0	.0	.0	.0	.5	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.0	5.3	1.8	.5	.0	11.5

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	.5	1.6	.0	.0	.0	2.1
3-4	.0	.5	.5	.0	.0	.0	1.0
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.5	.5	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	3.1	.0	.0	.0	5.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.0	.5	.0	.0	.0	.5
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.0	1.9	.0	.0	.0	2.5

PERIOD: (OVER-ALL) 1963-1974

JANUARY

AREA 0016 TATAR STRAIT S
47.9N 141.1E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.0	.0	.0	.0	.0	.4	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.6	.0	.0	.0	2.6
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.5	.1	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.0	1.1	.0	.0	.0	1.5	.0	2.3	2.1	.1	.0	.0	4.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	2.3	.0	.0	.0	.0	2.3	
1-2	.0	.0	1.6	.0	.0	.0	1.6	.0	1.5	2.5	.0	.0	.0	5.0	
3-4	.0	.0	1.1	.4	.0	.0	1.5	.0	.8	3.8	.1	.0	.0	4.6	
5-6	.0	.0	1.5	.4	.0	.0	1.9	.0	.0	1.1	.9	.0	.0	2.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.6	.0	.0	1.4	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.5	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	4.6	.8	.0	.0	6.1	.0	4.6	9.5	2.1	.5	.0	16.8	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	7.5	1.0	.0	.0	.0	13.5	
1-2	.5	10.0	14.5	.0	.0	.0	25.0	
3-4	.0	2.5	15.5	4.0	.0	.0	22.0	
5-6	.0	.5	7.0	5.0	.0	.0	12.5	
7	.0	1.5	3.0	3.5	.0	.0	8.0	
8-9	.0	.0	4.5	3.0	1.0	.0	8.5	
10-11	.0	.0	1.0	2.0	.5	.0	3.5	
12	.0	.0	.0	2.0	1.0	.0	3.0	
13-16	.0	.0	.0	.5	2.0	.0	2.5	
17-19	.0	.0	.0	.0	.5	.5	1.0	
20-22	.0	.0	.5	.0	.0	.0	.5	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	22.0	47.0	20.0	5.0	.5	100.0	200

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	9.5	12.8	6.6	5.4	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	4
6-7	.0	2.1	1.7	3.3	4.5	4.1	2.5	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	7
8-9	.0	.4	1.7	1.2	1.2	1.7	.0	1.2	.8	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	24	9
10-11	.0	1.2	.4	1.7	.4	.4	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
12-13	.0	.0	.4	.0	.0	.4	.0	.0	1.7	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	12
>13	.0	.0	.0	.4	.0	.0	.0	.0	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	12
INDET	8.3	6.2	3.3	2.5	.4	1.2	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	3
TOTAL	22	47	49	38	29	21	10	7	10	6	2	1	0	0	0	0	0	0	0	242	5
PCT	9.1	19.4	20.2	15.7	12.0	8.7	4.1	2.9	4.1	2.5	.8	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1939-1974

AREA 0018 TATAR STRAIT S
47.9N 141.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.5	.0	.0	.0	24.3	.0	.0	24.8	3.2	.0	1.7	.0	.4		.5	69.5
NE	2.3	.0	.0	.0	28.3	.0	.0	30.6	6.2	.4	5.0	.0	1.6		.0	56.2
E	1.7	.0	.0	.0	40.2	.0	.0	41.9	3.4	2.6	.0	.0	.0		.0	52.1
SE	.0	.0	10.0	.0	36.0	.0	.0	46.0	.0	.0	.0	.0	.0		.0	54.0
S	.0	.0	9.4	.0	39.1	.0	.0	48.4	.0	.0	6.3	.0	.0		.0	45.3
SW	.0	.0	1.0	.0	17.3	.0	.0	18.3	1.0	.0	4.8	.0	.0		.0	76.0
W	.0	.0	.0	.0	10.2	.0	.0	10.2	2.2	.0	2.2	.0	.0		.0	85.4
NW	.0	.0	.0	.0	12.9	.0	.0	12.9	3.0	.0	1.9	.0	.2		.0	82.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	.6	.0	.6	.0	21.9	.0	.0	23.0	3.1	.2	2.3	.0	.4		.2	70.8
TOT OBS:	521															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.6	.0	.6	.0	17.7	.0	.0	19.0	5.1	.6	3.8	.0	1.3		.0	70.3
06&09	.0	.0	.0	.0	25.8	.0	.0	25.8	3.9	.0	2.3	.0	.0		.0	68.0
12&15	.6	.0	1.2	.0	19.9	.0	.0	21.7	2.5	.0	2.5	.0	.0		.6	72.7
18&21	1.1	.0	.0	.0	25.6	.0	.0	26.7	.0	.0	.0	.0	.0		.0	73.3
TOT PCT	.6	.0	.6	.0	21.6	.0	.0	22.7	3.2	.2	2.4	.0	.4		.2	70.9
TOT OBS:	537															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	7.1	19.3	10.9	3.8	.4		41.8	19.9	39.5	50.0	43.9	55.2	37.4	34.4	37.5	55.2
NE	.6	3.9	3.9	1.8	.9	.3		11.3	15.7	7.9	17.6	9.0	20.7	10.0	13.3	9.9	17.2
E	.6	3.1	1.6	.6	.4	.2		6.4	13.5	9.2	5.4	8.7	5.2	5.3	4.4	5.6	3.4
SE	.0	1.6	.7	.3	.0	.0		2.5	11.7	2.1	2.7	.3	.0	2.4	12.2	.0	3.4
S	.0	.8	1.5	.8	.0	.0		3.0	15.6	2.3	.0	3.5	3.4	2.7	6.7	3.4	1.7
SW	.3	2.1	1.5	.4	.0	.0		4.3	11.6	3.3	3.4	6.4	3.4	3.4	10.0	.4	5.2
W	.5	3.4	1.5	.8	.0	.0		6.1	11.5	4.2	7.4	6.4	6.9	9.0	8.9	3.9	.0
NW	.3	8.5	10.1	3.0	.4	.0		22.3	14.2	30.6	13.5	20.6	5.2	24.0	10.0	35.8	10.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	1.9	.0	1.2	.0	5.8	.0	3.4	3.4
TOT OBS	24	150	198	91	27	4	494		16.0	107	37	86	29	103	45	58	29
TOT PCT	4.9	30.4	40.1	18.4	5.5	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	14.8	15.5	6.7	2.0		41.8	19.9	42.2	46.7	36.5	43.4
NE	2.3	4.9	2.6	1.0	.5		11.3	15.7	10.4	12.0	1 .0	12.4
E	2.1	2.2	1.5	.5	.2		6.4	13.5	7.5	7.8	.1	4.9
SE	1.0	1.0	.3	.3	.0		2.5	11.7	2.3	.2	3.4	1.1
S	.3	1.1	.8	.4	.0		3.0	15.6	1.7	3.5	3.9	2.9
SW	1.0	2.0	1.0	.2	.0		4.3	11.6	3.3	5.7	5.4	2.0
W	1.7	3.2	1.0	.2	.0		6.1	11.5	5.0	6.5	9.0	2.6
NW	3.0	12.4	5.3	1.5	.0		22.3	14.2	26.2	16.7	19.8	27.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	1.4	.9	4.1	3.4
TOT OBS	84	206	138	53	13	494		16.0	144	115	148	87
TOT PCT	17.0	41.7	27.9	10.7	2.6		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1939-1974

AREA 0018 TATAR STRAIT S
47.0N 141.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	2.8	31.3	42.4	16.0	4.9	1.4	16.1	100.0	144
06&09	.9	1.7	31.3	41.7	15.7	7.0	1.7	16.6	100.0	115
12&15	4.1	3.4	28.4	39.2	20.3	4.7	.0	15.5	100.0	148
18&21	3.4	1.1	31.0	35.6	23.0	5.7	.0	16.3	100.0	87
TOT	12	12	150	198	91	27	4	16.0		494
PCT	2.4	2.4	30.4	40.1	18.4	5.5	.8		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	11.0	4.4	12.7	10.9		4.9
NE	2.1	1.2	2.9	3.1		5.1
E	.7	.0	2.3	2.3		6.1
SE	.8	.3	.1	.7		3.8
S	.9	.2	.5	1.0		4.5
SW	3.1	.6	.6	.9		3.0
W	2.8	.5	2.9	.6		3.9
NW	19.2	3.5	7.1	3.3		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	.3	.8	.0		2.0
TOT OBS	137	41	112	85	375	4.3
TOT PCT	36.5	10.9	29.9	22.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.0	.0	.5	.8	4.9	12.2	1.2	.3	.3	.5	17.3	
NE	.6	.0	.0	.3	.3	3.6	.3	.0	.0	.3	4.0	
E	.5	.0	.0	.0	.5	1.9	.7	.0	.0	.0	1.7	
SE	.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.1	
S	.5	.0	.0	.0	.5	.3	.0	.0	.0	.0	1.3	
SW	.3	.0	.0	.0	.3	.3	.1	.0	.0	.0	4.2	
W	.2	.0	.0	.0	1.0	.2	.9	.3	.0	.3	3.9	
NW	.0	.0	.0	.0	2.1	6.0	.7	.0	.0	.1	18.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.0	.3	.0	.3	.0	2.1	
TOT OBS	12	0	2	4	37	92	18	2	2	4	202	375
TOT PCT	3.2	.0	.5	1.1	9.9	24.5	4.8	.5	.5	1.1	53.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >5000	1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4
* OR >3500	4.2	5.6	5.8	6.4	6.9	7.2	7.2	7.2
* OR >2000	11.9	17.5	23.9	27.6	29.7	31.3	31.8	31.8
* OR >1000	14.1	24.1	31.0	35.8	39.5	41.9	42.4	42.4
* OR >600	14.6	24.7	31.8	36.6	40.3	43.0	43.5	43.5
* OR >300	14.6	24.7	31.8	36.6	40.3	43.2	43.8	43.8
* OR >150	14.6	24.7	31.8	36.6	40.3	43.2	43.8	43.8
* OR > 0	14.6	24.7	32.6	37.9	42.4	45.9	46.9	47.2
TOTAL	55	93	123	143	160	173	177	178

TOTAL NUMBER OF OBS: 377 PCT FREQ NH <5/8: 52.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
24.1	6.8	11.9	5.6	4.1	5.4	7.1	11.4	20.7	2.9	411

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1939-1974

AREA 0018 TATAR STRAIT S
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.9	1.1	.9	.4	.2	.0	.0	.0	.0	.0	4.5	
	NO PCP	.5	.6	.0	.0	.0	.0	.0	.2	.0	.0	1.4	
	TOT %	2.4	1.7	.9	.4	.2	.0	.0	.2	.0	.0	5.8	
1/2<1	PCP	.7	1.0	.7	*	.4	.0	.1	.6	.0	.0	3.7	
	NO PCP	.1	.4	.0	.0	.0	.0	.0	*	.0	.0	.6	
	TOT %	.9	1.4	.7	*	.4	.0	.1	.7	.0	.0	4.3	
1<2	PCP	2.6	.5	.5	.2	.3	.6	.3	.8	.0	.0	6.0	
	NO PCP	.5	.2	.0	.0	.2	.0	.0	*	.0	.0	1.0	
	TOT %	3.2	.7	.5	.2	.5	.6	.3	.9	.0	.0	7.0	
2<5	PCP	3.3	1.2	.2	.2	.1	.2	.2	1.3	.0	.0	6.8	
	NO PCP	.3	.2	.3	*	.0	.1	.3	.4	.0	.2	1.9	
	TOT %	3.7	1.4	.5	.3	.1	.3	.5	1.8	.0	.2	8.8	
5<10	PCP	1.4	.0	.2	.0	.3	.1	.0	.2	.0	.0	2.1	
	NO PCP	7.2	1.7	.9	.0	.4	.7	.6	4.1	.0	.6	16.2	
	TOT %	8.6	1.7	1.1	.0	.7	.8	.6	4.3	.0	.6	18.3	
10+	PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	21.2	5.2	1.8	1.3	1.0	3.4	5.1	14.6	.0	2.1	55.6	
	TOT %	21.3	5.2	1.8	1.3	1.0	3.4	5.1	14.6	.0	2.1	55.8	
	TOT OBS												513
	TOT PCT	40.1	12.1	5.6	2.2	3.0	5.0	6.7	22.4	.0	2.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.1	.0	.0	.0	.0	.0	.0		.4	
	11-21	.8	.4	.4	.2	.2	.0	.1	.1	.0		2.2	
	22+	1.4	.9	.4	.2	.0	.0	.0	.0	.0		2.9	
	TOT %	2.2	1.6	.9	.4	.2	.0	.1	.1	.0	.0	5.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.6	.2	.0	.0	.0	.0	.0	.0		.8	
	11-21	.2	.6	.5	.1	.2	.0	.2	.3	.0		1.9	
	22+	.4	.3	.3	.0	.2	.0	.0	.2	.0		1.4	
	TOT %	.6	1.5	1.0	.1	.4	.0	.2	.5	.0	.0	4.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.6	.3	.1	.2	.0	.3	.3	.3	.0		2.1	
	11-21	.4	.1	.4	.1	.2	.0	.2	.2	.0		1.4	
	22+	2.6	.5	.2	.0	.4	.2	.0	.4	.0		4.3	
	TOT %	3.6	.9	.7	.3	.6	.5	.5	.9	.0	.0	7.8	
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.7	.6	.6	.1	.2	.3	.4	.5	.0		3.3	
	11-21	2.7	.4	.0	.4	.0	.2	.0	1.4	.0		5.2	
	22+	2.6	.5	.2	.1	.2	.0	.0	.5	.0		3.9	
	TOT %	6.0	1.5	1.0	.5	.4	.5	.4	2.4	.0	.0	12.6	
5<10	0-3	.0	.2	.2	.0	.0	.0	.2	.3	.0	.6	1.4	
	4-10	.7	.8	.8	.0	.0	.3	.3	1.2	.0		4.1	
	11-21	3.2	.6	.2	.0	.5	.5	.0	1.8	.0		6.8	
	22+	4.8	.2	.0	.0	.0	.0	.0	1.0	.0		6.0	
	TOT %	8.8	1.8	1.2	.0	.5	.8	.5	4.3	.0	.6	18.4	
10+	0-3	.2	.4	.2	.0	.0	.3	.4	.0	.0	1.9	3.3	
	4-10	5.3	1.3	1.1	1.3	.6	1.3	2.5	6.6	.0		20.0	
	11-21	11.8	2.0	.2	.0	.2	.8	1.0	6.5	.0		22.5	
	22+	3.2	.6	.0	.0	.0	.2	.8	1.0	.0		5.8	
	TOT %	20.4	4.3	1.5	1.3	.8	2.6	4.7	14.1	.0	1.9	51.5	
	TOT OBS												485
	TOT PCT	41.5	11.5	6.3	2.6	2.8	4.3	6.2	22.2	.0	2.5	100.0	

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PERIOD: (PRIMARY) 1961-1974
(OVER-ALL) 1939-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.1	.0	.8	3.1	13.4	22.8	5.5	.8	.8	2.4	52.8	47.2	127
06&09	2.0	.0	.0	.0	12.9	28.7	6.9	.0	1.0	1.0	52.5	47.5	101
12&15	5.5	.0	.9	.0	6.4	19.3	1.8	.9	.0	.9	35.8	64.2	109
18&21	1.7	.0	.0	.0	5.1	25.4	3.4	.0	.0	.0	35.6	64.4	59
TOT	13	0	2	4	40	94	18	4	2	5	180	216	396
PCT	3.3	.0	.5	1.0	10.1	23.7	4.5	.5	.5	1.3	45.5	54.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	5.5	4.3	5.5	11.7	17.8	55.2	183
06&09	5.2	4.4	8.1	13.3	15.6	53.3	135
12&15	7.1	4.8	8.9	8.3	19.0	51.8	168
18&21	5.4	5.4	7.5	14.0	17.2	50.5	93
TOT	33	26	42	64	98	296	559
PCT	5.9	4.7	7.5	11.4	17.5	53.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.3	10.7	24.6	31.1	44.3	122
06&09	2.0	10.1	28.3	26.3	45.5	99
12&15	6.0	12.0	20.0	20.0	60.0	100
18&21	1.8	12.5	25.0	12.5	62.5	56
TOT	13	42	92	91	194	377
PCT	3.4	11.1	24.4	24.1	51.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.7	.0	.0	.7	2	1.4
30/34	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
25/29	.0	.0	.7	.0	1.4	1.4	5.7	2.8	17	12.1
20/24	.0	.0	.0	.7	.0	3.5	2.8	4.3	16	11.3
15/19	.0	.0	.7	2.8	2.1	6.4	14.2	7.1	47	33.3
10/14	.0	.0	.0	.0	.0	7.8	12.8	2.1	32	22.7
5/9	.0	.0	.0	.0	.0	.7	15.6	2.1	26	18.4
TOTAL	0	0	2	5	6	29	72	27	141	100.0
PCT	.0	.0	1.4	3.5	4.3	20.6	51.1	19.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.7	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
6.6	1.2	.0	.7	.7	1.6	1.2	.0	.0	.0
3.4	1.8	1.8	.9	.5	.2	.0	2.1	.0	.7
10.3	6.2	4.1	.0	.5	1.6	.5	9.4	.0	.7
12.2	1.4	.0	.0	.7	.0	.0	6.9	.0	1.4
10.5	.7	.0	.0	.0	.0	.0	7.3	.0	.0
43.6	12.1	5.9	1.6	2.5	4.1	1.8	25.7	.0	2.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	45	42	32	17	3	-4	-8	17.5	160
06&09	45	39	32	18	9	3	0	19.1	130
12&15	46	41	34	18	7	-2	-4	18.8	167
18&21	46	43	30	16	1	-8	-8	16.7	99
TOT	46	41	33	18	5	-4	-8	18.2	556

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.9	8.6	28.6	45.7	14.3	81	35
06&09	.0	10.3	7.7	12.8	51.3	17.9	81	39
12&15	.0	5.4	.0	29.7	35.1	29.7	81	37
18&21	.0	.0	.0	12.9	74.2	12.9	85	31
TOT	0	7	6	30	72	27	82	142

PERIOD: (PRIMARY) 1941-1974
(OVER-ALL) 1963-1974

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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.5	.2	4	.0	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	2	.0	.5
2	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	.0	.2	5	.0	1.1
1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.2	.0
0	.0	.0	.0	.0	.0	.0	.5	.7	.5	.0	.0	.0	7	.0	1.6
-1	.0	.0	.0	.0	.0	.0	.2	.7	.5	.0	.0	.0	6	.2	1.1
-2	.0	.0	.0	.0	.0	.0	1.1	.7	.2	.0	.0	.2	10	.0	2.3
-3	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3	.0	.7
-4	.0	.0	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0	16	.0	3.6
-5	.0	.0	.0	.0	.0	.9	1.6	.5	.2	.0	.2	.0	15	.2	3.2
-6	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	4	.0	.9
-7/-8	.0	.0	.0	.0	.0	2.7	2.9	.9	.0	.5	.0	.0	31	.0	7.0
-9/-10	.0	.0	.0	.0	1.8	1.6	1.6	.2	.0	.0	.0	.0	23	.0	5.2
-11/-13	.0	.0	.0	1.6	5.9	4.1	.5	.2	.0	.0	.0	.0	54	.0	12.2
-14/-16	.0	.0	.2	7.0	4.1	1.6	.5	.0	.2	.2	.0	.0	61	.0	13.7
-17/-19	.0	.0	7.4	5.9	3.4	.9	.2	.0	.0	.0	.0	.0	79	.5	17.3
-20/-22	.0	1.8	4.3	3.4	.9	.5	.0	.0	.0	.0	.0	.0	48	.0	10.8
-23/-25	.5	4.1	3.2	.9	.5	.0	.0	.0	.0	.0	.0	.0	40	.5	8.6
-26/-30	1.1	.9	1.6	.2	.0	.2	.0	.0	.0	.0	.0	.0	18	.0	4.1
<-30	2.5	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	14	.2	2.9
TOTAL	18		75		74		59		11		5				
		30		85		59		20		4		4	444	8	436
PCT	4.1	6.8	16.9	19.1	16.7	13.3	13.3	4.5	2.5	.9	1.1	.9	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	3.2	3.5	.0	.0	.0	6.7
3-4	.0	.6	8.0	2.8	.0	.0	11.3
5-6	.0	.0	7.4	2.8	1.1	.0	11.2
7	.0	.0	.5	2.5	.0	.0	2.9
8-9	.0	.0	1.1	.6	.0	.0	1.7
10-11	.0	.0	.5	2.3	.0	.0	2.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.2	.0	.0	1.2
17-19	.0	.0	.5	.0	.0	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.6	.0	.6
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	21.3	12.1	1.7	.0	39.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.6	.8	.2	.0	.0	1.5
5-6	.6	.6	.3	.2	.8	.0	2.5
7	.0	.0	.2	.0	.6	.0	.8
8-9	.0	.0	.6	.0	.0	.2	.8
10-11	.0	.0	.6	.2	.0	.0	.8
12	.0	.0	.0	.6	.0	.6	1.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.2	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.5	2.6	1.1	1.4	.8	8.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	.6	.0	.0	.0	.0	.6
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.6	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.0	.0	.5	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	2.1	.0	.6	.5	5.7

SE

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

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0018 TATAR STRAIT S
47.9N 141.0E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.6	.2	.0	.0	.0	.0	.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	1.8	.0	.0	.0	2.0
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	.2	.0	.0	.0	.0	.2
5-6	.0	.0	.6	1.2	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.3	1.7	.0	.0	4.0	.6	.5	1.8	.0	.0	.0	2.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.6	2.1	.0	.0	.0	.0	2.8	
1-2	.0	3.2	.6	.0	.0	.0	3.8	.0	4.4	2.6	.0	.0	.0	7.1	
3-4	.0	.5	.6	.0	.0	.0	1.1	.0	1.2	7.2	.2	.0	.0	8.6	
5-6	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	3.1	.2	.0	.0	3.2	
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.6	.6	.0	.0	1.2	
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	2.0	1.4	.0	.0	3.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.6	2.9	1.1	.0	.0	8.6	.6	7.8	15.6	2.3	.0	.0	26.4	96.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	6.1	.0	.0	.0	.0	10.4	
1-2	.0	12.3	9.2	.0	.0	.0	21.5	
3-4	.0	3.1	18.4	3.1	.0	.0	24.5	
5-6	.6	.6	14.7	4.3	2.5	.0	22.7	
7	.0	.0	1.2	3.7	.6	.0	5.5	
8-9	.0	.0	4.3	3.1	.0	.6	8.0	
10-11	.0	.0	1.2	2.5	.0	.0	3.7	
12	.0	.0	.0	.6	.0	.6	1.2	
13-16	.0	.0	.0	1.2	.0	.0	1.2	
17-19	.0	.0	.6	.0	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.6	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	22.1	49.7	18.4	3.7	1.2	100.0	163

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.7	12.6	8.1	5.8	.4	.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
6-7	.0	.4	1.8	4.5	1.3	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
8-9	.0	.4	.9	1.8	.9	.9	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	5	7
10-11	.0	.9	.4	.9	.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	17
INDET	13.0	4.5	11.7	8.5	2.2	1.8	1.8	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
TOTAL	35	42	52	48	12	15	8	5	4	1	0	1	0	0	0	0	0	0	0	223	4
PCT	15.7	18.8	23.3	21.5	5.4	6.7	3.6	2.2	1.8	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1936-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	23.1	.0	.0	23.1	1.4	.0	.8	.0	.6	.4		73.9
NE	.0	.0	.0	.0	19.5	.0	.0	19.5	1.3	.0	.0	.0	.0	.0		79.2
E	.0	.0	.0	.0	22.0	.0	.0	22.0	.0	.0	.0	.0	.0	.0		78.0
SE	.0	.0	.0	.0	25.9	.0	.0	25.9	.0	.0	.0	.0	.0	.9		73.3
S	3.4	.0	3.4	.0	10.3	.0	.0	17.2	.0	.0	.9	.0	.0	1.3		80.6
SW	.0	.0	.0	.0	4.6	.0	2.3	6.9	.0	.0	1.1	.0	.0	.0		92.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0		97.5
NW	.0	.0	.0	.0	10.7	.0	.0	10.7	.3	.0	3.0	.0	.0	.0		86.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	3.7	.0	.0	3.7	.0	.0	.0	.0	3.7	.0		92.6
TOT PCT	.3	.0	.3	.0	16.5	.0	.1	17.2	.7	.0	1.0	.0	.3	.3		80.4
TOT OBS:	685															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.5	.0	15.7	.0	.5	16.8	1.1	.0	2.2	.0	.0	.0		80.0
06&09	.0	.0	.0	.0	13.8	.0	.0	13.8	.5	.0	1.1	.0	1.1	1.1		82.5
12&15	.5	.0	.5	.0	16.3	.0	.0	17.2	.9	.0	.5	.5	.0	.0		81.0
18&21	.9	.0	.0	.0	23.3	.0	.0	24.1	.0	.0	.9	.0	.0	.0		75.0
TOT PCT	.3	.0	.3	.0	16.6	.0	.1	17.3	.7	.0	1.1	.1	.3	.3		80.2
TOT OBS:	711															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	11.5	13.4	9.6	2.3	.2		38.3	17.0	34.7	52.7	37.6	46.7	35.9	33.1	36.1	39.3
NE	.3	5.7	5.6	1.8	1.0	.0		14.3	14.5	16.9	9.6	18.7	8.3	17.5	9.1	9.4	15.6
E	.2	4.3	2.5	1.1	.2	.0		8.2	12.9	8.8	6.4	4.9	4.2	5.0	13.0	12.2	15.6
SE	.2	2.7	.9	.6	.2	.0		4.6	11.5	2.5	2.1	2.7	8.3	4.4	8.4	7.2	3.3
S	.9	2.9	4.0	.7	.0	.0		8.5	11.7	9.0	2.1	10.9	4.2	10.3	8.4	8.9	9.0
SW	.4	2.9	1.2	.6	.0	.0		5.0	10.4	3.6	3.2	4.6	6.7	4.4	8.4	4.4	4.9
W	.6	2.4	1.0	.0	.0	.0		4.0	8.3	2.0	9.6	2.7	3.3	5.6	6.5	4.4	.0
NW	.6	4.5	6.1	2.0	.4	.2		13.7	15.2	17.1	14.4	12.1	18.3	9.1	13.0	17.2	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0	5.4	.0	5.8	.0	7.9	.0	.0	.0
TOT OBS	50	232	219	102	25	2	630		14.1	111	47	103	60	126	77	45	61
TOT PCT	7.9	36.8	34.8	16.2	4.0	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	7.1	13.2	11.1	5.9	.9		38.3	17.0	40.0	41.0	34.9	38.0
NE	3.1	7.0	3.0	.9	.3		14.3	14.5	14.7	14.9	14.3	13.0
E	1.7	3.7	2.5	.2	.0		8.2	12.9	8.1	4.6	8.0	14.2
SE	1.5	2.2	.7	.2	.0		4.6	11.5	2.4	4.8	5.9	5.0
S	2.6	3.2	2.7	.0	.0		8.5	11.7	7.0	8.4	9.6	9.0
SW	1.6	2.5	.7	.2	.0		5.0	10.4	3.5	5.4	5.9	4.7
W	1.6	2.2	.3	.0	.0		4.0	8.3	4.3	2.9	5.9	1.9
NW	2.8	5.4	4.1	1.0	.4		13.7	15.2	16.3	14.4	10.6	14.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	3.8	3.7	4.9	.6
TOT OBS	161	248	159	52	10	630		14.1	158	163	203	106
TOT PCT	25.6	39.4	25.2	8.3	1.6		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	3.8	3.2	25.3	44.9	18.4	3.8	.6	15.9	100.0	158
06&09	3.7	6.1	34.4	36.8	13.5	5.5	.0	13.9	100.0	183
12&15	4.9	4.9	41.9	30.5	13.8	3.9	.0	12.9	100.0	203
18&21	.0	2.8	48.1	24.5	21.7	1.9	.9	13.9	100.0	106
TOT	22	28	232	219	102	25	2	14.1		630
PCT	3.5	4.4	36.8	34.8	16.2	4.0	.3		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.4	2.8	14.2	6.0		4.7
NE	4.6	2.3	3.1	5.4		4.7
E	1.3	1.0	1.1	2.1		4.8
SE	.9	.2	.9	.9		4.9
S	2.7	1.1	2.4	4.1		5.2
SW	2.9	1.0	.6	1.9		3.7
W	3.8	.3	1.4	.9		2.8
NW	6.3	2.3	5.2	1.0		3.7
VAR	.0	.0	.0	.0		.0
CALM	3.0	.9	.9	.9		3.1
TOT OBS	151	52	129	100	432	4.3
TOT PCT	35.0	12.0	29.9	23.1	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.0	.0	.6	4.1	7.9	1.3	.5	.3	.7	16.1	
NE	.0	.5	.0	.2	1.9	3.4	.7	.0	.1	.2	8.5	
E	.2	.0	.0	.0	.8	1.0	.2	.0	.0	.2	3.1	
SE	.0	.0	.0	.2	.5	.6	.1	.0	.0	.1	1.3	
S	.5	.0	.0	.2	.9	1.7	1.0	.0	.2	1.0	4.7	
SW	.0	.0	.0	.2	1.0	.5	.2	.0	.0	.1	4.5	
W	.0	.0	.0	.0	.0	1.0	.2	.0	.0	.2	5.0	
NW	.2	.0	.0	.3	.9	2.8	.3	.0	.0	.7	9.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.5	.5	.0	.0	.0	.2	4.4	
TOT OBS	9	2	0	8	45	84	17	2	3	15	247	432
TOT PCT	2.1	.5	.0	1.9	10.4	19.4	3.9	.5	.7	3.5	57.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	3.8	3.8	4.0	4.0	4.0	4.0	4.0	4.0
* OR >5000	4.0	4.0	4.4	4.4	4.4	4.4	4.4	4.4
* OR >3500	6.6	7.7	8.4	8.6	8.8	8.8	8.8	8.8
* OR >2000	15.0	22.7	25.6	27.2	28.0	28.9	28.9	28.9
* OR >1000	19.4	30.5	34.0	35.5	37.3	38.9	39.1	39.1
* OR >600	19.9	31.6	35.8	37.3	39.3	40.8	41.1	41.1
* OR >300	19.9	31.6	35.8	37.3	39.3	40.8	41.1	41.1
* OR >150	20.3	32.0	36.2	37.7	39.7	41.3	41.5	41.5
* OR > 0	20.5	32.7	36.9	39.3	41.3	42.8	43.5	43.7
TOTAL	93	148	167	178	187	194	197	198

TOTAL NUMBER OF OBS: 453

PCT FREQ NH <5/8: 56.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
28.2	5.7	10.6	6.4	6.0	6.2	11.9	6.8	18.5	1.7	470

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	2.4	.4	.0	.8	.4	.0	.0	.2	.0	.0	4.2	
<1/2	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.7	.4	.0	.8	.4	.0	.0	.2	.0	.0	4.5	
	PCP	.9	1.6	.3	.1	.4	.1	.0	.1	.0	.0	3.6	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	1.6	.3	.1	.4	.1	.0	.1	.0	.0	3.6	
	PCP	.9	.0	.7	.0	.1	.0	.0	.5	.0	.0	2.3	
1<2	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	1.1	.0	.7	.0	.1	.0	.0	.5	.0	.0	2.5	
	PCP	2.8	.5	.6	.2	.4	.1	.0	.4	.0	.0	4.9	
2<5	NO PCP	.4	.2	.1	.0	.0	.3	.3	.0	.0	.0	1.3	
	TOT %	3.2	.7	.7	.2	.4	.4	.3	.4	.0	.0	6.3	
	PCP	1.3	.1	.0	.0	.4	.1	.0	.1	.0	.1	2.3	
5<10	NO PCP	6.3	3.7	1.0	1.3	2.1	1.3	.8	2.6	.0	.6	19.6	
	TOT %	7.6	3.8	1.0	1.3	2.5	1.5	.8	2.7	.0	.7	21.9	
	PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.3	
10+	NO PCP	20.2	7.1	4.6	1.8	4.9	4.3	4.7	10.2	.0	3.2	60.9	
	TOT %	20.2	7.2	4.6	1.8	4.9	4.3	4.7	10.4	.0	3.2	61.2	
	TOT OBS												688
	TOT PCT	35.8	13.7	7.3	4.3	8.7	6.4	5.7	14.3	.0	3.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.3	.2	.0	.0	.0	.0	.0	.0	.0		.5	
	11-21	.6	.0	.0	.2	.4	.0	.0	.1	.0		1.3	
	22+	3.2	.3	.0	.5	.0	.0	.0	.2	.0		4.1	
	TOT %	4.1	.5	.0	.7	.4	.0	.0	.2	.0	.0	5.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.2	.1	.1	.1	.0	.0	.0	.0		.5	
	11-21	.5	.2	.1	.0	.0	.0	.0	.0	.0		.8	
	22+	.6	1.4	.2	.1	.2	.0	.0	.2	.0		2.5	
	TOT %	1.1	1.8	.3	.2	.2	.0	.0	.2	.0	.0	3.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.3	.0	.2	.0	.0	.0	.0	.0	.0		.5	
	11-21	.1	.0	.6	.0	.5	.2	.0	.2	.0		1.6	
	22+	.8	.1	.5	.0	.0	.0	.0	.4	.0		1.8	
	TOT %	1.2	.1	1.3	.0	.5	.2	.0	.7	.0	.0	3.8	
	0-3	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.5	
2<5	4-10	1.0	.5	.5	.3	.2	.2	.3	.2	.0		3.0	
	11-21	1.0	.7	.3	*	.1	.3	.0	.2	.0		2.7	
	22+	2.0	.2	.2	.0	.2	.0	.0	.1	.0		2.5	
	TOT %	4.1	1.4	.9	.5	.4	.5	.3	.6	.0	.0	8.8	
	0-3	.0	.0	.0	*	.3	.2	.0	.0	.0	.6	1.1	
5<10	4-10	1.6	1.2	.5	.7	1.0	.9	.7	.6	.0		7.2	
	11-21	3.1	1.7	.4	.4	1.2	.4	.0	1.6	.0		8.9	
	22+	3.3	.6	.1	.2	.2	.2	.0	.6	.0		5.1	
	TOT %	8.1	3.5	1.1	1.3	2.6	1.6	.7	2.8	.0	.6	22.3	
	0-3	1.0	.3	.2	*	.6	.3	.6	.4	.0	2.9	6.4	
10+	4-10	8.2	3.7	3.1	1.7	1.7	1.8	1.4	3.7	.0		25.3	
	11-21	8.3	2.9	.9	.2	1.8	.4	1.0	3.9	.0		19.4	
	22+	2.3	.2	.3	.0	.1	.2	.0	1.2	.0		4.3	
	TOT %	19.9	7.1	4.5	1.9	4.3	2.7	3.1	9.2	.0	2.9	55.4	
	TOT OBS												628
	TOT PCT	38.4	14.4	8.0	4.6	8.4	4.9	4.1	13.7	.0	3.5	100.0	

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PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1934-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.4	.0	.0	2.8	14.8	24.6	5.6	1.4	.0	.7	51.4	48.6	142
06&09	3.0	.0	.0	2.3	8.3	23.5	2.3	.0	.8	7.6	47.7	52.3	132
12&15	2.3	1.5	.0	1.5	9.2	14.5	5.3	.0	1.5	2.3	38.2	61.8	131
18&21	1.9	.0	.0	.0	5.8	11.5	3.8	.0	.0	1.9	25.0	75.0	52
TOT	10	2	0	9	47	91	20	2	3	15	199	258	457
PCT	2.2	.4	.0	2.0	10.3	19.9	4.4	.4	.7	3.3	43.5	56.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.1	3.1	3.1	8.2	25.8	55.7	194
06&09	6.2	2.1	2.6	5.6	20.5	63.1	195
12&15	6.4	3.4	5.1	8.5	20.3	56.4	236
18&21	4.9	6.5	4.1	10.6	17.9	56.1	123
TOT	41	26	28	60	160	433	748
PCT	5.5	3.5	3.7	8.0	21.4	57.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.4	6.3	17.6	34.5	47.9	142
06&09	3.1	3.8	11.5	36.6	51.9	131
12&15	2.3	10.1	14.0	27.1	58.9	129
18&21	2.0	7.8	17.6	11.8	70.6	51
TOT	10	31	67	138	248	453
PCT	2.2	6.8	14.8	30.5	54.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
35/39	.0	.0	.0	.0	.7	.0	1.5	1.5	5	3.7
30/34	.0	.0	.0	2.2	4.4	5.9	3.7	2.9	26	19.1
25/29	.0	.7	.7	2.9	2.9	4.4	8.8	8.1	39	28.7
20/24	.0	.0	.0	.0	.7	2.2	1.5	10.3	20	14.7
15/19	.0	.0	.0	3.7	2.2	2.2	4.4	1.5	19	14.0
10/14	.0	.0	.0	.0	1.5	8.8	4.4	2.2	23	16.9
5/9	.0	.0	.0	.0	.0	.7	2.2	.0	4	2.9
TOTAL	0	1	1	12	17	33	36	36	136	100.0
PCT	.0	.7	.7	8.8	12.5	24.3	26.5	26.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.7	.0	.0	.9	.6	.7	.0	.7
2.8	.7	1.8	.6	5.7	2.4	2.8	.9	.0	1.5
8.3	5.3	2.9	.7	1.5	5.1	2.8	2.0	.0	.0
5.0	4.0	1.3	.0	.7	1.5	.0	.7	.0	1.5
4.4	3.7	.0	.0	.0	.0	.0	4.4	.0	1.5
9.2	.4	.7	.0	.0	.0	.7	5.9	.0	.0
1.5	.0	.0	.0	.0	.0	.0	1.5	.0	.0
31.1	14.2	7.5	1.3	7.9	9.9	6.8	16.2	.0	5.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	41	39	36	27	12	8	7	25.8	188
06&09	43	41	37	28	15	12	10	27.6	189
12&15	46	43	36	28	14	9	8	26.8	233
18&21	43	42	34	26	10	7	5	24.7	122
TOT	46	41	36	27	13	9	5	26.4	732

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	14.3	11.4	22.9	28.6	22.9	78	35
06&09	.0	9.8	9.8	31.7	22.0	26.8	79	41
12&15	.0	8.6	17.1	17.1	22.9	34.3	79	35
18&21	.0	7.4	11.1	22.2	37.0	22.2	81	27
TOT	0	14	17	33	37	37	79	138

PERIOD: (PRIMARY) 1940-1974
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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	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.7	.2	.0	5	.0	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.2	.3	.3	.0	5	.0	.9
4	.0	.0	.0	.0	.0	.0	.2	1.0	.3	.0	.0	9	.2	1.4
3	.0	.0	.0	.0	.0	.0	.5	.4	.2	.2	.0	7	.0	1.2
2	.0	.0	.0	.0	.0	.0	1.6	1.2	.2	.2	.2	19	.0	3.3
1	.0	.0	.0	.0	.0	.0	1.7	1.4	.3	.0	.0	20	.0	3.5
0	.0	.0	.0	.0	.0	.7	3.5	2.6	.3	.2	.0	42	.0	7.3
-1	.0	.0	.0	.0	.0	1.2	.9	.3	.0	.0	.0	14	.0	2.4
-2	.0	.0	.0	.0	.0	2.8	4.5	.9	.2	.0	.0	48	.0	8.4
-3	.0	.0	.0	.0	.0	1.0	1.4	1.0	.0	.0	.0	20	.0	3.5
-4	.0	.0	.0	.0	.0	5.6	3.5	.5	.0	.2	.0	56	.0	9.8
-5	.0	.0	.0	.0	.9	5.1	2.4	.2	.0	.0	.0	49	.0	8.6
-6	.0	.0	.0	.0	.3	1.9	1.2	.0	.0	.0	.0	20	.0	3.5
-7/-8	.0	.0	.0	.0	5.1	4.9	1.6	.0	.0	.0	.0	66	.0	11.5
-9/-10	.0	.0	.0	1.6	2.8	3.0	.7	.2	.0	.0	.0	47	.2	8.0
-11/-13	.0	.0	.3	2.8	3.1	.9	1.0	.2	.0	.0	.0	48	.2	8.2
-14/-16	.0	.2	3.7	1.0	1.2	.9	.5	.0	.0	.0	.0	43	.5	7.5
-17/-19	.0	2.4	2.8	.3	.2	.0	.2	.0	.0	.0	.0	34	.0	5.9
-20/-22	.2	.9	1.0	.0	.2	.0	.0	.0	.0	.0	.0	13	.0	2.3
-23/-25	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	1.0
TOTAL	4	22	46	33	79	160	146	58	15	9	1	573	6	567
PCT	.7	3.8	8.0	5.8	13.8	27.9	25.5	10.1	2.6	1.6	.2	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.9	6.5	.3	.0	.0	.0	8.7
1-2	.0	3.2	3.6	.0	.0	.0	8.8
3-4	.0	1.0	5.1	.3	.0	.0	6.5
5-6	.0	.0	4.5	1.0	.0	.0	5.5
7	.0	.3	.0	2.5	.0	.0	2.8
8-9	.0	.0	1.1	.3	.0	.0	1.4
10-11	.0	.0	.0	.3	.3	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.3	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	13.0	14.7	4.8	.7	.0	35.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.2	.0	.0	.0	.0	3.2
1-2	.0	2.4	2.3	.0	.0	.0	4.7
3-4	.0	1.0	2.5	.0	.0	.0	3.5
5-6	.0	.3	1.4	.3	.0	.0	2.3
7	.0	.0	.3	.4	.0	.0	.8
8-9	.0	.0	.4	.1	.0	.0	.5
10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.3	1.0	.0	1.4
17-19	.0	.0	.0	.0	.7	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.0	7.3	1.6	2.1	.0	17.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.7	1.1	.0	.0	.0	1.8
3-4	.0	.6	1.4	.0	.0	.0	2.0
5-6	.0	.0	.3	.3	.0	.0	.6
7	.0	.3	.0	.3	.3	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.0	.6	.3	.0	7.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.6	1.5	.0	.0	.0	2.1
3-4	.1	.1	.0	.0	.0	.0	.2
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	1.6	.0	.0	.0	3.6

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.6	.3	.0	.0	.0	1.9	.4	1.2	.0	.0	.0	.0	1.6
1-2	.0	2.4	1.6	.0	.0	.0	4.1	.0	1.3	.4	.0	.0	.0	1.7
3-4	.3	.0	1.6	.9	.0	.0	2.8	.0	.3	.4	.1	.0	.0	.8
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.1	.3	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	3.0	5.6	.9	.0	.0	10.8	.4	2.9	1.2	.1	.0	.0	4.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.1	.3	.0	.0	.0	1.5	.2	2.1	.0	.0	.0	.0	2.2	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	.7	2.8	.0	.0	.0	3.5	
3-4	.0	.0	.9	.0	.0	.0	.9	.0	.3	2.2	.0	.0	.0	2.5	
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.0	1.2	.3	.0	.0	1.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.9	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.6	1.3	.0	.0	.0	3.9	.2	3.1	6.7	1.3	.0	.0	11.3	94.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.0	17.6	1.0	.0	.0	.0	27.6	
1-2	.0	14.5	13.4	.0	.0	.0	27.9	
3-4	.3	3.4	14.1	1.4	.0	.0	19.3	
5-6	.0	.7	9.0	2.1	.0	.0	11.7	
7	.0	.7	1.0	4.1	.3	.0	6.2	
8-9	.0	.0	1.7	.3	.0	.0	2.1	
10-11	.0	.0	.3	.7	.3	.0	1.4	
12	.0	.0	.0	.0	.3	.0	.3	
13-16	.0	.0	.3	.7	1.4	.0	2.4	
17-19	.0	.0	.3	.0	.7	.0	1.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								290
TOT PCT	9.3	36.9	41.4	9.3	3.1	.0	100.0	

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	16.9	10.7	3.0	1.8	.6	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	125	3
6-7	.6	2.7	3.8	3.0	3.6	1.2	2.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	5
8-9	.0	.3	.6	.9	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
10-11	.0	.6	.6	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
12-13	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
>13	.0	.0	.0	1.2	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
INDET	17.2	5.3	7.1	3.0	2.7	.6	.6	.3	1.5	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	132	3
TOTAL	65	87	79	45	28	8	10	1	9	5	1	0	0	0	0	0	0	0	0	338	4
PCT	19.2	25.7	23.4	13.3	8.3	2.4	3.0	.3	2.7	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	1.3	.0	16.9	.0	.0	18.2	1.3	.0	5.1	.0	.0	.0	75.5
NE	3.3	1.7	3.3	.0	15.0	.0	.0	23.3	3.3	.0	5.4	.0	.0	.0	67.9
E	.0	.0	.0	.0	11.9	.0	.0	11.9	1.6	.0	8.1	.0	.0	.0	78.4
SE	6.4	.0	.0	.0	6.0	.0	.0	12.5	2.1	.0	8.9	.0	.0	.0	76.6
S	5.9	.0	3.2	.0	1.8	.0	.0	10.8	1.4	.0	7.7	.8	.0	.0	79.3
SW	1.9	.0	.9	.0	1.4	.0	.9	5.2	.9	.0	6.6	1.9	.0	.0	85.3
W	.0	.0	.0	.0	8.1	.0	.0	8.1	.0	.0	1.3	.0	1.3	.0	87.9
NW	1.7	.0	.0	.0	3.8	.0	.0	5.5	1.7	.0	5.5	.0	.4	.0	86.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	6.3	.0	.0	.0	81.3
TOT PCT	2.8	.2	1.6	.0	6.9	.0	.2	11.6	1.5	.0	6.4	.5	.2	.0	79.9
TOT OBS:	612														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.6	.0	.6	.0	6.0	.0	.0	7.2	1.8	.0	5.4	.6	.6	.0	84.3
06&09	3.0	.0	1.8	.0	4.2	.0	.0	9.0	.6	.0	6.6	.6	.0	.0	83.1
12&15	3.7	.5	1.6	.0	7.0	.0	.0	12.8	2.7	.0	5.9	.5	.0	.0	78.1
18&21	4.8	.0	2.9	.0	11.4	.0	1.0	20.0	1.0	.0	7.6	.0	.0	.0	71.4
TOT PCT	2.9	.2	1.6	.0	6.7	.0	.2	11.5	1.6	.0	6.3	.5	.2	.0	80.0
TOT OBS:	624														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	3.9	5.6	3.1	.2	.0		13.3	15.1	14.5	11.3	10.7	9.1	12.4	15.0	22.9	13.7
NE	.7	3.1	3.2	2.1	.2	.3		9.7	15.6	9.7	14.2	10.4	3.8	10.1	9.3	11.2	9.7
E	.9	3.1	2.1	1.5	.0	.0		7.6	13.1	4.7	3.8	4.4	11.4	11.6	9.3	6.4	8.9
SE	1.2	5.8	3.7	1.2	.0	.0		11.9	11.0	8.9	4.7	11.0	12.1	13.6	15.7	15.4	13.7
S	.6	8.6	6.0	4.2	.0	.0		19.4	13.8	14.7	24.5	22.0	22.7	20.8	15.0	18.1	18.5
SW	.9	6.5	7.0	2.7	.2	.0		17.2	13.6	17.6	20.8	24.2	21.2	10.9	18.6	11.7	12.1
W	.3	3.2	2.9	1.5	.0	.0		8.0	13.3	12.9	5.7	6.6	10.6	4.5	8.6	8.0	7.3
NW	.7	4.5	2.7	1.7	.3	.0		10.0	13.1	11.8	11.3	8.5	9.1	12.1	7.1	4.3	12.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.9							2.9	.0	5.3	3.8	2.2	.0	4.0	1.4	2.1	3.2
TOT OBS	51	227	194	106	5	2	585		13.2	95	53	91	66	101	70	47	62
TOT PCT	8.7	38.8	33.2	18.1	.9	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	4.7	5.0	.6	.2		13.3	15.1	13.3	10.0	13.5	17.7
NE	2.4	3.1	3.0	.9	.3		9.7	15.6	11.3	7.6	9.8	10.3
E	2.2	2.8	1.9	.7	.0		7.6	12.1	4.4	7.3	10.7	7.8
SE	4.0	5.4	2.1	.4	.0		11.9	11.0	7.4	11.5	14.5	14.4
S	4.1	9.0	4.7	1.6	.0		19.4	13.8	18.2	22.3	18.4	18.3
SW	3.3	7.4	6.0	.4	.0		17.2	13.6	18.6	22.9	14.0	11.9
W	2.3	2.9	2.6	.2	.0		8.0	13.3	10.3	8.3	6.1	7.6
NW	2.7	4.2	2.3	.5	.2		10.0	13.1	11.7	8.8	10.1	9.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.0	4.7	1.3	2.9	2.8
TOT OBS	156	232	162	31	4	585		13.2	148	197	171	109
TOT PCT	26.7	39.7	27.7	5.3	.7		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1938-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.7	5.4	32.4	37.8	17.6	1.4	.7	13.9	100.0	148
06&09	1.3	8.3	40.1	25.5	24.2	.6	.0	13.3	100.0	157
12&15	2.9	3.5	39.2	38.0	14.6	1.2	.6	13.4	100.0	171
18&21	2.8	6.4	45.0	30.3	15.6	.0	.0	11.9	100.0	109
TOT	17	34	227	194	106	5	2	13.2		585
PCT	2.9	5.8	38.8	33.2	18.1	.9	.3		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	.3	4.0	4.2		5.2
NE	3.1	.3	1.5	4.7		5.3
E	1.4	.5	2.4	2.5		5.6
SE	1.5	.8	2.2	6.2		6.3
S	5.7	1.5	4.2	10.3		5.3
SW	5.6	1.9	4.1	5.2		4.4
W	2.7	.6	2.3	2.3		4.6
NW	5.0	.9	2.6	2.4		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.2	.3	.6	1.2		4.5
TOT OBS	96	23	78	127	324	5.0
TOT PCT	29.6	7.1	24.1	39.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.0	.0	.0	.9	3.2	.8	.0	.6	.3	5.0	
NE	.7	.0	.0	1.2	.6	2.2	.6	.0	.0	.3	4.0	
E	.2	.0	.3	.0	1.2	1.4	1.0	.0	.0	.2	2.5	
SE	1.5	.0	.3	.3	2.2	2.0	.5	.1	.0	.7	3.1	
S	2.3	.0	.3	.3	1.8	6.2	1.2	.5	.6	.0	8.3	
SW	.5	.0	.0	.7	.7	4.1	1.1	.3	.1	.0	9.4	
W	.3	.0	.0	.0	.3	1.9	1.1	.0	.2	.3	3.9	
NW	.6	.0	.0	.3	.6	1.3	.8	.0	.3	.3	6.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.6	.3	.0	.0	.0	.3	.3	.0	.0	.3	1.5	
TOT OBS	25	1	3	10	27	73	24	3	6	8	144	324
TOT PCT	7.7	.3	.9	3.1	8.3	22.5	7.4	.9	1.9	2.5	44.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	3.1	4.0	4.0	4.0	4.3	4.3	4.3	4.3
* OR >5000	3.7	4.7	5.0	5.0	5.3	5.3	5.3	5.3
* OR >3500	7.5	12.4	13.0	13.0	13.4	13.4	13.4	13.4
* OR >2000	18.9	31.1	33.2	33.5	34.5	35.7	36.0	36.0
* OR >1000	21.7	36.0	39.8	40.4	42.2	44.1	44.4	44.4
* OR >600	22.7	38.2	42.2	43.2	45.3	47.2	47.5	47.5
* OR >300	22.7	38.5	42.9	43.8	46.0	47.8	48.1	48.1
* OR >150	23.0	38.8	43.2	44.1	46.3	48.1	48.4	48.4
* OR > 0	23.9	41.3	46.0	48.4	51.2	54.7	55.6	55.9
TOTAL	77	133	148	156	165	176	179	180

TOTAL NUMBER OF OBS: 322

PCT FREQ NH <5/8: 44.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
23.7	3.8	6.3	3.8	4.9	7.6	4.9	7.1	31.1	6.8	367

PERIOD: (PRIMARY) 1938-1974
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	1.0	.6	.1	.4	.2	.2	.5	*	.0	.0	3.1	
<1/2	NO PCP	.2	.5	.3	.2	.9	1.0	.0	.3	.0	.0	3.4	
	TOT %	1.2	1.1	.4	.6	1.2	1.2	.5	.4	.0	.0	6.5	
	PCP	.5	.2	.3	.0	.3	.0	.2	.0	.0	.2	1.6	
1/2<1	NO PCP	.0	.3	.1	.2	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.5	.5	.4	.2	.3	.0	.2	.0	.0	.2	2.3	
	PCP	.5	.7	.1	.5	.0	.0	.0	.2	.0	.0	2.0	
1<2	NO PCP	.0	.0	.0	.2	.3	*	.0	.0	.0	.0	.5	
	TOT %	.5	.7	.1	.7	.3	*	.0	.2	.0	.0	2.4	
	PCP	.2	.3	.5	.4	1.1	.6	.0	.2	.0	.0	3.3	
2<5	NO PCP	.8	.0	.3	.5	1.1	.7	.2	.2	.0	.0	3.9	
	TOT %	1.0	.3	.8	1.0	2.2	1.2	.2	.4	.0	.0	7.2	
	PCP	.3	.3	.0	.1	.6	.2	.0	.0	.0	.2	1.6	
5<10	NO PCP	2.5	1.4	1.0	2.0	5.4	3.6	1.9	1.1	.0	.2	19.1	
	TOT %	2.9	1.7	1.0	2.0	6.0	3.8	1.9	1.1	.0	.3	20.7	
	PCP	.0	.3	.0	.0	.0	.0	.0	.2	.0	.0	.5	
10+	NO PCP	7.0	5.3	4.9	7.0	10.6	11.0	5.3	7.3	.0	2.1	60.4	
	TOT %	7.0	5.6	4.9	7.0	10.6	11.0	5.3	7.4	.0	2.1	60.8	
	TOT OBS												613
	TOT PCT	13.0	10.0	7.7	11.5	20.5	17.3	8.1	9.5	.0	2.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.2	.2	.0	.0	.2	.2	.0	.0	.0	.7	
<1/2	4-10	.4	.1	.0	.3	.3	.7	.3	.0	.0		2.3	
	11-21	.3	.2	.0	.3	.6	.4	.0	.2	.0		1.9	
	22+	.4	.5	.1	.2	.0	.0	.0	.3	.0		1.6	
	TOT %	1.2	.9	.3	.8	.9	1.3	.5	.6	.0	.0	6.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.2	.2	.1	*	.2	.0	.2	.0	.0		.9	
	22+	.3	.3	.0	.0	.2	.0	.0	.2	.0		1.0	
	TOT %	.5	.5	.1	.2	.3	.0	.2	.2	.0	.2	2.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.2	.0	.0	.5	.2	.0	.0	.0	.0		.9	
	11-21	.2	.2	.0	.0	.2	.0	.0	.0	.0		.5	
	22+	.2	.6	.1	.2	.2	.0	.0	.2	.0		1.4	
	TOT %	.5	.7	.1	.7	.5	.0	.0	.2	.0	.0	2.8	
	0-3	.0	.0	.0	.0	.0	.2	.1	*	.0	.0	.3	
2<5	4-10	.5	.5	.5	.6	1.3	.3	.1	.9	.0		4.9	
	11-21	.3	.1	.3	.8	1.3	.9	.0	.3	.0		4.0	
	22+	.7	.0	.2	.0	1.0	.7	.0	.2	.0		2.8	
	TOT %	1.3	.6	1.0	1.3	3.7	2.1	.3	1.5	.0	.0	12.0	
	0-3	.2	.0	.2	.1	.4	.0	.0	.0	.0	.3	1.2	
5<10	4-10	.3	.3	.5	.9	1.4	.8	.3	.7	.0		5.2	
	11-21	1.3	.7	.3	.5	2.0	1.9	.8	*	.0		7.5	
	22+	.7	.6	.2	.7	1.6	1.0	.7	.3	.0		5.7	
	TOT %	2.6	1.6	1.1	2.2	5.3	3.6	1.7	1.1	.0	.3	19.6	
	0-3	.4	.6	.5	1.1	.2	.5	.0	.7	.0	2.3	6.3	
10+	4-10	2.5	2.0	2.2	3.4	5.5	4.8	2.5	3.0	.0		25.9	
	11-21	3.3	1.9	1.4	2.0	1.6	3.9	1.9	2.1	.0		18.1	
	22+	1.0	.7	.6	.2	1.3	1.2	.9	.9	.0		6.8	
	TOT %	7.1	5.2	4.7	6.7	8.6	10.4	5.3	6.6	.0	2.3	56.9	
	TOT OBS												576
	TOT PCT	13.4	9.6	7.4	11.9	19.4	17.4	8.0	10.1	.0	2.8	100.0	

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1933-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.1	.0	.9	2.6	9.4	23.9	9.4	.0	3.4	2.6	57.3	42.7	117
06&09	6.5	.0	1.1	4.3	7.6	26.1	7.6	3.3	2.2	3.3	62.0	38.0	92
12&15	8.1	1.0	1.0	3.0	8.1	18.2	6.1	.0	.0	2.0	47.5	52.5	99
18&21	18.8	.0	.0	.0	3.1	12.5	6.3	.0	.0	.0	40.6	59.4	32
TOT	26	1	3	10	27	74	26	3	6	8	184	156	340
PCT	7.6	.3	.9	2.9	7.9	21.8	7.6	.9	1.8	2.4	54.1	45.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	4.6	2.3	1.7	9.7	16.0	65.7	175
06&09	4.1	1.2	2.9	10.5	20.9	60.5	172
12&15	8.5	3.0	2.5	11.9	23.4	50.7	201
18&21	9.6	2.6	4.3	13.9	19.1	50.4	115
TOT	43	15	18	75	133	379	663
PCT	6.5	2.3	2.7	11.3	20.1	57.2	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 <5070	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	4.6	11.0	19.3	42.2	38.5	109
06&09	5.6	8.9	17.8	43.3	38.9	90
12&15	8.6	14.0	21.5	29.0	49.5	93
18&21	23.3	30.0	33.3	13.3	53.3	30
TOT	25	42	67	116	139	322
PCT	7.8	13.0	20.8	36.0	43.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	3.0	.0	.0	6.1	3	9.1
40/44	.0	.0	.0	3.0	.0	.0	3.0	.0	2	6.1
35/39	.0	.0	.0	6.1	9.1	9.1	9.1	12.1	15	45.5
30/34	.0	.0	.0	9.1	.0	3.0	6.1	12.1	10	30.3
25/29	.0	.0	.0	.0	6.1	3.0	.0	.0	3	9.1
TOTAL	0	0	0	6	6	5	6	10	33	100.0
PCT	.0	.0	.0	18.2	18.2	15.2	18.2	30.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	4.5	4.5	.0	.0	.0	.0	.0
	.0	.0	3.0	.0	.0	.0	2.3	.8	.0	.0
	3.0	3.8	4.5	4.5	13.6	9.8	3.0	.0	.0	3.0
	6.1	6.1	3.0	3.0	8.3	.8	.0	3.0	.0	.0
	.0	.0	.0	.0	.0	.0	3.0	6.1	.0	.0
	9.1	9.8	10.6	12.1	26.5	10.6	8.3	9.8	.0	3.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	52	51	46	37	28	16	13	36.4	170
06&09	51	50	48	38	28	23	19	38.4	159
12&15	58	50	43	36	27	21	16	35.6	184
18&21	48	46	44	35	23	17	17	34.1	111
TOT	58	50	46	37	27	19	13	36.2	624

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	21.4	7.1	21.4	21.4	28.6	79	14
06&09	.0	12.5	37.5	12.5	25.0	12.5	73	8
12&15	.0	14.3	14.3	14.3	14.3	42.9	80	7
18&21	.0	25.0	25.0	.0	.0	50.0	79	4
TOT	0	6	6	5	6	10	78	33

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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	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.9	.2	5	.0	1.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	4	.0	.9
9/10	.0	.0	.0	.0	.0	.0	.4	.4	2.2	.4	16	.4	3.1
7/8	.0	.0	.0	.0	.0	.0	1.1	2.5	1.8	.4	26	.2	5.6
6	.0	.0	.0	.0	.0	.4	.9	1.3	.0	.2	13	.0	2.9
5	.0	.0	.0	.0	.0	.4	4.3	3.6	.4	.0	39	.7	8.1
4	.0	.0	.0	.0	.4	.7	4.9	1.8	.2	.0	36	.7	7.4
3	.0	.0	.0	.0	.2	.9	2.2	.9	.0	.0	19	.9	3.4
2	.0	.0	.0	.0	.0	3.4	6.7	1.8	.2	.0	54	.7	11.4
1	.0	.0	.0	.0	.4	1.3	1.8	1.5	.0	.0	23	.0	5.1
0	.0	.0	.0	.0	1.1	5.8	3.8	.4	.2	.0	51	.2	11.2
-1	.0	.0	.0	.0	.7	.7	1.5	.0	.0	.0	13	.0	2.9
-2	.0	.0	.0	.4	2.5	3.1	1.6	.7	.0	.0	37	.9	7.4
-3	.0	.0	.0	.0	1.1	.7	.2	.0	.2	.0	10	.4	1.8
-4	.0	.0	.0	1.6	2.7	.6	.2	.0	.0	.0	23	.0	5.1
-5	.0	.0	.0	2.0	2.4	1.6	.2	.0	.0	.0	28	.0	6.3
-6	.0	.0	.0	.7	1.1	.2	.4	.0	.0	.0	11	.2	2.2
-7/-8	.0	.0	.0	1.1	1.6	.2	.2	.2	.0	.0	15	.0	3.4
-9/-10	.0	.0	.2	.7	.4	.2	.0	.0	.0	.0	7	.2	1.3
-11/-13	.0	.0	.2	.7	1.1	.0	.2	.0	.0	.0	10	.4	1.8
-14/-16	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	3	.0	.7
-17/-19	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	2	.0	.4
-23/-25	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	1	1	2	32	72	93	140	68	30	8	447	27	420
PCT	.2	.2	.4	7.2	16.1	20.8	31.3	15.2	6.7	1.8	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.2	.4	.0	.0	.0	2.2
1-2	.0	1.6	.8	.0	.0	.0	2.3
3-4	.0	.0	2.1	.8	.0	.0	2.9
5-6	.0	.0	1.3	.8	.0	.0	2.1
7	.0	.0	.8	.3	.0	.0	1.1
8-9	.0	.4	.4	.4	.0	.0	1.2
10-11	.0	.0	.8	.4	.0	.0	1.2
12	.0	.0	.4	.3	.4	.0	1.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.1	6.9	3.3	.4	.0	14.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.8	.0	.0	.0	1.7
1-2	.0	1.7	.8	.0	.0	.0	2.4
3-4	.0	.0	1.6	1.2	.0	.0	2.7
5-6	.0	.4	.4	.5	.0	.0	1.3
7	.0	.4	1.2	.0	.0	.0	1.6
8-9	.0	.0	.4	.0	.4	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.4	.5
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.2	5.1	2.1	.4	.4	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.0	.0	.0	.0	1.8
1-2	.0	.9	.8	.0	.0	.0	1.7
3-4	.0	.0	1.4	.8	.0	.0	2.1
5-6	.0	.0	.8	.7	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.2	2.9	1.8	.0	.0	7.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.4	.0	.0	.0	.0	2.8
1-2	.0	2.5	.6	.0	.0	.0	3.1
3-4	.0	.5	.7	.4	.0	.0	1.6
5-6	.0	.0	.4	.4	.0	.0	.8
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.1	.8	.0	.0	.9
10-11	.0	.4	.0	.0	.0	.0	.4
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.9	2.5	2.0	.0	.0	10.7

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.9	.0	.0	.0	.0	3.9
1-2	.0	3.4	1.3	.0	.0	.0	4.7
3-4	.0	.3	2.5	1.2	.0	.0	4.0
5-6	.0	.4	1.5	1.2	.0	.0	3.0
7	.0	.0	.7	.3	.0	.0	1.0
8-9	.0	.0	.7	1.4	.0	.0	2.1
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.0	6.6	4.8	.0	.0	19.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	1.8	2.9	.0	.0	.0	4.7
3-4	.0	1.2	2.1	.8	.0	.0	4.1
5-6	.0	.0	2.1	.4	.0	.0	2.4
7	.0	.0	1.3	.9	.0	.0	2.1
8-9	.0	.0	.1	.7	.4	.0	1.2
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	8.9	2.8	.4	.0	16.7

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.4	1.1	.0	.0	.0	2.4
3-4	.0	.3	1.5	.0	.0	.0	1.8
5-6	.0	.0	.4	.0	.0	.0	.4
7	.3	.0	.0	.0	.0	.0	.3
8-9	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	3.2	1.0	.0	.0	6.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.3	.0	.0	.0	.0	2.3	
1-2	.0	.9	.8	.0	.0	.0	1.7	
3-4	.0	.5	1.4	1.2	.0	.0	3.0	
5-6	.0	.0	.3	.0	.0	.0	.3	
7	.1	.0	.0	1.3	.0	.0	1.4	
8-9	.0	.0	.4	.4	.4	.0	1.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	3.7	2.8	2.9	.4	.0	10.0	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	14.1	1.2	.0	.0	.0	20.3	
1-2	.0	14.1	9.0	.0	.0	.0	23.0	
3-4	.0	2.7	13.3	6.3	.0	.0	22.3	
5-6	.0	.8	7.0	3.9	.0	.0	11.7	
7	.4	.4	4.7	2.7	.0	.0	8.2	
8-9	.0	.4	2.3	4.3	1.2	.0	8.2	
10-11	.0	.4	1.2	1.2	.0	.0	2.7	
12	.0	.0	.4	1.2	.4	.4	2.3	
13-16	.0	.0	.0	.8	.0	.0	.8	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	32.8	39.1	20.7	1.6	.4	100.0	256

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	11.5	8.4	6.5	2.2	1.2	.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	4
6-7	.0	2.5	5.9	3.4	5.6	3.1	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	5
8-9	.3	.6	1.6	.6	1.2	1.2	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	6
10-11	.0	2.2	.3	.9	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
12-13	.0	.0	.6	.6	.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
>13	.0	.0	.0	.9	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	6.8	4.3	7.1	4.0	3.7	1.9	.9	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	4
TOTAL	23	68	77	55	42	30	14	10	2	1	0	0	0	0	0	0	0	0	0	322	5
PCT	7.1	21.1	23.9	17.1	13.0	9.3	4.3	3.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.8	.0	3.7	.0	.9	.0	.7	14.1	4.0	.0	9.1	.0	.7		.0	72.1
NE	13.6	4.2	3.8	.0	1.7	.0	.0	23.4	.3	.0	10.8	.0	1.4		.0	64.0
E	11.8	.0	1.4	.0	1.4	.0	.0	14.6	3.8	.0	8.4	.0	.0		.0	73.2
SE	9.1	.0	1.3	.0	.0	.0	.0	10.4	2.6	.0	23.1	.0	2.6		.0	61.2
S	5.7	.0	2.0	.0	.0	.0	.0	7.7	1.4	.0	32.6	.0	1.1		.0	57.2
SW	6.2	.0	2.0	.0	.0	.0	.0	8.1	1.5	.0	26.2	.2	.2		.0	63.7
W	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	19.2	4.2	.0		.0	74.3
NW	4.0	.0	4.5	.0	1.1	.0	.0	9.6	2.8	.0	11.9	.0	.0		.0	75.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.9	.0	2.9	.0	.0	.0	.0	5.7	.0	.0	17.1	2.9	.0		.0	74.3
TOT PCT	7.3	.4	2.4	.0	.5	.0	.1	10.7	2.2	.0	20.6	.4	.8		.0	65.4
TOT OBS:	835															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	4.5	.0	3.3	.0	.8	.0	.0	8.6	2.0	.0	20.9	.4	.4		.0	67.6
06609	7.0	.4	1.2	.0	.0	.0	.0	8.7	3.7	.0	21.1	.4	1.2		.0	64.9
12615	8.2	.8	3.3	.0	.4	.0	.4	13.1	1.2	.0	20.5	.4	.4		.0	64.3
18621	11.0	.0	2.1	.0	.7	.0	.0	13.8	.7	.0	18.6	.0	1.4		.0	65.5
TOT PCT	7.3	.3	2.5	.0	.5	.0	.1	10.7	2.1	.0	20.5	.3	.8		.0	65.6
TOT OBS:	875															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	6.8	6.0	2.2	.3	.0		16.7	12.9	17.0	18.8	22.3	15.3	19.5	11.1	10.8	14.6
NE	1.2	3.8	3.1	.6	.2	.0		8.9	11.7	8.0	8.3	8.5	5.9	6.6	12.6	14.6	10.1
E	.7	4.5	2.2	.9	.2	.1		8.7	12.0	6.9	7.6	6.4	7.9	8.5	13.6	5.0	14.0
SE	1.8	4.9	2.2	.2	*	.0		9.2	8.7	6.9	9.0	8.7	8.9	5.9	14.6	11.7	10.7
S	2.1	13.1	10.8	3.1	.1	.0		29.2	11.8	31.9	24.3	25.6	31.7	36.2	28.3	30.0	22.5
SW	1.4	6.3	4.4	1.0	*	.0		13.2	10.6	11.7	21.5	11.6	18.6	8.7	11.6	10.8	14.0
W	1.1	2.7	1.4	.0	.0	.0		5.2	7.4	6.2	6.9	5.6	5.4	4.0	2.5	8.3	3.9
NW	.9	2.4	1.7	.1	.1	.0		5.1	9.2	7.1	2.1	6.6	4.2	6.4	2.5	3.8	5.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	4.3	1.4	4.7	2.0	4.2	3.0	5.0	4.5
TOT OBS	116	360	259	65	8	1	809		10.7	141	72	129	101	118	99	60	89
TOT PCT	14.3	44.5	32.0	8.0	1.0	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.2	7.2	4.3	1.0	.0		16.7	12.9	17.6	19.2	15.7	13.1
NE	3.0	3.9	1.3	.8	.0		8.9	11.7	8.1	7.4	9.3	11.9
E	3.2	3.5	1.2	.6	.2		8.7	12.0	7.2	7.1	10.8	10.4
SE	4.4	3.8	.9	.2	*		9.2	8.7	7.6	8.8	9.9	11.1
S	7.4	15.8	5.3	.8	.0		29.2	11.8	29.3	28.3	32.6	25.5
SW	4.6	6.2	1.8	.6	.0		13.2	10.6	15.0	14.7	10.0	12.8
W	2.8	2.3	.1	.0	.0		5.2	7.4	6.5	5.5	3.3	5.7
NW	2.0	2.7	.4	.1	.0		5.1	9.2	5.4	5.5	4.6	4.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	3.3	3.5	3.7	4.7
TOT OBS	286	366	123	32	2	809		10.7	213	230	217	149
TOT PCT	35.4	45.2	15.2	4.0	.2		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	9.9	43.2	34.3	7.0	1.9	.5	11.1	100.0	213
06&09	3.5	11.3	38.3	39.6	7.4	.0	.0	10.9	100.0	230
12&15	3.7	12.9	45.2	28.6	8.8	.9	.0	10.5	100.0	217
18&21	4.7	7.4	55.0	22.1	9.4	1.3	.0	10.5	100.0	149
TOT	30	86	360	259	65	8	1	10.7		809
PCT	3.7	10.6	44.5	32.0	8.0	1.0	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	2.4	6.4	9.5		6.5
NE	1.0	.8	1.6	5.5		6.5
E	1.2	.5	.8	4.8		6.2
SE	.5	.2	1.5	4.4		6.9
S	7.6	3.0	6.1	13.0		5.3
SW	2.5	.6	2.8	5.0		5.5
W	1.9	.6	1.8	1.2		4.3
NW	1.2	.7	1.4	2.5		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.8	.5	.9	2.7		5.1
TOT OBS	83	41	103	215	442	5.8
TOT PCT	18.8	9.3	23.3	48.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.2	.2	.2	.4	2.6	5.6	2.4	.6	.2	.5	5.4	
NE	.7	.0	.2	.9	3.3	2.1	.1	.0	.2	.0	2.0	
E	.5	.0	.2	.4	1.1	2.1	.7	.0	.0	.5	1.9	
SE	2.0	.0	.0	.5	.2	1.2	.9	.3	.2	.2	1.0	
S	6.5	.5	.4	.2	2.4	4.6	2.0	.4	.5	.6	11.6	
SW	2.6	.0	.1	.5	1.3	.8	.0	1.0	.1	.1	4.6	
W	.5	.0	.0	.2	.3	.6	.0	.2	.1	.2	3.1	
NW	.3	.0	.2	.7	.7	.8	.5	.1	.0	.1	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.2	.0	.2	.7	.5	.2	.2	.0	.0	2.7	
TOT OBS	68	4	6	15	56	81	30	12	7	9	154	442
TOT PCT	15.4	.9	1.4	3.4	12.7	18.3	6.8	2.7	1.6	2.0	34.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	2.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
▪ OR >3000	4.7	6.2	6.4	6.4	6.4	6.4	6.4	6.4
▪ OR >3500	8.7	11.5	13.0	13.2	13.2	13.2	13.2	13.2
▪ OR >2000	20.3	27.9	31.1	31.6	31.6	31.6	31.6	31.6
▪ OR >1000	26.7	37.5	42.6	43.3	43.5	43.5	43.7	43.7
▪ OR >600	27.3	39.4	45.2	46.5	46.7	46.9	47.1	47.1
▪ OR >300	27.7	40.3	46.3	47.5	48.0	48.2	48.4	48.4
▪ OR >150	28.4	40.9	46.9	48.6	49.0	49.3	49.5	49.5
▪ OR > 0	28.6	43.3	50.7	53.9	55.4	57.6	63.8	64.8
TOTAL	134	203	238	253	260	270	299	304

TOTAL NUMBER OF OBS: 469 PCT FREQ NH <5/8: 35.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.3	3.1	7.3	4.9	4.3	4.7	7.1	8.2	30.6	14.5	490

PERIOD: (PRIMARY) 1937-1974
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.3	.0	.0	.0	.0	.0	.2	.0	.0	.7	
	NO PCP	.5	.6	.5	.7	4.4	1.9	.2	.2	.0	.5	9.6	
	TOT %	.7	.9	.5	.7	4.4	1.9	.2	.4	.0	.5	10.3	
1/2<1	PCP	.3	.2	.0	.1	.1	.1	.0	.0	.0	.0	.8	
	NO PCP	.2	.1	.1	.5	.8	.2	.1	.1	.0	.0	2.2	
	TOT %	.5	.2	.1	.7	.9	.4	.1	.1	.0	.0	3.0	
1<2	PCP	.1	.1	.1	.0	.5	.2	.0	.0	.0	.0	1.0	
	NO PCP	.2	.2	.0	.2	1.4	.5	.2	.1	.0	.0	2.9	
	TOT %	.2	.3	.1	.2	1.9	.7	.2	.1	.0	.0	3.8	
2<5	PCP	.8	.7	.3	.5	.9	.1	.0	.1	.0	.2	3.5	
	NO PCP	.7	.1	.1	.9	3.1	.4	.5	.0	.0	.2	6.0	
	TOT %	1.5	.8	.4	1.4	4.0	.4	.5	.1	.0	.5	9.5	
5<10	PCP	.8	.6	.5	.3	.6	.4	.0	.1	.0	.0	3.4	
	NO PCP	3.3	.6	2.3	1.5	6.1	2.1	.3	1.0	.0	.6	17.8	
	TOT %	4.0	1.3	2.9	1.8	6.6	2.5	.3	1.2	.0	.6	21.2	
10+	PCP	.2	.3	.3	.0	.4	.1	.0	.1	.0	.0	1.4	
	NO PCP	9.6	4.9	4.4	4.5	11.9	6.0	3.6	3.3	.0	2.6	50.8	
	TOT %	9.9	5.2	4.7	4.5	12.2	6.1	3.6	3.4	.0	2.6	52.2	
	TOT OBS												835
	TOT PCT	16.9	8.7	8.6	9.2	30.1	12.0	5.0	5.3	.0	4.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.4	.1	.3	.3	.2	.4	.0	.0	.5	2.2	
	4-10	.6	.6	.5	.4	2.3	.4	.0	.2	.0		5.0	
	11-21	.1	.1	.1	.1	1.0	1.2	.0	.1	.0		2.6	
	22+	.0	.0	.0	.0	.3	*	.0	.0	.0		.4	
	TOT %	.7	1.0	.7	.9	4.0	1.8	.4	.3	.0	.5	10.2	
1/2<1	0-3	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.5	
	4-10	.4	.1	.2	.2	.4	.3	.1	.1	.0		1.9	
	11-21	.2	.1	.0	.3	.2	.1	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.7	.2	.2	.7	.8	.6	.1	.1	.0	.0	3.4	
1<2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	4-10	.2	.3	.1	.1	.6	.6	.2	.1	.0		2.4	
	11-21	.0	.2	.1	.0	.8	.3	.0	.0	.0		1.5	
	22+	.0	.0	.1	.0	.5	*	.0	.0	.0		.6	
	TOT %	.4	.6	.4	.1	2.0	1.0	.2	.1	.0	.0	4.7	
2<5	0-3	.1	.1	.0	.2	.6	.5	.1	.2	.0	.5	2.2	
	4-10	.7	.5	.3	.6	1.2	.4	.4	.1	.0		4.1	
	11-21	.6	.6	.1	.6	2.0	.2	.1	.0	.0		4.2	
	22+	.3	.1	.0	*	.7	.1	.0	.1	.0		1.2	
	TOT %	1.7	1.2	.4	1.5	4.5	1.2	.6	.4	.0	.5	11.9	
5<10	0-3	.2	.4	.2	.2	.2	.0	.1	.2	.0	.4	1.9	
	4-10	1.2	.3	.9	.9	3.1	1.2	.2	.4	.0		8.2	
	11-21	1.5	.3	.9	.7	2.2	.9	.0	.3	.0		7.0	
	22+	.9	.1	.7	*	.8	.3	.0	.0	.0		2.9	
	TOT %	3.7	1.1	2.7	1.8	6.4	2.4	.3	1.1	.0	.4	20.0	
10+	0-3	.9	.3	.5	.9	.7	.6	.6	.5	.0	2.1	7.1	
	4-10	3.7	2.1	2.5	2.6	5.4	3.3	1.7	1.6	.0		22.8	
	11-21	3.7	1.9	1.0	.5	4.7	1.7	1.3	1.1	.0		15.7	
	22+	1.3	.6	.4	.2	.9	.6	.0	.1	.0		4.1	
	TOT %	9.6	4.9	4.4	4.2	11.6	6.2	3.6	3.2	.0	2.1	49.8	
	TOT OBS												801
	TOT PCT	16.8	9.0	8.8	9.2	29.3	13.1	5.2	5.2	.0	3.5	100.0	

MAY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1911-1974

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	14.7	.0	1.2	4.9	11.7	16.0	6.7	3.1	1.8	1.8	62.0	38.0	163
06&09	9.5	2.2	.7	2.9	13.1	20.4	8.8	2.9	1.5	2.9	65.0	35.0	137
12&15	19.0	1.6	1.6	1.6	13.5	16.7	5.6	1.6	1.6	.0	62.7	37.3	126
18&21	21.6	.0	2.0	3.9	9.8	21.6	3.9	3.9	2.0	3.9	72.5	27.5	51
TOT	72	5	6	16	59	86	32	13	8	9	306	171	477
PCT	15.1	1.0	1.3	3.4	12.4	18.0	6.7	2.7	1.7	1.9	64.2	35.8	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
00&03	11.2	2.8	4.0	8.4	20.3	53.4	251
06&09	9.6	2.7	5.8	11.2	16.5	54.2	260
12&15	11.0	4.2	4.2	13.3	25.9	41.4	263
18&21	10.8	3.2	5.1	17.1	15.8	48.1	158
TOT	99	30	44	112	187	460	932
PCT	10.6	3.2	4.7	12.0	20.1	49.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	14.9	18.0	28.0	37.9	34.2	161
06&09	9.6	13.2	23.5	44.1	32.4	136
12&15	19.7	23.8	36.1	30.3	33.6	122
18&21	22.0	26.0	42.0	36.0	22.0	50
TOT	72	89	142	176	151	469
PCT	15.4	19.0	30.3	37.5	32.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	1.5	.0	1	1.5
50/54	.0	.0	1.5	.0	.0	.0	6.2	3.1	7	10.8
45/49	.0	.0	.0	1.5	4.6	3.1	4.6	10.8	16	24.6
40/44	.0	.0	.0	.0	.0	7.7	9.2	18.5	23	35.4
35/39	.0	.0	.0	.0	.0	3.1	3.1	20.0	17	26.2
30/34	.0	.0	.0	.0	.0	.0	.0	1.5	1	1.5
TOTAL	0	0	1	1	3	9	16	35	65	100.0
PCT	.0	.0	1.5	1.5	4.6	13.8	24.6	53.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0
	.0	.0	.0	.0	5.8	2.3	1.2	1.5	.0	.0
	1.2	1.5	1.5	4.6	10.8	1.5	2.7	.8	.0	.0
	12.3	4.6	3.1	1.5	5.8	1.9	2.3	3.8	.0	.0
	7.3	1.9	1.5	.4	5.8	6.2	1.5	1.5	.0	.0
	.0	.0	.0	.0	1.2	.4	.0	.0	.0	.0
	20.8	8.1	6.2	6.5	29.2	13.8	7.7	7.7	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	62	60	54	43	37	34	32	44.1	240
06&09	59	57	54	43	36	34	32	43.9	250
12&15	59	56	50	41	36	28	28	41.8	254
18&21	59	52	47	41	34	34	32	41.0	159
TOT	62	57	52	43	36	32	28	42.9	903

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	5.0	5.0	10.0	25.0	55.0	85	20
06&09	.0	4.8	4.8	19.0	33.3	38.1	85	21
12&15	.0	.0	6.7	13.3	20.0	60.0	88	15
18&21	.0	.0	.0	11.1	11.1	77.8	95	9
TOT	0	2	3	9	16	35	87	65

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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 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	3	.1	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.5	.7	.1	10	.1	1.2
11/13	.0	.0	.0	.0	.3	.9	1.3	1.0	.4	.0	30	.8	3.1
9/10	.0	.0	.0	.0	.3	.9	1.6	.8	.0	.0	27	.3	3.3
7/8	.0	.0	.0	.0	1.4	3.0	.9	.5	.0	.0	45	.9	5.0
6	.0	.0	.0	.1	.8	1.0	.9	.0	.0	.0	22	.7	2.2
5	.0	.0	.1	.8	2.5	5.0	1.2	.0	.0	.0	73	3.3	6.3
4	.0	.0	.3	2.4	3.4	5.2	.5	.1	.0	.0	91	2.1	9.8
3	.0	.0	.1	.9	2.5	1.8	.4	.0	.1	.0	45	1.0	4.8
2	.0	.0	.9	4.6	5.8	4.5	.4	.0	.0	.0	123	3.8	12.3
1	.0	.0	.1	1.0	2.2	.4	.0	.0	.0	.0	29	.8	3.0
0	.0	.3	.9	5.1	4.5	1.6	.1	.0	.0	.0	95	2.2	10.2
-1	.0	.0	.3	2.5	1.6	.1	.0	.0	.0	.0	34	.7	3.8
-2	.0	.1	1.8	3.7	2.1	1.2	.0	.0	.0	.0	68	1.4	7.5
-3	.0	.0	.1	.3	.5	.3	.0	.0	.0	.0	9	.1	1.0
-4	.0	.0	.3	.7	.5	.3	.1	.0	.0	.0	14	.3	1.6
-5	.0	.0	.7	.5	.3	.0	.0	.0	.0	.0	11	.3	1.2
-6	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	4	.0	.5
-7/-8	.0	.0	.1	.4	.3	.1	.0	.0	.0	.0	7	.4	.5
-9/-10	.1	.1	.1	.1	.1	.3	.1	.0	.0	.0	8	.0	1.0
-11/-13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	3	.1	.3
-14/-16	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	5	.3	.4
-17/-19	.1	.1	.0	.0	.4	.0	.0	.0	.0	.0	5	.0	.7
TOTAL	2	6	50	181	225	203	58	25	12	1	763	150	613
PCT	.3	.8	6.6	23.7	29.5	26.6	7.6	3.3	1.6	.1	100.0	19.7	80.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.5	.0	.0	.0	.0	3.4
1-2	.3	2.0	2.6	.0	.0	.0	4.9
3-4	.0	.5	2.3	.5	.0	.0	3.2
5-6	.0	.0	2.2	.6	.0	.0	2.8
7	.0	.0	.9	1.6	.0	.0	2.5
8-9	.0	.0	.0	.3	.3	.0	.6
10-11	.0	.0	.3	.2	.3	.0	.9
12	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.6	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	5.0	8.6	3.9	.6	.0	19.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.5	.0	.0	.0	.0	.6
1-2	.0	1.0	1.1	.0	.0	.0	2.1
3-4	.0	.9	1.1	.1	.0	.0	2.1
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.1	.3	.0	.4
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.4	4.7	.8	.6	.0	8.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	.0	.9	.0	.0	.0	.9
3-4	.0	.3	.5	.3	.0	.0	1.1
5-6	.0	.0	.6	.3	.0	.0	.9
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.3	.2	.0	.6
10-11	.0	.0	.0	.3	.0	.3	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.4	1.3	.2	.3	6.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.3	.0	.0	.0	.0	1.3
1-2	.0	.6	1.0	.0	.0	.0	1.7
3-4	.0	.5	1.4	.0	.0	.0	1.9
5-6	.0	.1	.4	.3	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.5	3.1	.3	.1	.0	5.9

PERIOD: (OVER-ALL) 1963-1974

MAY

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TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	1.6	.0	.0	.0	3.9	.0	1.6	.1	.0	.0	.0	1.7
1-2	.0	4.1	3.4	.0	.0	.0	7.5	.0	1.3	1.3	.0	.0	.0	2.6
3-4	.0	1.7	6.1	.6	.0	.0	8.4	.0	.4	3.0	.0	.0	.0	3.4
5-6	.0	.2	4.8	1.5	.0	.0	6.5	.0	.0	1.8	.1	.0	.0	1.9
7	.0	.0	1.3	1.8	.0	.0	3.1	.0	.3	.3	1.0	.0	.0	1.7
8-9	.0	.0	.0	1.3	.2	.0	1.5	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.3	.2	.6	.0	.0	1.2	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.3	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.3	.3	.0	.0	.0	.6	.0	.0	.3	.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	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	9.0	18.0	6.1	.2	.0	33.3	.0	3.6	6.8	1.1	.1	.0	11.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.5	.2	.0	.0	.0	1.7	.3	.6	.0	.0	.0	.0	.9	
1-2	.2	1.2	.3	.0	.0	.0	1.7	.1	.5	2.3	.0	.0	.0	2.8	
3-4	.0	.6	.8	.0	.0	.0	1.3	.0	.5	.3	.1	.0	.0	.9	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.3	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.5	1.6	.0	.0	.0	5.3	.4	1.6	2.9	.1	.0	.0	5.0	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.9	11.0	1.9	.0	.0	.0	19.8	
1-2	.6	10.7	12.9	.0	.0	.0	24.2	
3-4	.0	5.3	15.4	1.6	.0	.0	22.3	
5-6	.0	.3	11.6	2.8	.0	.0	14.8	
7	.0	.3	4.1	4.4	.0	.0	8.8	
8-9	.0	.0	.3	2.2	.9	.0	3.5	
10-11	.0	.6	.6	1.3	.6	.3	3.5	
12	.0	.0	.6	.6	.0	.0	1.3	
13-16	.0	.3	.6	.6	.3	.0	1.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.5	28.6	48.1	13.5	1.9	.3	100.0	318

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	13.4	11.7	8.0	2.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	3
6-7	.0	1.6	3.3	3.3	3.3	3.3	2.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	6
8-9	.0	.2	.5	1.2	1.4	.9	.7	.5	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
10-11	.0	1.2	.2	.9	.2	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	5
12-13	.0	.0	1.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	4
>13	.0	.0	.0	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	7.5	7.3	8.9	5.9	1.4	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	135	3
TOTAL	39	101	110	84	41	21	16	6	8	0	0	0	0	0	0	0	0	0	0	426	4
PCT	9.2	23.7	25.8	19.7	9.6	4.9	3.8	1.4	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	2.3	.9	6.3	.0	.0	.0	.0	9.5	.0	.0	13.6	.0	.9		.9	75.1
NE	8.0	1.0	3.0	.0	.0	.0	.0	12.0	1.3	.0	17.5	.0	1.0		1.0	67.2
E	9.1	1.8	6.3	.0	.0	.0	.0	17.2	2.1	.0	9.4	.0	.0		.0	71.3
SE	10.0	.4	4.8	.0	.0	.0	.0	15.3	1.2	.0	28.9	.0	.8		.0	53.8
S	2.3	.0	3.7	.0	.0	.0	.0	6.0	.5	.0	44.1	1.6	.0		.0	47.8
SW	4.3	.0	2.0	.0	.0	.0	.0	6.3	.0	1.0	36.5	.3	.0		.0	56.0
W	5.4	.0	6.3	.0	.0	.0	.0	11.6	3.6	.0	24.1	.0	.0		.0	60.7
NW	7.8	.0	3.3	.0	.0	.0	.0	11.1	2.6	.0	19.0	.0	.0		.0	67.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	6.3	.0	1.3	.0	.0	.0	.0	7.5	.0	.0	35.0	2.5	1.3		.0	53.8
TOT PCT	5.3	.4	4.0	.0	.0	.0	.0	9.7	.8	.1	29.7	.7	.4		.2	58.3
TOT OBS:	957															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	4.1	.0	.9	.0	.0	.0	.0	5.1	.9	.0	35.5	.9	.5		.5	56.7
06&09	3.3	.8	4.1	.0	.0	.0	.0	8.1	.4	.0	30.1	1.6	.0		.4	59.3
12&15	8.2	.3	5.7	.0	.0	.0	.0	14.2	1.2	.0	23.6	.3	1.2		.0	59.5
18&21	3.6	.5	3.6	.0	.0	.0	.0	7.7	1.5	.5	30.3	.0	.0		.0	60.0
TOT PCT	5.2	.4	3.8	.0	.0	.0	.0	9.4	1.0	.1	29.1	.7	.5		.2	58.9
TOT OBS:	989															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.4	5.8	2.9	.2	.1	.0		10.4	9.1	12.7	15.3	7.9	15.6	8.7	8.6	7.2	10.3
NE	.9	5.3	4.0	.7	.0	.0		11.0	10.6	14.5	10.4	15.2	8.3	8.2	10.1	13.5	7.6
E	1.4	2.9	3.3	.5	.1	.0		8.2	11.2	5.2	6.9	9.6	3.3	10.8	8.2	5.7	14.7
SE	1.8	7.2	3.9	.3	.1	.0		13.3	9.6	12.9	16.0	12.3	11.3	9.6	15.3	12.9	20.1
S	3.0	15.5	12.1	1.2	.0	.0		31.8	10.2	28.4	36.8	28.5	34.0	33.1	31.7	37.6	27.2
SW	1.5	6.0	3.4	.4	.0	.0		11.3	9.2	11.5	9.0	11.3	16.0	12.0	12.7	8.3	6.5
W	.2	1.7	.4	.0	.0	.0		2.3	8.3	2.8	.7	2.7	1.9	2.4	2.6	4.0	.5
NW	.3	2.8	.3	.0	.0	.0		3.4	6.6	3.0	2.1	1.7	4.0	3.9	4.9	2.6	4.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.2							8.2	.0	8.9	2.8	10.8	5.7	11.4	6.0	8.0	8.7
TOT OBS	171	432	276	30	3	0	912		9.0	124	72	130	106	167	134	87	92
TOT PCT	18.8	47.4	30.3	3.3	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.9	5.6	.8	.1	.0		10.4	9.1	13.6	11.3	8.6	8.8
NE	3.6	6.3	1.7	.0	.0		11.0	10.6	13.0	12.1	9.1	10.5
E	2.9	3.6	1.4	.4	.0		8.2	11.2	5.9	6.8	9.6	10.3
SE	5.4	6.4	1.3	.1	.1		13.3	9.6	14.0	11.9	12.1	16.6
S	10.0	16.9	4.9	.0	.0		31.8	10.2	31.5	30.9	32.5	32.3
SW	4.4	5.6	1.3	.0	.0		11.3	9.2	10.6	13.5	12.3	7.4
W	.8	1.3	.1	.0	.0		2.3	8.3	2.0	2.3	2.5	2.2
NW	1.9	1.5	.0	.0	.0		3.4	6.6	2.7	2.8	4.3	3.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.2						8.2	.0	6.6	8.5	9.0	8.4
TOT OBS	370	431	104	6	1	912		9.0	196	236	301	179
TOT PCT	40.6	47.3	11.4	.7	.1		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1937-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.6	9.2	45.9	34.2	4.1	.0	.0	9.4	100.0	196
06&09	8.5	9.7	45.3	30.1	6.4	.0	.0	9.6	100.0	236
12&15	9.0	11.3	49.8	27.9	1.3	.7	.0	8.6	100.0	301
18&21	8.4	11.7	47.5	30.2	1.7	.6	.0	8.5	100.0	179
TOT	75	96	432	276	30	3	0	9.0		912
PCT	8.2	10.5	47.4	30.3	3.3	.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.9	4.1	3.9		5.5
NE	1.4	.5	2.0	6.1		6.5
E	1.5	.7	1.4	5.4		6.2
SE	1.8	1.4	1.6	7.6		6.3
S	6.0	2.3	2.8	18.4		6.0
SW	2.4	.7	1.6	5.0		5.7
W	.7	1.0	.7	1.5		5.3
NW	.4	.3	1.1	1.8		6.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.3	1.5	6.0		5.9
TOT OBS	99	49	91	298	537	6.0
TOT PCT	18.4	9.1	16.9	55.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.2	.3	2.3	2.5	1.2	.2	.1	.3	4.0	
NE	1.4	.0	.4	.2	1.9	2.7	.7	.0	*	.4	2.3	
E	.9	.0	.3	.4	2.7	1.9	.6	.0	.0	.1	2.2	
SE	2.9	.2	.2	.2	2.8	2.0	.2	.0	.4	.1	3.4	
S	11.5	.0	.2	.7	3.1	3.3	.2	.4	.2	.5	9.5	
SW	3.2	.0	.2	.2	.6	1.7	.0	.2	.0	.2	3.6	
W	1.0	.0	.2	.0	.3	.3	.0	.0	.2	.2	1.6	
NW	.3	*	.0	.2	.8	1.0	.5	.0	.0	*	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.1	.0	.0	.2	.6	1.1	.6	.2	.2	.2	3.5	
TOT OBS	137	2	9	13	80	88	21	5	6	11	165	537
TOT PCT	25.5	.4	1.7	2.4	14.9	16.4	3.9	.9	1.1	2.0	30.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >9000	2.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2
* OR >3500	5.3	8.0	8.2	8.2	8.2	8.2	8.2	8.2
* OR >2000	13.5	21.3	23.1	24.2	24.4	24.7	24.7	24.7
* OR >1000	19.3	32.4	37.5	38.5	38.9	39.5	39.5	39.5
* OR >600	19.8	33.8	39.5	40.5	41.1	41.6	41.8	41.8
* OR >300	19.8	34.5	40.7	42.0	42.5	43.1	43.3	43.3
* OR >150	20.2	34.9	41.1	42.4	42.9	43.5	43.6	43.6
* OR > 0	20.5	36.5	44.7	46.7	48.7	56.9	66.7	68.9
TOTAL	113	201	246	257	268	313	367	379

TOTAL NUMBER OF OBS: 550 PCT FREQ NH <5/8: 31.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.8	3.1	9.4	4.6	2.9	4.1	5.7	6.5	29.0 24.2	583

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.0	.0	.2	.2	.0	.0	.0	.0	.5	
<1/2	NO PCP	.5	1.0	.4	2.0	9.9	3.2	.5	.4	.0	2.0	19.9	
	TOT %	.5	1.1	.4	2.0	10.0	3.4	.5	.4	.0	2.0	20.4	
	PCP	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
1/2<1	NO PCP	.1	.0	.0	.4	.7	.1	.1	.0	.0	.2	1.6	
	TOT %	.1	.1	.1	.5	.8	.1	.1	.0	.0	.2	2.0	
	PCP	.0	.2	.1	.3	.5	.1	.1	.1	.0	.1	1.4	
1<2	NO PCP	.5	.2	.3	.3	.6	.2	.1	.1	.0	.1	2.1	
	TOT %	.5	.4	.4	.5	1.1	.2	.1	.1	.0	.2	3.5	
	PCP	.5	.4	.3	.8	.6	.2	.1	.2	.0	.1	3.2	
2<5	NO PCP	.7	.9	.6	.6	2.1	.5	.1	.4	.0	.3	6.3	
	TOT %	1.2	1.3	1.0	1.4	2.7	.7	.2	.6	.0	.4	9.5	
	PCP	.5	.4	.8	.7	.4	.2	.1	.2	.0	.4	3.7	
5<10	NO PCP	1.8	2.1	1.7	2.4	4.0	1.3	.5	.7	.0	1.4	15.8	
	TOT %	2.4	2.5	2.4	3.0	4.4	1.4	.6	.9	.0	1.8	19.5	
	PCP	.1	.0	.2	.2	.1	.1	.1	.0	.0	.0	.6	
10+	NO PCP	6.9	4.9	4.2	5.4	11.5	4.5	1.4	2.0	.0	3.8	44.6	
	TOT %	7.0	4.9	4.4	5.5	11.6	4.6	1.5	2.0	.0	3.8	45.2	
	TOT OBS												951
	TOT PCT	11.6	10.3	8.7	13.0	30.5	10.5	2.9	4.0	.0	8.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.1	.2	.4	1.3	.5	.1	.0	.0	2.0	4.6	
<1/2	4-10	.4	.8	.1	1.2	4.4	2.0	.1	.4	.0		9.4	
	11-21	.1	.3	.0	.4	4.4	1.1	.0	.0	.0		6.3	
	22+	.0	.0	.0	.1	.4	.3	.0	.0	.0		.8	
	TOT %	.6	1.2	.3	2.1	10.5	3.8	.2	.4	.0	2.0	21.1	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	.3	
1/2<1	4-10	.1	.1	.0	.3	.7	.1	.0	.0	.0		1.2	
	11-21	.0	.0	.1	.0	.4	.1	.1	.0	.0		.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.1	.2	.4	1.1	.1	.1	.0	.0	.2	2.4	
	0-3	.2	.0	.0	.0	.1	.0	.0	.0	.0	.1	.5	
1<2	4-10	.2	.1	.2	.3	.6	.1	.1	.1	.0		1.8	
	11-21	.1	.1	.2	.1	.4	.1	.0	.0	.0		1.1	
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0		.2	
	TOT %	.5	.4	.4	.5	1.2	.3	.1	.1	.0	.1	3.6	
	0-3	.2	.1	.1	.4	.2	.2	.0	.1	.0	.3	1.5	
2<5	4-10	.5	1.0	.3	1.2	1.5	.7	.1	.6	.0		5.8	
	11-21	.6	.4	.2	.5	1.4	.4	.0	.0	.0		3.4	
	22+	.0	.0	.4	.1	.1	.0	.0	.0	.0		.7	
	TOT %	1.3	1.4	1.0	2.2	3.1	1.2	.1	.6	.0	.3	11.3	
	0-3	.1	.5	.2	.2	.2	.2	.1	.0	.0	1.9	3.4	
5<10	4-10	1.3	.8	1.0	1.6	2.3	.8	.4	.5	.0		8.7	
	11-21	.7	1.2	1.2	1.1	1.9	.5	.0	*	.0		6.7	
	22+	.2	.1	.1	.1	.0	.0	.0	.0	.0		.6	
	TOT %	2.3	2.7	2.5	3.1	4.5	1.4	.5	.5	.0	1.9	19.3	
	0-3	.8	.3	.8	.8	1.2	.7	.0	.3	.0	3.5	8.6	
10+	4-10	3.5	2.4	1.5	2.8	6.0	2.2	1.0	1.3	.0		20.7	
	11-21	1.4	1.8	1.6	1.7	3.6	1.3	.3	.3	.0		12.0	
	22+	.1	.1	.1	.0	.6	*	.0	.0	.0		1.0	
	TOT %	5.8	4.7	4.0	5.3	11.4	4.2	1.4	1.9	.0	3.5	42.3	
	TOT OBS												885
	TOT PCT	10.6	10.5	8.4	13.5	31.8	11.2	2.4	3.5	.0	8.1	100.0	

JUNE

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	31.5	.0	.7	2.8	8.4	18.9	6.3	.7	.7	2.1	72.0	28.0	143
06&09	19.6	.7	2.1	3.5	17.5	18.9	2.8	1.4	.7	2.8	69.9	30.1	143
12&15	23.8	.6	1.1	1.7	14.9	14.9	4.4	1.7	2.2	1.7	66.9	33.1	181
18&21	27.4	.0	3.2	1.1	17.9	11.6	1.1	.0	.0	1.1	63.2	36.8	95
TOT	142	2	9	13	81	92	22	6	6	11	384	178	562
PCT	25.3	.4	1.6	2.3	14.4	16.4	3.9	1.1	1.1	2.0	68.3	31.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	28.4	1.4	4.1	8.7	15.1	42.2	218
06&09	19.6	3.8	2.7	12.3	15.4	46.2	260
12&15	14.7	1.7	3.7	13.8	23.3	42.7	347
18&21	20.6	2.0	5.0	8.5	18.6	45.2	199
TOT	205	23	39	116	191	450	1024
PCT	20.0	2.2	3.8	11.3	18.7	43.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	31.4	33.6	43.6	30.7	25.7	140
06&09	19.7	27.5	39.4	35.2	25.4	142
12&15	23.7	26.0	36.7	33.3	29.9	177
18&21	27.5	30.8	38.5	28.6	33.0	91
TOT	139	160	217	178	155	550
PCT	25.3	29.1	39.5	32.4	28.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	1.8	.0	.0	1.8	.0	.0	.0	2	3.5
55/59	.0	1.8	3.5	.0	.0	1.8	1.8	.0	5	8.8
50/54	.0	.0	.0	3.5	.0	1.8	10.5	12.3	16	28.1
45/49	.0	.0	.0	3.5	1.8	10.5	7.0	17.5	23	40.4
40/44	.0	.0	.0	.0	.0	.0	3.5	15.8	11	19.3
TOTAL	0	2	2	4	2	8	13	26	57	100.0
PCT	.0	3.5	3.5	7.0	3.5	14.0	22.8	45.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	3.5	.0	.0	.0	.0	.0
	1.8	.0	.0	1.8	3.1	2.2	.0	.0	.0	.0
	4.4	4.4	1.3	3.9	11.4	.4	.0	.4	.0	1.8
	3.5	5.3	5.3	5.7	4.4	5.7	1.8	1.8	.0	7.0
	6.6	5.7	3.1	.4	1.3	.4	.0	.0	.0	1.8
	16.2	15.4	9.6	11.8	23.7	8.8	1.8	2.2	.0	10.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	73	65	60	50	41	32	32	50.8	226
06&09	72	68	63	51	43	40	39	51.8	261
12&15	68	63	57	48	41	37	33	49.0	353
18&21	66	61	56	48	41	39	37	48.6	196
TOT	73	66	59	50	41	37	32	50.0	1036

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	42.9	.0	28.6	28.6	.0	63	7
06&09	.0	10.5	.0	15.8	36.8	36.8	82	19
12&15	.0	10.0	5.0	15.0	15.0	55.0	84	20
18&21	.0	9.1	9.1	.0	9.1	72.7	89	11
TOT	0	8	2	8	13	26	82	57

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0010 TATAR STRAIT S
47.9N 141.2E

TABLE 17

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

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
23/25	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.4	.2	.1	.3	.1	.0	11	.4	.8
17/19	.0	.0	.0	.0	.0	.1	.1	.3	.0	.1	.1	.0	7	.1	.7
14/16	.0	.0	.0	.0	.3	.2	.2	.4	.2	.0	.0	.0	13	.4	1.0
11/13	.0	.0	.0	.1	.2	.0	.4	1.0	.8	.2	.1	.0	26	.4	2.5
9/10	.0	.0	.0	.0	.1	.9	.9	.3	.6	.0	.0	.0	25	.4	2.3
7/8	.0	.0	.0	.0	1.0	1.8	1.8	1.2	.3	.1	.0	.0	56	1.3	4.5
6	.0	.0	.0	.0	.3	1.5	.4	.2	.1	.0	.0	.0	23	.2	2.3
5	.0	.0	.0	.2	.9	2.5	2.0	.9	.2	.0	.0	.0	60	2.2	4.5
4	.0	.0	.1	.3	2.6	3.7	2.3	.9	.0	.0	.0	.0	89	2.9	7.0
3	.0	.0	.0	.1	.2	1.2	1.6	.2	.0	.0	.0	.0	30	1.1	2.2
2	.0	.0	.1	1.5	7.3	5.4	2.2	.8	.2	.0	.0	.0	156	5.8	11.6
1	.0	.0	.0	.9	2.6	1.7	.8	.1	.0	.0	.0	.0	54	2.2	3.8
0	.0	.0	1.0	1.8	6.1	4.7	2.0	.1	.4	.0	.0	.0	145	4.6	11.6
-1	.0	.0	.1	.7	2.2	1.0	1.0	.1	.0	.0	.0	.0	46	1.6	3.6
-2	.0	.1	.4	1.9	2.6	2.0	.3	.0	.0	.0	.0	.0	66	1.7	5.7
-3	.0	.0	.0	.3	1.3	.3	.2	.0	.0	.0	.0	.0	20	.7	1.6
-4	.0	.0	.4	.8	.7	.6	.0	.0	.2	.0	.0	.0	22	.4	2.0
-5	.0	.0	.1	.1	.4	.7	.1	.1	.0	.0	.0	.0	14	.4	1.1
-6	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0	.0	.0	6	.1	.6
-7/-8	.0	.0	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	8	.1	.8
-9/-10	.0	.0	.2	.1	.1	.0	.0	.1	.0	.0	.0	.0	5	.3	.2
-11/-13	.1	.1	.0	.1	.3	.1	.1	.0	.0	.0	.0	.0	8	.4	.4
-14/-16	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	2	26	84	270	255	153	65	27	8	3	1	895	256	639
PCT	.1	.2	2.9	9.4	30.2	28.5	17.1	7.3	3.0	.9	.3	.1	100.0	28.6	71.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.7	.4	.0	.0	.0	2.4
1-2	.0	1.8	1.1	.0	.0	.0	3.0
3-4	.2	.5	2.0	.0	.0	.0	2.7
5-6	.0	.2	.7	.2	.0	.0	1.2
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.2	.0	.0	.2	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.5	4.2	.4	.2	.0	9.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.8	.2	.0	.0	.0	2.8
1-2	.0	1.1	1.8	.0	.0	.0	3.0
3-4	.0	.5	2.4	.0	.0	.0	2.9
5-6	.0	.5	1.3	.0	.0	.0	1.8
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.5	.2	.0	.0	.7
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.9	6.3	1.1	.0	.0	12.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.0	.0	.0	.0	1.4
1-2	.2	1.5	1.6	.0	.0	.0	3.3
3-4	.0	.0	1.8	.0	.0	.0	1.8
5-6	.0	.0	.5	1.0	.0	.0	1.5
7	.0	.0	.2	.2	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.0	.2	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.8	4.4	1.2	.2	.0	8.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	.0	.0	.0	.0	2.1
1-2	.3	2.6	2.0	.0	.0	.0	5.0
3-4	.0	.0	3.0	.0	.0	.0	3.0
5-6	.0	.0	.8	.2	.0	.0	1.0
7	.0	.0	.0	.2	.2	.0	.5
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.4	5.9	.7	.3	.0	12.0

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0018 TATAR STRAIT S
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	3.5	.2	.0	.0	.0	5.6	.5	1.1	.5	.0	.0	.0	2.1
1-2	.2	5.7	6.2	.0	.0	.0	12.1	.0	3.0	1.2	.0	.0	.0	4.2
3-4	.2	1.0	7.3	.5	.0	.0	9.0	.0	.2	1.2	.2	.0	.0	1.7
5-6	.0	.0	3.4	1.4	.0	.0	4.9	.0	.0	.7	.1	.0	.0	.8
7	.0	.0	.2	.0	.0	.0	.2	.0	.2	.3	.0	.0	.0	.6
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	10.2	17.5	2.2	.0	.0	32.2	.5	4.6	4.2	.3	.0	.0	9.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.9	.1	.0	.0	.0	.9	
1-2	.0	.7	.5	.0	.0	.0	1.2	.0	1.2	.1	.0	.0	.0	1.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.0	.0	.0	.6	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	.7	.0	.0	.0	2.2	.0	2.6	.4	.0	.0	.0	3.1	89.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.0	12.8	1.5	.0	.0	.0	28.3	
1-2	.7	17.7	14.5	.0	.0	.0	33.0	
3-4	.5	2.7	17.7	.7	.0	.0	21.7	
5-6	.0	.7	7.9	3.0	.0	.0	11.6	
7	.0	.2	.7	1.0	.2	.0	2.2	
8-9	.0	.2	1.0	.5	.2	.0	2.0	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.2	.2	.2	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.3	34.5	43.6	5.9	.7	.0	100.0	406

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	19.6	14.1	6.3	1.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	214	3
6-7	.0	2.0	3.7	5.1	1.0	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	4
8-9	.0	.0	.8	.6	.6	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
10-11	.0	2.0	.4	.2	.6	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
12-13	.0	.0	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	3
>13	.0	.0	.0	.8	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
INDEF	15.1	8.2	6.9	1.8	.4	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	2
TOTAL	83	156	134	75	31	11	6	4	0	0	0	0	0	0	0	0	0	0	0	490	3
PCT	16.9	31.8	27.3	15.3	6.3	2.2	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.9	1.0	1.7	.0	.0	.0	.0	7.7	1.7	.0	16.8	1.5	.0	.0		72.3
NE	12.2	.0	4.2	.0	.0	.0	.0	16.4	1.7	.0	15.6	.6	.0	.0		65.8
E	6.7	.0	8.8	.0	.0	.0	.0	15.5	1.8	.0	13.7	.0	.0	.0		69.1
SE	11.9	2.2	8.7	.0	.0	.0	.0	22.8	1.3	.0	24.5	.2	.9	.0		50.3
S	6.6	.6	5.1	.0	.0	.0	.0	12.2	1.6	.4	39.8	1.0	.0	.4		44.5
SW	1.4	.0	2.5	.0	.0	.0	.0	3.9	.2	.0	40.7	.9	.0	.0		54.2
W	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	16.7	.0	.0	.0		76.2
NW	1.8	.0	3.6	.0	.0	.0	.0	5.4	.0	.0	28.6	.0	.0	.0		66.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.2	.0	1.2	.0	.0	.0	.0	2.4	1.2	.0	35.4	1.2	.0	.0		59.8
TOT PCT	6.4	.6	4.6	.0	.0	.0	.0	11.6	1.3	.1	28.9	.8	.1	.1		57.1
TOT OBS:	906															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.1	.4	7.0	.0	.0	.0	.0	13.6	1.8	.0	28.9	.9	.0	.0		54.8
06&09	7.0	.0	3.1	.0	.0	.0	.0	10.1	2.2	.0	28.5	1.8	.0	.0		57.5
12&15	8.2	.3	3.8	.0	.0	.0	.0	12.3	1.4	.3	24.7	.3	.3	.0		60.6
18&21	3.8	1.6	5.4	.0	.5	.0	.0	11.4	.0	.0	35.3	.5	.0	.5		52.2
TOT PCT	6.5	.5	4.7	.0	.1	.0	.0	11.9	1.4	.1	28.8	.9	.1	.1		56.8
TOT OBS:	932															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	5.9	2.3	.4	.1	.0		10.9	9.2	16.1	9.6	6.0	11.0	13.3	10.7	5.7	11.9
NE	.5	5.6	3.2	.5	.1	.0		10.0	10.7	11.0	10.3	11.0	11.3	9.2	8.1	11.3	8.2
E	1.1	4.6	4.4	.9	.0	.0		11.0	11.3	10.5	5.1	10.8	11.3	10.7	12.8	13.4	12.9
SE	1.4	6.1	4.1	.4	.0	.0		11.9	9.5	10.3	10.3	9.9	9.9	15.3	10.3	15.5	13.4
S	3.5	15.8	11.9	.7	.0	.0		31.5	9.9	32.8	37.2	31.7	29.7	29.1	38.5	22.3	29.9
SW	1.1	6.2	5.2	.2	.0	.0		12.7	10.0	7.6	19.9	12.7	15.7	10.5	9.8	16.4	14.4
W	.3	1.4	.4	.0	.0	.0		2.0	6.9	1.6	.6	3.0	4.1	1.9	1.3	.9	3.1
NW	.8	1.9	.4	*	.0	.0		3.0	6.4	1.7	4.5	2.8	2.3	2.6	5.1	3.9	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.9							6.9	.0	8.5	2.6	12.1	4.7	7.5	3.4	10.7	4.1
TOT OBS	151	405	269	27	2	0	854		9.2	129	78	116	86	147	117	84	97
TOT PCT	17.7	47.4	31.5	3.2	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.6	3.5	1.4	.4	.0		10.9	9.2	13.6	8.2	12.1	9.0
NE	3.5	4.4	1.8	.2	.0		10.0	10.7	10.7	11.1	8.7	9.7
E	3.3	5.2	2.5	.0	.0		11.0	11.3	8.5	11.0	11.6	13.1
SE	4.5	6.3	1.0	.1	.0		11.9	9.5	10.3	9.9	13.1	14.4
S	10.5	16.4	4.6	.0	.0		31.5	9.9	34.4	30.8	33.2	26.4
SW	3.9	7.1	1.7	.0	.0		12.7	10.0	12.2	14.0	10.2	15.3
W	1.1	1.0	.0	.0	.0		2.0	6.9	1.2	3.5	1.6	2.1
NW	2.0	.9	.1	*	.0		3.0	6.4	2.8	2.6	3.7	2.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.9						6.9	.0	6.3	8.9	5.7	7.2
TOT OBS	353	382	112	7	0	854		9.2	207	202	264	181
TOT PCT	41.3	44.7	13.1	.8	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.3	10.6	51.7	29.0	2.4	.0	.0	8.9	100.0	207
06&09	8.9	11.4	39.1	36.6	3.5	.5	.0	9.5	100.0	202
12&15	5.7	11.4	45.1	34.1	3.4	.4	.0	9.7	100.0	264
18&21	7.2	9.4	55.2	24.9	3.3	.0	.0	8.4	100.0	181
TOT	59	92	405	269	27	2	0	9.2		854
PCT	6.9	10.8	47.4	31.5	3.2	.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	1.6	3.0	3.8		6.4
NE	1.0	.7	3.0	5.6		6.5
E	.6	1.1	3.6	4.7		6.4
SE	.9	.6	1.7	9.9		7.0
S	2.3	1.8	3.5	20.7		6.9
SW	1.3	.4	2.4	8.6		6.6
W	.9	.2	.8	.5		4.3
NW	.2	.2	.7	1.6		6.7
VAR	.0	.0	.0	.0		.0
CALM	2.4	.4	1.7	7.1		6.0
TOT OBS	55	37	109	334	535	6.5
TOT PCT	10.3	6.9	20.4	62.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.7	.0	.4	.8	1.9	2.7	.7	.0	.2	.0	3.3	
NE	1.3	.0	.4	.6	2.1	3.0	1.0	*	.0	.2	1.7	
E	1.1	.2	.0	.3	1.7	2.7	.5	.5	.0	.0	3.0	
SE	4.2	.3	.7	.5	2.2	2.0	1.2	.1	.0	*	2.0	
S	7.5	.8	1.4	1.8	4.4	4.9	1.4	.1	.1	.1	5.7	
SW	4.5	*	.2	*	.7	1.3	.7	.0	.4	.2	2.5	
W	.1	.1	.2	.0	.2	.5	.0	.0	.2	.0	1.1	
NW	1.0	*	.0	.2	.4	.5	.2	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.0	.0	.2	.4	1.5	2.4	.6	.0	.0	.2	3.4	
TOT OBS	130	8	18	22	81	106	34	4	5	4	123	535
TOT PCT	24.3	1.5	3.4	4.1	15.1	19.8	6.4	.7	.9	.7	23.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.3	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	1.3	2.0	2.6	2.6	2.6	2.6	2.6	2.6
* OR >3500	6.4	8.1	8.8	8.8	9.0	9.0	9.0	9.0
* OR >2000	17.4	26.1	28.3	28.4	28.8	28.8	28.8	28.8
* OR >1000	22.6	37.1	41.7	42.8	43.7	43.7	43.9	43.9
* OR >600	23.7	39.8	45.3	46.8	47.7	47.9	48.1	48.1
* OR >300	24.2	41.7	47.9	49.9	51.0	51.2	51.4	51.4
* OR >150	24.2	42.0	48.6	50.6	51.9	52.3	52.5	52.7
* OR > 0	24.2	42.6	51.4	54.7	58.0	64.4	74.7	76.7
TOTAL	132	232	280	298	316	351	407	418

TOTAL NUMBER OF OBS: 545

PCT FREQ NH <5/8: 23.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.7	3.7	7.7	3.2	1.9	3.9	7.4	7.7	35.0 22.7	568

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.1	.1	.1	.3	.1	.1	.1	.0	.0	.9	
<1/2	NO PCP	1.4	.8	.8	2.2	7.0	3.5	.1	.4	.0	2.3	18.6	
	TOT %	1.6	.9	.9	2.4	7.3	3.6	.1	.4	.0	2.3	19.4	
	PCP	.0	.1	.3	.3	.3	.1	.0	.0	.0	.0	1.0	
1/2<1	NO PCP	.3	.2	.1	*	1.4	.3	.0	.3	.0	.4	3.0	
	TOT %	.3	.3	.4	.3	1.6	.4	.0	.3	.0	.4	4.0	
	PCP	.1	*	.2	.3	.7	.2	.1	.0	.0	.0	1.7	
1<2	NO PCP	.1	.2	.2	.1	1.5	.5	.0	.0	.0	.1	2.7	
	TOT %	.2	.2	.4	.5	2.2	.6	.1	.0	.0	.1	4.3	
	PCP	.5	.9	.6	.8	1.0	.1	.0	.1	.0	.1	4.0	
2<5	NO PCP	.6	.4	.4	.8	1.6	.4	.0	.2	.0	.2	4.6	
	TOT %	1.0	1.2	1.0	1.5	2.6	.5	.0	.3	.0	.3	8.6	
	PCP	.0	.5	.3	1.2	1.1	.1	.0	.0	.0	.1	3.2	
5<10	NO PCP	1.9	2.2	2.2	1.8	5.6	2.4	.6	1.1	.0	1.7	19.6	
	TOT %	1.9	2.7	2.5	3.0	6.7	2.5	.6	1.1	.0	1.9	22.8	
	PCP	.0	.2	.1	.3	.2	.0	.0	.0	.0	.0	.8	
10+	NO PCP	6.1	4.6	5.4	4.8	8.4	4.3	1.4	.9	.0	4.1	40.1	
	TOT %	6.1	4.8	5.6	5.1	8.6	4.3	1.4	.9	.0	4.1	40.9	
	TOT OBS												900
	TOT PCT	11.1	10.0	10.8	12.7	29.0	11.9	2.3	3.1	.0	9.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.6	.0	.4	.4	1.0	.3	.0	.1	.0	1.5	4.4	
<1/2	4-10	1.0	1.0	.2	1.2	3.9	.9	.1	.1	.0		8.4	
	11-21	.2	.1	.1	.6	2.3	1.9	.0	.1	.0		5.4	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0		.2	
	TOT %	1.9	1.1	.7	2.4	7.3	3.1	.1	.3	.0	1.5	18.4	
	0-3	.0	.0	.1	.0	.1	.0	.0	.1	.0	.4	.7	
1/2<1	4-10	.3	.3	.3	.0	.5	*	.1	.2	.0		1.7	
	11-21	.0	.1	.1	.2	.8	.2	.0	.0	.0		1.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.4	.5	.2	1.4	.3	.1	.3	.0	.4	3.9	
	0-3	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.4	
1<2	4-10	.1	.0	.0	.4	1.7	.7	.0	.1	.0		3.0	
	11-21	.1	.1	.2	.0	.6	.4	.1	.0	.0		1.5	
	22+	.0	*	.1	.0	.2	.0	.0	.0	.0		.4	
	TOT %	.2	.1	.3	.5	2.8	1.1	.1	.1	.0	.0	5.2	
	0-3	.1	.2	.2	.0	.7	.1	.0	.0	.0	.0	1.2	
2<5	4-10	.6	.5	.4	1.1	1.4	.9	.0	.3	.0		5.2	
	11-21	.3	.5	.6	.5	1.9	.2	.0	.1	.0		4.0	
	22+	.2	.4	.1	.0	.1	.0	.0	.0	.0		.9	
	TOT %	1.2	1.5	1.4	1.6	4.1	1.1	.0	.4	.0	.0	11.3	
	0-3	.4	.0	.1	.6	.3	.2	.1	.4	.0	1.6	3.7	
5<10	4-10	.8	1.4	1.2	1.0	3.6	1.3	.5	.6	.0		10.5	
	11-21	.2	.7	1.0	1.1	3.0	1.1	.0	.0	.0		7.1	
	22+	.2	.1	.4	.1	.1	*	.0	.0	.0		1.0	
	TOT %	1.6	2.2	2.7	2.9	6.9	2.6	.7	1.0	.0	1.6	22.2	
	0-3	1.0	.2	.3	.2	1.0	.4	.2	.2	.0	3.4	6.9	
10+	4-10	3.0	2.5	2.4	2.5	4.8	2.4	.7	.5	.0		19.0	
	11-21	1.6	1.9	2.4	1.4	3.0	1.3	.2	.1	.0		11.9	
	22+	.1	.1	.4	.1	.2	.2	.0	*	.0		1.1	
	TOT %	5.7	4.6	5.5	4.3	9.1	4.3	1.2	.9	.0	3.4	39.0	
	TOT OBS												821
	TOT PCT	11.0	9.9	11.1	12.0	31.6	12.4	2.1	3.0	.0	6.8	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	20.3	.6	5.1	5.1	15.8	17.1	7.0	.6	1.3	1.3	74.1	25.9	158
06&09	23.0	1.4	2.9	3.6	12.9	22.3	6.5	.7	1.4	.0	74.8	25.2	139
12&15	21.9	1.2	3.0	4.7	13.0	23.1	5.9	1.8	.6	1.2	76.3	23.7	169
18&21	35.2	3.4	1.1	2.3	20.5	13.6	5.7	.0	.0	.0	81.8	18.2	88
TOT	132	8	18	23	83	109	35	5	5	4	422	132	554
PCT	23.8	1.4	3.2	4.2	15.0	19.7	6.3	.9	.9	.7	76.2	23.8	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
00&03	17.3	3.0	7.4	10.4	20.8	41.1	231
06&09	19.1	3.8	5.1	11.0	21.2	39.8	236
12&15	17.5	4.2	3.6	12.0	21.8	40.9	308
18&21	22.4	7.1	4.6	10.2	24.0	31.6	196
TOT	183	43	49	107	212	377	971
PCT	18.8	4.4	5.0	11.0	21.8	38.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	20.5	28.2	37.8	39.7	22.4	156
06&09	24.1	28.5	40.1	37.2	22.6	137
12&15	22.3	28.3	41.0	36.7	22.3	166
18&21	34.9	43.0	50.0	32.6	17.4	86
TOT	132	167	225	202	118	545
PCT	24.2	30.6	41.3	37.1	21.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	1.9	.0	.0	.0	.0	.0	1	1.9
70/74	.0	.0	.0	1.9	.0	.0	.0	.0	1	1.9
65/69	.0	.0	.0	.0	.0	.0	1.9	.0	1	1.9
60/64	.0	.0	.0	.0	.0	.0	1.9	17.3	10	19.2
55/59	.0	.0	.0	.0	.0	3.8	11.5	36.5	27	51.9
50/54	.0	.0	.0	.0	.0	9.6	.0	13.5	12	23.1
TOTAL	0	0	1	1	0	7	8	35	52	100.0
PCT	.0	.0	1.9	1.9	.0	13.5	15.4	67.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0
	.0	.0	.0	7.7	9.1	2.6	.0	.0	.0	.0
	14.9	.5	10.1	4.8	13.0	.5	.0	.5	.0	7.7
	7.7	2.4	5.3	.0	3.8	1.9	.0	1.9	.0	.0
	22.6	2.9	15.4	12.5	29.8	4.8	.0	2.4	.0	9.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	75	67	58	52	49	37	58.5	238
06&09	83	76	70	60	50	36	32	59.6	232
12&15	77	70	66	57	50	45	43	57.5	309
18&21	73	67	64	56	50	43	39	56.6	198
TOT	84	73	67	57	50	45	32	58.1	977

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.7	.0	13.3	20.0	60.0	88	15
06&09	.0	.0	.0	16.7	8.3	75.0	89	12
12&15	.0	.0	.0	25.0	16.7	58.3	88	12
18&21	.0	7.7	.0	.0	15.4	76.9	91	13
TOT	0	2	0	7	8	35	89	52

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

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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	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	.2	5	.1	.5
23/25	.0	.0	.0	.0	.0	.0	.+	.1	.0	.0	.0	.0	.0	4	.1	.4
20/22	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.1	.0	.0	4	.0	.5
17/19	.0	.0	.0	.0	.2	.5	.0	.0	.1	.0	.0	.1	.0	8	.1	.8
14/16	.0	.0	.0	.0	.1	.1	.0	.1	.0	.2	.0	.0	.0	5	.1	.5
11/13	.0	.0	.0	.0	.0	.5	.2	.4	.7	.2	.4	.0	.0	20	.9	1.4
9/10	.0	.0	.0	.0	.0	.5	.9	.9	1.4	.2	.0	.1	.0	35	1.1	3.1
7/8	.0	.0	.0	.0	.1	.6	.7	1.3	.6	.0	.0	.0	.0	28	1.1	2.3
6	.0	.0	.0	.0	.2	.7	.2	.5	.1	.1	.0	.0	.0	16	.6	1.3
5	.0	.0	.0	.0	.1	1.5	1.4	3.4	1.4	.0	.1	.0	.0	68	2.7	5.3
4	.0	.0	.0	.0	.2	2.0	2.8	4.3	.7	.2	.0	.0	.0	87	3.1	7.2
3	.0	.0	.0	.0	.0	.8	1.8	1.4	.0	.2	.0	.0	.0	36	1.1	3.2
2	.0	.0	.0	.2	1.1	4.3	3.3	5.7	.5	.1	.0	.0	.0	128	5.6	9.6
1	.0	.0	.0	.4	.8	1.3	2.8	.5	.1	.0	.0	.0	.0	50	1.4	4.5
0	.0	.0	.1	.5	3.2	6.3	4.4	3.4	.4	.0	.0	.0	.0	154	5.8	12.5
-1	.0	.0	.0	.0	.4	2.0	1.5	.6	.0	.0	.0	.0	.0	38	.9	3.6
-2	.0	.0	.0	.1	1.9	2.8	2.7	.4	.0	.0	.0	.0	.0	67	1.8	6.2
-3	.0	.0	.0	.0	.6	.6	.8	.2	.1	.0	.0	.0	.0	20	.5	1.9
-4	.0	.0	.0	.2	1.1	.6	1.2	.2	.0	.0	.0	.0	.0	28	.7	2.6
-5	.0	.0	.0	.0	.2	.8	.6	.0	.0	.0	.0	.0	.0	14	.4	1.3
-6	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.5
-7/-8	.0	.0	.0	.1	.1	.2	.2	.1	.0	.0	.0	.0	.0	7	.1	.7
-9/-10	.1	.0	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	6	.4	.4
-11/-13	.0	.0	.0	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	6	.0	.7
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.2
-17/-19	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
-20/-22	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	2	2	18	95	225	224	201	52	13	6	2	2	843	242	601
PCT	.1	.2	.2	2.1	11.3	26.7	26.6	23.8	6.2	1.5	.7	.2	.2	100.0	28.7	71.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.7
1-2	.0	2.9	.5	.0	.0	.0	3.4
3-4	.0	1.4	2.0	.0	.0	.0	3.4
5-6	.0	.0	.5	.3	.0	.0	.8
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.8	3.6	.3	.0	.0	9.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	.0	.0	.0	.0	1.8
1-2	.0	2.0	1.2	.0	.0	.0	3.2
3-4	.0	1.0	1.9	.3	.0	.0	3.2
5-6	.0	.0	1.3	.5	.0	.0	1.8
7	.0	.3	.1	.3	.3	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.7	4.7	1.1	.3	.0	11.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.0	1.8	1.9	.0	.0	.0	3.7
3-4	.0	.5	3.0	.0	.0	.0	3.5
5-6	.0	.0	.5	1.1	.0	.0	1.5
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.3	.3	.0	.0	.5
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.8	6.3	1.8	.0	.0	11.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.0	.0	.0	.0	2.4
1-2	.3	3.3	1.9	.0	.0	.0	5.5
3-4	.3	.6	1.9	.5	.0	.0	3.3
5-6	.0	.1	.7	.0	.0	.0	.7
7	.0	.3	.3	.3	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.3	.0	.0	.0	.0	.3
13-16	.0	.0	.1	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.6	4.8	.8	.0	.0	13.1

PERIOD: (OVER-ALL) 1963-1974 JULY AREA 0018 TATAR STRAIT S
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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	4.2	.0	.0	.0	.0	4.9
1-2	.3	5.5	7.7	.0	.0	.0	13.5
3-4	.0	1.1	5.1	.5	.0	.0	6.7
5-6	.0	.5	2.6	.0	.0	.0	3.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.2	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	11.6	15.8	.5	.0	.0	28.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.3	.0	.0	.0	2.5
1-2	.3	2.1	1.5	.0	.0	.0	3.9
3-4	.0	.4	2.0	.1	.0	.0	2.4
5-6	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	6.4	.1	.0	.0	11.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.7	.3	.0	.0	.0	1.1
1-2	.0	.7	.3	.0	.0	.0	1.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.4	.8	.0	.0	.0	2.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	.5	.0	.0	.0	.0	1.1	
1-2	.0	.1	.3	.0	.0	.0	.3	
3-4	.0	.3	.0	.0	.0	.0	.3	
5-6	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	.9	.8	.0	.0	.0	2.2	90.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.4	13.2	.5	.0	.0	.0	26.1	
1-2	.8	18.7	15.3	.0	.0	.0	34.7	
3-4	.3	5.3	15.8	1.3	.0	.0	22.6	
5-6	.0	.5	8.7	1.8	.0	.0	11.1	
7	.0	.5	1.8	.5	.3	.0	3.2	
8-9	.0	.3	.3	.3	.0	.0	.8	
10-11	.0	.0	.3	.3	.0	.0	.5	
12	.0	.3	.0	.3	.0	.0	.5	
13-16	.0	.0	.5	.0	.0	.0	.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								380
TOT PCT	13.4	38.7	43.2	4.5	.3	.0	100.0	

PERIOD: (OVER-ALL) 1956-1974 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	18.5	15.2	7.4	.8	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	3
6-7	.0	1.5	1.9	3.6	.6	.4	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	5
8-9	.0	.8	.4	1.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
10-11	.0	2.9	.2	.8	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	4
12-13	.0	.0	1.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.8	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	15.2	8.4	7.4	4.2	1.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	2
TOTAL	87	168	137	96	18	7	3	5	4	0	0	0	0	0	0	0	0	0	0	525	3
PCT	16.6	32.0	26.1	18.3	3.4	1.3	.6	1.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.9	.0	4.4	.0	.0	.0	.0	7.3	3.7	.0	3.7	.0	1.7	.0	83.6
NE	11.9	.0	4.9	.0	.0	.0	.0	16.8	4.5	.0	3.0	.0	.4	1.5	73.9
E	13.7	.0	6.9	.0	.0	.0	.0	20.6	.0	.0	2.3	.0	.0	.0	77.1
SE	7.1	.0	2.7	.0	.0	.0	.0	9.7	2.4	.0	15.9	1.2	.0	.0	70.8
S	4.7	.0	2.5	.0	.0	.0	.0	7.2	.5	.0	26.0	.0	.5	.0	65.9
SW	1.0	.0	2.1	.0	.0	.0	.0	2.9	.4	.0	24.3	.0	1.5	.0	70.9
W	2.8	.0	1.7	.0	.0	.0	.0	2.8	5.5	.0	5.5	.0	.0	.0	86.2
NW	7.2	.0	2.6	.0	.0	.0	.0	9.7	2.6	.0	11.3	.0	.0	.0	76.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7	.0	.0	.0	.0	.0	.0	5.7	2.9	.0	14.3	.0	.0	.0	77.1
TOT PCT	5.3	.0	3.0	.0	.0	.0	.0	8.2	2.0	.0	15.6	.1	.7	.1	73.3
TOT OBS:	769														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.9	.0	3.9	.0	.0	.0	.0	8.7	4.4	.0	11.7	.0	.0	.0	75.2
06&09	4.5	.0	2.5	.0	.0	.0	.0	6.6	1.0	.0	16.7	.0	1.0	.0	74.7
12&15	6.0	.0	4.3	.0	.0	.0	.0	10.2	2.1	.0	16.2	.4	1.3	.4	69.4
18&21	5.2	.0	2.0	.0	.0	.0	.0	7.2	.7	.0	18.3	.0	.0	.0	73.9
TOT PCT	5.2	.0	3.3	.0	.0	.0	.0	8.3	2.1	.0	15.5	.1	.6	.1	73.1
TOT OBS:	792														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.9	3.6	1.6	.2	.0		12.5	11.7	14.7	14.6	17.6	12.5	12.5	8.8	9.0	8.4
NE	1.0	4.1	3.2	.4	.1	.0		8.8	10.6	9.8	9.1	7.6	6.0	11.3	5.1	12.9	10.1
E	.7	3.0	1.8	.4	.0	.0		6.0	9.9	5.8	3.0	6.9	1.1	2.8	7.9	3.9	9.4
SE	1.4	6.9	2.0	.1	.0	.0		10.4	8.1	6.3	9.1	6.6	9.2	9.3	17.1	13.3	13.6
S	2.6	15.0	11.0	.8	.0	.0		29.4	10.3	21.7	33.8	31.9	30.4	30.4	29.6	26.6	31.8
SW	1.8	10.0	5.9	.2	.0	.0		17.9	9.4	13.3	22.9	14.2	27.7	8.8	23.6	17.6	16.9
W	.5	2.8	1.8	.1	.0	.0		5.3	9.3	10.5	4.3	6.9	6.0	1.7	3.2	5.1	4.5
NW	1.1	2.5	1.6	.1	.0	.0		5.2	8.4	7.5	1.8	2.5	6.0	6.4	3.7	10.2	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.4							4.4	.0	10.3	1.2	5.9	1.1	10.8	.9	1.6	.0
TOT OBS	108	368	228	28	2	0	734		9.5	107	82	102	92	102	108	64	77
TOT PCT	14.7	50.1	31.1	3.8	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	4.9	2.8	.4	.1		12.5	11.7	14.7	15.2	10.6	8.7
NE	3.2	3.6	1.7	.2	.1		8.8	10.6	9.5	6.8	8.1	11.3
E	2.1	3.2	.6	.1	.0		6.0	9.9	4.8	4.1	8.3	6.9
SE	4.4	5.6	.5	.0	.0		10.4	8.1	7.5	7.9	13.3	13.5
S	8.3	16.5	4.7	.0	.0		29.4	10.3	27.0	31.2	30.0	29.4
SW	5.9	10.3	1.7	.0	.0		17.9	9.4	17.5	20.6	16.4	17.2
W	2.5	2.4	.5	.0	.0		5.3	9.3	7.8	6.4	2.5	4.8
NW	2.7	2.0	.6	.0	.0		5.2	8.4	5.0	4.1	5.0	7.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.4						4.4	.0	8.3	3.6	5.7	.7
TOT OBS	277	355	96	5	1	734		9.5	189	194	210	141
TOT PCT	37.7	48.4	13.1	.7	.1		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

TABLE 4

AREA 0018 TATAR STRAIT S
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.3	7.4	54.5	24.3	6.9	.5	.0	9.3	100.0	189
06&09	3.6	10.8	43.3	37.1	4.6	.5	.0	10.5	100.0	194
12&15	5.7	10.0	51.4	31.0	1.9	.0	.0	9.0	100.0	210
18&21	.7	14.2	51.8	31.9	1.4	.0	.0	9.1	100.0	141
TOT	32	76	368	228	28	2	0	9.5		734
PCT	4.4	10.4	50.1	31.1	3.8	.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.1	4.7	5.3		5.6
NE	.9	1.0	3.5	4.9		6.3
E	.4	.9	1.6	2.9		6.3
SE	1.7	.5	2.4	4.6		5.9
S	3.6	2.3	9.0	11.8		6.1
SW	2.9	1.6	4.6	4.8		5.5
W	2.4	.7	2.3	1.3		4.5
NW	1.5	.5	2.2	2.6		5.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	1.0	1.5	2.7		5.0
TOT OBS	75	39	130	166	410	5.7
TOT PCT	18.3	9.5	31.7	40.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.9	.2	.0	.0	1.3	3.9	1.6	.2	.0	.5	5.4	
NE	1.0	.0	.2	.5	1.7	2.7	1.0	.0	.0	.0	2.6	
E	.2	.0	.0	.5	.8	2.1	.0	.0	.2	.0	2.0	
SE	.9	.0	.0	.5	.6	3.2	.0	.1	.3	.6	3.0	
S	4.2	.9	.7	.9	3.9	4.9	1.8	.6	.0	1.5	7.3	
SW	1.5	.4	.0	1.0	1.4	3.5	.1	.1	.3	.1	5.6	
W	.2	.0	.0	.0	.7	1.3	.4	.0	.2	.0	3.7	
NW	.4	.0	.2	.7	.7	1.5	.6	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.5	.5	2.2	.0	.0	.0	.0	3.4	
TOT OBS	40	6	5	19	48	104	23	4	4	11	146	410
TOT PCT	9.8	1.5	1.2	4.6	11.7	25.4	5.6	1.0	1.0	2.7	35.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >30YD	* OR >0
* OR >4500	2.6	3.3	3.3	3.3	3.6	3.6	3.6	3.6
* OR >3000	3.3	4.3	4.3	4.3	4.5	4.5	4.5	4.5
* OR >3500	7.8	10.0	10.0	10.0	10.2	10.2	10.2	10.2
* OR >2000	24.5	32.3	34.0	34.4	34.7	34.9	34.9	35.2
* OR >1000	31.6	42.5	45.6	46.1	46.3	46.6	46.6	46.8
* OR >600	33.0	45.8	49.9	50.8	51.1	51.3	51.5	51.8
* OR >300	33.7	46.6	50.8	51.8	52.3	52.5	52.7	53.0
* OR >150	34.7	47.5	52.0	53.2	53.7	53.9	54.2	54.4
* OR > 0	34.7	48.9	54.9	56.1	56.8	58.9	64.1	64.6
TOTAL	146	206	231	236	239	248	270	272

TOTAL NUMBER OF OBS: 421

PCT FREQ NH <5/8: 35.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.4	4.6	9.6	5.2	5.0	7.5	8.0	11.8	27.1	9.8	439

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
<1/2	NO PCP	.2	.3	.1	1.0	3.7	2.7	.2	.2	.0	.3	8.7	
	TOT %	.2	.4	.1	1.0	3.9	2.8	.2	.2	.0	.3	9.1	
	PCP	.1	.0	.0	.0	.1	.0	.0	.3	.0	.0	.5	
1/2<1	NO PCP	.0	.0	.0	.2	.6	.7	.1	.1	.0	.0	1.7	
	TOT %	.1	.0	.0	.2	.8	.7	.1	.4	.0	.0	2.2	
	PCP	.0	.1	.2	.0	.4	*	.0	.1	.0	.0	.8	
1<2	NO PCP	.1	.0	.0	.6	.5	.1	.0	.0	.0	.1	1.5	
	TOT %	.1	.1	.2	.6	.9	.1	.0	.1	.0	.1	2.2	
	PCP	.6	.7	.4	.4	.9	.0	.1	.1	.0	.0	3.2	
2<5	NO PCP	.6	.5	.1	.1	1.4	.6	.0	.3	.0	.3	3.8	
	TOT %	1.3	1.2	.5	.6	2.2	.6	.1	.3	.0	.3	7.0	
	PCP	.2	.3	.5	.4	.4	.3	.1	.2	.0	.3	2.6	
5<10	NO PCP	2.1	1.6	1.1	2.4	4.7	2.7	.7	1.0	.0	.4	16.8	
	TOT %	2.3	1.9	1.7	2.8	5.1	3.0	.8	1.1	.0	.7	19.4	
	PCP	.0	.3	.1	.3	.1	.1	.0	.0	.0	.0	.8	
10+	NO PCP	9.4	5.0	3.2	5.7	14.3	9.2	4.8	4.1	.0	3.3	59.2	
	TOT %	9.4	5.3	3.3	6.0	14.4	9.3	4.8	4.1	.0	3.3	60.0	
	TOT OBS												757
	TOT PCT	13.5	8.9	5.8	11.2	27.2	16.5	6.0	6.3	.0	4.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	.6	
<1/2	4-10	.1	.1	.3	.8	1.7	1.5	.1	*	.0		4.7	
	11-21	.0	.1	.0	.4	2.2	1.1	.0	.1	.0		4.0	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0		.3	
	TOT %	.1	.3	.3	1.2	4.2	2.9	.1	.2	.0	.3	9.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
1/2<1	4-10	.0	.0	.0	.1	.6	.3	.1	.1	.0		1.3	
	11-21	.1	.0	.0	.0	.4	.4	.0	.0	.0		1.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.1	.0	.0	.1	1.0	.7	.1	.3	.0	.0	2.4	
	0-3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
1<2	4-10	.1	.1	.1	.7	.6	.0	.0	.1	.0		1.7	
	11-21	.1	.1	.1	.1	.6	.3	.0	.0	.0		1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.2	.2	.8	1.5	.3	.0	.1	.0	.0	3.4	
	0-3	.3	.0	.0	.0	.1	.4	.0	.1	.0	.1	1.0	
2<5	4-10	.3	.6	.3	.9	2.1	1.1	.1	.2	.0		5.6	
	11-21	.8	.4	.4	.0	1.1	.4	.1	.0	.0		3.1	
	22+	.3	.1	.0	.0	.1	.0	.0	.0	.0		.6	
	TOT %	1.6	1.1	.6	.9	3.5	1.9	.1	.4	.0	.1	10.3	
	0-3	.1	.3	.3	.4	.3	.3	.1	.1	.0	.7	2.6	
5<10	4-10	.5	.9	1.0	1.0	2.4	1.6	.1	.4	.0		7.9	
	11-21	.6	.6	.3	.6	2.3	1.3	.5	.4	.0		6.6	
	22+	.5	.2	.1	.0	.0	.0	.0	.0	.0		.9	
	TOT %	1.8	2.0	1.6	2.1	5.0	3.2	.6	.9	.0	.7	17.9	
	0-3	.7	.6	.5	1.1	1.7	1.1	.5	.7	.0	3.1	10.2	
10+	4-10	5.0	2.3	1.3	3.6	7.2	5.5	2.5	1.7	.0		29.0	
	11-21	2.0	1.9	1.2	.9	4.1	2.3	1.4	1.0	.0		14.9	
	22+	1.0	.1	.3	.0	.5	.1	.1	.1	.0		2.3	
	TOT %	8.7	5.0	3.2	5.6	13.6	9.0	4.6	3.5	.0	3.1	56.4	
	TOT OBS												699
	TOT PCT	12.7	8.6	6.0	10.7	28.7	18.1	5.6	5.4	.0	4.3	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.2	.8	1.6	7.0	13.2	20.2	7.0	.0	.0	3.1	58.9	41.1	129
06&09	10.6	1.8	.0	3.5	9.7	32.7	5.3	1.8	.0	1.8	67.3	32.7	113
12&15	13.8	1.6	1.6	4.1	12.2	19.5	4.1	1.6	2.4	3.3	64.2	35.8	123
18&21	9.0	1.5	1.5	4.5	11.9	28.4	6.0	.0	1.5	1.5	65.7	34.3	67
TOT	43	6	5	21	51	106	24	4	4	11	275	157	432
PCT	10.0	1.4	1.2	4.9	11.8	24.5	5.6	.9	.9	2.5	63.7	36.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	7.1	2.4	3.3	6.6	18.5	62.1	211
06&09	9.3	2.4	3.9	6.8	15.6	62.0	205
12&15	9.6	1.6	2.8	17.2	20.4	48.4	250
18&21	10.8	3.8	3.8	7.0	18.4	56.3	158
TOT	75	20	28	82	151	468	824
PCT	9.1	2.4	3.4	10.0	18.3	56.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.3	9.4	21.3	40.9	37.8	127
06&09	10.8	12.6	18.9	49.5	31.5	111
12&15	15.3	19.5	32.2	36.4	31.4	118
18&21	9.2	13.8	21.5	44.6	33.8	65
TOT	44	58	100	179	142	421
PCT	10.5	13.8	23.8	42.5	33.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.0	.0	.0	.0	4.3	1	4.3
65/69	.0	.0	4.3	.0	.0	4.3	13.0	8.7	7	30.4
60/64	.0	.0	.0	.0	.0	17.4	.0	17.4	8	34.8
55/59	.0	.0	.0	.0	.0	8.7	8.7	.0	4	17.4
50/54	.0	.0	.0	.0	.0	4.3	4.3	4.3	3	13.0
TOTAL	0	0	1	0	0	8	6	8	23	100.0
PCT	.0	.0	4.3	.0	.0	34.8	26.1	34.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	4.3	.0	.0	.0
	3.3	1.1	.0	.0	16.3	9.8	.0	.0	.0	.0
	.0	4.3	.0	1.1	14.1	6.5	8.7	.0	.0	.0
	4.3	.0	.0	4.3	.0	.0	4.3	4.3	.0	.0
	3.3	1.1	.0	4.3	.0	.0	.0	4.3	.0	.0
	10.9	6.5	.0	9.8	30.4	16.3	17.4	8.7	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	77	73	64	55	50	45	64.5	216
06&09	82	78	73	65	57	43	39	64.8	206
12&15	84	79	70	63	55	51	46	62.6	258
18&21	72	70	68	63	54	41	41	61.4	161
TOT	84	77	72	64	55	46	39	63.4	841

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	14.3	.0	14.3	42.9	28.6	78	7
06&09	.0	.0	.0	50.0	25.0	25.0	80	8
12&15	.0	.0	.0	33.3	.0	66.7	91	6
18&21	.0	.0	.0	50.0	50.0	.0	79	2
TOT	0	1	0	8	6	8	82	23

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1870-1974

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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 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	3	.0	.4
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	2	.1	.1
14/16	.0	.0	.0	.0	.1	.1	.0	.3	.1	.3	.0	7	.0	1.0
11/13	.0	.0	.0	.1	.0	.6	.6	.1	.4	.3	.1	16	.3	2.0
9/10	.0	.0	.0	.1	.3	.3	.1	.3	.3	.3	.0	13	.1	1.8
7/8	.0	.0	.1	.0	.4	.6	1.0	1.4	1.0	.0	.0	32	1.1	3.4
6	.0	.0	.1	.0	.0	.3	.4	.6	.1	.0	.0	12	.3	1.4
5	.0	.0	.1	.3	.3	1.4	3.1	1.1	.3	.0	.0	47	.7	6.0
4	.0	.0	.0	.1	.3	4.4	4.6	1.9	.1	.0	.0	80	2.0	9.4
3	.0	.0	.0	.0	.1	1.6	1.3	.4	.1	.0	.0	25	.1	3.4
2	.0	.3	.0	.3	.7	7.5	6.3	1.6	.1	.0	.0	116	4.6	12.3
1	.0	.0	.0	.0	.7	3.1	.9	.4	.0	.0	.0	36	1.1	4.0
0	.3	.0	.0	.9	4.0	10.1	3.1	.4	.0	.0	.0	132	2.8	16.0
-1	.0	.0	.0	.1	1.4	1.9	.4	.0	.0	.0	.0	27	.4	3.4
-2	.0	.0	.0	.7	3.0	3.8	1.4	.0	.0	.0	.0	63	.7	8.3
-3	.0	.0	.0	.1	.4	.1	.6	.0	.0	.0	.0	9	.1	1.1
-4	.0	.0	.0	.7	2.6	2.0	.1	.0	.0	.0	.0	38	.4	5.0
-5	.0	.0	.0	.3	1.0	.3	.1	.0	.0	.0	.0	12	.0	1.7
-6	.0	.0	.1	.1	.7	.1	.0	.0	.0	.0	.0	8	.1	1.0
-7/-8	.0	.0	.0	.3	.6	.3	.0	.0	.0	.0	.0	8	.0	1.1
-9/-10	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	6	.0	.9
-11/-13	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	5	.3	.4
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
-20/-22	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	3	10	33	120	271	169	64	22	7	1	702	110	592
PCT	.3	.4	1.5	4.7	17.1	38.6	24.1	9.1	3.1	1.0	.1	100.0	15.7	84.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8
1-2	.0	2.8	1.8	.0	.0	.0	4.6
3-4	.0	1.6	2.6	.6	.0	.0	4.7
5-6	.0	.2	.2	1.6	.0	.0	2.1
7	.0	.0	.7	.0	.3	.0	1.0
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	5.5	2.8	.3	.0	15.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.2	1.9	.0	.0	.0	3.1
3-4	.0	.7	1.9	.4	.0	.0	3.1
5-6	.0	.0	1.4	.2	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	5.5	.6	.0	.0	9.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.2	.9	.0	.0	.0	2.1
3-4	.0	.6	1.2	.0	.0	.0	1.7
5-6	.0	.0	1.0	.2	.0	.0	1.2
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.3	3.4	.6	.0	.0	6.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2
1-2	.5	3.6	1.2	.0	.0	.0	5.3
3-4	.0	1.1	.8	.0	.0	.0	1.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.0	2.0	.0	.0	.0	8.9

PERIOD: (OVER-ALL) 1963-1974

AUGUST

TABLE 18 (CONT)

AREA 0018 TATAR STRAIT S
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	4.7	.0	.0	.0	.0	5.0
1-2	.8	5.9	3.9	.0	.0	.0	10.6
3-4	.0	2.2	3.3	.8	.0	.0	6.4
5-6	.0	.0	3.8	.3	.0	.0	4.1
7	.0	.2	.7	.3	.0	.0	1.2
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.0	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.3	.0	.0	.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
TOT PCT	1.1	13.4	12.6	1.5	.0	.0	28.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.0	3.5	2.6	.0	.0	.0	6.0
3-4	.0	1.1	1.9	.5	.0	.0	3.5
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.4	6.4	.5	.0	.0	13.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.2	.3	.0	.0	.0	.6
3-4	.0	.6	.8	.3	.0	.0	1.7
5-6	.0	.0	.8	.0	.0	.0	.8
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	2.6	.3	.0	.0	5.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.8	.0	.0	.0	.0	1.8
1-2	.0	.4	1.3	.0	.0	.0	1.7
3-4	.0	.1	.7	.0	.0	.0	.8
5-6	.0	.1	.3	.0	.0	.0	.4
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.4	2.8	.3	.0	.0	5.5

HGT	TOTAL PCT
<1	1.8
1-2	1.7
3-4	.8
5-6	.4
7	.3
8-9	.3
10-11	.1
12	.0
13-16	.0
17-19	.0
20-22	.0
23-25	.0
26-32	.0
33-40	.0
41-48	.0
49-60	.0
61-70	.0
71-86	.0
87+	.0
TOT PCT	92.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.2	13.5	.0	.0	.0	.0	22.8	
1-2	1.3	18.8	13.9	.0	.0	.0	34.0	
3-4	.0	7.9	13.2	2.6	.0	.0	23.8	
5-6	.0	.3	9.2	2.3	.0	.0	11.9	
7	.0	.3	2.3	.7	.3	.0	3.6	
8-9	.0	.0	1.0	.7	.0	.0	1.7	
10-11	.0	.0	1.0	.3	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.7	.0	.0	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.3	.0	.0	.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	
TOT PCT	10.6	41.6	40.9	6.6	.3	.0	100.0	303

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	18.4	15.3	4.5	1.4	1.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	3
6-7	.0	2.1	2.9	4.8	1.7	1.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	5
8-9	.2	.0	1.2	.7	.5	.7	.5	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
10-11	.0	1.2	.7	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
12-13	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	13.4	10.0	7.9	3.1	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	2
TOTAL	61	133	119	58	21	14	5	3	4	0	1	0	0	0	0	0	0	0	0	419	3
PCT	14.6	31.7	28.4	13.8	5.0	3.3	1.2	.7	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	6.6	.8	2.8	.0	.0	.0	.0	9.5	.8	.4	1.3	.8	1.5		.0	85.8
NE	16.8	.0	8.4	.0	.0	.0	.0	25.3	3.3	.3	.0	.0	1.1		.0	70.1
E	17.6	.0	2.1	.0	.0	.0	.0	19.6	5.3	1.4	.9	.0	.0		.0	72.7
SE	10.9	.0	1.0	.0	.0	.0	.0	11.9	2.4	.5	1.0	.0	.0		.0	84.3
S	3.8	.5	1.2	.0	.0	.0	.0	5.5	1.1	.5	1.5	.0	.6		.0	90.8
SW	3.5	.2	.7	.0	.0	.0	.0	4.4	.0	.4	2.6	.7	.0		.7	91.2
W	5.0	.0	1.4	.0	.0	.0	.0	6.4	.0	.7	.0	.0	.0		.0	92.9
NW	3.1	.0	3.5	.0	.0	.0	.0	6.6	1.6	2.3	1.9	.0	.0		.0	87.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.9	.0	.0	.0	.0	.0	.0	2.9	.0	.0	2.9	.0	.0		.0	94.3
TOT PCT	8.0	.2	2.3	.0	.0	.0	.0	10.4	1.7	.7	1.3	.2	.4		.1	85.2
TOT OBS:	904															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.9	.0	2.9	.0	.0	.0	.0	9.8	2.0	.0	2.4	.8	.0		.0	84.9
06&09	7.5	.0	2.9	.0	.0	.0	.0	10.0	.8	.4	.4	.0	1.3		.0	87.1
12&15	9.5	.4	1.6	.0	.0	.0	.0	11.5	1.2	1.6	1.2	.0	.8		.4	83.4
18&21	7.6	.5	2.0	.0	.0	.0	.0	10.2	3.0	.5	1.0	.0	.0		.0	85.3
TOT PCT	7.9	.2	2.4	.0	.0	.0	.0	10.4	1.7	.6	1.3	.2	.5		.1	85.1
TOT OBS:	935															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	5.7	5.2	2.1	.4	.1		14.7	13.7	11.9	21.3	14.1	15.6	11.5	18.0	11.5	15.2
NE	1.1	3.7	4.1	.7	.4	.0		10.1	12.7	8.8	10.8	7.6	9.4	7.4	12.3	12.4	14.1
E	.8	4.8	4.4	1.5	.0	.0		11.4	12.6	10.2	7.4	8.0	14.1	12.0	16.7	10.3	13.0
SE	1.0	7.1	3.2	.7	.1	.0		12.2	9.9	9.0	6.2	10.0	18.2	8.7	16.7	16.5	13.6
S	1.1	7.6	8.0	1.8	.2	.0		18.7	12.5	23.0	18.5	20.8	12.0	20.7	16.7	17.6	17.4
SW	1.1	5.8	6.6	1.3	*	.0		14.9	12.0	17.7	17.9	22.6	12.5	13.5	10.1	11.8	16.8
W	.4	4.1	1.9	.9	.0	.0		7.3	11.2	13.1	5.6	5.1	6.3	11.5	6.1	3.2	4.9
NW	.4	3.0	2.4	1.6	.0	.0		7.4	13.7	7.4	12.3	8.2	5.7	8.7	3.5	9.7	4.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	3.9	.0	3.6	6.3	6.1	.0	7.1	.0
TOT OBS	91	354	304	90	9	1	849		11.9	128	81	138	96	115	114	85	92
TOT PCT	10.7	41.7	35.8	10.6	1.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	5.9	4.2	.6	.4		14.7	13.7	15.6	14.7	14.7	13.4
NE	2.9	4.1	2.6	.4	.1		10.1	12.7	9.6	8.3	9.8	13.3
E	3.2	4.6	3.3	.4	.0		11.4	12.6	9.1	10.5	14.3	11.7
SE	4.7	5.8	1.3	.4	.0		12.2	9.9	7.9	13.4	12.7	15.0
S	4.0	10.0	4.0	.7	.0		18.7	12.5	21.3	17.2	18.7	17.5
SW	3.1	8.6	3.0	.2	.0		14.9	12.0	14.7	18.5	11.8	14.4
W	1.8	4.0	1.5	.0	.0		7.3	11.2	10.2	5.6	8.8	4.1
NW	1.8	3.1	2.1	.4	.0		7.4	13.7	9.3	7.2	6.1	7.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	2.4	4.7	3.1	3.4
TOT OBS	242	391	186	26	4	849		11.9	209	234	229	177
TOT PCT	28.5	46.1	21.9	3.1	.5		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.4	7.2	41.6	34.4	12.9	1.0	.5	12.5	100.0	209
06&09	4.7	5.1	37.6	38.5	12.8	1.3	.0	12.6	100.0	234
12&15	3.1	9.6	48.0	31.0	7.9	.4	.0	10.4	100.0	229
18&21	3.4	7.3	39.0	40.1	8.5	1.7	.0	12.2	100.0	177
TOT	29	62	354	304	90	9	1	11.9		849
PCT	3.4	7.3	41.7	35.8	10.6	1.1	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	2.1	4.4	4.6		5.5
NE	1.4	.3	1.9	5.2		6.3
E	1.2	1.3	1.6	5.9		6.3
SE	1.3	.9	3.3	2.8		5.7
S	9.1	2.1	5.7	2.7		3.5
SW	8.6	2.5	5.1	1.0		3.3
W	4.7	.8	2.3	1.6		3.5
NW	2.5	2.0	2.0	1.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	2.3	.8	1.3	.6		3.1
TOT OBS	159	61	131	123	474	4.5
TOT PCT	33.5	12.9	27.6	25.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.2	1.3	2.9	2.5	.9	.0	.0	.2	5.1	
NE	.5	.0	.0	.9	2.6	2.0	.3	.0	.0	.0	2.5	
E	.0	.0	.2	1.1	2.1	2.1	.8	.2	.4	.2	2.8	
SE	.4	.0	.5	.4	1.2	2.1	.2	.0	.0	.3	3.3	
S	.6	.2	.3	.2	1.4	2.3	.8	.4	.2	.0	13.2	
SW	.2	.1	.1	.2	1.1	3.1	.1	.1	.5	.0	11.9	
W	.2	.2	.0	.2	.7	.6	.8	.4	.0	.0	6.3	
NW	.2	.0	.2	.5	.3	.9	1.2	.0	.0	.0	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.6	.2	.4	.0	.0	.4	3.4	
TOT OBS	12	2	7	23	61	75	26	5	5	5	253	474
TOT PCT	2.5	.4	1.5	4.9	12.9	15.8	5.5	1.1	1.1	1.1	53.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.8	2.2	2.2	2.2	2.2	2.2	2.2
* OR >5000	2.2	2.9	3.3	3.3	3.3	3.3	3.3	3.3
* OR >3500	6.1	7.9	8.6	8.6	8.6	8.6	8.6	8.6
* OR >2000	18.1	23.4	24.4	24.4	24.4	24.4	24.4	24.4
* OR >1000	25.5	34.8	37.3	37.3	37.3	37.3	37.3	37.3
* OR >600	26.7	38.5	42.0	42.2	42.2	42.2	42.2	42.2
* OR >300	27.3	39.7	43.4	43.6	43.6	43.6	43.6	43.6
* OR >150	27.7	40.1	43.8	44.0	44.0	44.0	44.0	44.0
* OR > 0	27.9	41.3	45.6	45.8	45.8	45.8	46.0	46.4
TOTAL	137	203	224	225	225	225	226	228

TOTAL NUMBER OF OBS: 491 PCT FREQ NH <5/8: 53.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.6	8.0	12.5	5.3	5.8	4.7	8.4	8.6	23.2	2.1	514

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	NO PCP	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.0	.1	.0	.1	.0	.0	.3	
	PCP	.1	.1	.1	.2	.2	.2	.0	.1	.0	.0	.9	
1/2<1	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.2	.4	.2	.0	.1	.0	.0	1.0	
	PCP	.2	.3	.1	.1	.1	.2	.1	.0	.0	.0	1.0	
1<2	NO PCP	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.3	.2	.1	.1	.2	.1	.0	.0	.0	1.2	
	PCP	.3	.8	1.2	.3	.3	.1	.1	.0	.0	.0	3.2	
2<5	NO PCP	.2	.1	.2	.4	.5	.4	.0	.3	.0	.1	2.2	
	TOT %	.5	.9	1.4	.7	.8	.5	.1	.3	.0	.1	5.4	
	PCP	.6	1.2	.6	.5	.3	.0	.2	.2	.0	.0	3.6	
5<10	NO PCP	2.3	1.4	2.7	1.7	2.7	1.9	1.0	1.0	.0	.2	14.9	
	TOT %	2.9	2.7	3.2	2.2	3.1	1.9	1.1	1.2	.0	.2	18.6	
	PCP	.3	.2	.4	.3	.2	.1	.1	.2	.0	.1	2.0	
10+	NO PCP	10.6	6.0	6.7	7.8	13.6	11.9	6.3	5.2	.0	3.4	71.5	
	TOT %	10.9	6.2	7.1	8.1	13.8	12.0	6.4	5.4	.0	3.5	73.5	
	TOT OBS												905
	TOT PCT	14.6	10.3	12.0	11.4	18.1	14.9	7.8	7.1	.0	3.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.1	.0	.0	.0	.1	.0		.2	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.1	.0	.0	.1	.0	.1	.0	.1	.0	.0	.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.0	.2	.0	.1	.1	.0		.5	
	11-21	.1	.0	.0	.2	.2	.2	.1	.0	.0		.7	
	22+	.1	.1	.1	.1	.0	.1	.0	.1	.0		.5	
	TOT %	.2	.1	.1	.2	.4	.3	.2	.1	.0	.0	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.1	.1	.1	.2	.1	.1	.0	.0	.0		.8	
	11-21	.1	.2	.1	.0	.0	.0	.0	.0	.0		.4	
	22+	.1	.1	.0	.0	.0	.2	.2	.0	.0		.5	
	TOT %	.3	.3	.2	.2	.1	.3	.2	.0	.0	.0	1.7	
	0-3	.1	.1	.0	.1	.1	.1	.0	.0	.0	.1	.7	
2<5	4-10	.0	.3	.7	.7	.5	.1	.1	.3	.0		2.6	
	11-21	.6	.6	.8	.3	.7	.4	.0	.1	.0		3.5	
	22+	.3	.0	.2	.1	.1	.1	.1	.2	.0		1.1	
	TOT %	1.0	1.1	1.7	1.2	1.5	.7	.1	.6	.0	.1	7.9	
	0-3	.1	.2	.1	*	.3	.3	.3	.0	.0	.2	1.7	
5<10	4-10	1.5	1.0	1.1	1.0	.8	1.1	.5	.6	.0		7.6	
	11-21	.5	1.1	1.3	1.1	1.3	.5	.0	.2	.0		6.0	
	22+	.6	.5	.5	.1	.6	.1	.1	.5	.0		3.0	
	TOT %	2.8	2.8	3.0	2.3	3.0	2.0	1.0	1.2	.0	.2	18.2	
	0-3	.8	.8	.7	.9	.7	.6	.1	.4	.0	3.1	8.2	
10+	4-10	4.1	2.4	3.0	5.2	5.9	4.4	3.5	2.0	.0		30.5	
	11-21	3.9	2.3	2.3	1.5	5.6	5.4	1.8	2.2	.0		25.0	
	22+	1.1	.3	.8	.5	1.2	.9	.4	.9	.0		6.4	
	TOT %	10.0	5.9	6.7	8.1	13.4	11.4	5.9	5.4	.0	3.1	70.0	
	TOT OBS												833
	TOT PCT	14.4	10.3	11.6	12.2	18.4	14.8	7.4	7.5	.0	3.5	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

TABLE 10

AREA 0018 TATAR STRAIT S
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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.8	1.3	1.3	3.8	8.1	16.3	6.9	2.5	.6	.6	45.0	55.0	160
06&09	.0	.0	.7	7.5	14.3	19.0	4.8	.0	2.7	1.4	50.3	49.7	147
12&15	.9	.0	1.9	3.7	9.3	15.9	3.7	.9	.0	.9	37.4	62.6	107
18&21	5.6	.0	2.2	3.4	22.5	9.0	4.5	.0	.0	2.2	49.4	50.6	89
TOT	12	2	7	24	64	79	26	5	5	6	230	273	503
PCT	2.4	.4	1.4	4.8	12.7	15.7	5.2	1.0	1.0	1.2	45.7	54.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.8	1.2	1.2	7.7	14.1	75.0	248
06&09	.4	1.2	2.8	6.3	15.5	73.8	252
12&15	.4	2.3	1.5	7.3	22.1	66.4	262
18&21	.0	2.0	.5	7.4	20.7	69.5	203
TOT	4	16	15	69	174	687	965
PCT	.4	1.7	1.6	7.2	18.0	71.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.8	6.4	15.9	31.8	52.2	157
06&09	.0	.7	9.8	42.0	48.3	143
12&15	.9	2.8	9.4	28.3	62.3	106
18&21	5.9	8.2	16.5	36.5	47.1	85
TOT	12	21	63	171	257	491
PCT	2.4	4.3	12.8	34.8	52.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	3.2	.0	.0	3.2	.0	2	6.5
60/64	.0	3.2	.0	.0	.0	3.2	12.9	3.2	7	22.6
55/59	.0	.0	6.5	3.2	9.7	3.2	19.4	6.5	15	48.4
50/54	.0	.0	3.2	3.2	.0	9.7	.0	6.5	7	22.6
TOTAL	0	1	3	3	3	5	11	5	31	100.0
PCT	.0	3.2	9.7	9.7	9.7	16.1	35.5	16.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.4	.8	.0	.0	.0	3.2	.0	.0	.0	.0
.0	3.2	.0	3.2	9.7	.0	3.2	.0	.0	3.2
6.5	9.7	5.6	8.1	7.3	8.1	.0	3.2	.0	.0
3.2	3.2	.0	.0	.0	4.0	5.6	3.2	.0	3.2
12.1	16.9	5.6	11.3	16.9	15.3	8.9	6.5	.0	6.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	82	79	70	60	50	45	36	59.9	250
06&09	77	73	70	61	52	48	39	61.2	256
12&15	68	66	64	58	48	43	37	57.6	260
18&21	82	68	64	57	45	43	42	57.3	204
TOT	82	72	68	59	50	43	36	59.1	970

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	25.0	25.0	8.3	25.0	16.7	73	12
06&09	.0	20.0	.0	20.0	50.0	10.0	73	10
12&15	.0	33.3	.0	16.7	33.3	16.7	74	6
18&21	.0	.0	.0	33.3	33.3	33.3	81	3
TOT	0	7	3	5	11	5	74	31

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PERIOD: (PRIMARY) 1938-1974
(OVER-ALL) 1870-1974

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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 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
23/25	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.1	.0	3	.0	.4
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	2	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.1	.0	3	.0	.4
14/16	.0	.0	.0	.0	.1	.1	.2	.0	.1	.1	.0	.0	6	.0	.7
11/13	.0	.0	.0	.0	.2	.4	.4	.5	.2	.2	.0	.1	17	.0	2.0
9/10	.0	.0	.0	.1	.0	.2	.4	.6	.7	.0	.0	.0	17	.1	1.9
7/8	.0	.0	.0	.1	.1	.2	.4	.7	.5	.1	.0	.0	18	.0	2.2
6	.0	.0	.0	.0	.0	.4	.2	.1	.4	.0	.0	.0	9	.1	1.0
5	.0	.0	.0	.1	.4	1.0	1.3	.7	.2	.0	.0	.0	31	.1	3.6
4	.0	.0	.1	.6	.7	1.2	3.2	1.3	.6	.0	.0	.0	65	.0	7.8
3	.0	.0	.0	.0	.2	.8	1.0	.4	.0	.0	.0	.0	20	.1	2.3
2	.0	.0	.4	.5	1.4	1.7	4.9	1.0	.2	.0	.1	.0	85	.5	9.7
1	.0	.0	.0	.0	.4	.6	1.6	.2	.4	.0	.0	.0	26	.0	3.1
0	.0	.1	.5	.7	3.0	3.1	8.5	.8	.1	.1	.0	.0	142	.0	17.1
-1	.0	.0	.0	.4	.1	1.0	1.1	.1	.0	.0	.0	.0	22	.1	2.5
-2	.0	.0	.1	.4	3.7	4.4	4.4	.2	.1	.0	.0	.0	112	.1	13.3
-3	.0	.0	.0	.2	.5	2.0	.4	.0	.0	.0	.0	.0	26	.0	3.1
-4	.0	.0	.6	1.2	2.3	3.7	1.9	.0	.0	.0	.0	.0	81	.1	9.6
-5	.0	.0	.6	.7	1.7	2.3	1.0	.0	.0	.0	.0	.0	52	.1	6.1
-6	.0	.0	.1	.2	.8	.7	.1	.2	.0	.0	.0	.0	19	.0	2.3
-7/-8	.0	.0	.6	1.2	1.1	1.3	.1	.0	.0	.0	.0	.0	36	.0	4.3
-9/-10	.0	.0	.4	.7	.4	.2	.1	.0	.0	.0	.0	.0	15	.0	1.8
-11/-13	.0	.1	.1	.6	.1	.5	.2	.0	.0	.0	.0	.0	14	.0	1.7
-14/-16	.1	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	7	.0	.8
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	4	32	67	144	217	266	60	31	5	3	2	832	12	820
PCT	.1	.5	3.8	8.0	17.3	26.1	32.0	7.2	3.7	.6	.4	.2	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.8	.0	.0	.0	.0	1.6
1-2	.2	2.8	1.0	.0	.0	.0	4.0
3-4	.0	1.3	.6	.5	.0	.0	2.4
5-6	.0	.5	1.5	.7	.0	.0	2.6
7	.0	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.2	.0	.3	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	5.3	3.8	1.8	.3	.0	12.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.8
1-2	.0	.4	.8	.0	.0	.0	1.2
3-4	.0	.0	3.2	.1	.0	.0	3.3
5-6	.0	.1	.6	.1	.0	.0	.8
7	.0	.0	.5	.8	.0	.0	1.4
8-9	.0	.5	.1	.0	.3	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	1.7	5.2	1.1	.5	.0	8.7

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.4	.0	.0	.0	.0	.9
1-2	.3	1.4	.9	.0	.0	.0	2.6
3-4	.0	.3	2.6	.8	.0	.0	3.7
5-6	.0	.0	1.2	.7	.0	.0	1.9
7	.0	.0	.3	.8	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.3	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.1	5.2	2.6	.0	.0	10.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.3	.0	.0	.0	1.4
1-2	.0	2.1	.9	.0	.0	.0	3.0
3-4	.0	.3	2.3	.1	.0	.0	2.7
5-6	.0	.0	.8	1.0	.3	.0	2.1
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.5	4.7	1.2	.3	.0	9.7

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0018 TATAR STRAIT S
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.4	.0	.0	.0	.0	2.0	.3	1.7	.3	.0	.0	.0	2.3
1-2	.3	3.8	2.3	.0	.0	.0	6.3	.0	2.3	3.6	.0	.0	.0	5.9
3-4	.0	.6	4.7	1.0	.0	.0	6.3	.0	.8	2.7	.3	.0	.0	3.9
5-6	.0	.0	2.6	1.5	.0	.0	4.1	.0	.0	1.5	.3	.0	.0	1.8
7	.0	.0	.5	.4	.0	.0	.9	.0	.5	.3	.4	.0	.0	1.2
8-9	.0	.0	.5	.0	.3	.0	.7	.3	.0	.1	.0	.0	.0	.3
10-11	.0	.0	.0	.3	.2	.0	.5	.0	.0	.0	.3	.1	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.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
TOT PCT	.9	5.8	10.5	3.3	.5	.0	21.0	.6	5.3	8.4	1.4	.1	.0	15.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	2.4	.2	.0	.0	.0	2.6	.4	.8	.1	.0	.0	.0	1.3	
1-2	.0	1.7	.5	.0	.0	.0	2.1	.1	1.1	1.6	.0	.0	.0	2.8	
3-4	.0	1.0	1.7	.2	.0	.0	2.9	.0	.0	1.1	.6	.0	.0	1.7	
5-6	.0	.0	.0	.5	.0	.0	.5	.0	.0	.3	.6	.0	.0	.9	
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.5	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.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	.3	.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	
TOT PCT	.0	5.1	2.3	.9	.0	.0	8.3	.5	1.9	3.7	2.5	.0	.0	8.6	94.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	9.3	.8	.0	.0	.0	17.6	
1-2	1.3	15.5	11.6	.0	.0	.0	28.4	
3-4	.0	4.4	18.9	3.6	.0	.0	26.9	
5-6	.0	.5	8.5	5.4	.3	.0	14.7	
7	.0	.5	2.6	3.4	.0	.0	6.5	
8-9	.3	.5	1.0	.3	.5	.0	2.6	
10-11	.0	.0	.5	1.0	.5	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.8	.3	.0	1.0	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								387
TOT PCT	9.0	30.7	43.9	14.7	1.6	.0	100.0	

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	16.9	15.2	6.3	2.0	.8	.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	226	3
6-7	.0	2.0	3.5	3.7	3.0	2.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	6
8-9	.0	.6	.4	1.8	1.4	.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	6
10-11	.0	2.6	.6	.0	.0	.6	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	20	4
12-13	.0	.0	.2	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.4	.0	.0	.2	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
INDET	10.6	6.5	5.7	3.7	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	142	2
TOTAL	66	145	130	81	38	25	12	3	6	1	0	1	0	0	0	0	0	0	0	508	4
PCT	13.0	28.5	25.6	15.9	7.5	4.9	2.4	.6	1.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1872-1974

AREA 0018 TATAR STRAIT S
48.0N 141.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	11.7	.0	.6	.0	1.2	.0	.0	13.5	.8	.0	1.3	.0	.0		.0	84.4
NE	12.1	.0	6.1	.0	.9	.0	1.9	21.0	1.9	.0	.5	.0	.0		.0	76.6
E	11.1	.0	2.0	.0	.0	.0	.0	13.1	1.5	.0	2.0	.0	2.0		.0	81.3
SE	9.1	1.6	1.6	.0	.0	.0	.0	12.3	2.0	.0	1.6	.0	.0		.0	84.1
S	4.9	.0	1.3	.0	.0	.0	.0	6.1	.0	.4	2.8	.0	1.3		.0	89.4
SW	1.8	.7	.4	.0	.0	.0	.0	2.8	1.4	.1	2.7	.0	1.1		.0	91.0
W	2.5	.0	.8	.0	.8	.0	.0	4.1	.0	.0	1.2	.0	.0		.0	94.7
NW	6.6	.0	.0	.0	1.5	.0	.8	8.1	.0	.0	1.1	.0	1.5		.0	89.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	5.6	.0	.0	.0	.0	5.5	.0	.0	5.6	.0	5.6		.0	83.3
TOT PCT	6.4	.2	1.2	.0	.6	.0	.2	8.6	.7	.2	1.8	.0	.8		.0	87.8
TOT OBS:	827															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	6.3	.0	.8	.0	.0	.0	.4	7.5	2.1	.4	2.5	.0	1.3		.0	86.3
06&09	5.6	.0	1.4	.0	.5	.0	.0	7.4	.0	.5	2.3	.0	.5		.0	89.3
12&15	6.0	.0	1.6	.0	1.2	.0	.0	8.8	.4	.0	1.2	.0	.8		.0	88.8
18&21	7.6	1.4	.7	.0	.7	.0	.7	10.3	.0	.0	.7	.0	1.4		.0	87.6
TOT PCT	6.2	.2	1.2	.0	.6	.0	.2	8.4	.7	.2	1.8	.0	.9		.0	88.0
TOT OBS:	849															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	3.7	7.0	3.5	.3	.0		15.1	15.8	16.0	20.1	10.9	16.2	17.9	12.5	16.9	12.7
NE	.5	2.1	1.9	1.1	.1	.0		5.8	14.1	6.7	2.7	5.8	4.2	4.6	7.2	6.2	7.7
E	.8	2.3	1.7	.4	.0	.0		5.3	10.8	3.1	3.0	4.2	8.5	7.3	5.8	4.6	7.0
SE	.3	4.1	2.0	.3	.0	.1		6.8	10.2	7.6	4.5	4.4	10.6	1.9	12.0	5.0	11.3
S	1.0	4.2	7.9	1.0	.0	.1		14.1	12.8	12.9	11.4	17.2	7.0	14.0	21.2	11.9	12.0
SW	.3	6.0	9.1	3.2	.3	.0		18.9	14.7	13.4	24.6	22.4	15.5	22.3	15.4	16.9	21.8
W	.2	4.9	6.6	3.5	.0	.0		15.3	14.8	16.0	14.8	16.1	21.1	13.7	9.6	19.2	14.8
NW	.4	3.5	9.4	3.5	.1	.0		16.8	15.8	20.7	17.4	16.1	15.5	16.7	15.4	17.7	12.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	3.4	1.5	2.9	1.4	1.5	1.0	1.5	.0
TOT OBS	48	244	360	130	6	1	789		14.0	143	66	137	71	130	104	65	71
TOT PCT	6.1	30.9	45.6	16.5	.8	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	6.2	5.3	1.3	.2		15.1	15.8	17.3	12.7	15.5	14.7
NE	1.8	1.7	1.6	.6	.1		5.8	14.1	5.5	5.3	5.8	7.0
E	2.2	1.7	1.3	.1	.0		5.3	10.8	3.1	5.6	6.6	5.9
SE	2.6	3.4	.8	*	.1		6.8	10.2	6.6	6.5	6.4	8.3
S	2.9	7.7	3.1	.3	.1		14.1	12.8	12.4	13.7	17.2	11.9
SW	2.7	9.2	5.7	1.2	.1		18.9	14.7	16.9	20.1	19.2	19.5
W	2.1	7.7	4.2	1.3	.0		15.3	14.8	15.6	17.8	11.9	16.9
NW	1.9	7.3	6.5	1.1	.0		16.8	15.8	19.7	15.9	16.1	15.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	2.8	2.4	1.3	.7
TOT OBS	159	354	225	47	4	789		14.0	211	208	234	136
TOT PCT	20.2	44.9	28.5	6.0	.5		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (SUMMARY) 1939-1974
(OVER-ALL) 1872-1974

AREA 0018 TATAR STRAIT S
48.0N 141.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	4.3	27.0	46.0	19.9	.0	.0	14.3	100.0	211
06&09	2.4	3.8	28.8	48.6	15.4	1.0	.0	14.0	100.0	208
12&15	1.3	3.8	35.9	42.3	15.0	1.3	.4	13.7	100.0	234
18&21	.7	5.1	31.6	46.3	15.4	.7	.0	13.8	100.0	136
TOT	15	33	244	360	130	6	1	14.0		789
PCT	1.9	4.2	30.9	45.6	16.5	.8	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.9	2.3	5.7	4.8		5.2
NE	.6	.4	2.0	3.5		6.5
E	1.3	.4	2.1	1.6		5.2
SE	2.0	.1	1.9	2.9		5.3
S	4.9	2.3	4.4	2.7		4.1
SW	8.0	2.0	4.0	1.9		3.1
W	6.5	2.6	4.5	1.5		3.4
NW	7.1	3.3	5.0	2.3		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	.6	.8		3.7
TOT OBS	168	65	143	106	482	4.2
TOT PCT	34.9	13.5	29.7	22.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.0	.2	.4	2.1	3.7	1.0	.0	.6	.4	6.2	
NE	.5	.0	.1	.0	1.1	2.6	.6	.0	.0	.0	1.7	
E	.0	.0	.4	.6	.6	1.2	.2	.0	.0	.2	2.3	
SE	.3	.0	.1	.4	1.3	2.0	.4	.2	.0	.0	2.2	
S	.4	.0	.0	.4	1.0	2.3	.5	.0	.2	.2	9.4	
SW	.0	.0	.0	.1	2.0	1.4	1.7	.0	.2	.0	10.7	
W	.0	.0	.2	.2	1.0	1.7	1.0	.4	.4	.0	10.2	
NW	.3	.0	.0	.2	1.8	2.2	1.3	.0	.2	.5	11.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.2	.6	.2	.0	.0	.0	.0	1.7	
TOT OBS	11	0	4	12	55	83	32	3	8	6	268	482
TOT PCT	2.3	.0	.8	2.5	11.4	17.2	6.6	.6	1.7	1.2	55.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	2.0	2.8	2.8	2.8	3.0	3.0	3.0	3.0
▪ OR >5000	2.4	3.2	3.4	3.4	3.6	3.6	3.6	3.6
▪ OR >3500	7.6	9.8	10.0	10.0	10.2	10.2	10.2	10.2
▪ OR >2000	17.8	25.5	26.7	26.7	27.1	27.1	27.1	27.1
▪ OR >1000	25.3	36.3	38.1	38.3	38.7	38.7	38.7	38.7
▪ OR >600	26.3	38.1	40.5	40.7	41.1	41.1	41.1	41.1
▪ OR >300	26.5	38.7	41.1	41.5	41.9	41.9	41.9	41.9
▪ OR >150	26.5	38.7	41.1	41.5	41.9	41.9	41.9	41.9
▪ OR > 0	26.7	39.7	43.1	43.7	44.1	44.1	44.1	44.1
TOTAL	133	198	215	218	220	220	220	220

TOTAL NUMBER OF OBS: 499 PCT FREQ NH <5/8: 55.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
29.9	7.5	11.0	5.8	6.4	7.5	10.2	8.7	16.8	2.1	518

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1872-1974

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.1	.1	.0	.0	.0	.0	.2	.0	.0	.7	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.2	
	TOT %	.2	.1	.1	.0	.0	.1	.1	.3	.0	.0	1.0	
1/2<1	PCP	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.2	*	.0	.1	.1	.1	.0	.0	.0	.0	.5	
1<2	PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	.6	
2<5	PCP	.7	.7	.2	.3	.3	.1	.2	.1	.0	.0	2.7	
	NO PCP	.2	.1	.4	.3	.4	.4	.1	.4	.0	.1	2.4	
	TOT %	.9	.8	.6	.6	.7	.5	.4	.5	.0	.1	5.1	
5<10	PCP	.6	.3	.4	.6	.4	.2	.1	.7	.0	.0	3.4	
	NO PCP	3.2	1.8	1.0	1.4	3.4	3.0	1.4	2.8	.0	.4	18.5	
	TOT %	9.8	2.1	1.4	2.1	3.8	3.3	1.6	3.5	.0	.4	21.9	
10+	PCP	.3	.0	.0	.0	.1	.1	.2	.4	.0	.1	1.3	
	NO PCP	10.1	3.1	3.7	4.8	9.5	13.0	12.5	11.5	.0	1.6	69.7	
	TOT %	10.4	3.1	3.7	4.8	9.6	13.1	12.7	11.9	.0	1.7	71.0	
	TOT OBS												828
	TOT PCT	15.8	6.5	6.0	7.6	14.2	17.0	14.7	16.2	.0	2.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.1	.1	.1	.0		.3	
	11-21	.2	.1	.1	.0	.0	.1	.0	.1	.0		.6	
	22+	.1	.1	.0	.0	.0	.0	.0	.1	.0		.3	
	TOT %	.3	.1	.1	.0	.0	.3	.1	.3	.0	.0	1.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	11-21	.0	.0	.0	.0	.1	.1	.0	.0	.0		.1	
	22+	.2	*	.0	.0	.0	.0	.0	.1	.0		.4	
	TOT %	.2	*	.0	.0	.1	.2	.0	.1	.0	.0	.6	
1<2	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	22+	.2	.2	.0	.0	.0	.0	.0	.1	.0		.5	
	TOT %	.3	.2	.1	.0	.1	.0	.0	.1	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.3	.3	.3	.5	.5	.3	.0	.2	.0		2.3	
	11-21	.5	*	.1	.0	.5	1.1	.5	.6	.0		3.2	
	22+	.6	.1	.1	.3	.4	.1	.3	.4	.0		2.3	
	TOT %	1.4	.4	.5	.7	1.5	1.5	.7	1.2	.0	.1	8.1	
5<10	0-3	.4	.1	.1	.0	.2	.1	.0	.2	.0	.3	1.3	
	4-10	.4	.8	.6	.9	1.2	.8	.9	.7	.0		6.3	
	11-21	1.8	.7	.3	.9	1.9	2.2	.4	1.8	.0		9.9	
	22+	1.2	.4	.0	.0	.4	.4	.4	1.0	.0		3.7	
	TOT %	3.7	2.0	1.0	1.8	3.7	3.4	1.7	3.7	.0	.3	21.2	
10+	0-3	.3	.4	.6	.3	.3	.2	.1	.2	.0	1.5	3.9	
	4-10	3.0	1.1	1.5	2.9	2.5	4.4	3.9	2.6	.0		21.9	
	11-21	4.6	1.1	1.3	1.1	5.6	5.6	5.9	7.0	.0		32.2	
	22+	1.5	.5	.3	.1	.3	3.0	2.6	1.6	.0		9.9	
	TOT %	9.4	3.1	3.6	4.3	8.8	13.2	12.5	11.5	.0	1.5	67.8	
	TOT OBS												777
	TOT PCT	15.3	5.9	5.4	6.9	14.1	18.7	15.1	16.9	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1872-1974

AREA 0018 TATAR STRAIT S
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	2.4	.0	1.8	2.4	11.4	21.0	7.2	.6	.6	1.2	48.5	51.5	167
06&09	2.0	.0	.7	2.7	14.3	12.9	7.5	.7	1.4	.7	42.9	57.1	147
12&15	2.5	.0	.0	1.7	10.7	12.4	5.8	.8	2.5	2.5	38.8	61.2	121
18&21	2.8	.0	.0	2.8	7.0	22.5	5.6	.0	2.8	1.4	45.1	54.9	71
TOT	12	0	4	12	38	85	34	3	8	7	223	283	506
PCT	2.4	.0	.8	2.4	11.5	16.8	6.7	.6	1.6	1.4	44.1	55.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.4	.4	1.6	7.7	18.6	71.3	247
06&09	.9	.4	.4	6.7	18.8	72.8	224
12&15	1.1	1.5	1.1	8.4	25.7	62.1	261
18&21	2.6	.0	1.9	10.3	19.9	66.0	156
TOT	10	6	10	72	186	604	888
PCT	1.1	.7	1.1	8.1	20.9	68.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.8	3.7	9.8	40.2	50.0	164
06&09	2.1	2.8	9.0	35.2	55.9	145
12&15	2.5	4.2	9.2	31.7	59.2	120
18&21	2.9	2.9	11.4	37.1	51.4	70
TOT	11	17	48	181	270	499
PCT	2.2	3.4	9.6	36.3	54.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	2.5	.0	.0	.0	2.5	.0	2	5.0
50/54	.0	2.5	2.5	2.5	.0	10.0	5.0	20.0	17	42.5
45/49	.0	2.5	.0	2.5	2.5	10.0	5.0	.0	9	22.5
40/44	.0	.0	.0	2.5	2.5	2.5	.0	2.5	4	10.0
35/39	.0	.0	.0	.0	7.5	2.5	2.5	.0	5	12.5
30/34	.0	.0	.0	.0	.0	.0	.0	7.5	3	7.5
TOTAL	0	2	2	3	5	10	6	12	40	100.0
PCT	.0	5.0	5.0	7.5	12.5	25.0	15.0	30.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5
	2.5	7.5	7.5	10.0	1.9	.6	7.5	2.5	.0	2.5
	3.8	2.5	.0	.0	1.9	6.3	4.4	3.8	.0	.0
	4.4	.6	.0	.0	2.5	.0	.0	2.5	.0	.0
	2.5	.0	.0	.0	.0	.0	9.4	.6	.0	.0
	.0	.0	.0	.0	.0	.0	.0	7.5	.0	.0
	13.1	10.6	7.5	10.0	8.8	6.9	21.3	16.9	.0	5.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	64	63	59	48	37	34	28	47.8	245
06&09	67	65	60	48	37	32	32	48.5	223
12&15	61	59	56	46	36	32	27	46.5	265
18&21	59	57	55	48	34	32	25	46.3	156
TOT	67	63	58	48	36	32	25	47.3	889

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	16.7	25.0	25.0	16.7	16.7	74	12
06&09	.0	27.3	.0	36.4	.0	36.4	73	11
12&15	.0	16.7	16.7	16.7	16.7	33.3	76	6
18&21	.0	9.1	9.1	18.2	27.3	36.4	83	11
TOT	0	7	5	10	6	12	76	40

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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 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2	.0	.3
20/22	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.4	.1	.0	.1	.1	6	.0	.8
11/13	.0	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	5	.0	.7
9/10	.0	.0	.0	.0	.1	.4	.0	.3	.4	.3	.1	12	.0	1.6
7/8	.0	.0	.0	.1	.0	.0	.7	.0	.4	.1	.0	10	.1	1.2
6	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	4	.0	.5
5	.0	.0	.0	.0	.1	.8	.3	1.2	.5	.1	.0	23	.0	3.1
4	.0	.0	.0	.1	.3	1.7	.7	.9	.5	.4	.0	35	.1	4.5
3	.0	.0	.0	.0	.3	.3	.3	.3	.5	.1	.0	13	.1	1.6
2	.0	.0	.1	.8	.5	2.0	2.7	1.3	.8	.1	.0	63	.1	8.2
1	.0	.0	.0	.0	.1	.4	.7	.4	.7	.1	.0	18	.1	2.3
0	.0	.0	.0	.5	1.5	3.6	2.8	1.9	1.5	.1	.0	89	.3	11.5
-1	.0	.0	.0	.0	.3	.4	.8	1.3	.4	.0	.0	24	.0	3.2
-2	.0	.1	.0	.8	.9	4.0	3.6	1.5	.7	.0	.0	87	.1	11.4
-3	.0	.0	.0	.1	.1	.8	.7	.9	.3	.0	.0	22	.0	2.9
-4	.0	.1	.3	.8	1.6	2.8	2.1	1.2	.3	.0	.0	69	.3	8.9
-5	.0	.0	.7	2.0	2.1	2.8	1.1	.5	.3	.0	.0	71	.4	9.0
-6	.0	.0	.1	.1	.1	.5	.9	.4	.0	.0	.0	17	.0	2.3
-7/-8	.0	.4	.5	1.1	2.3	2.9	2.8	.0	.1	.0	.0	76	.0	10.1
-9/-10	.1	.3	.4	.7	2.1	1.3	.7	.1	.1	.0	.0	44	.1	5.7
-11/-13	.0	.3	.5	1.7	1.1	.4	.1	.1	.0	.0	.0	32	.0	4.2
-14/-16	.0	.0	.4	1.5	.5	.0	.0	.0	.0	.0	.0	18	.0	2.4
-17/-19	.1	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	5	.0	.7
-20/-22	.0	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	7	.0	.9
TOTAL	2	11	26	83	109	193	161	96	56	14	3	754	14	740
PCT	.3	1.5	3.4	11.0	14.5	25.6	21.4	12.7	7.4	1.9	.4	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.3	.0	.0	.0	1.8
1-2	.0	1.2	1.3	.0	.0	.0	2.5
3-4	.0	.3	2.2	.0	.0	.0	2.5
5-6	.0	.0	1.9	.5	.0	.0	2.4
7	.0	.0	.5	.7	.0	.0	1.2
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.0	.6	.2	.0	.8
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.5	.0	.0	.5
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.6	6.4	3.3	.2	.0	13.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.5	.0	.0	.0	.0	.7
1-2	.0	1.2	.6	.0	.0	.0	1.8
3-4	.0	.0	.8	.3	.0	.0	1.1
5-6	.0	.0	1.1	.5	.0	.0	1.6
7	.0	.0	.3	.6	.0	.0	.9
8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.3	.1	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	2.8	2.2	.1	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.5	.0	.0	.0	1.3
3-4	.0	.3	.7	.3	.0	.0	1.2
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	2.0	.8	.0	.0	4.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.6	.0	.0	.0	1.6
1-2	.0	1.1	.5	.0	.0	.0	1.6
3-4	.0	.0	.4	.3	.0	.0	.7
5-6	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	2.2	.3	.0	.0	4.6

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.2	.0	.0	.0	1.4
1-2	.3	.9	1.8	.0	.0	.0	3.0
3-4	.0	.8	3.7	.0	.0	.0	4.5
5-6	.0	.2	3.0	.5	.0	.0	3.8
7	.0	.0	.9	.3	.0	.0	1.2
8-9	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.9	10.2	1.6	.0	.0	15.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	3.1	2.0	.0	.0	.0	5.1
3-4	.0	.5	3.0	.1	.0	.0	3.7
5-6	.0	.1	2.1	2.2	.0	.0	4.4
7	.0	.3	1.0	.8	.0	.0	2.1
8-9	.0	.0	1.1	.3	.3	.0	1.7
10-11	.0	.0	.3	.5	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.3	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	5.1	9.8	4.2	.3	.0	19.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.8	.0	.0	.0	2.6
1-2	.0	1.0	2.3	.0	.0	.0	3.3
3-4	.0	.0	3.3	.5	.0	.0	3.8
5-6	.0	.5	.9	.9	.0	.0	2.4
7	.0	.0	.7	.8	.0	.0	1.6
8-9	.0	.0	.0	1.0	.0	.0	1.0
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	8.1	3.5	.0	.0	15.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.1	.0	.0	.0	.0	.2	
1-2	.0	1.8	3.1	.0	.0	.0	4.9	
3-4	.0	.5	3.7	.0	.0	.0	4.2	
5-6	.0	.3	3.1	.7	.0	.0	4.1	
7	.0	.0	2.0	.6	.0	.0	2.6	
8-9	.0	.0	.8	.5	.0	.0	1.4	
10-11	.0	.0	.0	.7	.0	.0	.7	
12	.0	.0	.3	.5	.0	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	2.6	12.9	3.0	.0	.0	18.8	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	6.8	1.9	.0	.0	.0	12.7	
1-2	.3	11.1	12.2	.0	.0	.0	23.6	
3-4	.0	2.4	17.9	1.4	.0	.0	21.7	
5-6	.0	1.1	12.7	5.4	.0	.0	19.2	
7	.0	.3	6.0	4.1	.0	.0	10.3	
8-9	.0	.0	2.4	3.3	.3	.0	6.0	
10-11	.0	.0	.5	2.4	.3	.0	3.3	
12	.0	.0	.3	.8	.0	.0	1.1	
13-16	.0	.0	.5	.8	.0	.0	1.4	
17-19	.0	.0	.0	.8	.0	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.3	21.7	54.5	19.0	.5	.0	100.0	369

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	10.1	11.1	8.9	3.2	2.4	1.4	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	191	4
6-7	.0	1.4	2.0	6.7	4.9	3.6	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	6
8-9	.2	.2	.2	.2	2.2	1.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
10-11	.0	.6	.0	.2	.6	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
12-13	.0	.0	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	9
INDET	6.3	7.7	6.5	5.1	3.4	.8	.6	.0	.4	.6	.0	.0	.2	.0	.0	.0	.0	.0	.0	156	4
TOTAL	35	99	100	109	73	43	17	5	7	5	0	0	1	0	0	0	0	0	0	494	5
PCT	7.1	20.0	20.2	22.1	14.8	8.7	3.4	1.0	1.4	1.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974

AREA 0018 TATAR STRAIT S
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	4.6	.0	.6	.0	23.1	.0	.8	29.1	.8	.0	.0	.0	.0		.0	70.2
NE	2.5	.0	.6	.0	20.8	.0	.0	23.9	.0	.0	2.5	.0	.0		.0	73.6
E	1.6	.0	3.1	.0	7.1	.0	.0	11.8	3.1	.0	.0	.0	.0		.0	85.0
SE	13.3	3.3	3.3	.0	7.5	.0	.0	24.2	.0	.0	4.2	.0	.0		.0	71.7
S	12.0	.0	5.3	.0	5.3	.0	.0	22.7	.0	.0	3.3	.0	2.7		.0	71.3
SW	6.7	.0	.0	.0	6.7	.0	.0	13.4	.0	.0	1.3	.0	.0		.0	85.3
W	1.7	.0	.0	.0	5.0	.0	.0	6.7	.6	.0	.6	.8	.0		.6	90.6
NW	1.5	1.0	.5	.5	14.4	.5	.0	18.4	1.1	.0	.5	.0	.0		.1	79.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	9.1	.0	9.1	.0	.0	.0	.0	18.2	.0	.0	9.1	.0	.0		9.1	63.6
TOT PCT	3.9	.5	1.1	.2	12.7	.2	.2	18.5	.8	.0	1.1	.2	.2		.3	79.1
TOT OBS:	661															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	.0	.6	.0	9.4	.6	.0	12.3	.6	.0	2.9	.6	.0		.6	83.0
06&09	4.9	1.6	.5	.0	12.4	.0	.5	20.0	.5	.0	1.1	.0	.5		.0	77.8
12&15	5.7	.0	1.6	.0	12.5	.0	.0	19.3	1.0	.0	.0	.0	.0		.5	79.2
18&21	2.9	.7	1.5	.7	16.8	.0	.0	22.6	1.5	.0	.0	.0	.0		.0	75.9
TOT PCT	3.9	.6	1.0	.1	12.6	.1	.1	18.4	.9	.0	1.0	.1	.1		.3	79.1
TOT OBS:	685															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	3.4	7.2	5.7	3.6	.0		20.6	20.7	23.3	21.2	18.9	22.0	13.8	26.7	18.8	21.8
NE	.2	1.7	2.7	1.4	.1	.0		6.1	16.2	6.6	.5	5.2	12.3	6.6	5.8	6.7	4.5
E	.5	2.4	1.4	.5	.0	.0		4.8	9.8	3.2	4.7	3.8	6.0	4.1	5.8	3.1	7.7
SE	.2	2.9	.9	.2	.0	.0		4.2	8.3	1.1	6.6	4.0	5.2	4.1	5.8	2.2	5.1
S	.0	3.2	2.3	.5	.0	.0		6.0	11.8	4.6	7.5	10.8	6.7	5.4	2.3	4.9	5.1
SW	.2	2.7	3.8	2.1	.0	.0		8.9	15.9	17.2	13.7	9.2	7.5	9.4	4.1	4.9	4.5
W	.4	4.4	6.7	5.0	1.3	.1		17.9	18.7	25.6	21.2	13.9	14.2	22.2	9.3	21.0	17.9
NW	.3	5.7	13.5	6.9	2.9	.7		30.0	19.7	17.2	22.6	31.4	26.1	31.4	39.0	38.4	33.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	1.1	1.9	2.8	.0	3.1	1.2	.0	.0
TOT OBS	25	166	244	141	50	5	631		17.5	87	53	106	67	98	86	56	78
TOT PCT	4.0	26.3	38.7	22.3	7.9	.8		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	5.9	6.2	5.5	.9		20.6	20.7	22.5	20.1	19.8	20.5
NE	.6	2.6	2.5	.4	.0		6.1	16.2	4.3	7.9	6.3	5.4
E	2.1	2.1	.6	.0	.0		4.8	9.8	3.8	4.6	4.9	5.8
SE	2.3	1.7	.2	.0	.0		4.2	8.3	3.2	4.5	4.9	3.9
S	1.8	3.0	1.1	.1	.0		6.0	11.8	5.7	9.2	3.9	5.0
SW	.8	3.7	3.7	.8	.0		8.9	15.9	15.9	8.5	6.9	4.7
W	2.3	5.3	6.4	3.4	.6		17.9	18.7	23.9	14.0	16.2	19.2
NW	2.1	10.7	10.2	6.0	1.1		30.0	19.7	19.3	29.3	34.9	35.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.4	1.7	2.2	.0
TOT OBS	98	220	195	102	16	631		17.5	140	173	184	134
TOT PCT	15.5	34.9	30.9	16.2	2.5		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.4	1.4	32.9	32.9	25.7	5.0	.7	16.6	100.0	140
06&09	1.7	1.7	19.7	44.5	21.4	10.4	.6	18.5	100.0	173
12&15	2.2	1.6	28.8	38.0	22.3	6.0	1.1	16.9	100.0	184
18&21	.0	0.0	24.6	38.1	20.1	10.4	.7	17.8	100.0	134
TOT	9	16	166	244	141	50	5	17.5		631
PCT	1.4	2.5	26.3	38.7	22.3	7.9	.8		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.9	4.8	6.4		5.9
NE	.8	.5	1.5	2.5		6.0
E	.0	.3	1.1	1.2		6.7
SE	1.6	.3	.4	1.9		4.5
S	1.4	.5	1.8	2.1		5.3
SW	3.5	2.1	2.0	3.5		4.5
W	9.5	3.7	7.7	1.2		3.4
NW	7.1	5.2	11.6	8.6		5.1
VAR	.0	.0	.0	.0		.0
CALM	.6	.6	.6	.6		4.3
TOT OBS	88	46	103	89	326	4.8
TOT PCT	27.0	14.1	31.6	27.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.0	.0	.3	4.1	3.5	1.8	.0	.0	.5	3.6	
NE	.1	.0	.0	.0	.7	2.2	.6	.0	.0	.0	1.7	
E	.0	.0	.2	.3	.5	.8	.0	.0	.0	.0	.6	
SE	.0	.0	.1	.6	.4	.6	.0	.0	.0	.0	1.9	
S	.6	.0	.0	.3	.9	1.6	.2	.0	.0	.0	2.1	
SW	.3	.0	.0	.0	1.5	1.5	1.1	.0	.3	.0	6.3	
W	.0	.0	.0	.6	2.1	3.1	.5	.3	.0	.2	15.3	
NW	3.2	.0	.3	1.5	6.9	5.5	1.0	.6	.3	.2	13.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.3	.0	.0	.0	.0	.0	.0	.3	.3	1.2	
TOT OBS	17	1	2	12	56	62	17	3	3	4	149	326
TOT PCT	5.2	.3	.6	3.7	17.2	19.0	5.2	.9	.9	1.2	45.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.0	2.3	2.6	2.6	2.6	2.6	2.6	2.6
* OR >5000	2.6	3.5	3.8	3.8	3.8	3.8	3.8	3.8
* OR >3300	7.3	9.0	9.3	9.3	9.3	9.3	9.3	9.3
* OR >2000	21.2	26.7	27.9	28.2	28.2	28.2	28.2	28.2
* OR >1000	29.1	37.5	41.9	43.6	44.2	44.2	44.8	45.1
* OR >600	29.7	39.8	44.5	46.5	47.4	47.4	48.3	48.5
* OR >300	30.2	40.4	45.1	47.1	48.0	48.0	48.8	49.1
* OR >150	30.5	40.7	45.3	47.4	48.3	48.3	49.1	49.4
* OR > 0	30.5	41.3	46.2	49.1	50.9	51.5	54.1	54.4
TOTAL	105	142	159	169	175	177	186	187

TOTAL NUMBER OF OBS: 344

PCT FREQ NH <5/8: 45.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
20.2	3.0	8.9	8.6	3.9	6.9	11.9	9.7	22.4	4.4	361

PERIOD: (PRIMARY) 1937-1974
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.1	.4	.2	.0	.0	.2	.0	1.1	.0	.0	2.9	
	NO PCP	.0	.2	.0	.0	.0	.0	.2	.2	.0	.0	.5	
	TOT %	1.1	.6	.2	.0	.0	.2	.2	1.2	.0	.0	3.3	
1/2<1	PCP	.8	.1	.1	.2	.2	.3	.0	1.1	.0	.0	2.6	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	
	TOT %	.8	.1	.1	.2	.3	.3	.0	1.2	.0	.0	2.9	
1<2	PCP	.9	.2	.0	.2	.3	.2	.4	1.3	.0	.2	3.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.3	
	TOT %	.9	.2	.0	.2	.3	.2	.5	1.5	.0	.2	3.8	
2<5	PCP	2.1	.3	.1	.1	.2	.5	.2	.8	.0	.2	4.5	
	NO PCP	.3	.2	.0	.2	.1	.3	.2	.9	.0	.0	1.5	
	TOT %	2.4	.5	.1	.3	.3	.7	.5	1.2	.0	.2	6.0	
5<10	PCP	.8	.3	.2	.3	.8	.2	.5	1.1	.0	.0	3.9	
	NO PCP	3.5	.9	1.4	.9	.9	1.5	3.2	6.3	.0	.3	18.9	
	TOT %	4.2	1.2	1.5	1.2	1.7	1.7	3.6	7.4	.0	.3	22.8	
10+	PCP	.2	.2	.1	.4	.0	.0	.2	.3	.0	.0	1.2	
	NO PCP	10.2	3.4	2.8	2.4	3.2	6.0	13.2	17.6	.0	1.1	60.0	
	TOT %	10.4	3.5	2.9	2.8	3.2	6.0	13.3	17.9	.0	1.1	61.2	
	TOT OBS												662
	TOT PCT	19.8	6.0	4.8	4.5	5.8	9.0	18.1	30.4	.0	1.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.6	.4	.2	.0	.0	.2	.1	.4	.0		1.8	
	22+	.5	*	.0	.0	.0	.0	.1	.7	.0		1.3	
	TOT %	1.0	.4	.2	.0	.0	.2	.2	1.1	.0	.0	3.0	
1/2<1	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	4-10	.2	.1	.1	.0	.0	.2	.0	.0	.0		.5	
	11-21	.2	.0	.0	.0	.2	.0	.0	.6	.0		1.0	
	22+	.6	.0	.0	.0	.0	.2	.0	.8	.0		1.6	
	TOT %	1.0	.1	.1	.2	.2	.3	.0	1.4	.0	.0	3.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.0	.0	.2	.1	.0	.2	.0		.6	
	11-21	.5	.0	.0	.2	.1	.2	.2	.2	.0		1.4	
	22+	.6	.0	.0	.0	.0	.2	.8	1.1	.0		2.7	
	TOT %	1.1	.2	.0	.2	.4	.4	1.0	1.5	.0	.2	5.0	
2<5	0-3	.0	.0	.0	.0	.0	*	.3	.0	.0	.2	.5	
	4-10	.2	.0	.0	.2	.3	.4	.2	.2	.0		1.6	
	11-21	1.6	.2	.0	.0	.2	.2	.1	1.3	.0		3.5	
	22+	1.3	.4	.0	.0	.0	.2	.4	1.0	.0		3.2	
	TOT %	3.2	.5	.0	.2	.5	.8	.9	2.5	.0	.2	8.8	
5<10	0-3	.2	.0	.2	.0	.0	.0	.0	.2	.0	.3	.8	
	4-10	.2	.2	.6	.8	.7	.1	.7	.5	.0		3.8	
	11-21	1.1	.6	.5	.1	.5	.8	1.5	4.0	.0		9.1	
	22+	2.7	.5	.5	.2	.4	.6	1.1	2.6	.0		8.6	
	TOT %	4.2	1.3	1.7	1.1	1.6	1.4	3.4	7.3	.0	.3	22.4	
10+	0-3	.6	.2	.3	.0	.0	.2	.2	.2	.0	.8	2.4	
	4-10	2.8	1.2	1.7	1.9	1.9	2.0	3.6	4.6	.0		19.6	
	11-21	3.4	1.6	.8	.6	1.4	2.6	4.6	6.9	.0		21.9	
	22+	3.6	.7	.0	.0	.1	1.0	4.1	4.2	.0		13.7	
	TOT %	10.3	3.6	2.8	2.6	3.4	5.8	12.4	15.9	.0	.8	57.7	
	TOT OBS												626
	TOT PCT	20.8	6.2	4.8	4.2	6.1	8.9	17.8	29.8	.0	1.4	100.0	

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1939-1974

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.8	.0	.9	2.7	16.2	22.5	4.5	.9	2.7	2.7	55.0	45.0	111
06&09	3.7	.9	.0	5.6	19.4	25.9	7.4	.0	.9	.0	63.9	36.1	108
12&15	8.1	.0	1.2	1.2	14.0	5.8	5.8	3.5	.0	2.3	41.9	58.1	86
18&21	9.1	.0	.0	4.5	18.2	15.9	2.3	.0	.0	.0	50.0	50.0	44
TOT	17	1	2	12	59	65	19	4	4	5	188	161	349
PCT	4.9	.3	.6	3.4	16.9	18.6	5.4	1.1	1.1	1.4	53.9	46.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.9	1.1	4.5	8.9	13.4	68.2	179
06&09	1.6	3.1	5.2	5.8	22.0	62.3	191
12&15	5.3	3.3	4.8	10.0	24.4	52.6	209
18&21	4.1	5.5	4.1	7.6	26.9	51.7	145
TOT	27	23	33	59	156	426	724
PCT	3.7	3.2	4.6	8.1	21.5	58.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	1.8	6.3	18.0	37.8	44.1	111
06&09	3.7	6.5	14.8	49.1	36.1	108
12&15	9.6	12.0	19.3	24.1	36.6	83
18&21	9.5	9.5	19.0	33.3	47.6	42
TOT	18	28	60	129	155	344
PCT	5.2	8.1	17.4	37.5	45.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	4.3	4.3	.0	.0	2	8.7
40/44	.0	.0	.0	13.0	.0	4.3	.0	4.3	5	21.7
30/34	.0	.0	.0	.0	.0	.0	.0	4.3	1	4.3
25/29	.0	.0	.0	.0	8.7	4.3	.0	8.7	5	21.7
20/24	.0	.0	.0	.0	4.3	13.0	13.0	.0	7	30.4
15/19	.0	.0	.0	4.3	.0	4.3	4.3	.0	3	13.0
TOTAL	0	0	0	4	4	7	4	4	23	100.0
PCT	.0	.0	.0	17.4	17.4	30.4	17.4	17.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	4.3	.0	.0	4.3
.0	.0	.0	.0	4.3	.0	13.0	4.3	.0	.0
.0	.0	3.3	1.1	.0	.0	.0	.0	.0	.0
7.6	.0	.0	.0	.0	.0	3.3	10.9	.0	.0
.0	.0	.0	.0	.0	.0	6.5	23.9	.0	.0
.0	.0	.0	.0	.0	.0	6.5	6.5	.0	.0
7.6	.0	3.3	1.1	4.3	.0	33.7	45.7	.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
00&03	59	55	50	33	16	7	7	33.1	174
06&09	64	56	48	34	18	10	9	33.4	190
12&15	54	48	46	30	17	7	7	30.9	208
18&21	54	50	46	30	16	12	10	31.3	148
TOT	64	54	48	32	17	10	7	32.2	720

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	16.7	16.7	33.3	16.7	16.7	77	6
06&09	.0	.0	20.0	60.0	.0	20.0	77	5
12&15	.0	20.0	.0	20.0	40.0	20.0	77	5
18&21	.0	25.0	25.0	25.0	12.5	12.5	72	8
TOT	0	4	4	8	4	4	75	24

NOVEMBER

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1933-1974

AREA 0018 TATAR STRAIT S
48.0N 141.2E

TABLE 17

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

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	3	.2	.4
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.2	.0	.0	4	.0	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.7	.0	.0	.2	.0	6	.2	.9
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.2	.5	.4	.5	.2	.2	.0	.0	11	.0	1.9
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.4	.0	.0	.0	12	.0	2.1
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
2	.0	.0	.0	.0	.0	.0	.4	.0	.4	.5	3.0	.4	.0	.0	.0	26	.0	4.6
1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	2	.0	.4
0	.0	.0	.0	.0	.0	.0	.2	1.8	1.1	1.2	3.2	.2	.4	.0	.0	45	.0	7.9
-1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	4	.0	.7
-2	.0	.0	.0	.0	.0	.5	2.1	1.8	1.4	2.1	.5	.0	.0	.0	.0	48	.0	8.5
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0	4	.0	.7
-4	.0	.0	.0	.0	.0	.5	1.2	1.8	1.4	1.1	.4	.0	.2	.2	.0	38	.4	6.3
-5	.0	.0	.0	.0	.0	.7	1.9	1.1	2.5	.5	.2	.2	.2	.0	.0	41	.0	7.2
-6	.0	.0	.0	.0	.0	.0	.2	.4	.9	.2	.2	.0	.0	.0	.0	10	.0	1.8
-7/-8	.0	.0	.0	.0	.4	2.5	1.2	1.6	1.4	.4	.0	.4	.2	.0	.0	45	.2	7.7
-9/-10	.0	.0	.0	.7	1.2	1.4	1.1	1.8	1.4	.7	.4	.0	.0	.0	.0	49	.0	8.6
-11/-13	.0	.0	.0	.7	2.3	3.5	1.9	2.1	.7	.2	.2	.0	.2	.0	.0	67	.0	11.8
-14/-16	.0	.0	.2	.2	2.5	3.2	2.1	.9	.5	.0	.2	.0	.0	.0	.0	55	.0	9.7
-17/-19	.0	.0	.4	1.1	1.6	1.2	.4	.2	.0	.2	.0	.0	.0	.0	.0	28	.0	4.9
-20/-22	.0	.4	.4	.9	2.1	1.8	.2	.0	.2	.0	.0	.0	.0	.0	.0	33	.0	5.8
-23/-25	.5	.0	.0	.7	.5	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	15	.2	2.5
-26/-30	.0	.4	.7	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	.2	2.1
<-30	.0	.4	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	.0	1.2
TOTAL	3	6	12	32	60	92	73	77	76	53	61	11	9	2	1	568	7	561
PCT	.5	1.1	2.1	5.6	10.6	16.2	12.9	13.6	13.4	9.3	10.7	1.9	1.6	.4	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.4	.0	.0	.0	.0	2.2
1-2	.0	.8	.8	.0	.0	.0	1.6
3-4	.0	.6	2.1	1.3	.0	.0	4.0
5-6	.0	.3	.9	1.6	.3	.0	3.1
7	.0	.4	.3	.0	.0	.0	.7
8-9	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.0	.4	.3	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.4	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.4	4.4	4.0	.9	.0	13.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.5	.0	.0	.0	.0	.8
1-2	.0	.1	.2	.0	.0	.0	.3
3-4	.0	.1	1.5	.4	.0	.0	2.0
5-6	.0	.1	.4	1.6	.0	.0	2.1
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.8	2.5	2.1	.1	.0	5.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	1.1	.0	.0	.0	1.8
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.3	.4	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.9	.0	.0	.0	2.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.4	.1	.0	.0	.0	.5
3-4	.0	.4	.4	.4	.0	.0	1.1
5-6	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.5	.4	.0	.0	3.2

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

TABLE 18 (CONT)

AREA 0018 TATAR STRAIT S
48.0N 141.2E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	1.0	1.7	.0	.0	.0	2.7	.0	1.6	2.4	.0	.0	.0	4.0
3-4	.0	.4	1.4	.0	.0	.0	1.8	.0	.4	1.7	1.5	.0	.0	3.6
5-6	.0	.4	.6	.3	.0	.0	1.2	.0	.0	1.1	.5	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.4	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	3.7	.7	.0	.0	7.2	.1	3.0	6.3	2.4	.0	.0	11.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.7	2.1	.0	.0	.0	.0	2.7	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	2.2	1.7	.0	.0	.0	3.9	.4	2.4	2.9	.0	.0	.0	5.7	
3-4	.0	1.4	5.3	1.4	.0	.0	8.1	.0	.2	3.9	2.5	.0	.0	6.6	
5-6	.0	.0	2.5	.7	.0	.0	3.1	.0	.0	4.7	1.4	.5	.0	6.6	
7	.0	.3	.7	.8	.7	.0	2.4	.0	.8	1.6	1.5	.8	.0	4.7	
8-9	.0	.4	.3	.4	.0	.0	1.0	.0	.0	1.3	.8	1.1	.0	3.2	
10-11	.0	.0	.4	.3	.0	.0	.7	.0	.0	.4	.5	1.1	.0	2.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	6.3	10.8	3.5	.7	.0	21.9	.4	3.8	14.8	7.5	4.3	.4	31.1	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	7.9	.0	.0	.0	.0	12.5	
1-2	.4	9.1	10.9	.0	.0	.0	20.4	
3-4	.0	3.4	16.6	7.5	.0	.0	27.5	
5-6	.0	1.1	10.6	6.0	.8	.0	18.5	
7	.0	1.5	3.8	2.6	1.5	.0	9.4	
8-9	.0	.4	2.3	1.5	1.1	.0	5.3	
10-11	.0	.0	.8	1.5	1.5	.0	3.8	
12	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.0	.8	.4	.4	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.4	.0	.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	
								265
TOT PCT	4.9	23.4	44.9	20.4	6.0	.4	100.0	

PERIOD: (OVER-ALL) 1963-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	7.9	13.6	7.6	3.1	1.4	.8	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
6-7	.0	1.4	3.4	8.5	4.0	4.0	2.3	.6	.8	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	90	7
8-9	.0	.0	.8	.8	2.5	.6	1.4	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	7
10-11	.0	2.5	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	3
12-13	.0	.0	1.4	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	4.2	5.1	7.6	5.1	2.5	.3	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
TOTAL	18	60	95	79	43	23	20	6	7	1	0	0	2	0	0	0	0	0	0	354	5
PCT	5.1	16.9	26.8	22.3	12.1	6.5	5.6	1.7	2.0	.3	.0	.0	.6	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1939-1973

AREA 0018 TATAR STRAIT S
47.0N 141.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.5	.7	.0	.0	28.9	.0	.0	29.8	2.3	.0	3.4	.0	.0	.9		63.6
NE	4.1	.0	.0	.0	44.3	.0	.0	44.3	3.3	.0	6.6	.0	.0	.0		45.9
E	5.0	.0	.0	.0	37.5	.0	.0	42.5	3.8	.0	.0	.0	5.0	.0		48.8
SE	14.8	.0	.0	.0	29.6	.0	.0	44.4	7.4	.0	.0	.0	.0	.0		48.1
S	.0	.0	.0	.0	23.1	.0	.0	23.1	11.5	.0	5.8	.0	.0	.0		59.6
SW	.0	.0	.7	.0	11.5	.0	.0	12.2	6.1	.0	.7	.0	.0	.0		81.1
W	.0	.0	1.1	.0	20.5	.0	.0	21.6	.0	.0	.0	.0	1.5	.0		76.9
NW	.0	.2	.0	.0	27.9	.0	.0	27.9	.5	.0	3.1	.0	.0	.0		68.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		83.3
TOT PCT	1.5	.3	.3	.0	26.6	.0	.0	27.6	2.5	.0	2.3	.0	.5	.3		66.6
TOT OBS:	395															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.0	1.0	1.0	.0	25.5	.0	.0	26.5	2.9	.0	5.9	.0	1.0	1.0		62.7
06&09	1.9	.0	.0	.0	27.1	.0	.0	28.0	.0	.0	.9	.0	.0	.0		71.0
12&15	.8	.0	.0	.0	28.0	.0	.0	28.8	3.8	.0	.8	.0	1.5	.0		65.2
18&21	3.2	.0	1.6	.0	23.8	.0	.0	27.0	3.2	.0	3.2	.0	.0	.0		66.7
TOT PCT	1.5	.2	.5	.0	26.5	.0	.0	27.7	2.5	.0	2.5	.0	.7	.2		66.3
TOT OBS:	404															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	5.0	10.5	8.5	3.0	.1		27.6	20.2	29.2	33.0	32.1	37.5	23.1	20.5	27.4	20.7
NE	.3	2.8	2.7	1.0	.3	.8		7.7	18.5	8.7	3.6	6.7	2.5	11.9	3.4	7.1	12.2
E	.0	2.4	2.0	.8	.0	.0		5.2	13.6	2.4	3.6	1.6	5.0	5.9	4.5	13.1	12.2
SE	.3	.6	.6	.1	.0	.0		1.6	11.3	3.1	.0	.0	5.0	.0	3.4	.0	1.2
S	.0	.8	.8	.4	.0	.0		2.1	14.0	2.4	1.8	2.8	1.3	2.5	3.4	.0	.0
SW	.3	2.2	4.4	.8	.5	.0		8.3	15.4	4.5	12.5	6.3	6.3	10.8	10.2	8.3	11.0
W	.3	4.6	10.0	2.8	.5	.0		18.2	15.7	24.3	8.9	21.4	10.0	19.4	18.2	29.8	8.5
NW	.1	8.3	12.8	5.3	1.6	.1		28.1	17.0	25.3	36.6	24.2	32.5	24.4	36.4	14.3	34.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	.0	4.8	.0	2.5	.0	.0	.0
TOT OBS	11	104	170	77	23	4	389		17.1	72	28	63	40	80	44	21	41
TOT PCT	2.8	26.7	43.7	19.8	5.9	1.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.4	8.2	10.7	5.6	.6		27.6	20.2	30.3	34.2	22.2	23.0
NE	1.2	3.5	1.3	.9	.8		7.7	18.5	7.3	5.1	8.9	10.5
E	1.6	2.0	1.0	.6	.0		5.2	13.6	2.8	2.9	5.4	12.5
SE	.5	.4	.6	.1	.0		1.6	11.3	2.3	1.9	1.2	.8
S	.3	1.1	.7	.0	.0		2.1	14.0	2.3	2.2	2.8	.0
SW	1.0	4.0	2.4	.8	.0		8.3	15.4	6.8	6.3	10.3	10.1
W	2.3	8.3	6.4	1.2	.0		18.2	15.7	20.0	17.0	19.0	15.7
NW	1.5	13.4	9.3	3.5	.4		28.1	17.0	28.5	27.4	28.8	27.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.0	2.9	1.6	.0
TOT OBS	47	159	127	49	7	389		17.1	100	103	124	62
TOT PCT	12.1	40.9	32.6	12.6	1.8		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1933-1973

AREA 0018 TATAR STRAIT S
47.8N 141.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS) 11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.0	29.0	41.0	22.0	5.0	1.0	17.5	100.0	100
06&09	2.9	1.0	25.2	41.7	22.3	5.8	1.0	17.3	100.0	103
12&15	1.6	.8	22.6	48.4	16.9	8.1	1.6	17.8	100.0	124
18&21	.0	3.2	33.9	41.9	17.7	3.2	.0	14.8	100.0	62
TOT	5	6	104	170	77	23	4	17.1		389
PCT	1.3	1.5	26.7	43.7	19.8	5.9	1.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.7	2.1	8.4	11.7		5.7
NE	1.0	.5	2.6	4.1		6.1
E	.4	.3	.4	2.9		6.7
SE	.0	.4	.0	1.1		6.8
S	1.5	.4	.3	.9		3.6
SW	1.5	1.0	2.4	3.5		5.5
W	4.5	2.1	7.3	5.5		5.1
NW	6.4	1.9	7.3	9.4		5.2
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	1.3		5.8
TOT OBS	49	20	67	92	228	5.5
TOT PCT	21.5	8.8	29.4	40.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.9	.3	.3	.4	5.4	6.7	1.0	.0	.4	.9	8.6	
NE	.2	.0	.4	.0	2.7	2.4	.4	.4	.0	.0	1.5	
E	1.6	.0	.0	.0	.3	.9	.0	.4	.0	.0	.8	
SE	.1	.0	.0	.0	.5	.0	.0	.0	.4	.0	.4	
S	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	2.4	
SW	.2	.0	.4	.5	1.4	2.0	.0	.4	.0	.0	3.4	
W	.7	.0	.0	.0	3.7	4.8	1.8	.3	.0	.0	8.1	
NW	3.3	.1	.1	.4	3.4	6.5	2.1	.5	.0	.0	8.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.9	.0	.0	.9	.0	.4	
TOT OBS	23	1	3	4	40	56	12	5	4	2	78	228
TOT PCT	10.1	.4	1.3	1.8	17.5	24.6	5.3	2.2	1.8	.9	34.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6
* OR >5000	2.6	3.9	3.9	3.9	3.9	4.8	4.8	4.8
* OR >3500	4.3	7.8	9.1	9.1	9.1	10.0	10.0	10.0
* OR >2000	17.7	26.8	29.0	29.4	31.6	33.3	33.8	33.8
* OR >1000	21.6	36.4	41.1	44.6	48.9	50.6	51.5	51.5
* OR >600	22.1	37.7	42.9	46.3	50.6	52.4	53.2	53.2
* OR >300	22.5	38.5	43.7	47.2	51.5	53.2	54.5	54.5
* OR >150	22.9	39.0	44.2	48.1	52.4	54.1	55.4	55.4
* OR > 0	22.9	40.3	45.5	52.4	60.2	64.1	65.4	65.4
TOTAL	53	93	105	121	139	148	151	151

TOTAL NUMBER OF OBS: 231 PCT FREQ NH <5/8: 34.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
13.1	4.[illegible]	6.7	3.2	5.6	6.7	9.5	9.9	31.7	8.7	252

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1933-1973

AREA 0018 TATAR STRAIT S
47.8N 141.1E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.4	1.4	1.1	.0	.3	.1	.9	1.5	.0	.0	5.8	
<1/2	NO PCP	.2	.0	.0	.0	.0	.3	.0	.1	.0	.3	.8	
	TOT %	.6	1.4	1.1	.0	.3	.4	.9	1.6	.0	.3	6.6	
	PCP	2.7	.5	.0	.0	.0	.5	1.3	2.3	.0	.0	7.3	
1/2<1	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.9	.5	.0	.0	.0	.5	1.3	2.3	.0	.0	7.6	
	PCP	1.8	1.0	.5	.1	.3	.3	1.0	1.6	.0	.0	6.6	
1<2	NO PCP	.5	.0	.0	.1	.4	.1	.0	.0	.0	.0	1.0	
	TOT %	2.3	1.0	.5	.2	.6	.3	1.0	1.6	.0	.0	7.6	
	PCP	1.5	.0	.0	.4	.3	.2	.2	1.0	.0	.0	3.5	
2<5	NO PCP	.9	.5	.0	.0	.0	.3	.5	1.0	.0	.0	2.5	
	TOT %	1.8	.5	.0	.4	.3	.4	.7	2.0	.0	.0	6.1	
	PCP	2.1	.5	.5	.3	.0	.1	.2	.6	.0	.0	4.3	
5<10	NO PCP	4.2	1.3	1.3	.1	.4	1.9	2.4	4.6	.0	.0	16.2	
	TOT %	6.3	1.8	1.8	.4	.4	2.0	2.6	5.2	.0	.0	20.5	
	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
10+	NO PCP	14.1	2.5	1.6	.8	1.7	5.7	10.4	13.4	.0	1.3	51.5	
	TOT %	14.1	2.5	1.6	.8	1.7	5.7	10.4	13.6	.0	1.3	51.8	
	TOT OBS												396
	TOT PCT	28.0	7.7	5.1	1.7	3.3	9.3	16.9	26.5	.0	1.5	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.1	.4	.0	.0	.0	.0	.3	.0		.8	
	11-21	.0	.0	.5	.0	.0	.0	.6	.7	.0		1.8	
	22+	.5	1.3	.3	.0	.3	.1	.4	.3	.0		3.2	
	TOT %	.5	1.4	1.2	.0	.3	.1	1.0	1.3	.0	.0	5.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.3	.0	.0	.0	.0	.0	.0	.5	.0		.8	
	11-21	.2	.3	.0	.0	.0	.0	1.6	.5	.0		2.6	
	22+	2.0	.3	.0	.0	.0	.5	.0	1.1	.0		3.9	
	TOT %	2.5	.5	.0	.0	.0	.5	1.6	2.2	.0	.0	7.4	
	0-3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
1<2	4-10	.0	.4	.4	.3	.3	.0	.3	.3	.0		1.8	
	11-21	.5	.5	.3	.0	.0	.0	.3	.0	.0		1.6	
	22+	1.4	.0	.0	.0	.0	.3	.3	1.4	.0		3.4	
	TOT %	2.0	.9	.7	.3	.3	.3	1.1	1.7	.0	.0	7.1	
	0-3	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	
2<5	4-10	.3	.0	.0	.0	.0	.0	.0	1.1	.0		1.3	
	11-21	.3	.8	.3	.4	.3	.2	.6	1.4	.0		4.2	
	22+	1.6	.3	.0	.0	.0	.3	.7	.7	.0		3.4	
	TOT %	2.2	1.1	.3	.4	.3	.5	1.3	3.3	.0	.0	9.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	1.5	.8	.3	.3	.0	.3	.5	2.2	.0		5.8	
	11-21	2.0	.3	.3	.0	.0	1.2	1.6	2.0	.0		7.4	
	22+	1.9	.2	.6	.1	.0	.0	.5	1.4	.0		4.7	
	TOT %	5.5	1.3	1.1	.3	.0	1.4	2.7	5.6	.0	.0	17.9	
	0-3	.3	.3	.0	.3	.0	.3	.0	.0	.0	1.3	2.4	
10+	4-10	3.1	1.5	1.4	.1	.5	2.0	3.8	4.2	.0		16.6	
	11-21	7.0	.9	.5	.3	.6	3.2	5.1	8.2	.0		25.5	
	22+	4.3	.0	.0	.0	.2	.2	1.5	2.0	.0		8.2	
	TOT %	14.6	2.6	1.8	.7	1.3	5.6	10.3	14.3	.0	1.3	52.6	
	TOT OBS												380
	TOT PCT	27.2	7.8	5.1	1.6	2.1	8.4	18.0	28.4	.0	1.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1933-1973

AREA 0018 TATAR STRAIT S
47.8N 141.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	10.4	2.6	1.3	2.6	19.5	23.4	9.1	2.6	1.3	2.6	75.3	24.7	77
06&09	6.3	.0	.0	3.2	27.0	28.6	3.2	.0	1.6	.0	69.8	30.2	63
12&15	8.2	.0	2.7	.0	5.5	23.3	4.1	4.1	2.7	.0	50.7	49.3	73
18&21	21.7	.0	.0	.0	21.7	13.0	.0	.0	.0	.0	56.5	43.5	23
TOT	23	2	3	4	41	56	12	5	4	2	152	84	236
PCT	9.7	.8	1.3	1.7	17.4	23.7	5.1	2.1	1.7	.8	64.4	35.6	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
00&03	7.1	6.3	8.0	12.5	18.8	47.3	112
06&09	2.7	7.3	10.0	8.2	18.2	53.6	110
12&15	8.1	7.4	8.1	6.6	19.1	50.7	136
18&21	7.5	10.4	1.5	7.5	22.4	50.7	67
TOT	27	32	32	37	82	215	425
PCT	6.4	7.5	7.5	8.7	19.3	50.6	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	10.5	21.1	32.9	43.4	23.7	76
06&09	6.3	7.9	25.4	44.4	30.2	63
12&15	8.7	21.7	27.5	26.1	46.4	69
18&21	21.7	34.8	34.8	21.7	43.5	23
TOT	23	44	68	84	79	231
PCT	10.0	19.0	29.4	36.4	34.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	8.3	.0	.0	1	8.3
40/44	.0	.0	.0	.0	.0	.0	8.3	8.3	2	16.7
35/39	.0	.0	.0	.0	8.3	8.3	.0	8.3	3	25.0
30/34	.0	.0	.0	.0	.0	.0	.0	8.3	1	8.3
25/29	.0	.0	.0	.0	.0	.0	.0	8.3	1	8.3
20/24	.0	.0	.0	.0	.0	8.3	.0	.0	1	8.3
15/19	.0	.0	8.3	.0	.0	16.7	.0	.0	3	25.0
TOTAL	0	0	1	0	1	5	1	4	12	100.0
PCT	.0	.0	8.3	.0	8.3	41.7	8.3	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0
14.6	.0	.0	.0	.0	.0	.0	2.1	.0	.0
.0	8.3	.0	.0	6.3	2.1	.0	8.3	.0	.0
8.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.3	2.1	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0
.0	.0	.0	.0	.0	10.4	6.3	8.3	.0	.0
29.2	10.4	.0	.0	14.6	20.8	6.3	18.8	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	42	41	37	23	8	2	2	22.8	113
06&09	52	45	37	24	9	0	0	23.3	107
12&15	45	44	39	23	8	5	-4	23.6	138
18&21	51	50	36	21	5	-1	-1	22.1	68
TOT	52	49	37	23	7	1	-4	23.1	426

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	33.3	33.3	.0	33.3	82	3
06&09	.0	25.0	.0	50.0	.0	25.0	74	4
12&15	.0	.0	.0	66.7	.0	33.3	81	3
18&21	.0	.0	.0	.0	50.0	50.0	93	2
TOT	0	1	1	5	1	4	81	12

DECEMBER

PERIOD: (PRIMARY) 1939-1973
(OVER-ALL) 1939-1973

AREA 0018 TATAR STRAIT S
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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	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	3	.0	.9
4	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.3	3	.0	.9
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	1	.0	.3
2	.0	.0	.0	.0	.0	.0	.0	.3	.6	.6	.3	.0	.0	6	.0	1.8
0	.0	.0	.0	.0	.0	.0	.0	3.6	1.5	1.5	.3	.6	.0	25	.0	7.5
-1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	2	.0	.6
-2	.0	.0	.0	.0	.0	.0	.9	1.2	.6	.3	.0	.0	.0	10	.0	3.0
-3	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	.0	.0	3	.0	.9
-4	.0	.0	.0	.0	.0	.0	.3	1.2	.3	.3	.3	.0	.0	8	.0	2.4
-5	.0	.0	.0	.0	.0	.9	2.4	2.4	.9	.3	.0	.0	.0	23	.0	6.9
-6	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	2	.0	.6
-7/-8	.0	.0	.0	.0	.0	1.2	4.2	2.1	.3	.0	.0	.0	.0	26	.3	7.5
-9/-10	.0	.0	.0	.0	.3	1.5	1.2	.6	.0	.0	.0	.0	.0	12	.0	3.6
-11/-13	.0	.0	.0	.0	3.0	5.4	5.4	1.2	.0	.0	.0	.0	.0	50	.0	15.1
-14/-16	.0	.0	.0	.6	5.7	3.0	1.5	1.5	.0	.0	.0	.0	.0	42	.0	12.7
-17/-19	.0	.0	.3	1.5	4.2	1.2	.6	.6	.0	.0	.0	.0	.0	28	.0	8.4
-20/-22	.0	.0	.9	4.2	2.7	1.5	.3	.0	.0	.0	.0	.0	.0	32	.3	9.3
-23/-25	.0	.6	1.5	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	17	.3	4.8
-26/-30	.3	2.4	2.7	.9	.6	.6	.3	.0	.0	.0	.0	.0	.0	26	.6	7.2
<-30	1.5	1.2	.9	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	13	1.2	2.7
TOTAL	6	14	21	29	60	52	59	52	15	15	5	2	2	332	9	323
PCT	1.8	4.2	6.3	8.7	18.1	15.7	17.8	15.7	4.5	4.5	1.5	.6	.6	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.5	.4	.0	.0	.0	1.3
1-2	.0	1.3	1.9	.0	.0	.0	3.3
3-4	.0	.0	4.0	1.9	.0	.0	5.9
5-6	.0	.0	2.2	2.1	.0	.0	4.2
7	.0	.0	2.2	4.2	.5	.0	6.9
8-9	.0	.0	1.0	1.5	.5	.0	2.9
10-11	.0	.0	.0	1.7	1.5	.0	3.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	1.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.8	11.7	11.4	3.4	.0	28.8

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.0	.5	.0	.0	.0	1.5
3-4	.0	1.0	.8	.5	.0	.0	2.3
5-6	.0	.0	1.0	.6	.0	.0	1.6
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	1.0	1.0
12	.0	.0	.0	.0	.0	.5	.5
13-16	.0	.0	.0	.0	.5	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	1.5	1.1	.5	1.5	9.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.0	.5	.0	.0	.0	1.5
3-4	.0	.0	1.3	.4	.0	.0	1.7
5-6	.0	.0	.0	.5	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	1.8	1.3	.0	.0	4.5

SE

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

PERIOD: (OVER-ALL) 1963-1979 DECEMBER AREA 0018 TATAR STRAIT S

TABLE 18 (CONT) 47.8N 141.1E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	2.9
3-4	.0	.0	.0	.8	.0	.0	.8	.0	.1	.7	.1	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.1	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.5	.7	.5	.0	.0	1.7
8-9	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	.5	.8	.0	.0	1.8	.0	2.5	3.4	.8	.0	.0	6.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.8	.4	.0	.0	.0	1.2	.0	.1	.7	.0	.0	.0	.8	
1-2	.0	1.9	1.8	.0	.0	.0	3.8	.0	3.0	2.1	.0	.0	.0	5.1	
3-4	.0	.4	3.0	.0	.0	.0	3.4	.0	.5	4.6	1.0	.0	.0	6.1	
5-6	.5	.0	1.8	.7	.0	.0	3.0	.0	.5	2.3	2.3	.0	.0	5.1	
7	.0	.5	1.7	1.8	1.0	.0	5.0	.0	.0	1.7	1.2	.0	.0	2.9	
8-9	.0	.0	2.4	.8	.0	.0	3.3	.0	.0	.0	1.0	1.0	.0	1.9	
10-11	.0	.0	.5	.4	.0	.0	.8	.0	.0	.0	.8	1.0	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.0	.0	1.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.6	11.7	3.8	1.0	.0	20.5	.0	4.1	11.9	6.8	1.9	.0	24.8	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	2.9	1.9	.0	.0	.0	7.3	
1-2	.0	9.7	8.3	.0	.0	.0	18.0	
3-4	.0	1.9	15.5	4.9	.0	.0	22.3	
5-6	.5	1.0	7.8	6.3	.0	.0	15.5	
7	.0	1.0	7.3	7.8	1.5	.0	17.5	
8-9	.0	.5	3.4	4.4	1.5	.0	9.7	
10-11	.0	.0	.5	2.9	2.4	1.0	6.8	
12	.0	.0	.5	.5	.0	.5	1.5	
13-16	.0	.0	.0	.0	1.5	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								206
TOT PCT	2.9	17.0	45.1	26.7	6.8	1.5	100.0	

PERIOD: (OVER-ALL) 1964-1979 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	5.5	6.7	4.3	6.3	1.6	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	5
6-7	.0	.8	2.7	4.3	3.9	3.5	4.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	7
8-9	.0	.0	.0	.8	2.4	.4	1.2	.4	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
10-11	.0	1.2	.0	1.6	.8	1.2	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
12-13	.0	.0	.0	.4	.4	.4	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	10
>13	.0	.0	.0	.4	.8	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
INDET	3.1	5.5	9.8	6.7	4.3	4.3	1.2	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	5
TOTAL	9	33	49	47	48	29	21	7	11	1	0	0	0	0	0	0	0	0	0	255	6
PCT	3.5	12.9	19.2	18.4	18.8	11.4	8.2	2.7	4.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.7	.3	1.8	.0	13.2	.0	.1	18.9	1.8	*	4.9	.2	.5		.2	73.5
NE	7.3	.6	2.9	.0	12.7	.0	.2	23.2	2.3	.1	5.7	*	.5		.2	68.1
E	6.7	.2	2.6	.0	11.4	.0	.0	20.8	2.7	.3	4.5	.0	.6		.0	71.1
SE	7.9	.6	2.8	.0	10.3	.0	.0	21.2	2.3	*	9.0	.1	.4		.1	66.8
S	4.1	.1	3.1	.0	9.3	.0	.0	16.6	1.5	.1	14.2	.3	.5		.1	66.6
SW	2.2	.1	1.0	.0	3.5	.4	.3	7.4	1.0	.2	12.3	.3	.2		.1	78.5
W	2.0	.0	.9	.0	3.7	.0	.0	6.6	1.8	.1	6.3	.4	.3		.1	84.6
NW	2.8	.1	1.5	*	7.6	*	.1	12.0	1.5	.2	7.4	.0	.2		*	78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.3	.0	2.7	.0	.3	.0	.0	5.3	1.7	.0	10.5	.5	.9		.8	80.3
TOT PCT	4.0	.2	1.8	*	9.3	*	.1	15.3	1.6	.1	9.4	.2	.4		.1	72.8
TOT OBS:	8499															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.1	.1	1.8	.0	8.6	*	.1	13.6	2.3	.1	10.4	.4	.4		.2	72.6
06&09	3.7	.2	1.5	.0	8.9	.0	*	14.2	1.4	.1	9.4	.4	.5		.1	74.0
12&15	4.8	.2	2.1	.0	9.4	.1	*	16.5	1.8	.2	8.1	.2	.5		.2	72.5
18&21	4.3	.4	1.8	.1	10.5	.0	.1	17.0	1.1	.1	10.0	.2	.2		*	71.5
TOT PCT	4.0	.2	1.8	*	9.2	*	.1	15.3	1.7	.1	9.4	.3	.4		.1	72.7
TOT OBS:	8798															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.0	5.9	8.6	5.2	1.5	.1		22.3	15.5	22.5	26.2	22.7	25.1	21.3	20.2	20.4	22.3
NE	.6	3.9	3.6	1.2	.3	.1		9.7	13.9	10.1	9.1	10.0	8.7	9.7	9.2	10.6	10.9
E	.7	3.5	2.5	.8	.1	*		7.5	11.7	6.5	5.6	5.8	7.5	7.7	9.6	6.9	11.1
SE	.9	4.3	2.1	.4	*	*		7.7	9.9	6.1	6.4	6.0	8.9	6.5	11.3	8.3	9.5
S	1.2	7.3	6.4	1.3	*	*		16.3	12.1	15.4	16.9	17.3	15.3	17.2	17.0	15.1	14.6
SW	.8	4.8	4.5	1.1	.1	.0		11.4	12.1	10.1	14.1	12.5	13.1	9.8	11.6	9.6	10.9
W	.4	3.1	3.2	1.3	.2	*		8.1	11.6	10.6	8.0	8.2	7.8	8.3	6.8	9.2	5.8
NW	.5	4.4	5.8	2.2	.5	.1		13.6	12.9	14.1	12.2	12.3	11.9	13.6	13.0	16.2	12.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5							3.5	.0	4.6	1.5	3.1	1.8	3.7	1.4	3.6	2.0
TOT OBS							8096		13.2	1330	703	1263	844	1372	1045	701	838
TOT PCT	9.7	37.1	36.8	13.4	2.7	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	7.7	7.3	2.9	.6		22.3	15.5	23.5	23.5	20.9	21.1
NE	2.4	4.2	2.3	.6	.2		9.7	12.9	9.7	9.3	9.5	10.7
E	2.4	3.2	1.5	.3	*		7.5	11.7	6.2	6.3	8.5	9.4
SE	3.1	3.6	.8	.1	*		7.7	9.9	6.2	7.1	8.5	8.9
S	4.4	8.4	3.1	.3	*		16.3	12.1	16.1	16.6	17.0	14.9
SW	2.8	5.7	2.5	.4	*		11.4	12.1	11.5	12.9	10.5	10.2
W	1.8	3.7	2.0	.5	*		8.1	11.6	9.6	8.0	7.6	7.2
NW	2.2	6.0	3.9	1.3	.2		13.6	12.9	13.6	12.3	13.5	14.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.5						3.5	.0	3.5	3.8	3.9	2.7
TOT OBS						8096		13.2	2033	2107	2417	1539
TOT PCT	26.4	42.5	23.5	6.5	1.1		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.5	5.4	36.0	38.0	14.4	2.3	.4	13.5	100.0	2033
06&09	3.8	6.4	33.5	37.7	15.2	3.2	.4	13.7	100.0	2107
12&15	3.9	6.4	38.7	36.0	12.0	2.7	.3	12.8	100.0	2417
18&21	2.7	6.3	41.2	34.8	12.5	2.4	.1	12.6	100.0	1539
TOT								13.2		8096
PCT	3.5	6.1	37.1	36.8	13.4	2.7	.3		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.2	2.1	7.1	7.8		5.6
NE	1.8	.8	2.3	4.6		5.9
E	1.0	.6	1.7	3.1		5.9
SE	1.1	.5	1.4	3.6		5.9
S	3.8	1.5	3.5	7.4		5.2
SW	3.7	1.2	2.6	3.4		4.6
W	3.6	1.1	3.0	1.6		4.1
NW	5.1	1.9	4.1	3.4		4.7
VAR	.0	.0	.0	.0		.0
CALM	1.8	.5	1.0	2.0		4.2
TOT OBS					4825	5.1
TOT PCT	26.1	10.2	26.7	37.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.4	.1	.3	.8	3.3	5.4	1.3	.2	.2	.4	7.6	
NE	.6	*	.1	.4	1.7	2.6	.5	.1	.1	.1	3.3	
E	.4	*	.1	.3	1.1	1.5	.4	.1	.1	.1	2.2	
SE	1.0	*	.1	.3	1.1	1.4	.4	.1	.1	.2	1.9	
S	2.9	.2	.3	.5	1.7	2.8	.8	.2	.2	.3	6.3	
SW	1.1	*	.1	.3	1.1	1.8	.4	.2	.2	.1	5.7	
W	.3	*	*	.1	.9	1.5	.6	.2	.1	.1	5.5	
NW	.8	*	.1	.4	1.7	2.6	.8	.1	.1	.1	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.8	.1	*	.1	.5	.7	.2	*	.1	.1	2.6	
TOT PCT	9.4	.5	1.2	3.3	13.0	20.3	5.4	1.2	1.2	1.6	42.9	4825
												100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.1	2.7	2.8	2.8	2.8	2.8	2.8	2.8
* OR >5000	2.8	3.7	3.9	3.9	4.0	4.1	4.1	4.1
* OR >3500	6.4	8.7	9.3	9.3	9.5	9.6	9.6	9.6
* OR >2000	17.6	25.3	27.7	28.5	29.3	29.8	30.0	30.0
* OR >1000	23.1	34.7	38.9	40.4	41.8	42.6	42.9	42.9
* OR >600	24.1	36.8	41.7	43.4	44.9	45.8	46.2	46.2
* OR >300	24.5	37.5	42.6	44.4	46.0	46.9	47.3	47.3
* OR >150	24.8	37.9	43.0	44.9	46.5	47.4	47.8	47.9
* OR > 0	25.0	39.0	45.2	48.0	50.5	53.3	56.6	57.2

TOTAL NUMBER OF OBS: 4990 PCT FREQ NH <5/8: 42.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
18.0	5.0	9.2	5.1	4.7	5.9	8.4	8.6	26.3	8.7	5277

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.8	.4	.2	.2	.2	.1	.1	.3	.0	.0	2.2	
<1/2	NO PCP	.3	.3	.2	.5	2.2	1.1	.1	.2	.0	.4	5.3	
	TOT %	1.1	.8	.4	.7	2.3	1.1	.2	.5	.0	.4	7.6	
	PCP	.9	.4	.2	.1	.2	.1	.1	.4	.0	*	2.4	
1/2<1	NO PCP	.1	.1	*	.1	.3	.1	*	.1	.0	.1	.9	
	TOT %	1.0	.4	.2	.2	.5	.2	.2	.5	.0	.1	3.3	
	PCP	.9	.3	.2	.1	.3	.1	.2	.4	.0	*	2.6	
1<2	NO PCP	.2	.1	.1	.1	.4	.1	*	*	.0	*	1.1	
	TOT %	1.1	.4	.3	.3	.7	.3	.2	.4	.0	.1	3.7	
	PCP	1.4	.6	.4	.4	.5	.2	.1	.5	.0	.1	4.1	
2<5	NO PCP	.6	.3	.2	.3	.9	.4	.2	.3	.0	.1	3.2	
	TOT %	2.0	.8	.6	.7	1.4	.5	.3	.8	.0	.2	7.4	
	PCP	.9	.4	.3	.4	.4	.2	.1	.3	.0	.1	3.2	
5<10	NO PCP	3.8	1.8	1.4	1.4	3.0	1.9	1.2	2.4	.0	.5	17.4	
	TOT %	4.6	2.2	1.8	1.7	3.5	2.1	1.3	2.7	.0	.6	20.5	
	PCP	.2	.2	.1	.1	.1	*	*	.2	.0	*	1.0	
10+	NO PCP	12.0	4.9	4.0	4.0	7.6	6.9	6.1	8.5	.0	2.6	56.6	
	TOT %	12.2	5.0	4.1	4.1	7.7	7.0	6.2	8.6	.0	2.6	57.5	
	TOT OBS												8475
	TOT PCT	22.0	9.7	7.5	7.7	16.0	11.2	8.3	13.6	.0	4.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.1	.1	.1	.2	.1	.1	*	.0	.4	1.1	
<1/2	4-10	.3	.3	.1	.3	1.1	.5	.1	.1	.0		2.7	
	11-21	.3	.1	.1	.2	.9	.5	.1	.2	.0		2.4	
	22+	.6	.3	.1	.1	.1	*	*	.1	.0		1.4	
	TOT %	1.2	.7	.4	.7	2.3	1.1	.2	.4	.0	.4	7.5	
	0-3	*	*	*	*	*	*	.0	*	.0	.1	.2	
1/2<1	4-10	.1	.1	.1	.1	.2	.1	*	.1	.0		.8	
	11-21	.3	.1	.1	.1	.2	.1	.2	.2	.0		1.2	
	22+	.6	.2	*	*	*	.1	.0	.2	.0		1.2	
	TOT %	1.0	.5	.2	.2	.5	.3	.2	.5	.0	.1	3.5	
	0-3	*	.0	*	*	.1	.0	*	.0	.0	*	.2	
1<2	4-10	.2	.1	.1	.2	.4	.2	.1	.1	.0		1.3	
	11-21	.3	.1	.2	*	.3	.1	.1	.1	.0		1.2	
	22+	.7	.2	.1	*	.1	.1	.1	.3	.0		1.6	
	TOT %	1.2	.5	.4	.3	.8	.4	.3	.5	.0	*	4.4	
	0-3	.1	*	*	.1	.1	.1	*	.1	.0	.1	.7	
2<5	4-10	.5	.4	.4	.5	.8	.4	.1	.4	.0		3.5	
	11-21	1.1	.4	.3	.3	.8	.4	.1	.5	.0		3.8	
	22+	1.1	.2	.1	.1	.2	.1	.1	.3	.0		2.2	
	TOT %	2.7	1.0	.8	.9	2.0	1.0	.4	1.3	.0	.1	10.3	
	0-3	.1	.1	.1	.1	.2	.1	.1	.1	.0	.6	1.6	
5<10	4-10	.9	.8	.7	.8	1.4	.8	.4	.8	.0		6.7	
	11-21	1.7	.8	.6	.6	1.4	1.0	.5	1.2	.0		7.6	
	22+	1.6	.4	.3	.1	.3	.2	.3	.6	.0		3.9	
	TOT %	4.4	2.2	1.7	1.7	3.3	2.1	1.2	2.7	.0	.6	19.8	
	0-3	.6	.4	.4	.5	.6	.5	.2	.3	.0	2.3	5.9	
10+	4-10	4.0	2.0	2.0	2.4	3.5	2.9	2.4	2.9	.0		22.2	
	11-21	5.0	2.0	1.3	.9	2.7	2.5	2.3	3.8	.0		20.4	
	22+	2.1	.4	.3	.1	.5	.7	.9	1.1	.0		6.1	
	TOT %	11.7	4.8	4.0	3.9	7.2	6.5	5.8	8.1	.0	2.3	54.5	
	TOT OBS												7927
	TOT PCT	22.3	9.7	7.5	7.7	16.2	11.3	8.1	13.6	.0	3.5	100.0	

ANNUAL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	8.9	.4	1.3	3.5	13.4	20.6	6.3	1.3	1.2	1.8	58.6	41.4	1599
06&09	7.5	.6	.9	3.9	14.7	22.8	5.9	1.4	1.2	1.8	60.8	39.2	1395
12&15	10.1	.6	1.3	2.5	10.2	17.7	4.6	1.5	1.1	1.6	51.3	48.7	1411
18&21	12.9	.4	.8	2.7	12.2	16.8	3.8	.3	.8	1.0	51.8	48.2	701
TOT													9106
PCT	9.3	.5	1.1	3.2	12.8	20.0	5.4	1.2	1.1	1.6	56.5	43.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	7.9	3.0	4.2	9.1	18.0	57.9	2363
06&09	6.8	3.1	4.9	9.0	17.9	58.3	2353
12&15	7.8	3.6	4.2	11.0	22.6	50.8	2791
18&21	8.6	4.6	3.9	10.4	20.0	52.5	1698
TOT							9205
PCT	7.6	3.5	4.3	9.9	19.7	54.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	8.9	13.9	24.2	36.8	39.0	1567
06&09	7.6	11.0	22.2	40.0	37.8	1378
12&15	10.6	15.7	24.8	29.4	45.8	1367
18&21	13.4	18.6	27.5	27.4	45.1	678
TOT						4990
PCT	9.5	14.2	24.1	34.7	41.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.2	.0	.0	.0	.0	.0		.2
70/74	.0	.0	.0	.4	.0	.0	.3	.4		1.1
65/69	.0	.0	.4	.0	.0	.4	1.2	.7		2.7
60/64	.0	.4	.0	.0	.1	1.7	1.2	3.2		6.7
55/59	.0	.1	1.0	.3	.8	1.5	3.8	3.6		11.1
50/54	.0	.2	.6	.8	.0	2.9	2.2	5.0		11.7
45/49	.0	.2	.0	.6	1.4	3.0	1.4	2.9		9.5
40/44	.0	.0	.0	1.3	.2	1.2	2.0	4.1		9.1
35/39	.0	.0	.0	.5	2.2	1.9	1.3	3.6		9.5
30/34	.0	.0	.0	.9	.4	.8	.8	3.1		6.0
25/29	.0	.1	.4	.2	2.5	1.1	1.5	2.3		8.1
20/24	.0	.0	.0	.4	.4	2.9	1.7	1.5		6.9
15/19	.0	.0	.8	2.1	1.8	4.0	3.1	.7		12.5
10/14	.0	.0	.0	.0	.1	1.4	1.4	.4		3.3
5/9	.0	.0	.0	.0	.0	.1	1.5	.2		1.8
TOTAL									641	100.0
PCT	.0	1.0	3.3	7.8	10.0	22.9	23.5	31.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
	.2	.1	.0	.0	.0	.3	.4	.0	.0	.2
	.3	.1	.0	.0	1.5	.8	.0	.0	.0	.0
	.0	.6	.0	1.0	3.0	.7	1.0	.0	.0	.3
	2.3	.8	1.3	1.6	2.2	1.0	.4	.7	.0	.8
	1.8	1.6	1.2	1.5	1.9	.8	1.2	1.2	.0	.6
	.7	.8	.6	1.2	2.5	1.1	1.1	.5	.0	.9
	3.2	.9	.8	.2	1.2	.2	1.5	1.1	.0	.1
	1.1	1.2	.6	.4	2.1	1.6	1.2	.9	.0	.3
	1.4	.6	.7	.4	1.3	.4	.2	1.0	.0	.1
	2.9	.8	.5	.1	.2	1.2	.9	1.6	.0	.0
	1.3	.8	.6	.1	.1	.8	.5	2.5	.0	.2
	3.4	2.2	.6	.0	*	1.3	1.3	3.4	.0	.2
	1.8	.1	.1	.0	.1	.0	.1	1.1	.0	.1
	1.0	.1	.0	.0	.0	.0	.0	.7	.0	.0
PCT	21.3	10.6	6.9	6.5	16.2	10.2	9.7	14.7	.0	3.9

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	84	57	51	40	29	23	-8	43.1	2353
06&09	83	58	52	41	30	24	0	44.6	2312
12&15	84	55	50	39	29	23	-4	42.4	2776
18&21	82	54	48	38	27	22	-8	42.3	1707
TOT	84	57	51	40	29	23	-8	43.1	9148

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	15.7	13.8	22.7	23.5	24.4	79	175
06&09	.0	11.9	9.4	28.9	21.9	27.9	79	187
12&15	.0	11.1	5.0	24.4	22.0	37.5	82	156
18&21	.0	8.3	9.4	15.8	29.4	37.1	84	127
TOT	0	65	55	132	186	204	81	645

ANNUAL

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

TABLE 17

AREA 0018 TATAR STRAIT S
47.9N 141.2E

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	.0	.0	5	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	*	.0	*	11	*	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	.0	*	.0	8	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	*	*	*	*	*	.0	21	*	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	.0	*	*	*	*	*	23	*	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.1	*	*	.0	51	.1	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2	.2	.2	.2	.2	.1	.1	*	*	124	.2	1.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.3	.3	.2	.2	.2	.2	.1	*	*	.0	151	.2	1.5
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.6	.3	.3	.3	.2	.2	.2	.1	.0	.0	232	.5	2.3
6	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.1	.3	.1	.1	.1	.1	.1	*	.0	.0	102	.2	1.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.6	.6	.6	.4	.5	.3	.5	.4	.1	*	.0	.0	362	.8	3.4
4	.0	.0	.0	.0	.0	.0	.0	.1	.2	.7	.6	.9	.5	.5	.5	1.0	.5	.2	*	.0	.0	512	.9	4.9
3	.0	.0	.0	.0	.0	.0	.0	.1	.1	.3	.3	.2	.2	.2	.3	.3	.1	.1	*	.0	.0	198	.4	1.9
2	.0	.0	.0	.0	.0	.0	.0	.3	.5	1.1	.9	1.5	.9	.8	.6	1.5	.6	.2	*	*	.0	785	1.8	7.2
1	.0	.0	.0	.0	.0	.0	.0	.2	.3	.3	.3	.3	.3	.2	.4	.4	.1	.1	.0	.0	.0	255	.5	2.4
0	.0	.0	.0	.0	.0	.0	.1	.8	1.1	1.1	.9	1.4	1.0	1.2	1.1	1.9	.4	*	*	.0	.0	931	1.3	9.6
-1	.0	.0	.0	.0	.0	.0	.1	.2	.1	.4	.2	.2	.2	.4	.4	.3	*	.0	.0	.0	.0	229	.3	2.3
-2	.0	.0	.0	.0	.0	.0	.5	1.1	.7	.7	.6	.7	.7	.8	.9	.7	.1	*	.0	.0	.0	626	.6	7.1
-3	.0	.0	.0	.0	.0	.0	.2	.3	.2	.1	.1	.2	.2	.2	.3	.1	.1	.0	.0	.0	.0	153	.2	1.7
-4	.0	.0	.0	.0	.0	.0	1.1	.8	.3	.3	.4	.4	.4	.4	.7	.3	*	.0	.0	.0	.0	402	.2	5.0
-5	.0	.0	.0	.0	.0	.2	1.1	.8	.5	.5	.3	.3	.2	.3	.4	.1	*	.0	.0	.0	.0	338	.2	4.6
-6	.0	.0	.0	.0	.0	.1	.4	.2	.1	.1	.1	.1	.1	.1	.1	*	*	.0	.0	.0	.0	113	*	1.6
-7/-8	.0	.0	.0	.0	.0	.8	1.7	.7	.3	.3	.3	.3	.4	.1	.2	*	.0	.0	.0	.0	.0	349	.1	5.1
-9/-10	.0	.0	.0	.0	.5	.9	.8	.4	.3	.2	.3	.2	.2	.1	.1	*	.0	.0	.0	.0	.0	249	.1	3.7
-11/-13	.0	.0	.0	.3	1.4	1.8	1.2	.5	.2	.3	.1	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	355	.1	6.1
-14/-16	.0	.0	.1	1.3	1.3	1.0	.6	.4	.2	.3	.1	*	*	.0	.0	*	.0	.0	.0	.0	.0	291	.1	5.2
-17/-19	.0	.0	1.0	1.2	1.2	.4	.2	.1	*	*	.2	*	*	.0	.0	.0	.0	.0	.0	.0	.0	230	.1	4.3
-20/-22	.0	.4	.7	.8	.5	.4	.2	*	*	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	166	*	3.1
-23/-25	*	.7	.7	.5	.2	.1	.1	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	.1	2.2
-26/-30	.2	.5	.5	.2	.2	.1	*	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	.1	1.7
<-30	.4	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	.1	.7
TOTAL																						7517		
PCT	.7	1.7	3.1	4.3	5.3	5.9	8.3	7.2	5.4	7.7	7.0	9.1	6.9	7.0	7.2	8.3	3.2	1.2	.4	.1	.1	100.0	9.3	90.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.8	.2	.0	.0	.0	2.6
1-2	*	2.5	1.9	.0	.0	.0	4.4
3-4	*	.7	3.3	1.0	.0	.0	5.0
5-6	.0	.1	2.2	1.3	.1	.0	3.7
7	.0	.1	.6	1.2	.1	.0	2.1
8-9	.0	*	.6	.5	.1	.0	1.3
10-11	.0	.0	.2	.7	.2	.0	1.1
12	.0	.0	.1	.2	.1	.0	.3
13-16	.0	.0	.0	.3	.3	.0	.6
17-19	.0	.0	*	.1	*	*	.2
20-22	.0	.0	*	.0	.0	.0	*
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.3	9.2	5.3	1.1	*	21.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.1	.0	.0	.0	1.4
1-2	.0	1.2	1.2	.0	.0	.0	2.4
3-4	.0	.5	1.6	.3	.0	.0	2.4
5-6	.1	.2	.9	.4	.1	.0	1.7
7	.0	.1	.5	.2	.1	.0	.8
8-9	.0	*	.2	.2	.1	*	.5
10-11	.0	.0	.1	.1	.1	.1	.4
12	.0	.0	.0	.1	*	.1	.3
13-16	.0	.0	.0	.1	.2	.0	.2
17-19	.0	.0	*	*	.1	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.9	2.6	.5	.1	.0	6.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.9	.0	.0	.0	.0	1.0
1-2	*	.9	1.0	.0	.0	.0	1.9
3-4	.0	.3	1.2	.2	.0	.0	1.7
5-6	.0	*	.6	.4	.1	.0	1.1
7	.0	.1	.2	.1	*	.0	.4
8-9	.0	.0	.1	.1	*	*	.2
10-11	.0	.0	.1	.1	.0	*	.2
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	3.2	1.0	.1	.1	6.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.1	.0	.0	.0	1.4
1-2	.1	1.4	.9	.0	.0	.0	2.4
3-4	*	.3	1.0	.2	.0	.0	1.5
5-6	.0	*	.4	.2	*	.0	.6
7	.0	*	.2	*	*	.0	.3
8-9	.0	.0	*	.1	*	.0	.1
10-11	.0	*	.0	.0	.0	.0	*
12	.0	*	.0	.1	*	.0	.1
13-16	.0	*	*	.0	.0	.0	*
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.7	1.7	.4	.0	.0	4.2

PERIOD: (OVER-ALL) 1963-1974 ANNUAL AREA 0018 TATAR STRAIT S 47.9N 141.2E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.9	.2	.0	.0	.0	2.5	.2	1.1	.1	.0	.0	.0	1.4
1-2	.2	2.7	2.5	.0	.0	.0	5.4	*	2.0	1.8	.0	.0	.0	3.8
3-4	*	.7	3.2	.5	.0	.0	4.4	.0	.5	1.7	.3	.0	.0	2.5
5-6	.0	.1	2.0	.7	.0	.0	2.8	.0	.1	1.2	.3	.0	.0	1.6
7	.0	*	.4	.3	.0	.0	.7	.0	.2	.4	.3	.0	.0	.9
8-9	.0	.1	.2	.3	*	.0	.6	*	.0	.2	.1	.1	.0	.3
10-11	.0	*	*	.2	*	.0	.2	.0	.0	.1	.1	*	.0	.1
12	.0	.0	*	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	*	.1	*	.0	.0	.2	.0	.0	*	*	.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	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.6	8.7	2.0	.1	.0	17.0	.2	3.8	5.5	1.1	.1	.0	10.7

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	1.2	.2	.0	.0	.0	1.5	.3	1.1	.1	.0	.0	.0	1.4	
1-2	*	1.3	.9	.0	.0	.0	2.2	*	1.5	1.9	.0	.0	.0	3.5	
3-4	.0	.4	1.6	.2	.0	.0	2.2	.0	.4	2.4	.5	.0	.0	3.3	
5-6	*	.1	.9	.3	.0	.0	1.2	.0	.1	1.4	.5	*	.0	2.1	
7	*	.1	.3	.4	.1	.0	.9	*	.1	.6	.6	.1	.0	1.4	
8-9	.0	*	.3	.3	.0	.0	.6	.0	*	.5	.4	.2	.0	1.1	
10-11	.0	*	.1	.1	.0	.0	.2	.0	.0	.1	.2	.2	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	*	.0	.3	
13-16	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.1	.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	*	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.1	4.2	1.2	.1	.0	8.8	.3	3.2	7.1	2.4	.6	*	13.6	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.0	10.2	1.0	.0	.0	.0	18.2	
1-2	.5	13.5	12.1	.0	.0	.0	26.1	
3-4	.1	3.8	16.0	3.2	.0	.0	23.1	
5-6	.1	.7	9.6	4.0	.3	.0	14.7	
7	*	.6	3.2	3.2	.4	.0	7.5	
8-9	*	.2	2.0	2.0	.6	.1	4.8	
10-11	.0	.1	.7	1.4	.5	.1	2.7	
12	.0	*	.2	.5	.2	.1	1.1	
13-16	.0	.1	.2	.5	.5	*	1.3	
17-19	.0	.0	.1	.1	.1	*	.3	
20-22	.0	.0	.1	.0	.0	.0	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								3543
TOT PCT	7.8	29.2	45.1	15.0	2.6	.4	100.0	

PERIOD: (OVER-ALL) 1956-1974 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	13.4	11.9	6.5	2.6	.9	.6	.2	.2	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	1780	3
6-7	*	1.7	3.1	4.5	3.1	2.5	1.4	.3	.2	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	762	6
8-9	.1	.3	.7	1.0	1.2	.7	.6	.3	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	241	7
10-11	.0	1.6	.3	.6	.3	.4	.2	.1	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	170	5
12-13	.0	.0	.7	.3	.1	.2	*	*	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	6
>13	.0	.0	.0	.5	.1	.1	.1	*	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	52	9
INDET	10.1	6.6	7.5	4.5	2.1	1.0	.6	.6	.4	.1	*	.0	*	.0	.0	.0	.0	.0	.0	1518	3
TOTAL PCT	11.4	23.6	24.2	17.8	9.5	5.9	3.5	1.5	1.8	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	4596 100.0	4

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1870-1974

AREA 0018 TATAR STRAIT S
47.9N 141.2E

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	.3	.2	.0	.0	.0	4	*
73/74	.0	.0	.0	.0	.0	.0	.0	.3	.6	.0	.0	.0	8	.1
71/72	.0	.0	.0	.0	.0	.0	.0	.6	.7	.0	.0	.0	11	.1
69/70	.0	.0	.0	.0	.0	.0	.3	2.4	1.0	.0	.0	.0	31	.4
67/68	.0	.0	.0	.0	.0	.1	.9	6.3	2.5	.4	.0	.0	83	1.0
65/66	.0	.0	.0	.0	.0	.3	1.4	11.4	4.7	.4	.0	.0	149	1.8
63/64	.0	.0	.0	.0	.0	.4	7.8	31.5	22.2	.6	.3	.0	525	6.5
61/62	.0	.0	.0	.0	.0	.5	10.6	20.0	19.3	2.1	.2	.0	447	5.5
59/60	.0	.0	.0	.0	.4	.8	10.3	11.3	11.1	3.6	1.0	.0	327	4.0
57/58	.0	.0	.0	.0	.2	1.6	16.3	6.8	13.2	7.8	.5	.0	401	4.9
55/56	.0	.0	.0	.0	.4	3.8	16.5	2.9	8.3	8.4	.7	.0	360	4.4
53/54	.5	.2	.0	.0	.4	6.6	12.7	1.9	6.6	10.5	1.0	.6	352	4.3
51/52	.9	.4	.0	.4	.2	10.3	9.3	.6	3.3	12.1	1.3	.6	334	4.1
49/50	.5	.2	.0	.2	1.7	14.2	6.1	1.0	1.7	14.1	3.8	.8	374	4.6
47/48	1.0	.2	.2	1.0	2.4	16.4	2.9	.2	1.7	9.5	5.9	.6	348	4.3
45/46	1.0	1.0	1.2	1.0	12.5	22.1	2.5	.6	1.5	13.5	18.2	3.1	610	7.5
43/44	1.8	.8	1.4	3.2	13.9	11.8	.7	.6	.7	6.3	13.1	5.0	431	5.3
41/42	1.8	2.1	1.5	5.3	17.1	4.8	.1	.4	.2	3.3	9.3	6.5	352	4.3
39/40	6.8	2.1	2.5	10.1	21.5	3.2	.0	.1	.2	3.1	10.1	10.6	439	5.4
37/38	11.8	6.0	7.1	19.0	16.0	.9	.2	.5	.1	1.1	11.8	17.9	505	6.2
35/36	13.4	12.2	12.5	23.6	7.6	.8	.5	.0	.2	1.7	7.9	15.4	498	6.1
33/34	18.3	13.0	20.6	21.6	4.2	.6	.4	.0	.0	.7	4.1	19.6	517	6.4
31/32	17.3	18.4	21.6	10.7	1.0	.5	.4	.0	.0	.7	6.2	10.4	438	5.4
29/30	15.7	36.9	23.6	3.2	.6	.0	.0	.0	.0	.0	2.5	5.3	437	5.4
27/28	9.7	6.6	7.9	.6	.0	.0	.0	.0	.0	.0	1.3	3.6	141	1.7
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	382	485	606	495	832	963	922	780	881	809	611	357	8123	100.0
MEAN	34.1	32.5	32.9	36.8	40.5	47.6	55.8	61.7	59.2	49.8	41.1	36.6	44.0	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1015	1009	1013	1010	1015	1010	1014	1011	1013	483
FEB	1012	1008	1011	1010	1013	1011	1013	1012	1011	567
MAR	1014	1005	1014	1006	1014	1007	1014	1006	1012	740
APR	1011	1007	1009	1007	1012	1006	1012	1006	1009	671
MAY	1011	1008	1010	1009	1011	1008	1007	1008	1009	931
JUN	1010	1007	1011	1008	1010	1008	1009	1008	1009	1032
JUL	1010	1008	1010	1008	1010	1007	1010	1007	1009	991
AUG	1010	1010	1009	1010	1010	1010	1009	1009	1009	829
SEP	1013	1010	1011	1011	1013	1011	1013	1011	1012	966
OCT	1013	1013	1012	1013	1013	1011	1014	1010	1013	887
NOV	1012	1010	1011	1009	1011	1009	1010	1009	1010	722
DEC	1010	1008	1007	1008	1012	1008	1010	1008	1009	430
ANN	1012	1009	1011	1009	1012	1009	1011	1009	1011	9249
OBS	1704	676	1511	848	1755	1048	872	835		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	985	988	998	1008	1014	1018	1024	1028	1030
FEB	977	986	999	1006	1011	1018	1025	1027	1029
MAR	968	983	996	1006	1013	1018	1024	1029	1030
APR	976	983	991	1003	1010	1016	1024	1029	1030
MAY	976	986	995	1005	1010	1015	1022	1027	1028
JUN	987	991	999	1006	1009	1013	1019	1022	1027
JUL	985	991	1000	1006	1009	1013	1018	1021	1027
AUG	990	996	1000	1006	1009	1013	1019	1022	1025
SEP	982	992	1000	1008	1012	1016	1023	1026	1029
OCT	986	991	998	1008	1013	1018	1023	1027	1029
NOV	978	984	993	1005	1012	1016	1024	1028	1030
DEC	978	987	995	1003	1010	1016	1022	1027	1028

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

AREA 0019 OKHOTSK SEA SW
51.7N 147.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	43.4	.0	.0	43.4	3.1	.0	6.2	.0	.0		.0	47.3
NE	4.9	.0	4.9	.0	31.7	.0	.0	36.6	.0	4.9	.0	.0	.0		.0	58.5
E	.0	.0	.0	.0	22.6	.0	.0	22.6	.0	.0	.0	.0	.0		.0	77.4
SE	.0	.0	16.7	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0		.0	83.3
S	.0	.0	11.8	.0	8.8	.0	.0	20.6	.0	.0	.0	.0	.0		.0	79.4
SW	.0	.0	5.9	.0	41.2	.0	.0	47.1	.0	.0	.0	.0	.0		.0	52.9
W	2.6	.0	.0	.0	39.9	.0	.0	42.5	5.2	.0	9.8	.0	.0		.0	42.5
NW	.0	.0	.0	.0	47.1	2.1	.0	49.2	2.1	.0	6.9	.0	.0		.0	41.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0		.0	50.0
TOT PCT	1.2	.0	1.8	.0	38.1	.6	.0	41.1	2.4	.6	6.0	.0	.0		.0	50.0
TOT OBS:	168															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	30.2	1.9	.0	32.1	1.9	1.9	9.4	.0	.0		.0	54.7
06&09	.0	.0	4.3	2.1	38.3	.0	.0	44.7	4.3	.0	10.6	.0	.0		.0	40.4
12&15	1.8	.0	1.8	.0	33.9	.0	.0	35.7	3.6	.0	5.4	.0	.0		.0	55.4
18&21	2.9	.0	2.9	.0	40.0	.0	.0	45.7	.0	.0	5.7	.0	.0		.0	48.6
TOT PCT	1.0	.0	2.1	.5	35.1	.5	.0	38.7	2.6	.5	7.9	.0	.0		.0	50.3
TOT OBS:	191															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	2.9	7.6	6.3	2.3	.6		21.0	21.5	23.2	.0	10.0	.0	26.6	.0	23.3	.0
NE	.0	3.2	4.7	3.7	.2	.0		11.8	17.1	15.9	.0	17.1	.0	9.6	.0	4.2	.0
E	.0	.5	2.8	1.3	.6	.0		5.0	21.6	6.1	.0	7.1	.0	5.9	.0	.0	.0
SE	.0	.2	.2	1.0	.6	.0		1.9	26.0	.6	.0	.0	50.0	2.7	.0	3.3	.0
S	.0	.6	3.2	1.0	.6	.0		5.5	20.2	2.4	.0	7.1	50.0	4.3	.0	6.7	50.0
SW	.0	1.3	1.9	.6	.2	.0		4.0	13.6	7.3	.0	1.4	.0	2.1	.0	4.2	50.0
W	.6	2.6	7.6	8.2	1.1	.6		20.8	21.0	9.1	.0	25.7	.0	24.5	.0	26.7	.0
NW	.6	3.5	11.6	10.8	2.1	.0		28.7	20.9	35.4	.0	28.6	.0	24.5	.0	28.3	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	.0	.0	2.9	.0	.0	.0	3.3	.0
TOT OBS	6	23	61	51	12	2	155		20.1	41	0	35	1	47	0	30	1
TOT PCT	3.9	14.8	39.4	32.9	7.7	1.3		100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	5.2	9.4	2.7	2.4		21.0	21.5	23.2	9.7	26.6	22.6
NE	1.9	4.2	3.9	1.8	.0		11.8	17.1	15.9	16.7	9.6	4.0
E	.5	1.1	2.1	1.3	.0		5.0	21.6	6.1	6.9	5.9	.0
SE	.2	.0	1.1	.6	.0		1.9	26.0	.6	1.4	2.7	3.2
S	.0	1.8	3.1	.6	.0		5.5	20.2	2.4	8.3	4.3	8.1
SW	1.3	1.5	1.1	.2	.0		4.0	13.6	7.3	1.4	2.1	5.6
W	1.3	5.5	8.4	5.0	.6		20.8	21.0	9.1	25.0	24.5	25.8
NW	.6	8.5	15.5	2.6	1.5		28.7	20.9	35.4	27.8	24.5	27.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	.0	2.8	.0	3.2
TOT OBS	13	43	69	23	7	155		20.1	41	36	47	31
TOT PCT	8.4	27.7	44.5	14.8	4.5		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

AREA 0019 OKHOTSK SEA SW
51.7N 147.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	2.4	7.3	46.3	34.1	9.8	.0	20.8	100.0	41
06&09	2.8	.0	11.1	36.1	47.2	2.8	.0	21.0	100.0	36
12&15	.0	6.4	23.4	34.0	25.5	8.5	2.1	18.7	100.0	47
18&21	3.2	.0	16.1	41.9	25.8	9.7	3.2	20.4	100.0	31
TOT	2	4	23	61	51	12	2	20.1		155
PCT	1.3	2.6	14.8	39.4	32.9	7.7	1.3		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.3	7.9	8.8		6.7
NE	.7	1.7	3.3	7.2		6.6
E	.0	.0	2.4	1.8		7.0
SE	.0	.0	.2	.9		7.8
S	.0	.7	1.5	3.3		6.8
SW	1.5	.2	.7	3.3		6.0
W	2.2	2.6	7.9	8.8		6.0
NW	1.5	1.7	15.1	11.4		6.5
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.5	.0		6.0
TOT OBS	8	11	55	62	136	6.4
TOT PCT	5.9	8.1	40.4	45.6	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	4.4	.0	.0	.0	3.7	7.4	.0	.0	.7	.0	1.8	
NE	3.3	.0	.0	.7	.9	2.6	1.5	.0	.0	.0	3.9	
E	.0	.0	.6	.0	2.6	1.1	.0	.0	.0	.0	.0	
SE	.0	.0	.2	.0	.2	.7	.0	.0	.0	.0	.0	
S	.6	.0	.0	.0	.7	2.8	.7	.0	.0	.0	.7	
SW	.9	.0	.0	.0	.0	1.7	.0	.0	.7	.0	2.4	
W	3.1	.0	.0	1.5	4.8	7.4	.0	.0	.0	.0	4.8	
NW	6.8	.0	.0	.0	9.2	9.6	.0	.0	.0	.0	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	
TOT OBS	26	1	1	3	30	46	3	0	2	0	24	136
TOT PCT	19.1	.7	.7	2.2	22.1	33.8	2.2	.0	1.5	.0	17.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.7	.7	.7	.7	.7	.7
* OR >5000	.0	.0	.7	.7	.7	.7	.7	.7
* OR >3500	1.4	1.4	2.0	2.0	2.7	2.7	2.7	2.7
* OR >2000	15.6	24.5	30.6	32.7	33.3	34.0	34.7	34.7
* OR >1000	20.4	38.1	49.0	53.7	55.8	57.1	58.5	58.5
* OR >600	21.8	39.5	50.3	56.5	58.5	59.9	61.2	61.2
* OR >300	22.4	40.1	51.0	57.1	59.2	60.5	61.9	61.9
* OR >150	22.4	40.8	51.7	57.8	59.9	61.2	62.6	62.6
* OR > 0	22.4	42.9	57.8	69.4	74.8	79.6	83.0	83.7
TOTAL	33	63	85	102	110	117	122	123

TOTAL NUMBER OF OBS: 147

PCT FREQ NH <5/8: 16.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
2.2	1.7	2.2	2.8	5.6	10.7	11.2	11.8	34.3	17.4	178

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PERIOD: (PRIMARY) 1967-1976
(OVER-ALL) 1936-1976

AREA 0019 OKHOTSK SEA SW
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.6	.0	.0	.5	.2	1.7	1.4	.0	.0	4.2	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	1.1	.8	.0	.0	1.8	
	TOT %	.0	.6	.0	.0	.5	.2	2.7	2.1	.0	.0	6.0	
	PCP	.9	.8	.0	.0	.0	.8	2.7	2.1	.0	.0	7.2	
1/2<1	NO PCP	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.9	1.4	.0	.0	.0	.8	2.7	2.1	.0	.0	7.8	
	PCP	4.7	1.1	.0	.0	.0	.0	1.5	4.2	.0	.0	11.4	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	1.2	1.2	.0	.0	2.4	
	TOT %	4.7	1.1	.0	.0	.0	.0	2.7	5.4	.0	.0	13.9	
	PCP	1.8	1.4	1.1	.0	.0	1.2	3.3	3.9	.0	.0	12.7	
2<5	NO PCP	.6	.0	.0	.0	.0	1.4	1.1	2.4	.0	.0	5.4	
	TOT %	2.4	1.4	1.1	.0	.0	2.6	4.4	6.3	.0	.0	18.1	
	PCP	1.1	.8	.0	.3	.6	.3	.0	1.8	.0	.0	4.8	
5<10	NO PCP	4.5	.8	2.1	1.4	2.4	.6	3.2	4.4	.0	1.2	20.5	
	TOT %	5.6	1.5	2.1	1.7	3.0	.9	3.2	6.2	.0	1.2	25.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	9.9	6.5	1.5	.2	1.7	.8	6.8	5.7	.0	.0	28.9	
	TOT %	9.9	6.5	1.5	.2	1.7	.8	6.8	5.7	.0	.0	28.9	
	TOT OBS												166
	TOT PCT	19.4	12.3	4.7	1.8	5.1	5.1	22.4	27.9	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.7	.0	.0	.5	.2	.0	.0	.0		1.3	
	22+	.0	.0	.0	.0	.0	.0	2.3	2.3	.0		4.6	
	TOT %	.0	.7	.0	.0	.5	.2	2.3	2.3	.0	.0	6.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.7	.0	.0	.0	.0	.0	1.2	1.5	.0		3.3	
	22+	1.0	.8	.0	.0	.0	.8	1.8	.8	.0		5.3	
	TOT %	1.7	.8	.0	.0	.0	.8	3.0	2.3	.0	.0	8.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.7	.0	.0		.7	
	11-21	1.0	.8	.0	.0	.0	.0	.0	1.5	.0		3.3	
	22+	3.6	.2	.0	.0	.0	.0	1.2	3.6	.0		8.6	
	TOT %	4.6	1.0	.0	.0	.0	.0	1.8	5.1	.0	.0	12.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.7	.0	.0	.0	.0	1.3	1.3	1.3	.0		4.6	
	11-21	.7	.8	.5	.0	.0	.7	1.8	1.5	.0		6.0	
	22+	.7	.7	.7	.0	.0	.0	1.2	4.1	.0		7.3	
	TOT %	2.0	1.5	1.2	.0	.0	2.0	4.3	7.0	.0	.0	17.9	
	0-3	.7	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.0	
5<10	4-10	.7	.7	.5	.2	.7	.0	.0	2.0	.0		4.6	
	11-21	1.8	.2	.5	.0	1.7	1.0	1.8	3.0	.0		9.9	
	22+	3.0	.8	1.3	1.7	1.0	.0	1.2	1.0	.0		9.9	
	TOT %	6.1	1.7	2.3	1.8	3.3	1.0	3.0	6.0	.0	1.3	26.5	
	0-3	.7	.0	.0	.0	.0	.0	.7	.7	.0	.0	2.0	
10+	4-10	1.7	2.6	.0	.0	.0	.0	.7	.3	.0		5.3	
	11-21	3.6	2.3	1.7	.2	1.2	.2	3.0	3.1	.0		15.2	
	22+	.5	1.5	.0	.0	.7	.0	2.0	1.3	.0		6.0	
	TOT %	6.5	6.5	1.7	.2	1.8	.2	6.3	5.5	.0	.0	28.5	
	TOT OBS												151
	TOT PCT	20.9	12.1	5.1	2.0	5.6	4.1	20.7	28.1	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

AREA 0019 OKHOTSK SEA SW
51.7N 147.5E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	18.0	.0	2.0	2.0	26.0	34.0	4.0	.0	2.0	.0	88.0	12.0	50
06&09	12.8	.0	.0	5.1	33.3	38.5	.0	.0	.0	.0	89.7	10.3	39
12&15	18.4	.0	.0	2.6	15.8	28.9	.0	.0	.0	.0	65.8	34.2	38
18&21	42.3	3.8	.0	.0	11.5	23.1	3.8	.0	3.8	.0	88.5	11.5	26
TOT	32	1	1	4	35	49	3	0	2	0	127	26	153
PCT	20.9	.7	.7	2.6	22.9	32.0	2.0	.0	1.3	.0	83.0	17.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	5.8	7.7	9.6	15.4	21.2	40.4	52
06&09	10.9	2.2	26.1	17.4	23.9	19.6	46
12&15	7.4	5.6	9.3	16.7	38.9	22.2	54
18&21	5.6	16.7	11.1	16.7	22.2	27.8	36
TOT	14	14	26	31	51	52	188
PCT	7.4	7.4	13.8	16.5	27.1	27.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	16.7	27.1	41.7	50.0	8.3	48
06&09	13.2	21.1	57.9	34.2	7.9	38
12&15	19.4	19.4	38.9	30.6	30.6	36
18&21	44.0	48.0	60.0	32.0	8.0	25
TOT	31	40	71	56	20	147
PCT	21.1	27.2	48.3	38.1	13.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	16.7	33.3	16.7	4	66.7
35/39	.0	.0	.0	16.7	.0	.0	.0	.0	1	16.7
30/34	.0	.0	.0	.0	.0	.0	16.7	.0	1	16.7
TOTAL	0	0	0	1	0	1	3	1	6	100.0
PCT	.0	.0	.0	16.7	.0	16.7	50.0	16.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	12.5	16.7	.0	.0	.0	20.8	12.5	4.2	.0	.0
	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0
	.0	.0	12.5	4.2	.0	.0	.0	.0	.0	.0
	12.5	16.7	12.5	4.2	.0	20.8	29.2	4.2	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	43	42	39	21	3	-4	-4	20.2	53
06&09	45	44	36	20	1	-4	-4	18.6	45
12&15	41	40	35	18	5	1	1	18.4	52
18&21	45	44	36	18	-4	-7	-7	18.2	34
TOT	45	43	36	19	1	-4	-7	18.9	184

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	25.0	.0	25.0	25.0	25.0	77	4
06&09	.0	.0	.0	.0	100.0	.0	84	1
12&15	.0	.0	.0	.0	100.0	.0	84	1
18&21								
TOT	0	1	0	1	3	1	79	6

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

AREA 0019 OKHOTSK SEA SW
51.7N 147.5E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
4	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
1	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	1	.0	.7
0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.7	3	.7	1.5
-1	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	1	.0	.7
-2	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.7	.0	3	.0	2.2
-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	.0	2	.0	1.5
-4	.0	.0	.0	.0	.0	.0	4.4	1.5	.0	.7	.0	.0	9	.0	6.6
-5	.0	.0	.0	.0	.0	.7	5.1	1.5	.0	.0	.0	.0	10	.0	7.3
-6	.0	.0	.0	.0	.0	.7	2.2	.7	.0	.0	.0	.0	5	.0	3.6
-7/-8	.0	.0	.0	.0	.0	2.2	3.6	1.5	1.5	.0	.0	.0	12	.7	8.0
-9/-10	.0	.0	.0	.0	.0	4.4	1.5	.0	.0	.0	.0	.0	8	.7	5.1
-11/-13	.0	.0	.0	.0	3.6	5.8	.7	.0	.0	.0	.0	.0	14	.7	9.5
-14/-16	.0	.0	.0	.0	6.6	1.5	.7	.0	.0	.0	.0	.0	12	.7	8.0
-17/-19	.0	.0	.0	.7	2.9	1.5	.0	.0	.0	.0	.0	.0	7	.0	5.1
-20/-22	.0	.7	6.6	1.5	1.5	.0	.0	.0	.0	.0	.0	.0	14	.7	9.5
-23/-25	.0	.7	8.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	9.5
-26/-30	.7	5.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2.2	5.1
<-30	6.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	1.5	5.8
TOTAL	10	10	22	4	20	23	25	11	7	2	2	1	137	11	126
PCT	7.3	7.3	16.1	2.9	14.6	16.8	18.2	8.0	5.1	1.5	1.5	.7	100.0	8.0	92.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	.9	.0	.0	.0	1.9
1-2	.0	.9	.7	.0	.0	.0	1.6
3-4	.0	.7	3.5	.0	.0	.0	4.2
5-6	.0	.0	1.4	.9	.0	.0	2.3
7	.0	.0	.7	.9	1.6	.0	3.3
8-9	.9	.0	.9	3.0	1.6	.9	7.5
10-11	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	1.6	8.2	6.5	3.3	.9	22.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.9	.2	.0	.0	.0	2.1
3-4	.0	.9	.2	.0	.0	.0	1.2
5-6	.0	.9	.7	1.9	.0	.0	3.5
7	.0	.0	.9	.9	.2	.0	2.1
8-9	.0	.0	.9	.5	.0	.0	1.4
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.9	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.9	.0	.0	.9
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.7	3.0	5.4	.2	.0	13.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.7	.0	.0	.0	.7
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	.9	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.9	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	3.0	.9	.9	.0	5.6

SE

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

PERIOD: (OVER-ALL) 1963-1974

JANUARY

TABLE 18 (CONT)

AREA 0019 OKHOTSK SEA SW
51.7N 147.5E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.9	.0	.0	.0	1.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.0	.9	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	3.5	.9	.9	.0	6.3

SW

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

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.9	.0	.0	.0	.0	1.9
1-2	.0	.9	.7	.0	.0	.0	1.6
3-4	.0	.0	2.3	.7	.0	.0	3.0
5-6	.0	.0	.0	2.8	.0	.0	2.8
7	.0	.0	1.6	1.9	.0	.0	3.5
8-9	.0	.0	.0	.7	.7	.0	1.4
10-11	.0	.0	.0	1.6	.0	.0	1.6
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.9	.0	.9
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	1.9	4.7	8.6	1.6	.0	17.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	.0	.0	.0	.0	.0	.9	
1-2	.0	1.9	4.0	.0	.0	.0	5.8	
3-4	.0	.2	1.6	1.2	.0	.0	3.0	
5-6	.0	.0	4.9	.9	.0	.0	5.8	
7	.0	.0	3.3	1.9	.0	.0	5.1	
8-9	.0	.0	.0	2.3	.2	.0	2.6	
10-11	.0	.0	.0	1.2	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.9	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.9	.0	.0	.9	
23-25	.0	.0	.0	.0	.9	.0	.9	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	2.1	13.8	9.3	1.2	.0	27.3	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	4.7	.9	.0	.0	.0	10.3	
1-2	.0	5.6	5.6	.0	.0	.0	11.2	
3-4	.0	1.9	11.2	1.9	.0	.0	15.0	
5-6	.0	.9	10.3	6.5	.0	.0	17.8	
7	.0	.0	6.5	6.5	1.9	.0	15.0	
8-9	.9	.0	3.7	6.5	2.8	.9	15.0	
10-11	.0	.0	.0	4.7	.0	.0	4.7	
12	.0	.0	.0	1.9	.0	.0	1.9	
13-16	.0	.0	.0	1.9	2.8	.0	4.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	2.8	.0	.0	2.8	
23-25	.0	.0	.0	.0	1.9	.0	1.9	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.6	13.1	38.3	32.7	9.3	.9	100.0	107

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.5	6.3	6.9	4.2	5.6	1.4	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	6
6-7	.0	.7	2.1	4.2	4.9	1.4	2.8	2.1	2.1	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	31	8
8-9	.0	.0	.7	.0	.7	4.9	.7	2.1	2.8	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	18	10
10-11	.0	.0	.0	.7	1.4	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
12-13	.0	.0	.7	.7	.7	1.4	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	7	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	1.4	.0	.0	.0	.0	.0	.0	.0	4	21
INDEF	4.9	2.1	2.1	4.9	2.8	4.2	1.4	1.4	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	6
TOTAL	7	9	17	25	21	25	9	11	11	2	4	3	0	0	0	0	0	0	0	144	8
PCT	4.9	6.3	11.8	17.4	14.6	17.4	6.3	7.6	7.6	1.4	2.8	2.1	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

AREA 0019 OKHOTSK SEA SW
51.6N 147.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	8.4	.0	.0	3.6	.0	12.0	4.8	.0	14.5	.0	.0		.0	68.7
NE	.0	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	41.9	.0	.0		.0	57.0
E	2.4	.0	.0	.0	.0	.0	.0	2.4	5.6	.0	34.1	.0	.0		.0	57.9
SE	3.2	2.5	.0	.0	5.1	.0	.0	8.2	3.8	.0	43.7	2.5	2.5		.0	39.2
S	.0	.0	.0	.0	2.0	.0	2.0	4.1	1.5	2.0	33.7	.0	2.0		.0	58.7
SW	.0	.0	.0	.0	4.2	.0	.0	4.2	8.4	.0	28.4	.0	.0		4.2	54.7
W	5.3	.0	.0	.0	5.3	.0	.0	5.3	.0	.0	34.2	.0	.0		.0	60.5
NW	.0	.0	9.8	.0	.0	.0	.0	9.8	.0	.0	9.8	.0	.0		.0	80.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	3.7	3.7	.0	7.4	.0	.0	48.1	.0	.0		.0	44.4
TOT PCT	1.2	.4	1.6	.0	2.4	.8	.4	8.9	2.7	.4	33.3	.4	.8		.4	56.5
TOT OBS:	255															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	1.3	.0	3.9	.0	1.3	.0	.0	6.6	2.6	.0	31.6	.0	1.3		.0	57.9
06&09	1.4	.0	1.4	.0	1.4	.0	.0	4.2	2.8	.0	26.4	.0	1.4		1.4	63.9
12&15	1.3	.0	2.6	.0	2.6	2.6	1.3	9.1	3.9	1.3	31.2	1.3	.0		.0	54.5
18&21	.0	1.8	.0	.0	3.6	1.8	.0	5.5	1.8	.0	43.6	.0	.0		.0	49.1
TOT PCT	1.1	.4	2.1	.0	2.1	1.1	.4	6.4	2.9	.4	32.5	.4	.7		.4	56.8
TOT OBS:	280															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	1.6	5.1	2.0	.0	.0		9.1	16.1	4.9	25.0	7.3	50.0	11.2	37.5	7.8	.0
NE	.0	3.0	4.5	.2	.4	.0		8.1	13.0	8.5	12.5	9.3	.0	6.9	.0	7.8	.0
E	.4	6.0	4.1	2.2	.0	.0		12.7	13.0	14.3	9.4	16.1	.0	8.1	.0	14.4	.0
SE	.8	5.8	8.3	1.0	.0	.0		16.0	13.3	11.2	3.1	22.6	.0	20.0	50.0	8.9	.0
S	.0	5.7	10.1	2.3	.0	.0		18.1	14.8	17.0	.0	16.1	.0	21.5	.0	22.2	.0
SW	.0	2.8	6.3	.5	.0	.0		9.6	14.0	8.0	25.0	8.9	.0	8.8	.0	11.7	.0
W	.0	3.2	2.8	.3	.0	.0		6.4	10.9	8.9	25.0	4.4	.0	5.8	.0	3.9	.0
NW	.0	1.8	4.7	1.9	.8	.0		9.2	18.1	14.7	.0	8.9	.0	8.5	12.5	5.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8							10.8	.0	12.5	.0	6.5	50.0	9.2	.0	17.8	.0
TOT OBS	30	72	110	25	3	0	240		12.7	56	8	62	2	65	2	45	0
TOT PCT	12.5	30.0	45.8	10.4	1.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.6	3.2	3.5	.7	.0		9.1	16.1	7.4	8.6	11.9	7.8
NE	1.1	5.9	.5	.5	.0		8.1	13.0	9.0	9.0	6.7	7.8
E	3.0	5.5	3.4	.7	.0		12.7	13.0	13.7	15.6	7.8	14.4
SE	1.8	9.0	4.9	.4	.0		16.0	13.3	10.2	21.9	20.9	8.9
S	1.1	9.9	7.1	.0	.0		18.1	14.8	14.8	15.6	20.9	22.2
SW	.9	6.3	2.0	.4	.0		9.6	14.0	10.2	8.6	8.6	11.7
W	2.1	4.0	.3	.0	.0		6.4	10.9	10.9	4.3	5.6	3.9
NW	.8	3.8	3.6	.5	.4		9.2	18.1	12.9	8.6	8.6	5.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	10.8						10.8	.0	10.9	7.8	9.0	17.8
TOT OBS	56	114	61	8	1	240		12.7	64	64	67	45
TOT PCT	23.3	47.5	25.4	3.3	.4		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

AREA 0019 OKHOTSK SEA SW
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	10.9	.0	31.3	42.2	12.5	3.1	.0	13.8	100.0	64
06&09	7.8	3.1	23.4	53.1	10.9	1.6	.0	13.5	100.0	64
12&15	9.0	1.5	34.3	47.8	7.5	.0	.0	12.1	100.0	67
18&21	17.8	2.2	31.1	37.8	11.1	.0	.0	10.8	100.0	45
TOT	26	4	72	110	25	3	0	12.7		240
PCT	10.8	1.7	30.0	45.8	10.4	1.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.4	.0	1.8	3.0		5.0
NE	1.1	.0	1.0	5.6		6.8
E	1.4	.0	1.0	9.9		6.9
SE	2.0	.0	2.1	13.0		6.8
S	2.9	1.0	4.8	10.6		6.2
SW	1.1	.5	.6	5.9		6.4
W	.0	1.0	1.9	4.6		7.1
NW	1.1	.5	1.9	5.4		6.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	1.0	8.5		6.3
TOT OBS	28	7	32	133	200	6.5
TOT PCT	14.0	3.5	16.0	66.5	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.5	.0	.0	.4	1.1	1.8	.0	.0	.0	.0	2.4	
NE	.8	.5	.0	1.0	1.9	.5	1.0	.0	.0	.5	1.6	
E	4.1	.0	.0	.9	1.4	2.5	.5	.0	.5	.5	1.9	
SE	8.0	.0	.0	.6	1.0	2.9	1.1	.0	.0	.5	3.0	
S	7.0	.0	.0	.5	.0	3.5	3.4	.0	.0	.5	4.4	
SW	3.3	.0	.0	.0	.6	2.1	.0	.5	.0	.0	1.6	
W	2.8	.0	.5	.0	.9	1.0	.9	.0	.0	.0	1.5	
NW	.6	.0	1.0	1.1	1.1	2.8	.1	.0	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.0	.0	.5	.5	1.0	1.5	.0	.0	.0	.0	3.5	
TOT OBS	66	1	4	10	18	37	14	1	1	4	44	200
TOT PCT	33.0	.5	2.0	5.0	9.0	18.5	7.0	.5	.5	2.0	22.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
* OR >5000	1.9	2.3	2.8	2.8	2.8	2.8	2.8	2.8
* OR >3500	6.9	8.3	9.3	9.3	9.3	9.3	9.3	9.3
* OR >2000	19.0	25.0	27.3	27.3	27.3	27.3	27.3	27.3
* OR >1000	22.2	32.4	36.6	37.0	37.0	37.5	37.5	37.5
* OR >600	22.7	34.7	39.8	41.7	41.7	42.1	43.1	43.1
* OR >300	23.1	36.6	41.7	43.5	43.5	44.0	44.9	44.9
* OR >150	23.1	36.6	42.1	44.0	44.0	44.4	45.4	45.4
* OR > 0	23.1	38.0	44.4	47.2	49.1	56.0	73.1	77.3
TOTAL	50	82	96	102	106	121	158	167

TOTAL NUMBER OF OBS: 216 PCT FREQ NH <5/8: 22.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.2	.4	4.3	1.7	2.1	3.0	3.9	6.9	32.2	31.3	233

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1949-1974

AREA 0019 OKHOTSK SEA SW
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.8	
<1/2	NO PCP	.8	.9	2.6	4.8	5.6	2.6	1.9	.0	.0	4.4	23.6	
	TOT %	.8	.9	2.6	5.2	6.0	2.6	1.9	.0	.0	4.4	24.4	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	NO PCP	.4	.4	.0	1.2	.0	.0	.4	.0	.0	.4	2.8	
	TOT %	.4	.4	.0	1.2	.0	.0	.4	.0	.0	.4	2.8	
	PCP	1.0	.1	.3	.1	.0	.4	.0	.1	.0	.4	2.4	
1<2	NO PCP	.0	.4	.4	.0	.0	.0	.0	.4	.0	.0	1.2	
	TOT %	1.0	.5	.7	.1	.0	.4	.0	.5	.0	.4	3.6	
	PCP	.0	.0	.0	.8	.4	.0	.0	.0	.0	.0	1.2	
2<5	NO PCP	.0	.9	1.4	1.5	2.2	.8	.8	1.2	.0	.4	9.2	
	TOT %	.0	.9	1.4	2.3	2.6	.8	.8	1.2	.0	.4	10.4	
	PCP	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	1.2	
5<10	NO PCP	1.1	1.9	3.4	2.9	3.4	2.2	1.1	.8	.0	2.0	18.8	
	TOT %	1.1	1.9	3.4	2.9	3.4	2.2	1.5	1.6	.0	2.0	20.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	4.6	4.0	4.5	3.3	7.6	3.5	2.7	5.8	.0	2.8	38.8	
	TOT %	4.6	4.0	4.5	3.3	7.6	3.5	2.7	5.8	.0	2.8	38.8	
	TOT OBS												250
	TOT PCT	7.9	8.6	12.6	15.0	19.6	9.5	7.3	9.1	.0	10.4	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	4.8	
<1/2	4-10	.4	.0	1.1	1.1	1.7	.0	.4	.0	.0		4.8	
	11-21	.4	.5	1.0	3.6	2.9	2.5	1.2	.0	.0		12.1	
	22+	.0	.0	.8	.5	.3	.1	.0	.0	.0		1.7	
	TOT %	.9	.5	2.8	5.2	5.0	2.6	1.6	.0	.0	4.8	23.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
1/2<1	4-10	.0	.4	.0	.9	.0	.0	.4	.0	.0		1.7	
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0		.4	
	22+	.4	.0	.0	.0	.0	.0	.0	.0	.0		.4	
	TOT %	.4	.4	.0	1.3	.0	.0	.4	.0	.0	.4	3.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
1<2	4-10	.3	.1	.0	.0	.0	.0	.0	.0	.0		.4	
	11-21	.8	.4	.3	.1	.0	.0	.0	.5	.0		2.2	
	22+	.0	.0	.4	.0	.0	.4	.0	.0	.0		.9	
	TOT %	1.1	.5	.8	.1	.0	.4	.0	.5	.0	.4	3.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
2<5	4-10	.0	.1	.8	.0	.9	.0	.9	.0	.0		2.6	
	11-21	.0	.0	.8	2.4	.8	.9	.0	.9	.0		5.6	
	22+	.0	.4	.0	.1	1.2	.0	.0	.4	.0		2.2	
	TOT %	.0	.5	1.5	2.5	2.8	.9	.9	1.3	.0	.4	10.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	1.7	
5<10	4-10	.4	1.0	1.2	2.3	.6	1.4	.0	.0	.0		6.9	
	11-21	.3	.5	1.7	.9	2.2	.9	.4	.9	.0		7.8	
	22+	.4	.1	.3	.0	.9	.0	.0	.9	.0		2.6	
	TOT %	1.2	1.6	3.2	3.1	3.7	2.3	.4	1.7	.0	1.7	19.0	
	0-3	.4	.0	.4	.9	.0	.0	.0	.0	.0	3.0	4.8	
10+	4-10	.4	1.1	2.8	1.8	2.7	1.1	1.6	1.8	.0		13.4	
	11-21	2.9	3.1	.4	.9	4.7	2.3	1.3	2.6	.0		18.2	
	22+	1.2	.1	.8	.0	.0	.0	.0	1.4	.0		3.5	
	TOT %	5.0	4.3	4.4	3.6	7.4	3.4	2.9	5.8	.0	3.0	39.8	
	TOT OBS												231
	TOT PCT	8.5	8.0	12.8	15.8	18.8	9.5	6.3	9.4	.0	10.8	100.0	

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

AREA 0019 OKHOTSK SEA SW
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	25.8	.0	3.2	4.8	9.7	27.4	4.8	.0	1.6	.0	77.4	22.6	62
06&09	23.8	1.6	1.6	3.2	11.1	14.3	9.5	1.6	.0	1.6	68.3	31.7	63
12&15	41.8	.0	.0	7.3	7.3	12.7	7.3	.0	.0	5.5	81.8	18.2	55
18&21	43.2	.0	2.3	6.8	11.4	13.6	2.3	.0	.0	.0	79.5	20.5	44
TOT	73	1	4	12	22	39	14	1	1	4	171	53	224
PCT	32.6	.4	1.8	5.4	9.8	17.4	6.3	.4	.4	1.8	76.3	23.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	17.6	4.1	5.4	10.8	14.9	47.3	74
06&09	22.2	2.8	.0	6.9	26.4	41.7	72
12&15	26.7	2.7	5.3	5.3	21.3	38.7	75
18&21	30.9	1.8	3.6	16.4	23.6	23.6	55
TOT	66	8	10	26	59	107	276
PCT	23.9	2.9	3.6	9.4	21.4	38.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	25.0	28.3	40.0	38.3	21.7	60
06&09	24.2	29.0	37.1	35.5	27.4	62
12&15	40.4	42.3	53.8	30.8	15.4	52
18&21	42.9	50.0	61.9	21.4	16.7	42
TOT	69	78	101	70	45	216
PCT	31.9	36.1	46.8	32.4	20.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	5.3	5.3	2	10.5
45/49	.0	.0	.0	.0	.0	5.3	.0	.0	1	5.3
40/44	.0	.0	.0	.0	.0	.0	5.3	.0	1	5.3
35/39	.0	.0	.0	.0	.0	.0	5.3	15.8	4	21.1
30/34	.0	.0	.0	.0	.0	.0	5.3	52.6	11	57.9
TOTAL	0	0	0	0	0	1	4	14	19	100.0
PCT	.0	.0	.0	.0	.0	5.3	21.1	73.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	6.6	3.9	.0	.0	.0
	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0
	.0	.0	.0	.0	.0	.0	.0	5.3	.0	.0
	.0	5.3	5.3	.0	.0	.0	5.3	5.3	.0	.0
	5.3	5.3	9.2	18.4	14.5	.0	.0	5.3	.0	.0
	5.3	10.5	14.5	18.4	14.5	6.6	14.5	15.8	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	57	56	48	36	30	21	21	37.4	69
06&09	50	49	46	36	30	26	26	37.1	64
12&15	46	45	44	34	27	20	20	34.7	72
18&21	50	49	46	35	29	19	19	35.4	54
TOT	57	56	46	36	29	21	19	36.2	259

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	25.0	75.0	94	4
06&09	.0	.0	.0	14.3	.0	85.7	93	7
12&15	.0	.0	.0	.0	33.3	66.7	96	6
18&21	.0	.0	.0	.0	50.0	50.0	92	2
TOT	0	0	0	1	4	14	94	19

MAY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1945-1974

AREA 0019 OKHOTSK SEA SW
51.6N 147.7E

TABLE 17

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

AIR-SEA THP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.5	.0	1	.0	.5
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.5	1	.0	.5
14/16	.0	.0	.0	.0	.0	.5	.0	.0	.0	1	.0	.5
11/13	.0	.0	.0	.0	1.0	1.0	.0	.0	.0	4	1.0	1.0
9/10	.0	.0	.0	.5	.0	1.5	.5	.0	.0	5	1.0	1.5
7/8	.0	.0	.0	.5	1.5	1.0	.0	.0	.0	6	.5	2.5
6	.0	.0	.5	.5	.0	1.0	.0	.0	.0	4	.0	2.0
5	.0	.0	.0	.5	2.0	1.0	.5	.0	.0	8	1.0	3.0
4	.0	.0	2.5	5.9	.5	.0	.0	.0	.0	18	1.5	7.4
3	.0	.0	1.0	1.5	.0	.5	.0	.0	.0	6	1.5	1.5
2	.0	.0	5.9	3.5	1.0	.0	.5	.0	.0	22	2.5	8.4
1	.0	2.0	3.0	3.0	.5	.0	.0	.0	.0	17	1.5	6.9
0	.0	3.0	6.9	1.5	1.5	.5	.0	.0	.0	27	6.4	6.9
-1	.0	2.0	4.5	3.0	.5	.0	.0	.0	.0	20	3.5	6.4
-2	.0	2.0	5.4	1.5	.0	.0	.0	.0	.0	18	3.5	5.4
-3	.0	1.5	2.5	1.0	.0	.0	.0	.0	.0	10	.5	4.5
-4	.5	2.0	2.0	.0	.0	.0	.0	.0	.0	9	1.0	3.5
-5	.5	2.5	1.0	.0	.5	.0	.0	.0	.0	9	1.0	3.5
-6	.5	1.5	1.0	1.0	.0	.0	.0	.0	.0	8	1.5	2.5
-7/-8	1.0	.5	2.0	.0	.0	.0	.0	.0	.0	7	3.5	.0
-9/-10	.0	.5	.0	.0	.0	.0	.0	.0	.0	.	.0	.5
TOTAL	5		77		18		3		1	202	63	139
		35		48		14		1				
PCT	2.5	17.3	38.1	23.8	8.9	6.9	1.5	.5	.5	100.0	31.2	68.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.5	.9	1.9	.0	.0	.0	3.4
3-4	.0	.0	1.9	.0	.0	.0	1.9
5-6	.0	.0	1.2	2.0	.0	.0	3.2
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.5	5.5	2.6	.0	.0	10.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	.7
1-2	.0	.9	2.2	.0	.0	.0	3.1
3-4	.0	.7	.8	.0	.0	.0	1.5
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.5	.1	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.5	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	5.8	.3	.5	.0	8.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.4	.0	.0	.0	.0	3.0
1-2	.0	1.8	2.6	.0	.0	.0	4.3
3-4	.0	.9	1.4	.5	.0	.0	2.8
5-6	.0	.0	.4	.5	.0	.0	.9
7	.0	.5	.0	.4	.0	.0	.9
8-9	.0	.0	.4	.9	.0	.0	1.4
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.7	4.7	2.8	.0	.0	13.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	1.4	.0	.0	.0	.0	2.4
1-2	.0	1.9	3.2	.0	.0	.0	5.1
3-4	.0	1.6	2.8	.5	.0	.0	5.0
5-6	.0	.0	1.8	.5	.0	.0	2.3
7	.0	.0	1.2	.1	.0	.0	1.4
8-9	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.9	9.7	1.4	.0	.0	17.0

PERIOD: (OVER-ALL) 1963-1974

AREA 0019 OKHOTSK SEA SW
51.6N 147.7E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.5	.0	.0	.0	2.6
1-2	.0	1.9	2.7	.0	.0	.0	4.6
3-4	.0	.9	1.6	.5	.0	.0	3.1
5-6	.0	.0	2.6	.4	.0	.0	3.0
7	.0	.0	.4	.4	.0	.0	.8
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	8.8	1.9	.0	.0	15.5

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	1.1	.0	.0	.0	1.6
1-2	.0	1.2	1.2	.0	.0	.0	2.4
3-4	.0	.7	2.2	.0	.0	.0	2.8
5-6	.0	.0	1.8	.1	.0	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.5	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	6.4	.7	.0	.0	9.5

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	.4	1.6	.0	.0	.0	2.0
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	2.2	.0	.0	.0	3.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.8	1.4	.0	.0	.0	3.1	
3-4	.0	.5	1.8	.0	.0	.0	2.3	
5-6	.0	.0	.8	.7	.0	.0	1.5	
7	.0	.0	.5	.0	.0	.0	.5	
8-9	.0	.0	1.1	.5	.0	.0	1.6	
10-11	.0	.0	.5	.0	.5	.0	1.1	
12	.0	.0	.0	.0	.5	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.3	6.1	1.2	1.1	.0	10.7	89.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.4	8.6	1.6	.0	.0	.0	22.7	
1-2	.5	10.8	16.8	.0	.0	.0	28.1	
3-4	.0	5.4	13.0	1.6	.0	.0	20.0	
5-6	.0	.0	10.8	4.3	.0	.0	15.1	
7	.0	.5	3.2	1.1	.0	.0	4.9	
8-9	.0	.0	3.2	2.2	.0	.0	5.4	
10-11	.0	.0	.5	1.1	1.1	.0	2.7	
12	.0	.0	.0	.5	.5	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.0	25.4	49.2	10.8	1.6	.0	100.0	185

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.6	15.1	5.9	2.9	2.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.4	3.3	5.0	3.3	2.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
8-9	.0	.4	5.0	1.7	1.7	.8	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
10-11	.0	2.5	.0	.4	1.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
12-13	.0	.0	.8	.4	.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6
>13	.0	.0	.0	.4	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	9.6	3.3	3.8	3.8	1.7	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	3
TOTAL	23	46	67	42	30	16	12	3	0	0	0	0	0	0	0	0	0	0	0	239	4
PCT	9.6	19.2	28.0	17.6	12.6	6.7	5.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0019 OKHOTSK SEA SW
51.0N 147.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	8.8	.0	7.8	.0	2.0	.0	.0	16.6	1.4	.0	42.2	2.7	1.4		.0	35.8
NE	6.9	.0	5.7	.0	.3	.0	.0	12.7	3.6	.0	34.3	1.2	1.2		.0	47.0
E	6.2	.0	12.8	.0	.0	.0	.0	19.0	2.9	.0	36.1	.0	2.9		.0	39.1
SE	5.4	.9	4.3	.0	.0	.0	.0	10.6	.4	.0	49.6	.9	.0		.0	38.6
S	1.6	.0	1.7	.0	.0	.0	.0	3.3	1.6	.0	63.5	.0	.5		.0	31.1
SW	1.2	.0	.0	.0	.0	.0	.0	1.2	4.9	.0	44.5	.0	.4		.0	49.0
W	8.8	.0	8.8	.0	.0	.0	.0	17.6	3.2	.0	41.6	3.2	.0		.0	34.4
NW	2.9	.0	14.6	.0	.6	.0	.0	17.5	.0	.0	31.0	4.7	.0		.0	46.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	2.7	.0	2.7	.0	.0	.0	.0	5.4	.0	.0	45.9	.0	.0		.0	48.6
TOT PCT	4.6	.1	5.5	.0	.3	.0	.0	10.3	1.9	.0	46.6	1.0	.7		.0	39.4
TOT OBS:	672															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	3.9	.0	4.4	.0	.5	.0	.0	8.4	1.0	.0	47.8	1.0	2.0		.0	39.9
06&09	2.4	.0	5.9	.0	.0	.0	.0	8.3	2.4	.0	46.2	.6	.6		.0	42.0
12&15	6.4	.5	4.0	.0	.0	.0	.0	10.9	1.0	.0	43.6	2.5	.5		.0	41.6
18&21	7.4	.0	8.1	.0	.7	.0	.0	15.4	4.0	.0	48.3	.0	.0		.0	32.2
TOT PCT	5.0	.1	5.4	.0	.3	.0	.0	10.5	1.9	.0	46.3	1.1	.8		.0	39.3
TOT OBS:	723															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.7	6.0	3.1	1.2	.0	.0		11.0	11.2	11.8	10.7	8.9	7.7	7.3	14.3	18.7	.0
NE	.5	5.5	5.0	.4	.0	.0		11.4	10.7	11.3	4.8	9.4	7.7	10.3	35.7	14.2	7.7
E	.7	3.8	4.0	.6	.0	.0		9.2	11.5	10.9	6.0	4.4	15.4	11.7	3.6	10.4	7.7
SE	.7	7.7	9.6	1.7	.2	.0		18.8	11.8	17.6	19.0	23.7	19.2	20.6	7.1	11.7	32.7
S	1.2	7.8	13.4	1.2	.2	.0		23.8	12.7	22.4	29.8	23.5	32.7	24.3	25.0	21.4	36.5
SW	.5	4.9	3.9	.4	.0	.0		9.1	11.2	10.5	10.7	11.3	9.6	7.4	10.7	6.1	7.7
W	.0	2.2	2.8	.3	.0	.0		5.3	12.4	6.1	.0	6.3	5.8	4.6	.0	5.4	7.7
NW	.2	2.2	3.2	.5	.0	.0		6.1	12.7	5.4	14.3	5.7	1.9	7.8	3.6	5.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	3.9	4.8	6.7	.0	6.1	.0	7.2	.0
TOT OBS	60	243	264	38	2	0	607		11.4	152	21	135	13	148	14	111	13
TOT PCT	9.9	40.0	43.5	6.3	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.1	5.8	1.7	.3	.0		11.0	11.2	11.7	8.8	7.9	16.7
NE	3.5	5.7	2.1	.0	.0		11.4	10.7	10.5	9.3	12.5	13.5
E	2.6	5.2	1.1	.3	.0		9.2	11.5	10.3	5.4	11.0	10.1
SE	4.0	10.0	4.2	.5	.2		18.8	12.8	17.8	23.3	19.4	13.9
S	4.5	13.3	5.5	.3	.2		23.8	12.7	23.3	24.3	24.4	23.0
SW	1.6	5.5	1.9	.0	.0		9.1	11.2	10.5	11.1	7.7	6.3
W	.8	3.3	1.2	.0	.0		5.3	12.4	5.3	6.3	4.2	5.6
NW	1.6	3.1	1.0	.3	.0		6.1	12.7	6.5	5.4	7.4	4.4
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	4.0	6.1	5.6	6.5
TOT OBS	165	316	113	11	2	607		11.4	173	148	162	124
TOT PCT	27.2	52.1	18.6	1.8	.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	5.8	42.2	41.6	6.4	.0	.0	11.3	100.0	173
06&09	6.1	2.0	31.1	54.7	5.4	.7	.0	12.3	100.0	148
12&15	5.6	4.3	43.2	40.1	6.2	.6	.0	11.4	100.0	162
18&21	6.5	5.6	43.5	37.1	7.3	.0	.0	10.4	100.0	124
TOT	33	27	243	264	38	2	0	11.4		607
PCT	5.4	4.4	40.0	43.5	6.3	.3	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.2	2.0	8.7		7.0
NE	.7	.0	2.2	8.6		7.2
E	.5	.5	.8	9.2		7.3
SE	.9	.6	1.6	14.4		7.3
S	2.9	.8	1.3	18.0		6.8
SW	1.8	.8	.7	6.1		6.0
W	.6	.3	.5	2.8		6.3
NW	.6	.0	.4	4.4		7.0
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.2	4.6		6.6
TOT OBS	54	19	53	419	545	6.9
TOT PCT	9.9	3.5	9.7	76.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	5.5	.0	.3	.6	1.4	1.7	.6	.0	.0	.2	1.5	
NE	3.2	.0	*	1.3	3.1	1.9	.6	.2	.0	.2	1.1	
E	4.4	.0	.1	.7	1.8	2.0	.4	.0	.0	.2	1.4	
SE	8.1	.0	.0	1.4	1.0	3.9	.8	.3	.0	.2	1.9	
S	11.7	.2	.4	1.2	1.7	2.2	.6	.5	.2	.4	3.9	
SW	3.9	.0	.2	.0	.6	1.7	.3	.0	.0	.0	2.7	
W	1.6	.0	.0	.0	.8	.3	.3	.0	.0	.0	1.3	
NW	1.6	.0	.6	.6	1.3	.7	.0	.0	.0	.0	.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.9	.0	.0	.2	.4	.7	.4	.0	.0	.2	1.1	
TOT OBS	234	1	9	32	67	83	21	5	1	7	85	545
TOT PCT	42.9	.2	1.7	5.9	12.3	15.2	3.9	.9	.2	1.3	15.6	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.2	1.2	1.2	1.2	1.2	1.4	1.4
* OR >5000	1.2	1.7	1.9	1.9	1.9	1.9	2.1	2.1
* OR >3500	2.6	3.8	5.0	5.0	5.0	5.2	5.6	5.7
* OR >2000	9.9	16.7	19.6	19.8	20.0	20.3	20.8	21.0
* OR >1000	13.0	23.6	29.7	30.6	31.1	31.6	32.5	32.6
* OR >600	13.4	25.2	34.4	36.3	37.2	37.8	38.7	38.9
* OR >300	13.7	25.7	35.2	37.7	38.5	39.2	40.1	40.3
* OR >150	13.7	25.9	35.4	37.8	38.7	39.4	40.3	40.5
* OR > 0	13.9	27.4	37.8	42.0	45.0	60.1	81.4	84.7
TOTAL	80	158	218	242	259	346	469	488

TOTAL NUMBER OF OBS: 576 PCT FREQ NH <5/8: 15.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
8.8	2.3	2.1	.7	1.8	2.0	2.8	3.6	34.7 41.4	614

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.3	.4	.1	.1	.1	.0	.2	.0	.0	1.2	
<1/2	NO PCP	4.4	2.8	3.2	7.1	11.0	3.5	1.7	1.4	.0	2.0	37.1	
	TOT %	4.6	3.1	3.6	7.2	11.1	3.6	1.7	1.5	.0	2.0	38.3	
	PCP	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.8	
1/2<1	NO PCP	.3	.3	.0	.3	1.1	.2	.0	*	.0	.2	2.3	
	TOT %	.3	.3	.0	.4	1.2	.2	.5	*	.0	.2	3.0	
	PCP	.5	.2	.1	.2	.0	.0	.0	.4	.0	.2	1.5	
1<2	NO PCP	.0	.5	.6	.3	.3	.0	.0	.3	.0	.2	2.1	
	TOT %	.5	.6	.8	.5	.3	.0	.0	.7	.0	.3	3.6	
	PCP	.8	.5	.4	.8	.4	.0	.3	.4	.0	.0	3.6	
2<5	NO PCP	.5	1.4	1.1	1.6	2.3	.2	.4	.2	.0	.6	8.1	
	TOT %	1.2	1.9	1.5	2.4	2.7	.2	.7	.6	.0	.6	11.7	
	PCP	.4	.6	1.1	.6	.2	*	.1	.2	.0	.2	3.3	
5<10	NO PCP	1.7	1.4	1.7	1.8	3.4	2.0	.4	1.5	.0	.9	14.7	
	TOT %	2.0	2.0	2.8	2.4	3.5	2.1	.5	1.7	.0	1.1	18.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	2.5	4.6	1.7	4.5	4.3	3.1	1.4	1.8	.0	1.5	25.4	
	TOT %	2.5	4.6	1.7	4.5	4.3	3.1	1.4	1.8	.0	1.5	25.4	
	TOT OBS												666
	TOT PCT	11.1	12.5	10.3	17.4	23.1	9.1	4.7	6.3	.0	5.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.5	*	.2	.3	.8	.C	.0	.2	.0	1.9	3.9	
<1/2	4-10	3.2	1.9	1.4	3.7	3.6	2.7	1.0	.4	.0		17.8	
	11-21	.6	.9	1.8	4.8	7.1	1.4	.9	1.1	.0		18.5	
	22+	.3	.0	.2	.4	1.0	.0	.0	*	.0		1.9	
	TOT %	4.5	2.9	3.5	9.2	12.5	4.1	1.9	1.7	.0	1.9	42.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	4-10	.2	.2	.0	*	.3	.0	.0	.0	.0		.7	
	11-21	.0	.2	.0	.0	.2	.0	.2	.0	.0		.5	
	22+	.0	.0	.0	.2	.2	.0	.2	.0	.0		.5	
	TOT %	.2	.3	.0	.2	.6	.0	.3	.0	.0	.2	1.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	4-10	.3	.0	.3	.0	.0	.0	.0	.3	.0		1.0	
	11-21	.2	.5	.3	.6	.0	.0	.0	.2	.0		1.7	
	22+	.1	.0	.0	.0	.0	.2	.0	*	.0		.3	
	TOT %	.6	.5	.6	.6	.0	.2	.0	.5	.0	.2	3.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	
2<5	4-10	.3	.7	.2	.9	1.1	.2	.2	.2	.0		3.7	
	11-21	.4	.8	.5	1.3	1.6	.0	.4	.3	.0		5.2	
	22+	.5	.0	.2	.3	.0	.0	.2	.2	.0		1.3	
	TOT %	1.3	1.4	.8	2.5	2.7	.2	.8	.6	.0	.5	10.8	
	0-3	.0	.3	.4	.2	.2	.3	.0	.0	.0	1.2	2.5	
5<10	4-10	.9	.4	1.1	1.1	1.1	.8	.0	.6	.0		5.9	
	11-21	1.1	1.3	1.0	.5	1.9	.7	.5	1.0	.0		7.9	
	22+	.1	.0	.2	.7	.2	.2	.0	*	.0		1.3	
	TOT %	2.1	1.9	2.7	2.4	3.3	1.9	.5	1.6	.0	1.2	17.7	
	0-3	.3	.2	.0	.2	.2	.2	.0	.1	.0	1.5	2.5	
10+	4-10	1.2	2.5	1.0	1.9	1.7	1.3	.9	.8	.0		11.3	
	11-21	.9	1.5	.6	1.5	2.3	1.2	.7	.7	.0		9.4	
	22+	.2	.2	.1	.3	.1	*	.0	.2	.0		1.2	
	TOT %	2.5	4.4	1.7	4.0	4.3	2.7	1.6	1.7	.0	1.5	24.4	
	TOT OBS												594
	TOT PCT	11.2	11.4	9.3	18.8	23.4	9.2	5.1	6.2	.0	5.4	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	44.3	.0	1.8	4.8	10.8	11.4	5.4	.0	.0	.0	78.4	21.6	167
06&09	35.4	.7	2.8	7.6	16.7	13.9	4.9	1.4	.0	1.4	84.7	15.3	144
12&15	45.6	.0	1.3	3.8	8.8	18.8	2.5	1.9	.0	.6	83.1	16.9	160
18&21	49.6	.0	.0	9.2	10.9	16.0	.8	.0	.8	3.4	90.8	9.2	119
TOT	257	1	9	36	69	88	21	5	1	7	494	96	590
PCT	43.6	.2	1.5	6.1	11.7	14.9	3.6	.8	.2	1.2	83.7	16.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	39.9	2.4	3.9	11.7	12.6	29.6	206
06&09	35.5	2.9	1.2	16.3	22.1	22.1	172
12&15	38.5	2.9	5.4	9.8	18.0	25.4	205
18&21	42.9	4.5	7.7	9.6	17.3	17.9	156
TOT	289	23	33	87	128	179	739
PCT	39.1	3.1	4.5	11.8	17.3	24.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	46.0	50.3	62.7	18.6	18.6	161
06&09	37.2	43.8	59.1	29.9	10.9	137
12&15	45.3	49.1	60.4	22.6	17.0	159
18&21	49.6	55.5	68.9	24.4	6.7	119
TOT	256	285	360	136	80	576
PCT	44.4	49.5	62.5	23.6	13.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	1.4	.0	.0	.0	1	1.4
50/54	.0	.0	.0	.0	.0	.0	.0	2.8	2	2.8
45/49	.0	.0	.0	1.4	.0	1.4	1.4	8.3	9	12.5
40/44	.0	.0	.0	.0	.0	9.7	.0	25.0	25	34.7
35/39	.0	.0	.0	.0	.0	4.2	2.8	34.7	30	41.7
30/34	.0	.0	.0	.0	.0	.0	.0	6.9	5	6.9
TOTAL	0	0	0	1	1	11	3	56	72	100.0
PCT	.0	.0	.0	1.4	1.4	15.3	4.2	77.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	.0	1.0	.3	.0	.0
	.0	.0	.0	.0	1.4	.3	1.0	.0	.0	.0
	1.4	.0	2.4	3.5	2.4	.0	1.4	1.4	.0	.0
	4.5	12.8	4.9	5.9	3.8	.0	.0	1.4	.0	1.4
	5.2	8.7	2.8	1.7	7.6	3.5	3.5	7.3	.0	1.4
	3.5	.3	1.4	.0	.0	.0	1.4	.3	.0	.0
	14.6	21.9	11.5	11.1	15.3	3.8	8.3	10.8	.0	2.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	68	61	54	42	34	32	22	42.8	204
06&09	63	59	52	43	35	32	28	43.5	172
12&15	69	55	48	41	34	32	32	41.5	200
18&21	59	51	46	41	34	25	25	40.3	149
TOT	69	59	52	41	34	30	22	42.1	725

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	25.0	.0	75.0	91	20
06&09	.0	.0	.0	14.3	9.5	76.2	94	21
12&15	.0	5.9	5.9	5.9	5.9	76.5	92	17
18&21	.0	.0	.0	13.3	6.7	80.0	95	15
TOT	0	1	1	11	4	56	93	73

JUNE

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1908-1974

AREA 0019 OKHOTSK SEA SW
51.0N 147.0E

TABLE 17

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

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	2	.3	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	5	.3	.5
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.2	.2	.2	.3	.0	5	.2	.6
11/13	.0	.0	.0	.0	.0	.5	.6	.6	.2	.2	.2	14	.9	1.3
9/10	.0	.0	.0	.0	.0	1.1	.6	.5	.3	.2	.2	18	.8	2.0
7/8	.0	.0	.0	.0	.3	1.7	1.9	.5	.3	.0	.0	30	1.6	3.2
6	.0	.0	.0	.2	.6	.2	1.1	.6	.0	.0	.0	17	1.3	1.4
5	.0	.0	.0	.2	1.1	1.6	2.5	.2	.2	.0	.0	36	2.5	3.2
4	.0	.0	.0	.5	.9	1.3	3.2	.6	.0	.0	.0	41	2.8	3.6
3	.0	.0	.0	.3	.8	2.1	1.6	.2	.0	.0	.0	31	1.7	3.2
2	.0	.0	.2	.5	2.5	4.7	4.4	.6	.0	.0	.0	82	7.3	5.7
1	.0	.0	.0	.5	1.3	3.2	1.7	.0	.0	.0	.0	42	2.4	4.3
0	.0	.0	.2	2.8	4.6	5.4	2.7	.2	.0	.0	.0	100	6.3	9.5
-1	.0	.0	.3	.0	2.8	2.2	.9	.3	.0	.0	.0	42	2.2	4.4
-2	.0	.0	.0	.9	4.1	1.9	1.6	.2	.0	.0	.0	55	4.4	4.3
-3	.0	.0	.3	.8	.8	1.3	.2	.2	.0	.0	.0	22	2.2	1.3
-4	.0	.0	.2	1.3	2.4	1.6	.5	.0	.0	.0	.0	37	3.2	2.7
-5	.0	.2	.2	.9	2.1	.3	.3	.0	.0	.0	.0	25	2.1	1.9
-6	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	3	.3	.2
-7/-8	.0	.0	.3	.6	.2	.5	.2	.0	.0	.0	.0	11	.9	.8
-9/-10	.0	.0	.0	.0	.6	.2	.2	.0	.0	.0	.0	6	.8	.2
-11/-13	.2	.5	.2	.3	.0	.2	.0	.0	.0	.0	.0	8	.8	.5
TOTAL	1	4	11	62	161	189	154	30	9	9	4	634	287	347
PCT	.2	.6	1.7	9.8	25.4	29.8	24.3	4.7	1.4	1.4	.6	100.0	45.3	54.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.4	.0	.0	.0	.0	2.1
1-2	.2	2.2	.7	.0	.0	.0	3.1
3-4	.0	.3	2.5	.3	.0	.0	3.0
5-6	.0	.3	.3	.6	.0	.0	1.1
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.3	.2	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.3	3.7	1.3	.0	.0	10.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.9	.0	.0	.0	.0	2.9
1-2	.3	.9	1.8	.0	.0	.0	3.1
3-4	.0	.3	3.2	.3	.0	.0	3.8
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.5	.3	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.2	6.5	.6	.0	.0	11.6

E

HGT	1-3	4-10	11-21	22-33	34447	48+	PCT
<1	.3	1.1	.0	.0	.0	.0	1.4
1-2	.3	2.6	2.0	.0	.0	.0	4.8
3-4	.0	.4	1.8	.2	.0	.0	2.4
5-6	.0	.3	.3	.0	.0	.0	.5
7	.0	.3	.8	.8	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.7	4.8	.9	.0	.0	10.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.2	.0	.0	.0	.0	2.5
1-2	.3	3.3	3.0	.0	.0	.0	6.5
3-4	.0	.9	3.0	1.5	.0	.0	5.4
5-6	.0	.3	.8	.3	.3	.0	1.6
7	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.0	.5	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.6	7.9	2.3	.3	.0	17.6

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0019 OKHOTSK SEA SW
51.0N 147.0E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.1	.0	.0	.0	.0	2.3	.3	1.3	.3	.0	.0	.0	1.8
1-2	.3	4.5	3.2	.0	.0	.0	7.9	.0	3.0	1.1	.0	.0	.0	4.1
3-4	.0	.9	5.5	.0	.0	.0	6.4	.0	.6	1.2	.3	.0	.0	2.0
5-6	.0	.0	3.4	.3	.0	.0	3.7	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	1.4	.7	.0	.0	2.1	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.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	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	7.7	13.5	1.2	.0	.0	22.9	.3	4.8	3.7	.3	.0	.0	9.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.1	1.3	.0	.0	.0	.0	1.4	
1-2	.0	.7	.7	.0	.0	.0	1.4	.0	.0	.8	.0	.0	.0	.8	
3-4	.0	.2	1.6	.3	.0	.0	2.0	.0	.0	1.5	.0	.0	.0	1.5	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.1	.6	.0	.0	1.7	
7	.0	.0	.2	.3	.0	.0	.4	.0	.3	.5	.0	.0	.0	.8	
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	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.9	2.6	.5	.0	.0	5.0	.1	1.6	3.8	.7	.0	.0	6.2	93.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	13.4	.3	.0	.0	.0	21.9	
1-2	1.3	17.1	13.4	.0	.0	.0	31.7	
3-4	.0	3.5	20.2	2.8	.0	.0	26.4	
5-6	.0	.8	7.1	1.8	.3	.0	9.8	
7	.0	.8	4.3	2.0	.0	.0	7.1	
8-9	.0	.3	1.3	.5	.0	.0	2.0	
10-11	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.6	35.8	46.6	7.8	.3	.0	100.0	397

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	16.2	14.3	5.8	3.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	236	3
6-7	.0	1.2	4.0	3.7	2.8	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	5
8-9	.0	.9	1.4	2.1	.5	1.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	5
10-11	.0	1.4	.2	.4	.5	.4	.4	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	.7	.2	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	7.4	4.9	12.0	4.9	3.0	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	190	3
TOTAL	47	140	185	97	61	22	8	4	3	0	0	1	0	0	0	0	0	0	0	568	4
PCT	8.3	24.6	32.6	17.1	10.7	3.9	1.4	.7	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1885-1974

AREA 0019 OKHOTSK SEA SW
91.9N 146.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.0	.0	9.6	.0	.0	.0	.0	14.6	1.2	.0	28.0	.0	.0	.0		56.2
NE	5.6	.0	5.1	.0	.0	.0	.0	10.7	.5	.0	40.7	.0	.0	.0		48.1
E	3.9	.0	3.6	.0	.0	.0	.0	7.5	2.2	.0	44.1	1.1	.0	.0		45.2
SE	3.7	.7	6.7	.0	.0	.0	.0	11.1	1.9	1.5	43.1	.9	.9	.2		40.4
S	2.4	.0	5.2	.0	.0	.0	.0	7.6	1.3	.6	45.5	1.0	.8	.4		42.8
SW	3.5	.0	5.2	.0	.0	.0	.0	8.7	3.5	.0	40.2	.3	.3	.0		46.9
W	.0	.0	4.6	.0	.0	.0	.0	4.6	2.8	.0	42.1	2.2	.0	.0		48.3
NW	1.7	.0	4.3	.0	.0	.0	.0	6.0	.4	.0	28.3	5.6	.0	.0		59.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	1.3	.0	.0	.0	.0	1.3	1.3	.0	48.0	2.7	1.3	.0		45.3
TOT PCT	2.8	.1	5.3	.0	.0	.0	.0	8.2	1.7	.4	41.1	1.3	.5	.1		46.7
TOT OBS:	816															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	2.3	.0	5.4	.0	.0	.0	.0	7.8	.8	.4	46.3	1.9	.4	.4		42.0
06&09	2.5	.0	1.0	.0	.0	.0	.0	3.5	1.5	.0	37.2	2.0	1.5	.0		54.3
12&15	.4	.0	7.7	.0	.0	.0	.0	8.1	2.6	.4	39.3	1.3	.0	.0		48.3
18&21	7.1	.5	7.7	.0	.0	.0	.0	15.3	1.6	.5	42.6	.0	.5	.0		39.3
TOT PCT	2.9	.1	5.5	.0	.0	.0	.0	8.5	1.6	.3	41.6	1.4	.6	.1		45.9
TOT OBS:	873															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	5.4	3.6	.2	.0	.0		9.8	10.4	5.3	10.4	9.6	11.7	10.5	5.7	10.5	13.7
NE	.3	4.7	1.6	.2	.0	.0		6.7	9.2	11.0	3.7	7.0	3.1	6.0	.0	5.7	3.2
E	1.1	4.6	2.5	.1	.0	.0		8.3	8.9	10.7	6.1	5.6	1.6	9.3	4.3	10.5	8.1
SE	1.0	8.2	6.0	1.1	.0	.0		16.2	11.1	16.7	32.9	14.2	20.3	14.5	18.6	11.6	22.6
S	1.4	11.1	8.2	1.5	.1	.0		22.3	11.0	17.2	22.0	25.3	28.1	24.8	25.7	21.6	17.7
SW	.7	5.1	3.9	.5	*	.0		10.2	10.7	10.1	1.2	10.6	4.7	8.2	12.9	16.0	9.7
W	1.0	6.7	3.4	.3	.0	.0		11.5	9.5	10.4	13.2	9.1	18.8	13.7	20.0	7.1	14.5
NW	.3	2.3	2.3	.7	.0	.0		5.5	12.9	7.2	3.7	7.3	5.5	3.7	4.3	4.8	4.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.4							9.4	.0	8.3	4.9	11.3	6.3	9.3	8.6	12.2	6.5
TOT OBS	120	367	240	35	1	0	763		9.5	180	41	151	32	162	35	131	31
TOT PCT	15.7	48.1	31.5	4.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	3.3	5.0	1.4	.0	.0		9.8	10.4	8.7	10.0	9.6	11.1
NE	2.1	4.3	.4	.0	.0		6.7	9.2	9.6	6.3	4.9	5.2
E	3.1	4.7	.5	.0	.0		8.3	8.9	9.8	4.9	8.4	10.0
SE	5.0	7.5	3.6	.1	.0		16.2	11.1	19.7	15.3	15.2	13.7
S	6.5	10.6	5.1	.1	.0		22.3	11.0	18.1	25.8	25.0	20.8
SW	2.9	5.5	1.6	.2	.0		10.2	10.7	8.5	9.6	9.0	14.8
W	4.0	6.2	1.2	.1	.0		11.5	9.5	11.3	10.8	14.8	8.5
NW	1.4	2.6	1.3	.3	.0		5.5	12.9	6.6	7.0	3.8	4.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	9.4						9.4	.0	7.7	10.4	9.1	11.1
TOT OBS	288	354	115	6	0	763		9.5	221	183	197	162
TOT PCT	37.7	46.4	15.1	.8	.0		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1885-1974

AREA 0019 OKHOTSK SEA SW
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.7	7.7	51.1	29.0	4.1	.5	.0	9.4	100.0	221
06&09	10.4	6.6	43.7	33.9	5.5	.0	.0	10.0	100.0	183
12&15	9.1	6.1	48.2	31.5	5.1	.0	.0	9.5	100.0	197
18&21	11.1	4.3	48.8	32.1	3.7	.0	.0	9.1	100.0	162
TOT	72	48	367	240	35	1	0	9.5		763
PCT	9.4	6.3	48.1	31.5	4.6	.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.6	.5	1.2	7.8		7.1
NE	.6	.6	.2	5.8		6.9
E	.0	.1	1.0	7.6		7.7
SE	1.4	.2	1.7	11.9		7.0
S	2.5	1.1	2.2	15.9		6.7
SW	1.2	.6	1.1	7.6		6.8
W	.8	.7	1.4	5.9		6.5
NW	.5	.2	.8	6.4		7.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.3	1.3	7.5		6.7
TOT OBS	55	27	69	474	625	6.9
TOT PCT	8.8	4.3	11.0	75.8	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.3	.0	.0	.5	1.9	2.7	.3	.0	.0	.0	1.5	
NE	3.3	.2	.1	.0	.7	1.2	.2	.2	.2	.0	1.4	
E	4.0	.0	.2	.4	1.3	1.8	.4	.2	.2	.0	.2	
SE	5.4	.0	.2	.2	2.2	3.0	1.0	.3	.3	.2	2.3	
S	8.1	.0	.2	.6	3.1	4.0	.9	.2	.2	.0	4.6	
SW	3.6	.0	.2	.4	1.7	1.6	.6	.0	.5	.0	2.0	
W	3.2	.0	.1	.0	.3	1.7	.6	.3	.0	.0	2.0	
NW	1.9	.0	.0	.5	1.8	2.0	.6	.0	.0	.0	1.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.6	.0	.2	.0	.8	2.4	.3	.0	.2	.2	1.6	
TOT OBS	234	1	7	16	86	128	30	7	9	2	105	625
TOT PCT	37.4	.2	1.1	2.6	13.8	20.5	4.8	1.1	1.4	.3	16.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.5	1.8	1.8	1.8	1.8	1.8	1.8
* OR >5000	2.0	2.4	2.9	3.0	3.0	3.0	3.0	3.0
* OR >3500	5.0	5.8	6.8	7.3	7.3	7.3	7.3	7.3
* OR >2000	12.3	21.5	24.7	25.6	25.7	25.9	25.9	26.0
* OR >1000	15.7	31.1	37.4	38.7	39.1	39.7	39.7	39.9
* OR >600	16.0	32.6	39.7	40.9	41.6	42.2	42.2	42.3
* OR >300	16.1	33.0	40.6	42.0	42.6	43.2	43.2	43.4
* OR >150	16.1	33.0	40.8	42.2	42.8	43.4	43.4	43.5
* OR > 0	16.3	35.2	45.5	47.9	51.8	63.6	79.8	82.6
TOTAL	107	231	299	315	340	418	524	543

TOTAL NUMBER OF OBS: 657 PCT FREQ NH <5/8: 17.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.2	1.2	1.7	2.0	1.9	1.7	3.5	4.2	35.8 37.8	693

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1885-1974

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.0	.4	.4	.0	.1	.0	.0	.0	1.0	
<1/2	NO PCP	2.1	2.0	3.2	5.0	7.0	2.9	2.9	.9	.0	2.6	28.7	
	TOT %	2.1	2.2	3.2	5.4	7.4	2.9	3.1	.9	.0	2.6	29.7	
	PCP	.0	.0	.1	*	.1	*	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.2	*	.1	.6	.7	.4	.4	.3	.0	1.0	3.8	
	TOT %	.2	*	.2	.6	.8	.5	.4	.3	.0	1.0	4.1	
	PCP	.2	.0	.1	.0	.1	.4	.0	.1	.0	.0	.9	
1<2	NO PCP	.1	.1	.2	.6	.3	*	.1	.3	.0	.2	2.0	
	TOT %	.3	.1	.3	.6	.4	.4	.1	.3	.0	.2	2.8	
	PCP	.7	.4	.1	.6	.5	.2	.3	.0	.0	.0	2.8	
2<5	NO PCP	.9	.6	1.0	.6	1.9	.9	.6	.9	.0	.5	7.9	
	TOT %	1.6	1.0	1.1	1.2	2.4	1.1	1.0	.9	.0	.5	10.8	
	PCP	.4	.0	.3	.6	.4	.2	.0	.4	.0	.1	2.5	
5<10	NO PCP	1.7	1.3	2.0	3.7	3.2	1.7	2.3	2.1	.0	1.2	19.3	
	TOT %	2.1	1.3	2.4	4.4	3.6	1.9	2.3	2.4	.0	1.4	21.8	
	PCP	.2	.2	.0	.2	.2	.1	.0	.0	.0	.0	.9	
10+	NO PCP	3.3	1.8	1.5	4.3	7.0	3.6	3.0	2.0	.0	3.6	30.0	
	TOT %	3.5	1.9	1.5	4.5	7.1	3.8	3.0	2.0	.0	3.6	30.9	
	TOT OBS												809
	TOT PCT	9.7	6.6	8.6	16.7	21.8	10.6	9.8	6.9	.0	9.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.1	.6	.3	.5	.3	.6	.0	.0	2.6	5.2	
<1/2	4-10	1.6	1.9	1.6	3.1	3.1	1.1	3.3	.5	.0		16.3	
	11-21	.5	.3	.9	1.8	2.7	1.2	1.0	.5	.0		8.9	
	22+	.1	.1	.0	.5	.7	.2	.0	.0	.0		1.6	
	TOT %	2.4	2.5	3.2	5.7	7.1	2.8	4.9	1.0	.0	2.6	32.0	
	0-3	.0	.0	.0	.1	.3	.0	.1	.0	.0	1.1	1.6	
1/2<1	4-10	.2	.0	.1	.3	.6	.2	.4	.1	.0		2.0	
	11-21	.0	*	.1	.0	.1	.0	.0	.1	.0		.4	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0		.1	
	TOT %	.2	*	.2	.4	1.0	.4	.6	.2	.0	1.1	4.2	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.4	
1<2	4-10	.2	.0	.1	.2	.2	.2	.1	.2	.0		1.2	
	11-21	.0	.1	.0	.3	.2	.1	.0	.0	.0		.8	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.2	.1	.3	.5	.5	.3	.1	.2	.0	.3	2.6	
	0-3	.0	.1	.0	.0	.1	*	.0	.0	.0	.7	.9	
2<5	4-10	.9	.7	.6	.7	.9	.5	.4	.2	.0		5.0	
	11-21	.7	.2	.5	.6	1.5	.3	.2	.2	.0		4.3	
	22+	.1	*	.0	.1	.3	*	.1	.0	.0		.7	
	TOT %	1.7	1.1	1.1	1.5	2.8	.9	.7	.4	.0	.7	10.9	
	0-3	.0	.0	.3	.2	.2	.0	.0	.1	.0	1.3	2.2	
5<10	4-10	.8	.8	1.1	1.6	1.8	.6	1.2	.6	.0		8.7	
	11-21	1.0	.6	.7	2.1	1.3	1.1	1.0	.9	.0		8.7	
	22+	.0	.0	.0	.2	.3	.2	.1	.4	.0		1.2	
	TOT %	1.8	1.4	2.2	4.1	3.7	1.9	2.4	2.0	.0	1.3	20.8	
	0-3	.4	.1	.1	.3	.4	.3	.2	.1	.0	3.5	5.4	
10+	4-10	1.6	1.3	1.2	2.4	4.2	2.4	1.4	.8	.0		15.3	
	11-21	1.4	.3	.2	1.3	2.4	1.2	1.1	.5	.0		8.5	
	22+	.0	.0	.0	.2	.1	.0	.0	.1	.0		.4	
	TOT %	3.4	1.7	1.5	4.2	7.0	3.9	2.8	1.5	.0	3.5	29.6	
	TOT OBS												744
	TOT PCT	9.8	6.9	8.5	16.3	22.1	10.2	11.4	5.3	.0	9.4	100.0	

JULY

PERIOD: (PRIMARY) 1957-1974
(OVER-ALL) 1885-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	45.3	.0	1.5	2.0	13.4	17.9	4.0	1.0	1.5	.5	87.1	12.9	201
06&09	31.7	.6	1.2	1.8	12.6	25.1	4.8	.6	.6	.6	79.6	20.4	167
12&15	37.1	.0	1.2	3.6	10.2	15.8	3.6	1.8	3.0	.0	77.2	22.8	167
18&21	39.4	.0	.0	2.1	19.7	16.9	5.6	1.4	.7	.0	85.9	14.1	142
TOT	262	1	7	16	93	130	30	8	10	2	559	118	677
PCT	38.7	.1	1.0	2.4	13.7	19.2	4.4	1.2	1.5	.3	82.6	17.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	34.2	4.8	3.3	10.8	17.1	29.7	269
06&09	28.8	4.7	1.9	10.4	18.9	35.4	212
12&15	29.2	3.4	2.5	12.3	24.2	28.4	236
18&21	32.2	6.0	3.3	13.1	25.7	19.7	183
TOT	281	42	25	104	190	258	900
PCT	31.2	4.7	2.8	11.6	21.1	28.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	45.7	50.8	58.4	31.5	10.2	197
06&09	32.5	35.0	44.8	35.6	19.6	163
12&15	37.8	41.5	53.0	26.8	20.1	164
18&21	39.8	40.6	58.6	30.1	11.3	133
TOT	258	279	353	204	100	657
PCT	39.3	42.5	53.7	31.1	15.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	1.4	.0	.0	.0	.0	1	1.4
55/59	.0	.0	1.4	.0	.0	1.4	2.7	2.7	6	8.2
50/54	.0	.0	.0	1.4	1.4	6.8	1.4	34.2	33	45.2
45/49	.0	.0	.0	.0	1.4	4.1	1.4	27.4	25	34.2
40/44	.0	.0	.0	.0	.0	1.4	.0	9.6	8	11.0
TOTAL	0	0	1	2	2	10	4	54	73	100.0
PCT	.0	.0	1.4	2.7	2.7	13.7	5.5	74.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0
	.0	1.4	1.4	.0	1.4	2.7	1.4	.0	.0	.0
	8.9	4.1	2.1	4.5	11.3	6.5	2.4	2.7	.0	2.7
	8.2	1.7	2.4	4.8	7.9	1.7	3.8	2.4	.0	1.4
	1.4	2.7	.0	1.4	.0	.0	.0	5.5	.0	.0
	18.5	9.9	5.8	10.6	20.5	12.3	7.5	10.6	.0	4.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	73	68	61	50	41	36	32	50.1	265
06&09	75	69	63	51	43	39	34	51.6	213
12&15	66	64	57	48	41	38	37	48.8	232
18&21	66	59	56	48	39	32	32	48.3	189
TOT	75	66	59	50	41	37	32	49.7	899

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	9.1	13.6	9.1	68.2	90	22
06&09	.0	12.5	.0	12.5	6.3	68.8	87	16
12&15	.0	5.3	.0	10.5	5.3	78.9	93	19
18&21	.0	.0	.0	17.6	.0	82.4	95	17
TOT	0	3	2	10	4	55	91	74

JULY

PERIOD: (PRIMARY) 1957-1974
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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 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.3	5	.3	.4
23/25	.0	.0	.0	.0	.0	.0	.0	.4	.0	.1	.1	.0	5	.1	.5
20/22	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	6	.5	.3
17/19	.0	.0	.0	.0	.0	.4	.0	.0	.3	.1	.1	.0	7	.3	.7
14/16	.0	.0	.0	.0	.0	.1	.1	.1	.4	.3	.0	.0	8	.7	.4
11/13	.0	.0	.0	.1	.4	.1	.4	1.2	1.0	.1	.0	.1	26	1.2	2.3
9/10	.0	.0	.0	.0	.5	.3	1.1	1.1	.0	.1	.0	.0	23	1.1	2.0
7/8	.0	.0	.0	.0	.3	.7	1.8	.3	.5	.0	.0	.0	26	1.4	2.2
6	.0	.0	.0	.0	.1	.5	.7	.3	.0	.0	.0	.0	12	1.0	.7
5	.0	.0	.0	.1	2.5	1.8	1.6	.7	.0	.0	.0	.0	49	2.6	4.1
4	.0	.0	.0	.8	2.9	2.7	1.6	.4	.1	.0	.0	.0	63	3.1	5.5
3	.0	.0	.0	.5	1.4	1.6	1.1	.1	.3	.0	.0	.0	37	1.8	3.3
2	.0	.0	.0	.5	6.3	3.8	2.9	.0	.0	.0	.0	.0	99	5.7	7.8
1	.0	.0	.0	.4	1.6	3.4	.8	.1	.0	.0	.0	.0	47	2.6	3.8
0	.0	.3	.0	3.1	4.4	4.6	1.6	.1	.0	.0	.0	.0	104	5.9	8.3
-1	.0	.0	.0	1.1	1.1	3.0	.4	.0	.0	.0	.0	.0	41	1.4	4.2
-2	.0	.0	.3	1.1	4.6	1.9	.4	.0	.0	.0	.0	.0	61	3.7	4.6
-3	.0	.0	.1	.4	.8	.5	.1	.0	.0	.0	.0	.0	15	.7	1.4
-4	.0	.0	.5	.1	2.0	1.2	.4	.0	.0	.0	.0	.0	32	1.4	3.0
-5	.0	.1	.1	.4	1.0	.7	.4	.0	.0	.0	.0	.0	20	1.0	1.8
-6	.0	.0	.1	.1	.3	.3	.0	.0	.0	.0	.0	.0	6	.3	.5
-7/-8	.0	.0	.4	.3	.7	.3	.0	.0	.0	.0	.0	.0	12	.4	1.2
-9/-10	.0	.0	.4	.0	.7	.3	.0	.0	.0	.0	.0	.0	10	.5	.8
-11/-13	.3	.0	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	8	.8	.3
-14/-16	.1	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	4	.4	.1
-17/-19	.0	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	3	.3	.1
-20/-22	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	3	3	21	71	235	210	118	37	22	7	2	3	732	287	445
PCT	.4	.4	2.9	9.7	32.1	28.7	16.1	5.1	3.0	1.0	.3	.4	100.0	39.2	60.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	3.3	1.5	.0	.0	.0	4.7
3-4	.0	.5	2.1	.0	.0	.0	2.6
5-6	.0	.0	.8	.3	.0	.0	1.0
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	5.3	.3	.0	.0	10.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.3	.8	.0	.0	.0	3.1
3-4	.0	1.8	.3	.3	.0	.0	2.3
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.1	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.9	1.1	.3	.0	.0	7.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.0	.0	.0	.0	.8
1-2	.2	2.9	.8	.0	.0	.0	3.9
3-4	.0	.9	1.7	.0	.0	.0	2.7
5-6	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.2	.0	.0	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.6	2.7	.3	.0	.0	8.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.3	.1	.0	.0	.0	3.2
1-2	.1	3.1	1.4	.0	.0	.0	4.6
3-4	.0	1.3	3.3	.3	.0	.0	4.9
5-6	.0	.0	.4	.6	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	6.7	5.4	.9	.0	.0	13.9

PERIOD: (OVER-ALL) 1963-1974 JULY AREA 0019 OKHOTSK SEA SW
TABLE 18 (CONT) 51.9N 146.1E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	4.6	.2	.0	.0	.0	5.3	.1	2.3	.3	.0	.0	.0	2.6
1-2	.3	4.6	1.7	.0	.0	.0	6.5	.0	1.9	2.2	.0	.0	.0	4.1
3-4	.0	1.8	2.2	.2	.0	.0	4.2	.0	.8	2.4	.3	.0	.0	3.4
5-6	.0	.2	2.4	.7	.0	.0	3.3	.0	.3	1.8	.3	.0	.0	2.4
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	11.5	6.5	1.3	.0	.0	20.1	.1	5.3	6.6	.6	.0	.0	12.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5	.3	.5	.0	.0	.0	.0	.8	
1-2	.0	1.6	1.7	.0	.0	.0	3.3	.0	.8	1.2	.0	.0	.0	2.0	
3-4	.0	.8	2.0	.0	.0	.0	2.8	.0	.0	1.9	.3	.0	.0	2.2	
5-6	.0	.0	.3	.2	.0	.0	.4	.0	.0	.5	.3	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	3.6	4.0	.6	.0	.0	8.4	.3	1.3	3.6	1.1	.0	.0	6.3	86.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.2	13.9	.5	.0	.0	.0	29.6	
1-2	.5	20.5	11.1	.0	.0	.0	32.2	
3-4	.0	7.8	15.9	1.3	.0	.0	25.1	
5-6	.0	.8	6.3	2.3	.0	.0	9.4	
7	.0	.3	.8	.5	.0	.0	1.5	
8-9	.0	.3	.3	.5	.0	.0	1.0	
10-11	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.3	.0	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.7	43.8	35.2	5.3	.0	.0	100.0	395

PERIOD: (OVER-ALL) 1957-1974 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	15.8	14.4	6.1	1.4	.9	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	254	3
6-7	.0	.8	3.6	3.3	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	4
8-9	.0	.3	1.1	1.4	1.4	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
10-11	.0	.6	1.1	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
12-13	.0	.0	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDET	8.7	7.6	12.1	8.9	3.6	1.1	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	277	3
TOTAL	59	162	214	131	47	19	9	1	1	1	0	0	0	0	0	0	0	0	0	644	3
PCT	9.2	25.2	33.2	20.3	7.3	3.0	1.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	1.9	1.1	8.8	.0	.0	.0	.0	11.8	.0	.0	22.5	1.1	.0	1.1		63.5
NE	12.2	1.1	8.8	.0	.0	.0	.0	22.1	2.3	.0	15.3	.3	.0	1.1		58.9
E	12.3	.0	8.7	.0	.0	.0	.0	21.1	2.6	.0	23.4	.8	.0	1.0		51.2
SE	9.4	.0	5.6	.0	.0	.0	.0	15.0	2.0	.0	26.8	.7	.0	.0		55.5
S	4.3	.5	5.7	.0	.0	.0	.0	10.1	.4	.4	33.9	.0	.0	.0		55.3
SW	5.7	.0	6.4	.0	.0	.0	.0	11.8	2.0	.2	17.9	.2	1.0	1.0		65.8
W	2.1	.0	1.2	.0	.0	.0	.0	3.4	.0	.0	19.0	.9	.0	.0		76.7
NW	.0	.0	1.9	.0	.0	.0	.0	1.9	6.4	.0	23.4	.0	1.3	.0		67.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	4.6	.0	1.5	.0	.0	.0	.0	6.2	6.2	.0	26.2	.0	.0	.0		61.5
TOT PCT	6.0	.3	5.7	.0	.0	.0	.0	11.9	2.0	.1	24.6	.4	.2	.4		60.4
TOT OBS:	951															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
00&03	5.5	.4	3.7	.0	.0	.0	.0	9.5	1.5	.4	26.0	.4	.0	.4		61.9
06&09	5.7	.0	3.9	.0	.0	.0	.0	9.6	.9	.0	26.1	.9	.4	.4		61.7
12&15	4.7	.4	7.3	.0	.0	.0	.0	12.6	1.6	.0	24.4	.0	.0	.8		60.6
18&21	7.5	.4	8.0	.0	.0	.0	.0	15.5	4.0	.0	23.5	.4	.4	.0		56.2
TOT PCT	5.8	.3	5.7	.0	.0	.0	.0	11.7	1.9	.1	25.0	.4	.2	.4		60.2
TOT OBS:	983															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	5.1	3.2	.6	.0	.0		9.8	10.8	12.3	11.9	9.4	8.0	7.2	11.3	9.9	8.5
NE	1.1	4.0	2.9	.6	.1	.0		8.7	10.9	8.5	5.1	8.9	7.1	10.4	8.9	10.1	4.7
E	.7	3.2	3.2	1.4	.1	.0		8.7	13.2	11.8	2.5	9.1	6.3	8.8	5.6	10.1	4.7
SE	1.6	5.6	5.1	1.4	.2	.0		13.9	11.7	12.4	12.3	10.1	23.7	13.5	14.5	15.1	19.3
S	2.6	9.8	9.9	.8	.0	.0		22.8	10.5	22.2	36.9	19.6	29.9	21.4	21.8	20.3	24.1
SW	1.1	6.4	4.2	.5	.0	.0		12.2	9.9	11.0	15.3	14.6	5.4	14.3	14.5	9.3	11.8
W	1.1	4.5	3.8	.2	.0	.0		9.6	9.3	9.7	7.6	10.7	9.8	6.6	11.3	11.0	11.8
NW	1.0	2.5	4.2	.4	.0	.0		8.1	12.5	4.9	5.1	11.6	6.3	10.3	8.9	8.0	7.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.2							6.2	.0	7.2	3.4	6.0	3.6	7.6	3.2	6.3	7.5
TOT OBS	150	378	332	54	4	0	918		10.3	195	59	149	56	185	62	159	53
TOT PCT	16.3	41.2	36.2	5.9	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.2	4.7	1.9	.1	.0		9.8	10.8	12.2	9.0	8.2	9.6
NE	2.8	4.6	.9	.4	.0		8.7	10.9	7.7	8.4	10.0	8.7
E	2.4	3.5	2.6	.2	.0		8.7	13.2	9.6	8.3	8.0	8.7
SE	4.5	6.6	1.7	1.1	.0		13.9	11.7	12.4	13.8	13.8	16.2
S	6.9	12.0	3.6	.2	.0		22.8	10.5	25.6	22.4	21.5	21.2
SW	4.5	6.3	1.3	.1	.0		12.2	9.9	12.0	12.1	14.4	9.9
W	3.9	4.6	1.0	.0	.0		9.6	9.3	9.3	10.5	7.8	11.2
NW	2.0	3.6	2.3	.1	.0		8.1	12.5	4.9	10.1	9.9	7.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.2						6.2	.0	6.3	5.4	6.5	6.6
TOT OBS	335	421	141	21	0	918		10.3	254	205	247	212
TOT PCT	36.5	45.9	15.4	2.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.3	9.1	44.1	33.1	7.1	.4	.0	10.3	100.0	254
06&09	5.4	11.2	37.6	38.0	6.3	1.5	.0	10.7	100.0	205
12&15	6.5	10.5	43.7	34.8	4.5	.0	.0	9.9	100.0	247
18&21	6.6	9.9	38.2	39.6	5.7	.0	.0	10.3	100.0	212
TOT	57	93	378	332	54	4	0	10.3		918
PCT	6.2	10.1	41.2	36.2	5.9	.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.4	1.0	1.4	6.3		6.8
NE	.9	.1	1.7	8.1		7.1
E	.4	.1	1.3	9.3		7.4
SE	.6	.4	2.1	10.0		7.3
S	2.1	1.2	3.6	12.9		6.6
SW	1.5	1.1	2.5	5.8		6.0
W	3.2	.0	1.5	3.6		5.0
NW	.9	.7	2.8	4.8		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.3	.5	1.0	5.1		6.2
TOT OBS	68	30	107	397	602	6.6
TOT PCT	11.3	5.0	17.8	65.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.4	.0	.1	.3	1.4	3.2	.6	.4	.0	.0	1.6	
NE	1.9	.0	.4	.5	1.6	2.9	1.0	.2	.0	.0	2.1	
E	3.1	.0	.5	.6	1.4	2.6	1.1	.6	.0	.0	1.4	
SE	3.2	.2	.0	.7	2.3	2.2	2.0	1.0	.0	.0	1.6	
S	6.6	.0	.2	.6	1.7	4.0	1.9	.0	.0	.0	4.9	
SW	2.0	.0	.2	.2	1.6	2.5	1.5	.0	.2	.0	2.8	
W	1.4	.0	.0	.0	.4	1.2	1.0	.3	.0	.2	3.8	
NW	2.0	.0	.0	.5	1.6	1.9	.1	.1	1.0	.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5	.2	.0	.2	1.0	1.0	.7	.0	.0	.0	2.5	
TOT OBS	144	2	8	21	78	129	59	16	7	1	137	602
TOT PCT	23.9	.3	1.3	3.5	13.0	21.4	9.8	2.7	1.2	.2	22.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.0	1.1	1.1	1.3	1.3	1.3	1.3
* OR >3000	2.6	3.4	3.8	3.8	3.9	3.9	3.9	3.9
* OR >3500	8.3	11.8	12.8	12.8	12.9	13.1	13.1	13.1
* OR >2000	15.4	29.6	33.4	34.0	34.4	34.5	34.5	34.5
* OR >1000	19.8	39.8	45.2	46.6	47.1	47.5	47.5	47.5
* OR >600	20.6	42.6	48.4	50.1	50.6	51.1	51.1	51.1
* OR >300	20.8	42.9	49.3	51.2	51.7	52.5	52.5	52.5
* OR >150	20.9	43.2	49.6	51.6	52.0	52.9	52.9	52.9
* OR > 0	21.1	44.8	53.2	56.6	57.6	64.6	74.8	77.6
TOTAL	129	274	325	346	352	395	457	474

TOTAL NUMBER OF OBS: 611

PCT FREQ NH <5/8: 22.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.7	2.3	2.9	2.3	3.1	3.1	5.4	7.5	40.3	22.3	682

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.5	.3	.7	.5	.2	.0	*	.0	.0	2.3	
<1/2	NO PCP	1.0	.9	2.1	2.7	5.6	1.3	.9	1.3	.0	1.3	17.0	
	TOT %	1.2	1.3	2.4	3.4	6.0	1.5	.9	1.3	.0	1.3	19.4	
	PCP	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
1/2<1	NO PCP	.2	.0	.0	.2	.2	.3	.1	.0	.0	.1	1.2	
	TOT %	.2	.1	.0	.2	.3	.3	.1	.0	.0	.1	1.4	
	PCP	.1	.2	.3	.4	.4	.2	.0	.0	.0	.0	1.7	
1<2	NO PCP	.3	.3	.5	.2	.6	.3	.1	.3	.0	.0	2.4	
	TOT %	.4	.5	.8	.6	1.0	.5	.1	.3	.0	.0	4.1	
	PCP	.6	.5	1.0	.4	.3	.3	.1	.0	.0	.0	3.2	
2<5	NO PCP	.6	.8	.6	1.2	1.6	.4	.6	.7	.0	.5	7.1	
	TOT %	1.2	1.3	1.5	1.6	1.9	.8	.7	.7	.0	.5	10.3	
	PCP	.3	.6	.4	.5	1.0	.5	.2	.1	.0	.4	3.9	
5<10	NO PCP	2.8	2.3	2.9	3.0	4.7	1.8	1.7	1.7	.0	1.4	22.2	
	TOT %	3.1	2.8	3.3	3.4	5.7	2.3	1.9	1.8	.0	1.8	26.2	
	PCP	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.4	
10+	NO PCP	3.4	3.1	2.1	5.0	7.3	5.3	4.7	4.2	.0	3.2	38.2	
	TOT %	3.4	3.2	2.3	5.1	7.3	5.3	4.7	4.2	.0	3.2	38.6	
	TOT OBS												940
	TOT PCT	9.5	9.3	10.3	14.3	22.3	10.7	8.4	8.3	.0	6.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.2	.2	.3	.4	.9	.7	.2	.1	.0	1.0	4.0	
<1/2	4-10	1.3	.5	.4	1.6	2.7	1.8	1.4	.8	.0		10.5	
	11-21	.5	.7	.9	1.2	2.8	.6	.5	.6	.0		7.8	
	22+	.0	.2	.3	.0	.1	.1	.0	.1	.0		.8	
	TOT %	1.9	1.5	1.9	3.2	6.6	3.3	2.1	1.6	.0	1.0	23.1	
	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.3	
1/2<1	4-10	.1	.0	.0	*	.4	.2	.1	.0	.0		.9	
	11-21	.0	.0	.0	.2	.0	.1	.0	.0	.0		.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	TOT %	.2	.1	.0	.3	.5	.3	.1	.0	.0	.1	1.7	
	0-3	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.2	
1<2	4-10	.1	.3	.2	.4	.5	.2	.1	.2	.0		1.8	
	11-21	.2	.1	.0	.1	.6	.1	.0	.1	.0		1.4	
	22+	.0	.0	.3	.2	.0	.0	.0	.0	.0		.6	
	TOT %	.3	.5	.6	.7	1.1	.3	.1	.3	.0	.0	4.0	
	0-3	.0	.2	.3	.3	.1	.0	.0	.0	.0	.7	1.5	
2<5	4-10	.4	.7	.3	.6	1.0	.3	.4	.5	.0		4.2	
	11-21	.8	.2	.7	.6	1.0	.5	.2	.1	.0		4.1	
	22+	.0	.3	.4	.1	.0	.0	.1	*	.0		1.0	
	TOT %	1.2	1.4	1.7	1.6	2.0	.8	.6	.6	.0	.7	10.7	
	0-3	.2	.3	.1	.3	.3	.0	.2	.3	.0	1.5	3.2	
5<10	4-10	1.7	.7	1.2	1.0	2.0	1.2	.6	.3	.0		8.7	
	11-21	.9	.8	1.0	1.2	2.5	1.1	1.1	1.0	.0		9.5	
	22+	.4	.3	.4	.4	.5	.0	.0	.1	.0		2.0	
	TOT %	3.2	2.0	2.8	2.8	5.2	2.3	1.9	1.7	.0	1.5	23.4	
	0-3	.3	.3	.1	.7	1.4	.4	.7	.6	.0	2.9	7.3	
10+	4-10	1.8	1.8	1.2	1.6	3.0	2.7	2.0	.8	.0		14.9	
	11-21	.9	1.1	.5	1.7	2.5	1.7	1.9	2.5	.0		13.0	
	22+	.2	.0	.1	.8	.2	.4	.1	.1	.0		1.9	
	TOT %	3.2	3.2	1.9	4.8	7.1	5.2	4.7	4.0	.0	2.9	37.2	
	TOT OBS												885
	TOT PCT	10.0	8.8	8.9	13.5	22.6	12.2	9.5	8.3	.0	6.2	100.0	

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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	22.2	.5	1.6	2.7	8.1	22.7	9.7	2.7	2.2	.5	73.0	27.0	185
06&09	24.2	.0	.7	5.2	9.8	20.9	10.5	2.6	.0	.0	73.9	26.1	153
12&15	27.4	.6	.6	3.0	15.9	17.7	8.5	1.8	1.8	.0	77.4	22.6	164
18&21	24.0	.0	3.1	3.1	17.8	24.8	9.3	3.1	.0	.0	85.3	14.7	129
TOT	154	2	9	22	79	135	60	16	7	1	485	146	631
PCT	24.4	.3	1.4	3.5	12.5	21.4	9.5	2.5	1.1	.2	76.9	23.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	22.6	2.4	3.5	9.8	19.5	42.2	287
06&09	23.1	2.1	4.1	6.6	21.1	43.0	242
12&15	23.5	.7	4.5	11.2	28.0	32.1	268
18&21	21.0	1.7	6.0	13.7	31.3	26.2	233
TOT	233	18	46	106	255	372	1030
PCT	22.6	1.7	4.5	10.3	24.8	36.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	22.3	26.3	38.5	38.0	23.5	179
06&09	24.8	28.2	37.6	38.3	24.2	149
12&15	27.2	29.7	41.8	39.9	18.4	158
18&21	24.8	28.8	41.6	44.0	14.4	125
TOT	151	172	243	243	125	611
PCT	24.7	28.2	39.8	39.8	20.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.9	.0	5.1	.9	8	6.8
55/59	.0	.0	.9	.9	.0	.9	11.1	17.9	37	31.6
50/54	.0	.0	.0	.0	.9	.9	12.8	45.3	70	59.8
45/49	.0	.0	.0	.0	.0	.0	.0	1.7	2	1.7
TOTAL	0	0	1	1	2	2	34	77	117	100.0
PCT	.0	.0	.9	.9	1.7	1.7	29.1	65.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.6	.9	.0	1.7	.6	1.9	.0	.2	.0	.9
3.2	1.7	.9	4.1	7.7	2.4	7.7	2.4	.0	1.7
1.7	10.3	7.5	15.2	14.3	3.2	2.6	5.1	.0	.0
.0	.9	.6	.2	.0	.0	.0	.0	.0	.0
5.6	13.7	9.0	21.2	22.6	7.5	10.3	7.7	.0	2.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	73	68	55	48	46	43	55.9	284
06&09	75	74	68	55	49	46	41	56.7	246
12&15	73	68	63	54	46	44	43	54.3	270
18&21	75	73	64	54	46	45	43	54.5	239
TOT	77	73	66	54	48	45	41	55.4	1039

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.5	.0	3.2	35.5	54.8	90	31
06&09	.0	.0	6.5	.0	25.8	67.7	92	31
12&15	.0	.0	.0	4.3	21.7	73.9	94	23
18&21	.0	.0	.0	.0	31.3	68.8	94	32
TOT	0	2	2	2	34	77	92	117

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1907-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.0E

TABLE 17

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

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
23/25	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	3	.1	.4
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	4	.0	.5
17/19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
14/16	.0	.0	.0	.1	.1	.7	.5	.6	.2	.0	19	.7	1.6
11/13	.0	.0	.1	.5	.5	1.1	1.2	.6	.5	.0	37	.9	3.5
9/10	.0	.0	.2	.3	.5	1.8	.4	.2	.0	.0	29	.7	2.7
7/8	.0	.0	.4	1.7	1.1	1.5	.5	.1	.0	.0	44	1.4	3.8
6	.0	.1	.2	.5	.7	.2	.0	.4	.0	.0	18	.8	1.3
5	.0	.2	1.0	2.9	2.1	.6	.6	.0	.0	.0	62	2.7	4.7
4	.0	.0	1.2	3.2	2.6	.6	.2	.0	.0	.0	66	2.0	5.8
3	.0	.0	.5	1.2	1.1	.1	.0	.0	.0	.0	24	1.0	1.9
2	.0	.1	1.9	7.1	3.2	.7	.0	.0	.0	.0	110	4.2	8.9
1	.0	.0	.7	2.0	1.9	.0	.1	.0	.0	.0	40	1.0	3.8
0	.0	.3	3.9	9.0	1.5	.8	.0	.0	.0	.0	132	3.7	12.0
-1	.0	.0	2.6	1.8	.5	.2	.0	.0	.0	.0	43	2.1	3.0
-2	.1	.6	4.5	3.7	1.0	.1	.0	.0	.0	.0	84	1.9	8.1
-3	.1	.0	1.1	1.0	.7	.0	.0	.0	.0	.0	24	.6	2.3
-4	.1	.1	2.3	.8	.2	.0	.0	.0	.0	.0	30	1.1	2.5
-5	.0	.8	1.2	.8	.0	.1	.0	.0	.0	.0	25	.6	2.4
-6	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	6	.1	.6
-7/-8	.1	1.1	.8	.2	.0	.0	.0	.0	.0	.0	19	.7	1.5
-9/-10	.0	.6	.2	.0	.4	.0	.0	.0	.0	.0	10	.4	.8
-11/-13	.2	.7	.1	.0	.0	.0	.0	.0	.0	.0	9	.1	1.0
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	2	.1	.1
TOTAL	6		197		152		30		10			227	614
		41		313		73		18		1	841		
PCT	.7	4.9	23.4	37.2	18.1	8.7	3.6	2.1	1.2	.1	100.0	27.0	73.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.9	.0	.0	.0	.0	2.4
1-2	.3	2.8	.6	.0	.0	.0	3.7
3-4	.0	1.1	1.1	.0	.0	.0	2.2
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.3	.5	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.3	.0	.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
TOT PCT	.8	5.9	3.2	.8	.0	.0	10.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.7	.0	.0	.0	.0	2.0
1-2	.0	2.3	1.4	.0	.0	.0	3.7
3-4	.0	.3	.9	.0	.0	.0	1.2
5-6	.0	.0	.8	.6	.0	.0	1.5
7	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.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
TOT PCT	.3	4.3	3.2	1.6	.3	.0	9.6

E

HGT	1-3	4-10	11-21	22-33	34+47	48+	PCT
<1	.5	2.1	.0	.0	.0	.0	2.6
1-2	.0	1.1	1.3	.0	.0	.0	2.4
3-4	.0	.0	.8	.3	.0	.0	1.1
5-6	.0	.0	.5	.5	.0	.0	1.0
7	.0	.0	1.3	.6	.0	.0	1.9
8-9	.0	.0	.2	.8	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.3	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.2	4.2	2.4	.3	.0	10.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.7	.0	.0	.0	.0	3.2
1-2	.0	.9	2.0	.0	.0	.0	3.0
3-4	.0	.6	1.7	.0	.0	.0	2.3
5-6	.0	.0	1.1	.0	.0	.0	1.1
7	.0	.0	.6	1.1	.0	.0	1.8
8-9	.0	.0	.1	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.2	5.5	1.2	.0	.0	11.4

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0019 OKHOTSK SEA SW
51.9N 146.0E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	3.9	.0	.0	.0	.0	5.1	.6	2.8	.0	.0	.0	.0	3.5
1-2	.2	3.0	2.3	.0	.0	.0	5.5	.1	1.7	.7	.0	.0	.0	2.5
3-4	.0	1.0	3.1	.0	.0	.0	4.1	.0	.4	2.3	.0	.0	.0	2.7
5-6	.0	.2	3.1	.3	.0	.0	3.6	.0	.1	1.0	.3	.0	.0	1.3
7	.0	.3	1.4	.0	.0	.0	1.7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.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	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	8.4	9.9	.5	.0	.0	20.2	.8	4.9	4.6	.6	.0	.0	10.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.5	.6	.3	.0	.0	.0	1.3	.1	1.0	.3	.0	.0	.0	1.4	
1-2	.5	1.3	1.8	.0	.0	.0	3.6	.0	.6	1.5	.0	.0	.0	2.1	
3-4	.0	.0	1.4	.2	.0	.0	1.6	.0	.0	1.7	.4	.0	.0	2.0	
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	2.1	.0	.0	.0	2.1	
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.9	.0	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	1.9	5.3	.2	.0	.0	8.4	.1	1.6	6.5	.4	.0	.0	8.6	90.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.8	16.7	.6	.0	.0	.0	31.1	
1-2	1.1	13.8	11.6	.0	.0	.0	26.6	
3-4	.0	3.4	13.0	.8	.0	.0	17.2	
5-6	.0	.3	11.3	1.7	.0	.0	13.3	
7	.0	.3	5.1	2.8	.0	.0	8.2	
8-9	.0	.0	.6	1.4	.0	.0	2.0	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.3	.3	.0	.6	
13-16	.0	.0	.3	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.3	.0	.6	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								354
TOT PCT	15.0	34.5	42.4	7.6	.6	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	10.4	10.4	7.8	3.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	4
6-7	.0	1.1	1.8	3.1	3.5	.9	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	5
8-9	.0	.3	.6	1.4	1.1	.6	.3	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	31	7
10-11	.0	.5	.0	.2	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	6
12-13	.0	.0	.5	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	20
INDET	9.6	6.4	13.3	9.0	6.6	2.4	.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	4
TOTAL	73	122	174	140	98	34	7	2	2	0	2	0	0	0	0	0	0	0	0	654	4
PCT	11.2	18.7	26.6	21.4	15.0	5.2	1.1	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1933-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.7	.7	7.9	.0	.0	.0	.0	11.2	1.6	.0	1.8	.0	.0	.0		85.4
NE	7.1	2.8	7.1	.0	.0	.0	.0	17.0	1.5	.0	7.4	.0	.0	.0		74.0
E	12.6	.0	2.7	.0	.0	.0	.0	15.3	.0	.0	10.4	.0	.0	.0		74.3
SE	8.1	2.4	6.9	.0	.0	.0	.0	17.4	2.4	.0	11.8	.0	1.6	1.6		65.1
S	5.6	.0	4.8	.0	.0	.0	.0	10.4	.5	.5	16.4	.0	.5	.0		71.8
SW	3.5	.0	.8	.0	.0	.0	.0	4.3	.8	.0	3.9	.0	1.5	.8		88.8
W	1.9	1.0	1.0	.0	.0	.0	.0	3.8	1.9	.0	2.4	.0	.0	.0		91.8
NW	7.6	.0	4.1	.0	.0	.0	.0	11.6	4.1	1.0	5.3	.0	.0	.0		78.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	2.8	.0	.0	.0		94.4
TOT PCT	5.5	.7	4.3	.0	.0	.0	.0	10.5	1.5	.2	8.1	.0	.5	.3		78.8
TOT OBS:	958															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.7	.4	5.4	.0	.0	.0	.0	10.4	1.1	.4	6.8	.0	.4	.4		80.6
06&09	3.6	.8	2.8	.0	.0	.0	.0	7.3	1.2	.0	9.7	.0	.4	.4		81.0
12&15	6.7	1.1	2.6	.0	.0	.0	.0	10.4	1.5	.0	7.1	.0	1.1	.4		79.5
18&21	6.7	.4	6.2	.0	.0	.0	.0	13.3	2.7	.4	9.8	.0	.0	.4		73.3
TOT PCT	5.4	.7	4.2	.0	.0	.0	.0	10.3	1.6	.2	8.2	.0	.5	.4		78.8
TOT OBS:	1020															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	5.1	4.3	1.4	.1	.0		11.8	12.6	10.8	.0	9.9	20.8	14.8	5.3	12.4	6.3
NE	.4	3.2	2.7	1.0	.3	.0		7.6	14.2	9.3	.0	7.4	4.2	7.6	2.6	6.5	15.6
E	.1	2.3	1.8	1.8	.1	.0		6.1	15.7	7.8	.0	5.5	.0	6.9	2.6	5.0	9.4
SE	.6	4.1	5.8	2.7	.4	.0		13.6	15.9	9.9	31.7	16.6	18.1	13.9	26.3	11.8	6.3
S	.5	7.3	11.9	2.7	.4	.0		22.9	14.4	21.1	25.0	22.0	48.6	21.4	39.5	24.1	15.6
SW	.3	4.4	7.4	.7	.3	.0		13.1	13.4	15.8	16.7	9.3	.0	13.3	15.8	14.9	9.4
W	.4	3.6	4.5	1.9	.8	.0		11.0	16.1	12.3	10.0	13.5	.0	8.1	.0	12.5	15.6
NW	.4	3.1	5.2	1.9	.1	.0		10.7	15.3	9.1	16.7	11.4	8.3	12.2	7.9	9.4	15.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	9.9	.0	4.6	.0	1.7	.0	3.4	6.3
TOT OBS	59	297	395	127	22	0	900		14.1	230	15	197	18	229	19	176	16
TOT PCT	6.6	33.0	43.9	14.1	2.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	5.2	2.7	.2	.1		11.8	12.6	10.1	10.8	14.1	11.8
NE	1.4	3.9	1.5	.8	.0		7.6	14.2	8.8	7.1	7.3	7.3
E	1.4	2.1	2.3	.4	.0		6.1	15.7	7.3	5.0	6.6	5.3
SE	2.2	5.2	4.4	1.6	.1		13.6	15.9	11.2	16.7	14.8	11.3
S	3.4	11.4	7.0	1.0	.1		22.9	14.4	21.3	24.2	22.8	23.4
SW	2.4	6.8	3.7	.3	.0		13.1	13.4	15.8	8.5	13.5	14.5
W	1.7	5.1	2.7	1.3	.2		11.0	16.1	12.1	12.3	7.5	12.8
NW	1.9	3.9	4.0	.9	.0		10.7	15.3	9.6	11.2	11.9	9.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	3.7	4.2	1.6	3.6
TOT OBS	190	393	254	58	5	900		14.1	245	215	248	192
TOT PCT	21.1	43.7	28.2	6.4	.6		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.7	2.0	29.8	46.5	15.5	2.4	.0	14.8	100.0	245
06&09	4.2	4.2	32.1	40.0	17.2	2.3	.0	14.2	100.0	215
12&15	1.6	3.2	37.5	46.0	8.9	2.8	.0	13.5	100.0	248
18&21	3.6	4.2	32.3	42.2	15.6	2.1	.0	14.0	100.0	192
TOT	29	30	297	395	127	22	0	14.1		900
PCT	3.2	3.3	33.0	43.9	14.1	2.4	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.3	1.4	2.7	4.5		4.6
NE	.4	.7	1.5	5.0		6.9
E	.6	.4	1.9	3.1		6.5
SE	1.2	1.2	3.2	6.7		6.4
S	6.3	1.6	4.3	8.5		5.0
SW	7.1	1.4	2.3	3.3		3.4
W	4.4	2.3	2.5	2.7		3.9
NW	2.6	1.6	2.9	3.3		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.0	.3	1.7	.4		3.7
TOT OBS	215	80	171	279	745	4.9
TOT PCT	28.9	10.7	23.0	37.4	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.4	.0	.0	.3	1.6	4.0	.3	.1	.0	.1	6.1	
NE	.6	.1	.3	.0	1.9	3.2	.0	.1	.0	.0	1.3	
E	.8	.1	.0	.0	1.2	1.5	.8	.1	.1	.0	1.2	
SE	1.2	.1	.3	.7	2.3	2.6	.6	*	.1	.0	4.3	
S	2.8	.0	.1	1.0	2.3	3.1	1.2	.3	.5	.0	9.3	
SW	.7	.0	.0	.3	.5	1.6	.8	.1	.0	.3	9.9	
W	.1	.0	.0	.0	1.4	2.2	.6	.3	.1	.1	6.9	
NW	.1	.0	.1	.3	1.7	2.6	.9	.0	.0	.0	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.4	.7	.1	.3	.1	.0	2.6	
TOT OBS	52	3	6	19	100	159	40	11	7	4	344	745
TOT PCT	7.0	.4	.8	2.6	13.4	21.3	5.4	1.5	.9	.5	46.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
* OR >3500	6.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4
* OR >2000	16.3	26.1	27.7	28.2	28.6	28.8	29.0	29.0
* OR >1000	21.0	35.4	39.5	40.4	40.9	41.6	42.0	42.0
* OR >600	21.2	36.7	41.7	42.9	43.5	44.1	44.7	44.7
* OR >300	21.4	37.3	42.6	43.8	44.4	45.0	45.5	45.6
* OR >150	21.6	37.6	42.9	44.0	44.7	45.4	45.9	45.9
* OR > 0	22.0	38.4	44.7	47.1	47.9	49.9	52.6	53.2
TOTAL	171	298	347	366	372	388	409	413

TOTAL NUMBER OF OBS: 777 PCT FREQ NH <5/8: 46.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
21.2	5.0	6.8	5.8	5.3	4.4	5.4	9.2	30.2	6.7	857

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.1	.1	.4	.0	.0	.0	.0	.0	.0	.6	
<1/2	NO PCP	.2	.3	.2	1.1	2.3	.5	.3	.0	.0	.1	5.0	
	TOT %	.3	.4	.3	1.5	2.3	.5	.3	.0	.0	.1	5.7	
	PCP	.1	.0	.0	.3	.3	.0	.0	.2	.0	.0	.8	
1/2<1	NO PCP	.0	.0	.0	.2	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.0	.0	.5	.3	.1	.0	.2	.0	.0	1.2	
	PCP	.3	.1	.2	.3	.4	.3	.1	.3	.0	.0	2.1	
1<2	NO PCP	.0	.1	.2	.2	.1	.1	.0	.0	.0	.0	.7	
	TOT %	.3	.2	.4	.6	.5	.4	.1	.3	.0	.0	2.8	
	PCP	.4	.6	.5	.7	.5	.2	.2	.3	.0	.1	3.5	
2<5	NO PCP	.4	.7	.2	1.3	1.2	.1	.2	.8	.0	.0	4.7	
	TOT %	.8	1.2	.7	1.9	1.7	.3	.4	1.1	.0	.1	8.2	
	PCP	.3	.7	.2	.3	1.2	.1	.1	.3	.0	.0	3.5	
5<10	NO PCP	2.4	1.9	.9	2.0	5.6	2.7	2.0	2.8	.0	.3	20.7	
	TOT %	2.9	2.5	1.1	2.6	6.8	2.8	2.2	3.0	.0	.3	24.2	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	7.3	4.0	3.2	5.8	11.5	9.5	7.9	5.6	.0	3.3	58.0	
	TOT %	7.3	4.0	3.2	5.8	11.5	9.5	7.9	5.6	.0	3.3	58.0	
	TOT OBS												952
	TOT PCT	11.7	8.4	5.6	12.8	23.0	13.6	10.8	10.2	.0	3.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.1	.0	.0	.0	.0	.1	.0	.0	.1	.3	
<1/2	4-10	.1	.2	.3	.8	1.6	.1	.3	.3	.0		3.7	
	11-21	.3	.1	.1	.4	1.0	.6	.5	.7	.0		3.7	
	22+	.0	.1	.0	.6	.3	.1	.0	.0	.0		1.1	
	TOT %	.5	.5	.5	1.8	2.9	.8	.9	1.0	.0	.1	8.9	
	0-3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	4-10	.0	.0	.0	.2	.1	.1	.0	.0	.0		.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0		.1	
	22+	.0	.0	.0	.3	.2	.0	.0	.1	.0		.6	
	TOT %	.1	.0	.0	.5	.3	.1	.0	.2	.0	.0	1.2	
	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1<2	4-10	.2	.0	.1	.1	.1	.0	.0	.0	.0		.6	
	11-21	.1	.1	.0	.3	.2	.1	.0	.1	.0		1.0	
	22+	.0	*	.3	.1	.2	*	.1	.2	.0		1.0	
	TOT %	.3	.1	.4	.6	.6	.1	.1	.3	.0	.0	2.7	
	0-3	.1	.1	.0	.0	.0	.0	.1	.1	.0	.1	.6	
2<5	4-10	.2	.6	.1	.4	.3	.0	.1	.3	.0		2.0	
	11-21	.4	.4	.3	.8	1.5	.5	.1	.2	.0		4.2	
	22+	.1	.3	.4	.8	.2	.0	.1	.3	.0		2.4	
	TOT %	.8	1.4	.9	2.0	2.0	.5	.4	1.0	.0	.1	9.1	
	0-3	.3	.1	.1	.0	.1	.1	.0	.1	.0	.1	.9	
5<10	4-10	.6	.9	.5	1.2	1.3	.6	.6	.8	.0		6.7	
	11-21	1.0	.6	.2	1.1	4.1	1.5	.4	1.6	.0		10.6	
	22+	1.0	.8	.3	.4	1.2	.2	.8	.3	.0		5.0	
	TOT %	2.9	2.4	1.2	2.7	6.7	2.5	1.9	2.8	.0	.1	23.1	
	0-3	.1	.1	.1	.6	.3	.1	.2	.2	.0	2.9	4.6	
10+	4-10	3.6	1.5	1.2	1.5	4.0	3.6	2.4	1.6	.0		19.3	
	11-21	2.6	1.6	1.2	3.2	5.3	4.9	3.4	2.4	.0		24.6	
	22+	.5	.1	.7	.6	1.1	.6	1.6	1.1	.0		6.3	
	TOT %	6.7	3.3	3.1	5.8	10.8	9.3	7.7	5.2	.0	2.9	54.9	
	TOT OBS												886
	TOT PCT	11.4	7.7	6.0	13.5	23.2	13.2	11.0	10.6	.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)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.4	.8	1.3	2.9	13.3	24.6	4.6	2.9	.4	.8	57.1	42.9	240
06&09	6.2	.0	1.0	3.3	11.5	20.1	4.8	1.4	1.0	1.0	50.2	49.8	209
12&15	6.9	.5	1.0	1.5	12.4	17.3	5.9	.5	.0	.0	46.0	54.0	202
18&21	12.2	.0	.0	2.7	14.3	19.0	5.4	1.4	2.7	.0	57.8	42.2	147
TOT	58	3	7	21	102	164	41	13	7	4	420	378	798
PCT	7.3	.4	.9	2.6	12.8	20.6	5.1	1.6	.9	.5	52.6	47.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	7.4	.4	2.8	7.4	22.1	60.0	285
06&09	10.1	1.6	2.7	5.1	20.6	59.9	257
12&15	7.6	1.4	2.2	7.9	26.6	54.3	278
18&21	6.1	.9	5.7	14.0	25.4	47.8	228
TOT	82	11	34	88	248	585	1048
PCT	7.8	1.0	3.2	8.4	23.7	55.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.1	9.8	19.1	39.6	41.3	235
06&09	6.3	10.7	17.0	37.0	48.1	206
12&15	7.1	10.2	17.3	31.1	51.5	196
18&21	12.1	13.6	25.7	35.0	39.3	140
TOT	56	84	150	275	352	777
PCT	7.2	10.8	19.3	35.4	45.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	1.0	.0	.0	.0	.0	.0	.0	1	1.0
60/64	.0	1.0	.0	.0	1.0	.0	1.0	.0	3	3.1
55/59	.0	.0	.0	.0	1.0	3.1	9.2	9.2	22	22.4
50/54	.0	.0	2.0	.0	5.1	4.1	30.6	20.4	61	62.2
45/49	.0	.0	.0	.0	1.0	2.0	5.1	3.1	11	11.2
TOTAL	0	2	2	0	8	9	45	32	98	100.0
PCT	.0	2.0	2.0	.0	8.2	9.2	45.9	32.7		

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	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0
	2.6	1.3	3.1	2.6	8.4	1.3	1.0	2.3	.0	.0
	7.1	5.9	7.9	13.3	10.2	4.1	5.1	5.6	.0	3.1
	2.6	1.5	.0	.0	.0	.0	2.8	4.3	.0	.0
	13.3	9.7	12.0	16.8	18.6	5.4	8.9	12.2	.0	3.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	73	67	63	53	45	37	32	52.9	275
06&09	72	66	63	54	46	43	43	53.7	251
12&15	73	65	60	52	41	37	32	51.3	269
18&21	66	63	59	50	41	37	34	50.6	226
TOT	73	65	62	52	45	37	32	52.2	1021

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	3.6	10.7	7.1	39.3	39.3	85	28
06&09	.0	.0	12.0	12.0	52.0	24.0	85	25
12&15	.0	10.0	5.0	.0	50.0	35.0	84	20
18&21	.0	4.0	4.0	16.0	44.0	32.0	84	25
TOT	0	4	8	9	45	32	85	98

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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 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	4	.1	.4
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	3	.1	.3
11/13	.0	.0	.0	.0	.0	.0	.1	.4	.9	.0	.1	.0	12	.1	1.4
9/10	.0	.0	.0	.0	.0	.4	.3	.1	.9	.3	.1	.0	16	.0	2.0
7/8	.0	.0	.0	.0	.0	.5	.8	.9	1.4	.1	.0	.0	29	.2	3.4
6	.0	.0	.0	.0	.1	.4	.6	.4	.0	.1	.0	.0	13	.0	1.6
5	.0	.0	.0	.0	.3	.9	1.5	1.1	1.6	.0	.0	.1	44	.3	5.2
4	.0	.0	.0	.0	.8	2.4	2.0	.8	1.0	.0	.0	.0	55	1.3	5.6
3	.0	.0	.0	.0	.0	.8	1.0	1.0	.0	.1	.0	.0	23	.0	2.9
2	.0	.0	.0	.1	2.0	2.6	3.9	1.5	.0	.0	.0	.0	81	.4	9.8
1	.0	.0	.0	.0	.6	1.6	2.1	.9	.1	.0	.0	.0	43	.4	5.0
0	.0	.0	.0	.0	2.5	4.8	5.6	2.3	.1	.0	.1	.0	132	1.4	15.1
-1	.0	.0	.0	.0	1.5	2.1	6.5	.3	.0	.1	.0	.0	44	.0	5.5
-2	.0	.0	.0	.1	3.3	4.0	3.8	.4	.1	.0	.0	.0	93	.9	10.7
-3	.0	.0	.0	.1	.4	1.3	1.0	.3	.0	.0	.0	.0	24	.1	2.9
-4	.0	.0	.0	.5	2.6	1.5	1.3	.1	.0	.0	.0	.0	48	.4	5.6
-5	.0	.0	.3	.3	2.8	2.4	.4	.3	.0	.0	.0	.0	50	.0	6.3
-6	.0	.0	.0	.1	.1	.4	.1	.1	.0	.0	.0	.0	7	.0	.9
-7/-8	.0	.0	.1	1.1	1.1	.5	.3	.0	.0	.0	.0	.0	25	.3	2.8
-9/-10	.0	.0	.6	.5	1.1	.3	.5	.0	.1	.0	.0	.0	25	.0	3.1
-11/-13	.0	.0	.5	.4	.9	.3	.3	.0	.0	.0	.0	.0	18	.0	2.3
-14/-16	.1	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.5
-17/-19	.0	.1	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	4	.0	.5
-20/-22	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	2	2	14	26	162	217	226	86	92	8	3	2	800	47	753
PCT	.3	.3	1.8	3.3	20.3	27.1	28.3	10.8	6.5	1.0	.4	.3	100.0	5.9	94.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.6
1-2	.0	2.9	1.4	.0	.0	.0	4.2
3-4	.0	.8	2.8	.4	.0	.0	3.9
5-6	.0	.0	.6	.4	.0	.0	.9
7	.0	.0	.3	1.4	.2	.0	1.9
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.8	5.2	2.1	.2	.0	12.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.2
1-2	.0	2.0	.6	.0	.0	.0	2.5
3-4	.0	.2	1.0	.0	.0	.0	1.2
5-6	.0	.2	1.1	.0	.0	.0	1.3
7	.0	.0	.9	.3	.0	.0	1.1
8-9	.0	.2	.0	.4	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.5	3.4	.9	.4	.0	8.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.5	.0	.0	.0	.0	1.6
1-2	.0	.7	.7	.0	.0	.0	1.4
3-4	.0	.2	.8	.0	.0	.0	1.0
5-6	.0	.0	.6	.4	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	2.1	.6	.0	.0	5.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.0	.0	.0	.0	.8
1-2	.4	1.9	.3	.0	.0	.0	2.6
3-4	.0	.1	2.2	.3	.0	.0	2.5
5-6	.0	.0	2.0	.2	.0	.0	2.2
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.6	.2	.1	.0	.9
10-11	.0	.0	.1	.4	.5	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.1	1.1	.2	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	2.7	5.6	2.1	.7	.0	11.5

PERIOD: (OVER-ALL) 1963-1974 SEPTEMBER AREA 0019 OKHOTSK SEA SW

TABLE 18 (CONT) 51.9N 146.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	.1	.9	.0	.0	.0	.0	1.0
1-2	.0	2.3	2.4	.0	.0	.0	4.6	.0	2.8	1.8	.0	.0	.0	4.6
3-4	.0	.9	3.6	.4	.0	.0	4.8	.0	.8	2.8	.3	.0	.0	3.8
5-6	.0	.0	2.7	.6	.0	.0	3.3	.0	.2	1.2	.2	.2	.0	1.8
7	.0	.0	1.4	.6	.2	.0	2.2	.0	.0	1.0	.3	.0	.0	1.2
8-9	.0	.0	.4	.0	.2	.0	.5	.0	.0	.5	.0	.1	.0	.5
10-11	.0	.0	.2	.6	.2	.0	.9	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.2	.0	.0	.0	.2
13-16	.0	.0	.4	.2	.2	.0	.7	.0	.0	.0	.0	.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	.4	.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	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	10.9	2.7	.7	.0	19.5	.1	4.7	7.7	.9	.5	.0	13.8

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.4	.9	.0	.0	.0	.0	1.3	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.5	1.1	.0	.0	.0	2.6	.0	.9	.5	.0	.0	.0	1.4	
3-4	.0	1.1	3.2	.4	.0	.0	4.6	.0	.5	2.3	.7	.0	.0	3.4	
5-6	.0	.0	1.5	.4	.0	.0	1.9	.0	.4	1.7	.7	.0	.0	2.8	
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5	1.2	.0	.0	1.6	
8-9	.0	.0	.0	1.0	.2	.0	1.2	.0	.2	.5	.0	.0	.0	.7	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.2	.0	.6	
12	.0	.0	.0	.4	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.2	.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	
TOT PCT	.4	3.5	5.7	2.8	1.0	.0	13.3	.0	2.5	5.4	3.1	.2	.0	11.1	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.4	8.8	.0	.0	.0	.0	14.2	
1-2	.4	14.9	8.6	.0	.0	.0	23.9	
3-4	.0	4.4	18.5	2.2	.0	.0	25.1	
5-6	.0	.8	11.2	2.8	.2	.0	15.1	
7	.2	.0	4.4	3.8	.4	.0	8.8	
8-9	.0	.4	2.0	1.8	.4	.0	4.6	
10-11	.0	.0	.2	2.0	.8	.0	3.0	
12	.0	.0	.2	.8	.2	.0	1.2	
13-16	.0	.0	.4	1.2	1.4	.0	3.0	
17-19	.0	.0	.0	.4	.2	.0	.6	
20-22	.0	.0	.4	.0	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								498
TOT PCT	6.0	29.3	46.0	15.1	3.6	.0	100.0	

PERIOD: (OVER-ALL) 1950-1974 TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	8.4	9.4	9.3	3.3	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	279	4
6-7	.0	.5	3.1	3.9	4.0	1.7	1.9	.7	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	139	7
8-9	.0	.2	1.2	1.3	.2	1.1	.8	.4	.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	54	8
10-11	.0	.5	.0	.1	.8	.6	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	7
12-13	.0	.0	.7	.4	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
>13	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	3.8	3.7	13.2	6.5	5.3	3.8	1.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	329	5
TOTAL	39	112	232	181	120	74	45	14	18	3	3	0	0	0	0	0	0	0	0	841	5
PCT	4.6	13.3	27.6	21.5	14.3	8.8	5.4	1.7	2.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1908-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	12.3	.6	.8	.6	5.3	.0	.0	18.7	3.6	.0	.0	.4	.0	2.6		74.6
NE	22.3	1.6	8.6	.0	5.1	.0	.0	35.9	2.3	.0	1.6	.0	1.6	.0		58.6
E	9.8	.0	4.7	.0	.0	.0	.0	14.5	7.5	.0	8.2	.0	.0	.0		69.8
SE	10.3	.0	3.9	.0	.0	.0	.0	14.2	2.5	.0	17.6	.0	.0	.0		65.6
S	6.5	.0	3.0	.0	.0	.0	.0	9.4	2.6	.0	8.9	.0	1.3	.0		77.9
SW	6.4	.0	3.9	.0	.2	.0	.0	10.6	3.0	.2	6.3	.0	.2	.0		80.0
W	3.9	.4	1.0	.0	5.2	.0	.0	10.5	.7	.7	4.4	.0	.0	1.2		82.8
NW	4.6	.9	1.5	.0	5.1	.0	.0	11.5	2.2	.1	1.2	.1	.8	2.6		81.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.8	.0	.0	.0		84.2
TOT PCT	7.8	.4	2.5	.1	3.2	.0	.0	13.6	2.6	.2	5.0	.1	.4	1.2		77.0
TOT OBS:	1159															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.3	.3	3.2	.0	1.9	.0	.0	12.6	.9	.3	5.7	.0	.3	.9		79.5
06&09	6.9	.0	.9	.3	3.1	.0	.0	10.9	3.4	.0	5.3	.3	.0	1.3		78.8
12&15	8.3	.3	2.4	.0	3.9	.3	.0	14.5	3.9	.3	4.7	.0	.9	1.2		74.5
18&21	9.1	1.4	2.8	.0	2.8	.0	.0	15.4	1.4	.0	4.2	.0	.4	1.4		77.2
TOT PCT	7.9	.5	2.3	.1	2.9	.0	.0	13.3	2.5	.2	5.0	.1	.4	1.2		77.4
TOT OBS:	1259															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	3.7	7.4	3.4	.7	.2		15.7	17.9	15.3	19.4	17.0	15.0	15.0	20.0	14.5	19.0
NE	.2	1.1	2.6	1.3	.6	.0		5.9	18.7	5.7	2.8	6.1	4.0	6.2	2.5	6.4	4.8
E	.2	1.6	1.7	1.8	.3	.0		5.6	17.7	5.1	5.6	4.8	10.0	7.1	10.0	4.9	.0
SE	.0	2.0	3.2	1.9	.6	.0		7.8	18.6	7.3	13.9	9.5	6.0	7.6	2.5	7.7	.0
S	.5	3.4	5.2	2.2	.3	.0		11.5	15.4	11.8	16.7	10.4	14.0	11.6	7.5	12.8	7.1
SW	.4	4.0	5.8	1.6	.3	.1		12.3	14.7	13.3	11..	9.8	10.0	11.2	12.5	15.9	7.1
W	.3	3.7	7.6	4.6	1.1	.2		17.5	18.7	19.0	4.2	19.7	10.0	16.4	12.5	17.1	16.7
NW	.3	4.8	9.4	6.1	1.5	.2		22.4	18.9	20.5	20.4	21.5	31.0	23.2	32.5	20.1	45.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.0	.0	1.6	.0	1.8	.0	.4	.0
TOT OBS	38	262	463	249	59	7	1078		17.4	253	18	243	25	272	20	226	21
TOT PCT	3.5	24.3	42.9	23.1	5.5	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.4	6.3	6.1	1.4	.4		15.7	17.9	15.6	16.8	15.3	14.9
NE	.8	2.1	1.9	1.0	.2		5.9	18.7	5.5	5.9	5.9	6.3
E	.7	2.3	1.8	.7	.1		5.6	17.7	5.2	5.3	7.3	4.5
SE	.8	2.9	2.9	1.1	.1		7.8	18.6	7.7	9.1	7.3	7.1
S	1.8	4.7	4.2	.7	.2		11.5	15.4	12.1	10.4	11.3	12.3
SW	2.6	5.4	3.0	1.0	.2		12.3	14.7	13.2	9.8	11.3	15.2
W	1.6	6.2	6.6	2.6	.4		17.5	18.7	18.0	18.8	16.1	17.1
NW	2.2	7.6	8.2	3.7	.6		22.4	18.9	20.8	22.4	23.8	22.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.8	1.5	1.7	.4
TOT OBS	144	404	374	132	24	1078		17.4	271	268	292	247
TOT PCT	13.4	37.5	34.7	12.2	2.2		100.0		100.0	100.0	100.0	100.0

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TABLE 4

AREA 0019 OKHOTSK SEA SW
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.8	1.8	23.6	45.0	22.9	3.7	1.1	17.2	100.0	271
06&09	1.5	2.6	19.8	39.6	31.0	5.6	.0	18.4	100.0	268
12&15	1.7	2.4	27.4	43.2	17.5	7.2	.7	16.7	100.0	292
18&21	.4	1.6	26.3	44.1	21.5	5.3	.8	17.4	100.0	247
TOT	15	23	262	463	249	59	7	17.4		1078
PCT	1.4	2.1	24.3	42.9	23.1	5.5	.6		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.2	1.4	4.8	6.4		5.9
NE	.5	.2	1.0	3.4		6.6
E	.6	.2	.9	3.5		6.7
SE	.3	.8	1.0	5.8		6.9
S	3.6	1.3	2.1	4.7		4.8
SW	4.3	1.3	3.6	3.8		4.5
W	3.8	1.7	6.6	6.6		5.4
NW	3.2	2.3	6.9	9.2		5.9
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.4	.6		4.6
TOT OBS	161	82	231	372	846	5.6
TOT PCT	19.0	9.7	27.3	44.0	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.1	.0	.4	.6	2.3	3.7	2.0	.0	.0	.0	4.6	
NE	.5	.0	.3	.1	1.5	.9	.6	.1	*	.0	1.0	
E	.5	.0	.2	.2	1.4	1.2	.4	.1	.2	.0	1.0	
SE	1.8	.1	.4	.4	1.7	1.7	.1	.0	.0	.0	1.7	
S	.7	.0	.4	.3	1.7	2.2	.5	.5	.0	.0	5.4	
SW	.6	.1	.1	1.0	.5	2.1	.7	.3	*	.4	7.2	
W	2.0	.1	.2	.9	1.9	5.1	1.6	.4	.3	.1	6.2	
NW	1.7	.0	.3	1.0	3.5	6.4	1.7	.3	.4	.1	6.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.1	.2	.2	.0	.0	.0	1.1	
TOT OBS	77	3	20	38	124	199	66	15	8	5	291	846
TOT PCT	9.1	.4	2.4	4.5	14.7	23.5	7.8	1.8	.9	.6	34.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.1	1.3	1.4	1.4	1.4	1.4	1.4	1.4
* OR >5000	2.3	3.0	3.2	3.2	3.2	3.2	3.2	3.2
* OR >3500	6.4	9.6	10.4	10.4	10.8	10.8	10.8	10.8
* OR >2000	20.3	29.4	32.3	32.9	33.5	33.6	33.6	33.6
* OR >1000	25.5	40.1	45.9	47.3	48.4	48.5	48.6	48.6
* OR >600	27.0	43.7	49.7	51.5	52.7	52.8	52.9	52.9
* OR >300	27.5	44.9	51.5	53.7	54.9	55.0	55.1	55.1
* OR >150	27.6	45.1	51.8	54.0	55.2	55.3	55.5	55.5
* OR > 0	27.8	47.1	56.1	59.1	60.6	61.7	63.8	64.4
TOTAL	252	427	509	536	550	560	579	584

TOTAL NUMBER OF OBS: 907 PCT FREQ NH <5/8: 35.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.2	1.6	6.1	4.3	4.6	5.9	9.5	9.5	34.0	7.8	1012

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.4	.1	.1	*	.0	.0	.1	.4	.0	.0	1.0	
<1/2	NO PCP	.0	.1	.5	.9	.3	.3	.2	.1	.0	.2	2.6	
	TOT %	.4	.2	.6	.9	.3	.3	.3	.5	.0	.2	3.6	
	PCP	.7	.3	.1	.0	.0	.0	.2	.3	.0	.0	1.5	
1/2<1	NO PCP	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.3	
	TOT %	.7	.3	.1	.1	.1	.1	.2	.4	.0	.0	1.8	
	PCP	.3	.4	.0	.1	.1	.3	.5	.4	.0	.0	2.0	
1<2	NO PCP	.2	.0	.1	.2	.4	.1	.1	.2	.0	.0	1.3	
	TOT %	.5	.4	.1	.3	.5	.4	.6	.6	.0	.0	3.3	
	PCP	.7	.8	.4	.7	.4	.3	.5	.8	.0	.0	4.5	
2<5	NO PCP	1.3	.5	.3	1.0	.8	.9	1.1	1.7	.0	.1	7.7	
	TOT %	2.0	1.2	.7	1.7	1.2	1.2	1.6	2.5	.0	.1	12.2	
	PCP	.6	.4	.2	.3	.4	.6	.6	.7	.0	.0	3.9	
5<10	NO PCP	3.6	1.1	1.4	1.3	2.3	2.3	4.0	6.2	.0	.3	22.6	
	TOT %	4.2	1.5	1.6	1.6	2.7	2.9	4.6	6.9	.0	.3	26.5	
	PCP	.3	.1	.0	.0	.2	.1	.2	.2	.0	.0	1.1	
10+	NO PCP	7.6	1.9	2.1	3.1	6.7	7.0	10.2	11.8	.0	1.0	51.4	
	TOT %	7.8	2.0	2.1	3.1	6.9	7.1	10.4	12.0	.0	1.0	32.6	
	TOT OBS												1155
	TOT PCT	15.6	5.5	5.2	7.7	11.7	12.0	17.7	22.9	.0	1.6	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
<1/2	4-10	.0	.0	.1	.1	.1	.2	.0	.2	.0		.9	
	11-21	.1	.1	.3	.4	.2	.1	.2	.1	.0		1.5	
	22+	.3	.1	.2	.3	.0	.0	.2	.2	.0		1.4	
	TOT %	.4	.2	.7	.9	.4	.3	.3	.5	.0	.2	3.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0		.1	
	11-21	.2	.1	.0	*	.1	.0	.0	.1	.0		.6	
	22+	.6	.2	.1	.1	.0	.1	.2	.1	.0		1.4	
	TOT %	.8	.3	.1	.1	.2	.1	.2	.2	.0	.0	2.1	
	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.1	.0	.0	.3	.2	.2	.3	.0		1.3	
	22+	.4	.2	.0	.2	.2	.1	.4	.4	.0		2.0	
	TOT %	.5	.4	.0	.2	.5	.4	.7	.7	.0	.0	3.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	4-10	.3	.1	.1	.2	.7	.5	.2	.5	.0		2.1	
	11-21	1.0	.5	.2	.6	.3	.6	.9	1.1	.0		5.1	
	22+	.8	.7	.3	.8	.6	.1	.5	1.1	.0		5.0	
	TOT %	2.1	1.3	.6	1.6	1.1	1.2	1.7	2.6	.0	.1	12.2	
	0-3	.1	.0	.0	.0	.0	.1	.0	*	.0	.0	.2	
5<10	4-10	1.1	.2	.5	.4	.7	.7	.9	1.0	.0		5.4	
	11-21	2.2	.7	.6	.7	1.5	1.2	1.2	2.3	.0		10.5	
	22+	1.0	.7	.7	.5	.6	.8	2.1	3.3	.0		9.7	
	TOT %	4.3	1.7	1.8	1.6	2.8	2.8	4.2	6.5	.0	.0	25.7	
	0-3	.0	.0	.1	.0	.5	.3	.3	.3	.0	1.1	2.5	
10+	4-10	2.3	.8	1.0	1.4	2.3	2.3	2.3	3.3	.0		15.7	
	11-21	4.2	1.1	.6	1.4	3.0	4.0	5.4	5.2	.0		24.7	
	22+	1.2	.1	.4	.4	1.1	.8	2.7	3.0	.0		9.8	
	TOT %	7.7	2.0	2.1	3.1	6.9	7.4	10.7	11.8	.0	1.1	52.8	
	TOT OBS												1023
	TOT PCT	15.9	5.9	5.2	7.6	11.9	12.1	17.8	22.4	.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)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.4	.0	3.5	6.2	16.7	23.6	7.4	2.7	2.7	.4	68.6	31.4	258
06&09	5.0	1.2	1.9	4.2	17.4	30.5	7.7	1.2	.4	.4	69.9	30.1	259
12&15	14.9	.0	1.8	2.3	9.5	19.4	5.4	1.8	.0	.9	55.9	44.1	222
18&21	10.9	.0	1.0	4.2	14.6	13.5	9.4	1.0	.0	.5	55.2	44.8	192
TOT	81	3	20	40	137	209	69	16	8	5	588	343	931
PCT	8.7	.3	2.1	4.3	14.7	22.4	7.4	1.7	.9	.5	63.2	36.8	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
00&03	2.2	2.9	2.5	8.9	23.8	59.7	315
06&09	3.1	1.9	1.9	11.7	23.5	58.0	324
12&15	5.6	1.5	3.8	15.4	29.0	44.7	338
18&21	4.2	1.1	4.9	12.3	28.8	48.8	285
TOT	48	23	41	153	331	666	1262
PCT	3.8	1.8	3.2	12.1	26.2	52.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.5	11.5	26.1	44.3	29.6	253
06&09	5.1	9.8	22.0	50.0	28.0	254
12&15	15.5	18.3	30.0	30.0	39.9	213
18&21	11.2	13.9	25.1	32.6	42.2	187
TOT	81	119	233	364	310	907
PCT	8.9	13.1	25.7	40.1	34.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.7	.0	.0	.0	.0	.0	1	.7
50/54	.0	.0	.0	.7	.0	1.4	3.6	3.6	13	9.3
45/49	.0	.0	.0	.7	2.9	8.6	7.9	20.0	56	40.0
40/44	.0	.0	.0	.0	3.6	5.0	5.7	10.7	35	25.0
35/39	.0	.0	.0	.0	.7	1.4	2.9	12.9	25	17.9
30/34	.0	.0	.0	.0	.0	.0	.0	5.7	8	5.7
25/29	.0	.0	.0	.0	.0	.0	.7	.7	2	1.4
TOTAL	0	0	1	2	10	23	29	75	140	100.0
PCT	.0	.0	.7	1.4	7.1	16.4	20.7	53.6		

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	.7
1.3	.2	3.6	2.1	.0	1.4	.0	.0	.0	.7
11.6	5.5	7.5	.2	6.3	5.2	2.1	1.6	.0	.0
4.1	7.5	1.3	.7	2.0	1.4	1.6	6.4	.0	.0
3.6	.2	.5	.2	.0	.7	5.0	7.0	.0	.7
2.7	.7	.0	.0	.0	.0	1.8	.5	.0	.0
.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0
23.2	14.1	12.9	3.2	8.2	8.8	12.0	15.5	.0	2.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	64	61	54	43	32	25	23	43.1	303
06&09	58	56	52	43	33	24	19	42.9	324
12&15	59	54	50	42	30	26	25	41.6	328
18&21	65	55	50	41	32	25	20	41.3	295
TOT	65	56	52	43	32	25	19	42.2	1250

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	7.1	3.6	25.0	10.7	53.6	86	28
06&09	.0	.0	13.2	18.4	18.4	50.0	86	38
12&15	.0	2.7	8.1	13.5	21.6	54.1	87	37
18&21	.0	.0	2.7	10.8	29.7	56.8	89	37
TOT	0	3	10	23	29	75	87	140

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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	49 52	53 56	57 60	61 64	65 68	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.2
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	3	.1	.2
9/10	.0	.0	.0	.0	.0	.0	.2	.0	.1	.2	.2	.0	.0	7	.4	.3
7/8	.0	.0	.0	.0	.0	.0	.5	.2	.6	.5	.1	.1	.1	21	.0	2.1
6	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.0	.0	4	.0	.4
5	.0	.0	.0	.0	.0	.0	.1	.5	1.0	.3	.0	.0	.0	19	.1	1.8
4	.0	.0	.0	.0	.0	.1	.6	1.9	.6	.3	.0	.0	.0	35	.4	3.1
3	.0	.0	.0	.0	.0	.0	.3	1.0	.7	.3	.0	.0	.0	23	.1	2.2
2	.0	.0	.0	.0	.1	.1	1.6	4.1	1.0	.3	.0	.0	.0	73	.4	6.8
1	.0	.0	.0	.0	.0	.2	.9	.9	.4	.0	.0	.0	.0	24	.2	2.2
0	.0	.0	.0	.0	.0	.9	3.0	4.3	1.6	.3	.0	.0	.0	102	.2	9.9
-1	.0	.0	.0	.1	.0	1.1	1.2	1.7	.7	.1	.0	.0	.0	49	.3	4.5
-2	.0	.0	.0	.1	.2	1.5	2.4	4.0	1.0	.1	.0	.0	.0	94	.6	8.7
-3	.0	.0	.0	.0	.0	1.8	1.8	1.0	.2	.3	.0	.0	.0	51	.1	4.9
-4	.0	.0	.0	.0	.6	2.7	3.9	2.4	.7	.0	.0	.0	.0	104	1.2	9.1
-5	.0	.0	.0	.0	1.1	3.5	2.8	1.6	.3	.1	.0	.0	.0	95	.3	9.1
-6	.0	.0	.0	.0	.6	1.3	.6	1.3	.0	.1	.0	.0	.0	39	.4	3.4
-7/-8	.0	.0	.0	.2	2.1	3.4	2.0	.5	.3	.0	.0	.0	.0	86	.2	8.3
-9/-10	.0	.0	.2	.5	2.4	1.9	.9	.5	.1	.0	.0	.0	.0	65	.2	6.2
-11/-13	.0	.0	.5	.7	1.1	1.9	1.1	.2	.0	.0	.0	.0	.0	55	.0	5.4
-14/-16	.0	.0	.9	1.1	.9	.5	.4	.1	.0	.0	.0	.0	.0	39	.0	3.8
-17/-19	.1	.0	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	11	.1	1.0
-20/-22	.0	.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	10	.0	1.0
-23/-25	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
TOTAL	2	5	23	35	93	214	244	265	95	31	4	3	1	1015	53	962
PCT	.2	.5	2.3	3.4	9.2	21.1	24.0	26.1	9.4	3.1	.4	.3	.1	100.0	5.2	94.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.2	.0	.0	.0	.6
1-2	.0	1.4	.4	.0	.0	.0	1.8
3-4	.0	.7	1.4	.8	.0	.0	2.8
5-6	.0	.5	2.5	1.3	.0	.0	4.2
7	.0	.2	1.6	.5	.0	.0	2.2
8-9	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.2	.5	.7	.2	.0	1.6
12	.0	.2	.0	.5	.0	.0	.7
13-16	.0	.0	.0	.2	.2	.0	.3
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.2	.0	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	7.2	4.2	.5	.0	15.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.5	.0	.0	.0	.0	.7
1-2	.0	.2	.5	.0	.0	.0	.7
3-4	.0	.2	.9	.0	.0	.0	1.1
5-6	.0	.0	.2	.5	.0	.0	.7
7	.0	.0	.3	.3	.0	.0	.7
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.2	.0	.0	.3
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.9	2.2	1.2	.2	.0	4.7

E

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

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.9	.7	.0	.0	.0	1.6
3-4	.0	.0	1.1	.2	.0	.0	1.3
5-6	.0	*	.5	*	.0	.0	.6
7	.0	.0	.8	.5	.2	.0	1.5
8-9	.0	.0	.4	.7	.1	.0	1.1
10-11	.0	.0	.2	.4	.5	.0	1.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.2	.2	.0	.4
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	3.6	2.6	1.1	.0	9.1

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

TABLE 18 (CONT)

AREA 0019 OKHOTSK SEA SW
51.9N 146.1E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.2	1.0	.0	.0	.0	2.2	.0	.9	1.9	.0	.0	.0	2.8
3-4	.0	.7	1.9	.6	.0	.0	3.2	.2	.9	2.1	.2	.0	.0	3.4
5-6	.0	.3	.9	.5	.0	.0	1.7	.0	.0	.8	.3	.0	.0	1.1
7	.0	.2	.5	.5	.0	.0	1.2	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.3	.2	.1	.0	.6	.0	.0	.5	.4	*	.0	.9
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.2	.2	.2	.0	.0	.6
12	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.3	.0	.0	.0	.3	.3	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.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
TOT PCT	.2	3.2	4.5	2.7	.5	.0	11.1	.2	2.9	5.9	2.3	.4	.0	11.7

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.8	.0	.0	.0	.0	.9	.2	1.2	.2	.0	.0	.0	1.6	
1-2	.0	1.3	2.4	.0	.0	.0	3.7	.0	1.2	2.7	.0	.0	.0	4.0	
3-4	.0	.5	2.6	.5	.0	.0	3.5	.0	.9	2.4	.6	.0	.0	3.9	
5-6	.0	.4	1.3	2.1	.0	.0	3.8	.0	.2	2.3	1.6	.0	.0	4.2	
7	.0	.2	1.4	1.7	.3	.0	3.6	.0	.0	1.2	1.6	.2	.0	3.0	
8-9	.0	.0	.8	.9	.1	.0	1.8	.0	.2	.5	.8	.3	.0	1.8	
10-11	.0	.0	.7	.2	.2	.0	1.0	.0	.0	.2	1.2	.2	.0	1.6	
12	.0	.0	.0	.2	.2	.1	.5	.0	.0	.0	.2	.5	.2	.9	
13-16	.0	.0	.2	.2	.3	.2	.8	.0	.0	.0	.8	.3	.0	1.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.3	
23-25	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	3.1	9.3	5.7	1.1	.3	19.7	.2	3.7	9.6	7.0	2.1	.4	22.9	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	5.9	.3	.0	.0	.0	8.9	
1-2	.0	7.6	9.7	.0	.0	.0	17.3	
3-4	.2	4.0	12.7	2.8	.0	.0	19.6	
5-6	.0	1.6	8.9	6.4	.0	.0	17.0	
7	.0	.5	6.4	5.9	.8	.0	13.7	
8-9	.0	.2	3.3	3.3	.8	.0	7.6	
10-11	.0	.3	2.0	4.0	1.0	.0	7.2	
12	.0	.2	.0	1.3	.8	.3	2.6	
13-16	.0	.0	.2	2.1	1.8	.2	4.3	
17-19	.0	.0	.0	.3	.5	.0	.8	
20-22	.0	.0	.0	.2	.2	.2	.5	
23-25	.0	.0	.0	.2	.0	.0	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.2	.0	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	20.3	43.5	26.7	6.1	.7	100.0	607

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.1	5.7	8.2	6.0	4.7	1.8	1.6	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	296	5
6-7	.1	.5	1.6	2.4	3.6	3.1	1.9	.8	.4	.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	159	8
8-9	.0	.0	.5	.7	1.7	2.3	2.1	1.1	1.4	.4	.0	.0	.1	.0	.0	.0	.0	.0	.0	105	9
10-11	.0	.2	.2	.2	.6	.3	1.1	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	9
12-13	.0	.0	.5	.4	.2	.5	.7	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	9
>13	.0	.0	.0	.0	.0	.4	.8	.0	1.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	24	13
INDET	2.0	2.8	6.4	7.6	9.5	4.5	1.6	.4	1.4	.1	.0	.2	.2	.1	.0	.0	.0	.0	.0	377	6
TOTAL	23	94	178	178	207	132	99	35	52	11	6	5	3	2	0	0	0	0	0	1025	7
PCT	2.2	9.2	17.4	17.4	20.2	12.9	9.7	3.4	5.1	1.1	.6	.5	.3	.2	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1935-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.7	.7	.5	.0	23.7	.5	.7	27.9	8.4	.0	1.0	.0	.0		.5	62.2
NE	1.0	2.7	1.7	.0	12.0	.3	1.4	17.8	7.5	.0	.3	.0	1.4		.0	72.9
E	5.1	2.9	2.9	.0	8.8	2.2	.0	21.9	7.3	.0	.0	.0	.0		.0	70.8
SE	8.1	.0	4.0	.0	16.7	.5	.0	29.3	.5	.0	2.0	.0	2.0		.0	66.2
S	1.6	4.3	3.7	.0	3.2	.0	.0	12.8	10.1	.0	1.6	2.1	.0		.0	73.4
SW	2.5	1.1	2.5	.0	8.6	.0	.0	12.5	3.3	.0	.3	.0	.0		.0	83.9
W	.3	.0	.5	.0	25.8	.0	.0	26.6	7.3	.0	.9	.0	.9		.0	64.3
NW	.8	.0	.4	.0	23.6	.0	.4	24.4	6.5	.0	.5	.4	.4		.1	67.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0	.0	.0	.0		.0	94.4
TOT PCT	1.6	.7	1.2	.0	19.5	.2	.3	22.9	6.6	.0	.7	.2	.5		.1	68.9
TOT OBS:	951															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.0	.6	1.0	.0	17.8	.3	.0	20.7	6.1	.0	1.0	.6	.6		.3	70.6
06&09	2.0	.0	.8	.4	18.4	.0	.4	22.0	9.4	.0	1.2	.0	.0		.0	67.5
12&15	2.3	1.5	1.5	.0	23.8	.0	.8	28.3	5.3	.0	.4	.0	1.1		.0	64.9
18&21	1.0	.5	1.0	.0	15.1	.5	.0	17.1	6.8	.0	.0	.0	.0		.0	76.1
TOT PCT	1.5	.7	1.1	.1	19.0	.2	.3	22.2	6.9	.0	.7	.2	.5		.1	69.4
TOT OBS:	1034															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	2.1	8.4	3.6	.9	.1		15.4	18.7	15.1	.0	15.8	25.0	14.3	50.0	16.8	.0
NE	.1	1.8	4.0	1.7	.4	.1		8.1	17.5	9.4	66.7	5.2	25.0	8.3	.0	8.5	.0
E	.3	.8	1.6	1.0	.1	.0		3.9	16.1	4.8	.0	3.5	.0	3.7	.0	3.6	.0
SE	.0	1.6	2.7	.6	*	.0		5.0	14.3	3.9	.0	6.9	.0	5.6	.0	3.7	.0
S	.1	2.3	1.7	.5	.2	.0		4.8	13.1	4.5	.0	4.4	.0	4.6	.0	6.2	.0
SW	.4	2.8	5.1	.9	.6	.0		9.8	15.6	11.0	.0	8.6	.0	10.5	.0	8.9	.0
W	.0	2.8	8.8	7.3	2.9	.6		22.2	22.8	23.5	.0	26.3	.0	20.1	.0	18.8	37.5
NW	.0	2.9	12.1	11.6	2.3	.4		29.4	22.3	26.7	33.3	28.3	50.0	30.8	50.0	31.8	62.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.1	.0	1.0	.0	2.2	.0	1.7	.0
TOT OBS	24	153	391	241	66	10	885		19.4	263	3	210	2	229	2	174	2
TOT PCT	2.7	17.3	44.2	27.2	7.5	1.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.3	4.8	7.4	1.6	.3		15.4	18.7	14.9	15.9	14.6	16.6
NE	1.0	2.7	3.4	.9	.1		8.1	17.5	10.1	5.4	8.2	8.4
E	.7	1.4	1.0	.8	.0		3.9	16.1	4.7	3.4	3.7	3.6
SE	.9	2.4	1.5	.3	.0		5.0	14.3	3.9	6.8	5.5	3.7
S	.8	2.9	.8	.3	.0		4.8	13.1	4.4	4.4	4.5	6.1
SW	1.4	4.7	2.7	.8	.1		9.8	15.6	10.9	8.5	10.4	8.8
W	.9	5.7	9.7	4.3	1.7		22.2	22.8	23.2	26.1	19.9	19.0
NW	.7	6.9	15.3	5.1	1.3		29.4	22.3	26.8	28.5	31.0	32.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.1	.9	2.2	1.7
TOT OBS	81	280	369	124	31	885		19.4	266	212	231	176
TOT PCT	9.2	31.6	41.7	14.0	3.5		100.0		100.0	100.0	100.0	100.0

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(OVER-ALL) 1935-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
				WIND SPEED (KNOTS)						
00&03	1.1	1.5	13.9	50.4	22.9	10.2	.0	19.8	100.0	266
06&09	.9	1.4	20.3	40.1	29.7	6.1	1.4	19.2	100.0	212
12&15	2.2	.9	16.0	41.6	29.9	8.2	1.3	19.8	100.0	231
18&21	1.7	1.1	20.5	43.2	27.3	4.0	2.3	18.4	100.0	176
TOT	13	11	153	391	241	66	10	19.4		885
PCT	1.5	1.2	17.3	44.2	27.2	7.5	1.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	1.2	5.4	6.4		6.3
NE	.5	.5	1.9	4.6		6.8
E	.0	.1	1.2	2.0		7.3
SE	.1	.1	.5	4.2		7.5
S	.5	.4	1.6	2.0		6.1
SW	1.6	1.1	4.5	3.0		5.6
W	2.8	2.8	9.0	10.3		6.1
NW	3.6	3.0	12.1	10.0		5.9
VAR	.0	.0	.0	.0		.0
CALM	.6	.4	.6	.4		4.5
TOT OBS	77	69	262	307	715	6.1
TOT PCT	10.8	9.7	36.6	42.9	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.3	.1	.1	.9	4.3	4.2	.6	.1	.1	.0	3.0	
NE	.4	*	.1	.6	2.2	2.1	.6	.0	.0	.2	1.0	
E	.0	.0	.1	.1	.7	1.6	.1	.0	.1	.1	.4	
SE	.6	.0	.3	.3	1.6	1.6	.1	.0	*	.0	.5	
S	.2	.1	.0	.0	.8	1.6	.1	.2	.0	.0	1.4	
SW	.3	*	.2	.1	2.8	2.9	.4	*	.0	.0	3.5	
W	1.6	.1	.3	.3	6.6	7.3	.8	.4	.1	.1	7.0	
NW	1.9	.1	.6	1.2	6.4	8.0	1.4	.7	.3	.0	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.4	.3	.0	.0	.0	1.0	
TOT OBS	39	4	13	26	186	212	32	11	5	3	184	715
TOT PCT	5.5	.6	1.8	3.6	26.0	29.7	4.5	1.5	.7	.4	25.7	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.8	1.0	1.2	1.2	1.2	1.2	1.2	1.2
* OR >5000	1.8	2.6	2.7	2.7	2.7	2.7	2.7	2.7
* OR >3500	4.6	6.6	7.0	7.2	7.3	7.3	7.3	7.3
* OR >2000	17.8	29.2	34.4	35.4	36.1	36.3	36.5	36.5
* OR >1000	26.0	46.0	54.6	57.6	59.6	60.9	61.8	61.8
* OR >600	26.2	47.5	57.4	60.8	63.2	65.0	65.9	65.9
* OR >300	26.7	49.0	59.1	62.6	65.1	66.9	67.8	67.8
* OR >150	27.1	49.3	59.6	63.2	65.6	67.4	68.4	68.4
* OR > 0	27.1	49.5	60.9	65.8	69.3	72.0	73.4	74.0
TOTAL	208	380	468	505	532	553	564	568

TOTAL NUMBER OF OBS: 768

PCT FREQ NH <5/8: 26.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.2	2.5	3.3	4.4	4.7	6.6	12.1	15.9	36.3	5.0	879

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.7	.2	.1	.2	.1	.2	1.3	2.2	.0	.0	4.8	
<1/2	NO PCP	.3	.1	.0	.1	.1	*	.4	.5	.0	.0	1.5	
	TOT %	.9	.3	.1	.3	.2	.2	1.7	2.6	.0	.0	6.3	
	PCP	.5	.1	.1	.4	.1	.4	1.1	.9	.0	.0	3.7	
1/2<1	NO PCP	.0	.1	.0	.0	.0	.1	.2	.1	.0	.0	.5	
	TOT %	.9	.2	.1	.4	.1	.5	1.3	1.0	.0	.0	4.2	
	PCP	.5	.3	.1	.4	.0	*	.8	1.5	.0	.0	3.7	
1<2	NO PCP	.2	*	.1	.1	.2	.0	.3	.4	.0	.0	1.3	
	TOT %	.7	.3	.2	.5	.2	*	1.1	1.9	.0	.0	4.9	
	PCP	1.7	.5	.2	.2	.3	.4	1.9	1.6	.0	.0	6.9	
2<5	NO PCP	1.4	.7	.2	.3	.6	.6	1.0	2.2	.0	.0	6.9	
	TOT %	3.1	1.2	.3	.5	.9	1.1	2.9	3.8	.0	.0	13.8	
	PCP	.7	.3	.3	.2	.2	.3	.9	1.2	.0	.0	4.1	
5<10	NO PCP	3.4	2.2	1.0	1.8	.9	1.8	5.2	7.0	.0	.3	23.6	
	TOT %	4.1	2.6	1.3	2.0	1.0	2.1	6.0	8.2	.0	.3	27.6	
	PCP	.2	.0	.0	.0	.0	.1	.2	.1	.0	.0	.6	
10+	NO PCP	5.3	3.2	1.6	1.4	2.5	5.7	9.8	11.5	.0	1.6	42.5	
	TOT %	5.5	3.2	1.6	1.4	2.5	5.8	10.0	11.6	.0	1.6	43.1	
	TOT OBS												955
	TOT PCT	14.7	7.7	3.6	5.2	4.9	9.7	23.0	29.2	.0	1.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.0	.1	.0	.0	.1	*	.0	.2	.0		.5	
	11-21	.2	.1	.1	.2	.1	.1	.4	.5	.0		1.9	
	22+	.7	.1	.0	.0	.0	.0	.9	1.5	.0		3.1	
	TOT %	.8	.3	.1	.2	.2	.2	1.3	2.3	.0	.0	5.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.0	.0	.1	.0	.2	.1	*	.0		.6	
	11-21	.2	.1	.0	.3	.1	.1	.3	*	.0		1.2	
	22+	.2	.1	.1	.1	.0	.3	.8	1.1	.0		2.7	
	TOT %	.5	.2	.1	.5	.1	.6	1.2	1.1	.0	.0	4.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.2	.1	.0	.1	.2	.0	.0	.1	.0		.8	
	11-21	.2	.1	.1	.3	.0	.0	.2	.6	.0		1.5	
	22+	.2	.1	.1	.1	.0	*	.9	1.2	.0		2.7	
	TOT %	.6	.4	.2	.5	.2	*	1.1	2.0	.0	.0	5.0	
	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
2<5	4-10	.4	.3	.0	.1	.0	.1	.2	.1	.0		1.3	
	11-21	1.5	.4	.0	.2	.6	.9	.9	1.7	.0		6.3	
	22+	1.4	.6	.3	.1	.2	.1	1.8	1.9	.0		6.4	
	TOT %	3.3	1.3	.4	.5	.8	1.2	2.9	3.7	.0	.0	14.0	
	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.5	
5<10	4-10	.5	.5	.3	.8	.5	.8	.6	1.2	.0		5.3	
	11-21	2.7	1.4	.5	1.0	.3	1.0	2.2	2.6	.0		11.8	
	22+	1.1	.8	.4	.2	.3	.3	3.1	4.3	.0		10.4	
	TOT %	4.3	2.7	1.4	2.0	1.2	2.1	5.8	8.2	.0	.3	28.0	
	0-3	.2	.1	.1	.0	.1	.4	.0	.0	.0	1.2	2.1	
10+	4-10	.9	.9	.4	.5	1.5	1.7	2.0	1.2	.0		9.1	
	11-21	3.6	1.8	.8	.7	.7	3.0	4.6	6.0	.0		21.1	
	22+	.9	.5	.2	.1	.2	.8	3.5	4.6	.0		10.9	
	TOT %	5.6	3.3	1.6	1.4	2.5	5.9	10.1	11.8	.0	1.2	43.2	
	TOT OBS												8
	TOT PCT	15.0	8.2	3.8	5.1	4.9	10.0	22.5	29.1	.0	1.5	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)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.0	.8	2.3	5.6	28.2	31.2	3.8	1.5	.0	.4	76.7	23.3	266
06&09	3.3	.5	1.9	3.7	27.0	34.4	4.7	2.3	1.4	.0	79.1	20.9	215
12&15	13.6	.0	1.2	1.8	23.7	20.1	4.1	.6	1.2	.6	66.9	33.1	169
18&21	4.4	.7	2.2	3.7	16.3	27.4	5.9	1.5	.7	.7	63.7	36.3	135
TOT	44	4	15	31	195	228	35	12	6	3	573	212	785
PCT	5.6	.5	1.9	3.9	24.8	29.0	4.5	1.5	.8	.4	73.0	27.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	6.1	3.5	4.2	11.2	24.9	50.2	313
06&09	5.9	5.1	4.9	10.7	30.4	43.5	253
12&15	8.2	5.2	7.5	18.7	26.6	33.7	267
18&21	3.9	3.4	3.9	13.6	30.1	45.1	206
TOT	64	45	52	140	288	450	1039
PCT	6.2	4.3	5.0	13.5	27.7	43.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.0	11.0	27.3	51.1	21.6	264
06&09	3.3	13.2	28.3	50.9	20.8	212
12&15	14.2	21.0	38.9	33.3	27.8	162
18&21	3.8	10.8	23.8	43.1	33.1	130
TOT	43	105	226	353	189	768
PCT	5.6	13.7	29.4	46.0	24.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	3.1	.0	.0	.0	.0	1	3.1
50/54	.0	.0	.0	.0	.0	.0	.0	3.1	1	3.1
45/49	.0	.0	.0	.0	.0	6.3	3.1	.0	3	9.4
40/44	.0	.0	.0	.0	.0	21.9	6.3	15.6	14	43.8
35/39	.0	.0	.0	.0	6.3	.0	6.3	6.3	6	18.8
30/34	.0	.0	.0	.0	.0	.0	3.1	3.1	2	6.3
25/29	.0	.0	.0	3.1	.0	.0	.0	3.1	2	6.3
15/19	.0	.0	.0	.0	.0	3.1	.0	6.3	3	9.4
TOTAL	0	0	0	2	2	10	6	12	32	100.0
PCT	.0	.0	.0	6.3	6.3	31.3	18.8	37.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0
3.1	.0	.0	.0	.0	.0	5.5	.0	.0	.0
.0	12.5	3.1	3.9	7.8	10.2	3.1	3.1	.0	.0
.0	6.3	.0	.0	.0	6.3	6.3	.0	.0	.0
3.1	.0	.0	.0	.0	.0	.0	3.1	.0	.0
2.3	.0	.0	.0	3.1	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	7.0	2.3	.0	.0
8.6	18.8	3.1	7.0	10.9	20.3	21.9	9.4	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	59	46	41	29	16	10	9	29.6	288
06&09	58	52	43	30	17	10	7	30.4	247
12&15	54	45	42	28	17	9	-2	28.9	258
18&21	54	46	42	28	14	8	7	28.9	201
TOT	59	48	42	29	16	10	-2	29.5	994

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.7	6.7	33.3	20.0	33.3	82	15
06&09	.0	20.0	.0	40.0	.0	40.0	81	5
12&15	.0	.0	.0	20.0	40.0	40.0	87	5
18&21	.0	.0	14.3	28.6	14.3	42.9	84	7
TOT	0	2	2	10	6	12	83	32

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1935-1974

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 17

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

AIR-SEA TMP DIF	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.1	.0	.0	6	.0	.8
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	2	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.4	.0	.4	.1	11	.0	1.4
4	.0	.0	.0	.0	.0	.0	.0	.1	.4	.6	.0	.0	.0	.0	9	.0	1.1
3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.5	.0	.0	.0	.0	5	.0	.6
2	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.6	.0	.0	.0	.0	13	.0	1.7
1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.1	.1	.0	.0	5	.0	.6
0	.0	.0	.0	.0	.0	.1	.4	.4	1.5	1.5	.3	.0	.0	.0	33	.0	4.2
-1	.0	.0	.0	.0	.0	.0	.0	.6	.6	.4	.4	.0	.0	.0	16	.0	2.0
-2	.0	.0	.0	.0	.0	.3	.3	1.1	1.7	.9	.0	.0	.0	.0	33	.1	4.1
-3	.0	.0	.0	.0	.0	.1	.1	1.0	1.4	.3	.0	.0	.0	.0	23	.0	2.9
-4	.0	.0	.0	.0	.0	.5	.9	1.5	.8	.5	.1	.0	.0	.0	34	.0	4.3
-5	.0	.0	.0	.0	.0	.5	1.3	3.1	.6	.1	.0	.0	.0	.0	44	.1	5.5
-6	.0	.0	.0	.0	.0	.6	.8	1.4	.0	.0	.0	.0	.0	.0	22	.0	2.8
-7/-8	.0	.0	.0	.0	.1	3.1	6.0	3.1	.6	.0	.0	.0	.0	.0	101	.1	12.8
-9/-10	.0	.0	.0	.1	1.5	5.0	4.0	1.8	.5	.1	.0	.0	.0	.0	102	.1	12.9
-11/-13	.0	.0	.0	.3	4.2	6.8	2.7	.6	.0	.0	.0	.0	.0	.0	114	.0	14.5
-14/-16	.0	.0	.0	4.1	3.3	4.7	.5	.0	.0	.0	.0	.0	.0	.0	99	.1	12.5
-17/-19	.0	.0	.9	1.4	2.0	.9	.5	.0	.0	.0	.0	.0	.0	.0	45	.0	5.7
-20/-22	.0	.3	1.0	1.0	.3	1.0	.1	.0	.0	.0	.0	.0	.0	.0	29	.0	3.7
-23/-25	.1	.5	.6	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	20	.0	2.6
-26/-30	.4	.8	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	.0	1.5
<-30	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.1	.0
TOTAL	4	12	23	60	93	187	137	117	77	54	12	4	3	1	784	6	778
PCT	.5	1.5	2.9	7.7	11.9	23.9	17.5	14.9	9.8	6.9	1.5	.5	.4	.1	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.1	.0	.0	.0	.0	.4
1-2	.0	.4	1.3	.0	.0	.0	1.7
3-4	.0	.7	1.9	.3	.0	.0	2.9
5-6	.0	.3	1.9	.7	.0	.0	2.9
7	.0	.3	1.7	.8	.0	.0	2.9
8-9	.0	.0	.9	.3	.3	.0	1.5
10-11	.0	.0	.7	.4	.4	.0	1.5
12	.0	.0	.1	.6	.2	.0	.9
13-16	.0	.0	.3	.4	.1	.1	1.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.2	.0	.2
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.9	8.9	3.8	1.3	.1	16.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	*	.0	.0	.0	.0	*
1-2	.0	.4	.4	.0	.0	.0	.8
3-4	.0	.5	1.3	.2	.0	.0	2.0
5-6	.0	.0	1.5	.5	.0	.0	2.0
7	.0	.2	.4	.2	.0	.0	.8
8-9	.0	.0	.2	.3	*	.0	.5
10-11	.0	.0	*	.2	.0	.0	.2
12	.0	.0	.4	.5	.0	.0	.9
13-16	.0	.0	.0	.2	.2	.2	.5
17-19	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	4.2	2.1	.4	.2	7.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.4
1-2	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.2	.7	.3	.0	.0	1.2
5-6	.0	.2	.4	.0	.0	.0	.6
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.1	.4	.1	.0	.6
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.2	.2	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	.6	1.6	1.3	.1	.0	3.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.3	.0	.0	.0	1.1
1-2	.0	.5	.5	.0	.0	.0	1.0
3-4	.0	.5	1.3	*	.0	.0	1.9
5-6	.0	.2	.5	.2	.0	.0	.8
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	2.6	.7	.0	.0	5.3

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

AREA 0019 OKHOTSK SEA SW
51.9N 146.4E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.2	.6	.0	.0	.0	.0	.7
1-2	.0	1.0	.4	.0	.0	.0	1.4	.2	1.2	.5	.0	.0	.0	1.9
3-4	.0	.3	.3	.3	.0	.0	.9	.2	.7	.6	.0	.0	.0	1.5
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.2	.9	.2	.0	.0	1.2
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.5	.3	.0	.0	.8
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.2	.0	.2	.0	.2	.2	*	.2	.0	.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.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	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.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
TOT PCT	.0	1.9	1.2	.3	.2	.0	3.5	.5	2.9	3.7	.7	.7	.0	8.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.4	.2	.0	.0	.0	.6	.0	.7	.0	.0	.0	.0	.7	
1-2	.0	1.6	1.0	.0	.0	.0	2.6	.0	.4	1.4	.0	.0	.0	1.8	
3-4	.0	.7	3.3	.5	.0	.0	4.5	.0	.6	2.7	1.5	.0	.0	4.8	
5-6	.0	.2	2.1	1.5	.2	.0	4.1	.0	.2	3.0	1.1	.2	.0	4.6	
7	.0	.0	.6	2.7	.2	.0	3.6	.0	*	2.3	3.6	.4	.0	6.3	
8-9	.0	.0	.7	2.2	.3	.2	3.4	.0	.2	1.5	1.8	.2	.0	3.7	
10-11	.0	.0	.8	.7	.5	.2	2.1	.0	.0	.5	1.9	.8	.3	3.6	
12	.0	.0	.1	.6	.0	.0	.7	.0	.0	*	.7	.0	.0	.7	
13-16	.0	.0	.0	.3	1.1	.2	1.5	.0	.0	.0	.5	.6	*	1.2	
17-19	.0	.0	.1	.0	.6	.2	.8	.0	.0	*	.5	.2	.0	.7	
20-22	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0	.2	.5	.0	.7	
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	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.9	9.0	8.5	3.1	.8	24.2	.0	2.1	11.6	11.8	3.0	.4	28.8	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	3.6	.5	.0	.0	.0	6.5	
1-2	.2	5.5	5.7	.0	.0	.0	11.3	
3-4	.2	4.2	12.3	3.1	.0	.0	19.7	
5-6	.0	1.1	10.5	4.2	.5	.0	16.3	
7	.0	.5	5.7	8.1	.6	.0	14.9	
8-9	.0	.2	4.2	5.2	1.0	.2	10.7	
10-11	.0	.2	2.3	3.6	2.1	.5	8.6	
12	.0	.0	1.0	2.6	.3	.0	3.9	
13-16	.0	.2	.5	1.6	1.9	.5	4.7	
17-19	.0	.0	.2	.5	1.0	.2	1.8	
20-22	.0	.0	.0	.3	.8	.2	1.3	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.2	.0	.2	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.7	15.3	42.6	29.1	8.7	1.5	100.0	619

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	2.8	7.3	7.0	5.0	2.1	1.6	.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	258	5
6-7	.0	.1	1.2	2.1	6.4	2.6	2.6	.6	1.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	162	8
8-9	.0	.1	1.0	1.3	.8	1.9	2.6	1.2	1.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	102	9
10-11	.0	.2	.1	.2	.2	.6	.2	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	9
12-13	.0	.0	.8	.3	.1	.3	.5	.2	.4	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	37	11
>13	.0	.0	.0	.4	.2	.2	.2	.1	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	15	10
INDET	1.2	1.5	4.8	9.2	8.5	5.3	3.0	1.1	1.3	.2	.0	.1	.0	.1	.0	.0	.0	.0	.0	341	6
TOTAL	15	44	143	194	200	124	102	40	46	21	10	4	0	1	0	0	0	0	0	944	7
PCT	1.6	4.7	15.1	20.6	21.2	13.1	10.8	4.2	4.9	2.2	1.1	.4	.0	.1	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.8	.0	.0	.0	42.3	.0	.0	43.0	5.8	.0	2.5	.0	.0	.0		48.8
NE	.0	.0	.0	.0	28.3	1.6	.0	29.9	3.1	.0	3.5	.0	.0	.0		63.4
E	1.9	.0	.0	.0	34.2	.0	.0	36.1	5.7	.0	5.1	.0	.0	.0		53.2
SE	3.5	.0	2.8	.0	24.8	.0	.0	28.4	10.6	.0	.0	.0	.0	.0		61.0
S	.0	.0	6.8	.0	12.8	.0	.0	19.7	.0	.0	2.6	.0	.0	2.6		75.2
SW	.0	.0	.0	.0	25.3	.0	.0	25.3	6.0	.0	5.1	1.8	.0	.5		61.3
W	.0	.0	.0	.0	31.2	.0	.0	31.2	3.2	.0	1.9	.0	.0	.0		63.7
NW	.2	.0	.0	.0	40.0	.0	.0	40.2	7.3	.0	2.6	.0	.0	.6		49.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	9.1	.0	.0	9.1	9.1	.0	9.1	.0	.0	.0		72.7
TOT PCT	.5	.0	.5	.0	33.0	.2	.0	34.0	5.4	.0	2.9	.2	.0	.3		57.3
TOT OBS:	627															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.1	.0	.5	.0	36.0	.0	.0	35.6	6.4	.0	5.9	.5	.0	.5		51.1
06&09	.0	.0	.6	.0	29.8	.0	.0	30.4	4.8	.0	2.4	.0	.0	.0		62.5
12&15	1.1	.5	.0	.0	38.6	.5	.0	40.2	7.1	.0	1.6	.0	.0	.0		51.1
18&21	.0	.0	.7	.0	29.9	.0	.0	30.6	5.4	.0	.7	.0	.7	1.4		61.2
TOT PCT	.6	.1	.4	.0	33.3	.1	.0	34.5	6.0	.0	2.8	.1	.1	.4		56.0
TOT OBS:	687															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	2.0	6.7	6.1	.9	.0		16.3	20.0	14.8	.0	21.6	.0	14.9	.0	14.6	25.0
NE	.3	1.3	5.0	2.1	.4	.0		8.9	17.1	7.0	.0	10.3	.0	9.5	.0	10.0	.0
E	.0	1.8	1.6	1.8	1.2	.0		6.4	20.5	10.3	37.5	7.4	.0	4.6	.0	2.6	.0
SE	.0	.6	1.5	2.2	.4	.0		4.7	22.1	3.4	12.5	3.2	20.0	5.3	.0	5.9	25.0
S	.0	1.3	2.2	.8	.2	.0		4.5	16.8	4.8	.0	3.9	.0	4.6	.0	4.7	.0
SW	.3	1.8	3.3	3.1	.2	.0		8.9	18.4	8.9	12.5	12.8	.0	8.3	.0	5.7	6.3
W	.0	3.0	11.2	6.6	1.3	.0		22.1	20.2	22.0	37.5	19.0	35.0	23.7	.0	22.8	18.8
NW	.0	1.7	13.1	9.6	2.1	.3		26.8	22.4	26.7	.0	20.4	45.0	28.4	.0	32.1	25.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	1.9	.0	1.4	.0	.6	.0	1.6	.0
TOT OBS	15	80	266	192	40	2	595		20.0	160	2	141	5	156	0	127	4
TOT PCT	2.5	13.4	44.7	32.3	6.7	.3		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.0	4.5	8.0	2.6	.2		16.3	20.0	14.7	20.9	14.9	14.9
NE	.7	3.6	3.9	.8	.0		8.9	17.1	6.9	9.9	9.5	9.7
E	.9	2.0	1.5	2.0	.0		6.4	20.5	10.6	7.2	4.6	2.5
SE	.2	1.1	2.3	1.1	.0		4.7	22.1	3.5	3.8	5.3	6.5
S	.5	1.9	1.4	.6	.0		4.5	16.8	4.8	3.8	4.6	4.6
SW	.6	3.4	3.5	1.4	*		8.9	18.4	9.0	12.3	8.3	5.7
W	1.1	7.5	8.7	4.5	.3		22.1	20.2	22.2	19.5	23.7	22.7
NW	.7	5.5	14.3	5.3	1.0		26.8	22.4	26.4	21.2	28.4	31.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.9	1.4	.6	1.5
TOT OBS	42	175	260	109	9	595		20.0	162	146	156	131
TOT PCT	7.1	29.4	43.7	18.3	1.5		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.9	.6	9.9	46.9	34.0	5.6	1.2	20.5	100.0	162
06&09	1.4	2.7	15.8	41.1	33.6	5.5	.0	19.4	100.0	146
12&15	.6	1.3	12.8	42.3	34.6	8.3	.0	20.7	100.0	156
18&21	1.5	.0	16.0	48.9	26.0	7.6	.0	19.1	100.0	131
TOT	8	7	80	266	192	40	2	20.0		595
PCT	1.3	1.2	13.4	44.7	32.3	6.7	.3		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.7	3.6	11.4		7.4
NE	.4	.1	4.0	5.7		7.0
E	.7	.0	.4	6.3		7.2
SE	.2	.4	.4	4.3		7.1
S	.8	.5	.8	2.2		5.7
SW	.9	.9	5.1	2.9		6.0
W	2.9	3.0	7.1	7.5		5.6
NW	1.2	2.3	10.0	11.7		6.6
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	.7		5.4
TOT OBS	34	36	145	238	453	6.5
TOT PCT	7.5	7.9	32.0	52.5	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.4	.0	.7	1.6	3.3	6.6	1.0	.7	.2	.2	1.0	
NE	.6	.7	.1	1.2	3.3	3.1	1.1	.0	.0	.0	.6	
E	2.2	.0	.0	.4	.9	1.7	1.0	.2	.0	.0	1.1	
SE	.3	.0	.0	.0	1.7	1.1	1.7	.1	.0	.0	.7	
S	.6	.0	.0	.3	1.1	.6	.0	.0	.0	.0	1.7	
SW	.6	.0	.1	.6	1.8	3.0	.8	.0	.0	.4	2.4	
W	.9	.0	1.0	.8	4.4	5.8	1.1	.0	.0	.0	6.4	
NW	2.6	.0	.3	1.5	6.3	7.9	1.9	.4	.1	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.4	.4	.0	.0	.0	.0	.4	
TOT OBS	47	1	10	29	105	128	39	6	1	3	84	453
TOT PCT	10.4	.2	2.2	6.4	23.2	28.3	8.6	1.3	.2	.7	18.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	.2	.8	.8	.8	.8	.8	.8	.8
▪ OR >5000	.6	1.5	1.9	1.9	2.1	2.1	2.1	2.1
▪ OR >3500	4.4	7.6	9.2	9.5	10.1	10.1	10.1	10.1
▪ OR >2000	13.0	27.1	33.8	35.9	36.8	38.0	38.0	38.0
▪ OR >1000	15.8	35.7	50.8	55.9	57.6	59.9	60.7	60.7
▪ OR >600	17.0	38.7	55.0	60.7	62.8	65.5	66.8	66.8
▪ OR >300	17.2	39.1	55.7	61.8	64.5	67.4	69.1	69.1
▪ OR >150	17.4	39.3	55.9	62.0	64.7	67.6	69.3	69.3
▪ OR > 0	17.4	40.3	60.1	67.0	71.4	77.1	80.7	80.9
TOTAL	83	192	286	319	340	367	384	385

TOTAL NUMBER OF OBS: 476 PCT FREQ NH <5/8: 19.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.4	1.2	2.8	4.0	3.9	5.9	10.7	11.6	46.4	9.2	597

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	2.3	.5	.9	*	.3	.7	1.4	2.0	.0	.0	8.1	
<1/2	NO PCP	.3	*	.3	.0	.0	.2	.2	.2	.0	.0	1.3	
	TOT %	2.5	.6	1.2	*	.3	.9	1.7	2.1	.0	.0	9.4	
	PCP	1.2	.2	.1	.2	.0	.3	1.0	2.6	.0	.0	5.6	
1/2<1	NO PCP	.3	.2	.0	.0	.0	.0	.0	.3	.0	.0	.8	
	TOT %	1.5	.4	.1	.2	.0	.3	1.0	2.9	.0	.0	6.4	
	PCP	1.1	.8	.3	.8	.0	*	1.9	1.5	.0	.2	6.5	
1<2	NO PCP	.0	.0	.0	*	.1	.2	.3	.6	.0	.0	1.3	
	TOT %	1.1	.8	.3	.8	.1	.2	2.2	2.1	.0	.2	7.8	
	PCP	.9	1.5	1.0	.4	.5	.8	2.0	3.7	.0	.0	10.8	
2<5	NO PCP	2.3	1.3	.1	.2	.4	1.0	1.6	2.0	.0	.5	9.4	
	TOT %	3.2	2.8	1.1	.6	.9	1.9	3.7	5.7	.0	.5	20.2	
	PCP	1.1	*	.3	.2	.0	.3	.6	.8	.0	.0	3.3	
5<10	NO PCP	3.5	2.9	1.8	1.7	1.5	1.6	5.7	6.9	.0	.3	26.0	
	TOT %	4.7	2.9	2.1	1.9	1.5	2.0	8.3	7.7	.0	.3	29.3	
	PCP	.0	.0	.0	.0	.2	.0	.3	.0	.0	.0	.5	
10+	NO PCP	2.7	2.6	1.6	2.0	1.7	3.2	6.8	3.1	.0	.8	26.4	
	TOT %	2.7	2.6	1.6	2.0	1.9	3.2	7.1	5.1	.0	.8	26.9	
	TOT OBS												628
	TOT PCT	15.6	10.0	6.4	5.5	4.7	8.5	21.9	25.7	.0	1.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
<1/2	4-10	.0	.0	.5	*	.0	.2	.2	.2	.0		1.1	
	11-21	1.1	.3	.2	.0	.3	.1	.3	*	.0		2.3	
	22+	1.8	.3	.7	.0	.0	.6	1.4	2.0	.0		6.7	
	TOT %	2.9	.6	1.4	*	.3	1.0	1.8	2.2	.0	.0	10.2	
	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	4-10	.2	.0	.0	.0	.0	.2	.2	.0	.0		.5	
	11-21	.2	.0	.0	.0	.0	.2	.5	.7	.0		1.6	
	22+	.8	.4	.1	.2	.0	.0	.4	2.2	.0		4.0	
	TOT %	1.3	.4	.1	.2	.0	.4	1.1	2.9	.0	.0	6.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.3	.4	.1	.2	.0	.0	.7	.6	.0		2.3	
	22+	1.1	.3	.2	.4	.0	.2	1.6	1.9	.0		5.6	
	TOT %	1.4	.7	.3	.5	.0	.2	2.2	2.5	.0	.2	8.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
2<5	4-10	.3	.4	.1	.2	.0	.3	.8	.5	.0		2.6	
	11-21	1.8	1.2	.4	.1	.3	1.1	1.8	3.2	.0		10.0	
	22+	1.4	.9	.4	.2	.5	.5	1.4	2.3	.0		7.6	
	TOT %	3.5	2.5	1.0	.5	.8	1.9	4.0	5.9	.0	.2	20.4	
	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
5<10	4-10	.5	.3	.4	.2	.5	.3	.7	.2	.0		3.2	
	11-21	2.4	1.8	.5	.4	.9	.7	4.2	5.4	.0		16.3	
	22+	1.5	.5	1.1	1.1	.0	1.1	1.4	2.2	.0		8.8	
	TOT %	4.5	2.6	2.0	1.7	1.4	2.1	6.3	7.9	.0	.2	28.6	
	0-3	.3	.2	.0	.0	.0	.2	.0	.0	.0	.9	1.6	
10+	4-10	.9	.6	.8	.2	.7	.8	1.2	.9	.0		6.2	
	11-21	1.1	1.3	.5	.7	.6	1.5	4.0	3.1	.0		12.8	
	22+	.3	.2	.3	.7	.4	.7	1.8	1.4	.0		5.8	
	TOT %	2.7	2.3	1.6	1.6	1.7	3.2	7.0	5.4	.0	.9	26.4	
	TOT OBS												569
	TOT PCT	16.2	9.1	6.4	4.6	4.2	8.7	22.5	26.8	.0	1.4	100.0	

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

AREA 0019 OKHOTSK SEA SW
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TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	9.2	.0	3.3	7.2	23.7	32.9	9.9	2.0	.0	.7	88.8	11.2	152
06&09	7.8	.8	2.3	8.6	26.6	22.7	10.9	.0	.0	.0	79.7	20.3	128
12&15	14.9	.0	2.5	4.1	20.7	25.6	5.0	1.7	1.7	.0	76.0	24.0	121
18&21	13.7	.0	.0	5.3	18.9	27.4	5.3	1.1	.0	2.1	73.7	26.3	95
TOT	55	1	11	32	113	136	40	6	2	3	399	97	496
PCT	11.1	.2	2.2	6.5	22.8	27.4	8.1	1.2	.4	.6	80.4	19.6	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
00&03	8.9	4.7	12.6	19.5	25.8	28.4	190
06&09	8.8	7.0	7.0	19.3	21.6	36.3	171
12&15	13.2	8.2	6.6	17.0	31.3	23.6	182
18&21	8.1	4.7	5.4	26.2	38.3	17.4	149
TOT	68	43	58	140	200	185	692
PCT	9.8	6.2	8.1	20.2	28.9	26.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	9.6	19.9	47.9	41.1	11.0	146
06&09	8.1	14.6	43.9	38.2	17.9	123
12&15	15.7	26.1	44.3	32.2	23.5	115
18&21	14.1	21.7	47.8	28.3	23.9	92
TOT	55	97	219	170	87	476
PCT	11.6	20.4	46.0	35.7	18.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	3.8	.0	.0	3.8	.0	3.8	3	11.5
40/44	.0	.0	.0	.0	.0	3.8	.0	7.7	3	11.5
30/34	.0	.0	.0	.0	7.7	.0	7.7	15.4	8	30.8
25/29	.0	.0	.0	3.8	3.8	3.8	.0	.0	3	11.5
20/24	.0	.0	.0	.0	23.1	3.8	.0	.0	7	26.9
15/19	.0	.0	.0	.0	3.8	3.8	.0	.0	2	7.7
TOTAL	0	0	1	1	10	5	2	7	26	100.0
PCT	.0	.0	3.8	3.8	38.5	19.2	7.7	26.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	3.8	1.0	6.7	.0	.0	.0
.0	.0	2.9	1.9	2.9	1.0	2.9	.0	.0	.0
.0	.0	2.9	24.0	.0	3.8	.0	.0	.0	.0
.0	.0	.0	11.5	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	7.7	19.2	.0	.0	.0
.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0
.0	.0	5.8	37.5	6.7	13.5	36.5	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	49	45	36	23	10	1	1	22.8	179
06&09	44	43	33	23	9	4	-6	22.0	159
12&15	45	43	32	21	10	7	6	21.1	182
18&21	45	44	34	21	9	3	1	21.5	140
TOT	49	44	34	21	10	3	-6	21.8	660

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	12.5	50.0	.0	12.5	25.0	72	8
06&09	.0	14.3	42.9	28.6	.0	14.3	72	7
12&15	.0	.0	20.0	40.0	.0	40.0	81	5
18&21	.0	.0	33.3	16.7	16.7	33.3	79	6
TOT	0	2	10	5	2	7	76	26

DECEMBER

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1944-1973

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
2	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.2	.2	4	.0	.8
1	.0	.0	.0	.0	.0	.0	.0	.8	.8	.2	.0	.2	10	.0	2.1
0	.0	.0	.0	.0	.0	.0	.4	.8	.8	.2	.2	.0	12	.0	2.5
-1	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	6	.0	1.3
-2	.0	.0	.0	.0	.0	.0	.0	1.9	.6	.4	.0	.2	15	.4	2.7
-3	.0	.0	.0	.0	.0	.0	.8	.4	.0	.0	.0	.0	6	.0	1.3
-4	.0	.0	.0	.0	.0	.0	2.7	2.7	.0	.0	.2	.0	27	.4	5.3
-5	.0	.0	.0	.0	.0	.0	3.6	2.1	.2	.0	.2	.0	29	.2	5.9
-6	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	8	.0	1.7
-7/-8	.0	.0	.0	.0	.0	2.7	4.4	1.7	.0	.0	.0	.0	42	.0	8.9
-9/-10	.0	.0	.0	.0	.4	4.4	4.2	.8	.0	.0	.0	.0	47	.2	9.7
-11/-13	.0	.0	.0	.0	5.3	9.5	2.1	.0	.2	.0	.0	.0	81	.0	17.1
-14/-16	.0	.0	.0	1.3	7.8	3.0	.6	.4	.0	.0	.0	.0	62	.2	12.9
-17/-19	.0	.0	1.1	4.6	3.0	1.3	.2	.2	.0	.0	.0	.0	49	.2	10.1
-20/-22	.0	.2	1.5	2.7	2.1	.6	.2	.0	.0	.0	.0	.0	35	.0	7.4
-23/-25	.0	.6	3.2	1.7	.2	.0	.2	.0	.0	.0	.0	.0	28	.0	5.9
-26/-30	.4	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	4	.2	.6
<=30	.8	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	5	.4	.6
TOTAL	6	5	27	50	89	103	101	64	13	8	5	5	474	11	463
PCT	1.3	1.1	5.7	10.5	18.8	21.7	21.3	13.5	2.7	1.3	1.1	1.1	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.8	.0	.0	.0	.0	2.0
1-2	.3	.2	.4	.0	.0	.0	.9
3-4	.0	.0	2.3	.3	.0	.0	2.6
5-6	.0	.3	1.0	1.6	.5	.0	3.4
7	.0	.0	.9	.4	.0	.0	1.3
8-9	.3	.0	.8	1.0	.3	.0	2.3
10-11	.0	.0	.6	2.0	.0	.0	2.6
12	.0	.0	.0	.8	.0	.0	.8
13-16	.0	.0	.3	1.0	.5	.0	1.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.3	6.3	7.0	1.4	.0	17.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.3	.0	.0	.0	.0	.6
1-2	.0	.1	.9	.0	.0	.0	1.0
3-4	.0	.0	2.3	.0	.0	.0	2.3
5-6	.0	.0	.4	.3	.0	.0	.7
7	.0	.0	.3	.5	.3	.0	1.1
8-9	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.7	.0	.0	1.0
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.5	.0	.0	.5
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.3	4.1	2.5	.3	.0	7.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.3	.5	.0	.0	.0	.8
3-4	.0	.3	.4	.0	.0	.0	.7
5-6	.0	.0	.5	.3	.0	.0	.8
7	.0	.0	.0	.7	.5	.0	1.2
8-9	.0	.0	.0	.2	.3	.0	.5
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.3	.4	.0	.7
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.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
TOT PCT	.0	1.4	1.4	2.2	1.8	.0	6.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.1	.0	.0	.0	.0	.1
3-4	.0	.3	1.2	.0	.0	.0	1.5
5-6	.0	.0	.3	.3	.0	.0	.5
7	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.3	.9	.0	.0	1.2
10-11	.0	.0	.3	.3	.0	.0	.5
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.3	2.1	2.4	.1	.0	4.9

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

TABLE 18 (CONT)

AREA 0019 OKHOTSK SEA SW
51.9N 146.8E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.0	.3	.0	.0	.0	1.2	.3	.1	.5	.0	.0	.0	1.0
3-4	.0	.3	1.2	.0	.0	.0	1.4	.0	.4	.8	.3	.0	.0	1.5
5-6	.0	.0	.6	.2	.0	.0	.8	.0	.3	1.1	.8	.0	.0	2.1
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.7	.3	.0	1.3
8-9	.0	.0	.3	.2	.0	.0	.5	.0	.0	.1	.6	.0	.0	.7
10-11	.0	.0	.3	.3	.0	.0	.5	.0	.0	.3	.6	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.3	.2	.0	.0	.5	.0	.3	.3	.3	.0	.0	.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.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
TOT PCT	.0	1.8	2.9	1.1	.0	.0	5.8	.3	2.0	3.4	3.6	.3	.0	9.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	.7	.5	.0	.0	.0	1.2	.0	.1	1.6	.0	.0	.0	1.6	
3-4	.0	1.4	3.5	1.3	.0	.0	6.2	.0	.3	2.5	.6	.0	.0	3.5	
5-6	.0	.3	2.3	1.7	.5	.0	4.8	.0	.0	3.2	1.2	.1	.0	4.5	
7	.0	.5	2.3	1.6	.0	.0	4.5	.0	.1	2.5	2.0	.0	.0	4.5	
8-9	.0	.0	.8	.2	.0	.0	1.0	.0	.0	.3	1.7	.0	.0	2.1	
10-11	.0	.0	.8	1.3	.9	.0	3.0	.0	.0	.5	2.1	.5	.0	3.0	
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.3	.3	.0	.0	.6	
13-16	.0	.0	.2	.5	.0	.0	.8	.0	.0	.1	.9	.1	.5	1.6	
17-19	.0	.0	.0	.0	.2	.0	.2	.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	.5	.0	.5	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.5	10.3	6.7	2.1	.0	22.7	.0	1.6	10.9	8.3	1.2	.5	23.1	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	49+	PCT	TOT OBS
<1	2.5	6.0	.0	.0	.0	.0	8.5	
1-2	.5	2.5	4.7	.0	.0	.0	7.7	
3-4	.0	3.0	14.2	2.5	.0	.0	19.7	
5-6	.0	.8	9.3	6.3	1.1	.0	17.5	
7	.0	.5	6.3	6.8	1.1	.0	14.8	
8-9	.3	.0	2.5	4.9	.5	.0	8.2	
10-11	.0	.0	3.0	7.7	1.4	.0	12.1	
12	.0	.0	.3	1.6	1.1	.0	3.0	
13-16	.0	.3	1.1	4.1	.5	.5	6.6	
17-19	.0	.0	.0	.0	.5	.0	.5	
20-22	.0	.0	.0	.3	.5	.0	.8	
23-25	.0	.0	.0	.0	.5	.0	.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.3	13.2	41.4	34.2	7.4	.5	100.0	365

PERIOD: (OVER-ALL) 1956-1979

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	2.0	5.4	5.6	3.8	2.5	.5	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	126	5
6-7	.0	.0	1.5	2.0	3.9	2.8	3.6	1.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	8
8-9	.0	.3	.2	1.1	1.3	1.6	3.9	.7	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	64	9
10-11	.0	1.0	.0	.5	.5	1.3	.8	.3	.5	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	35	9
12-13	.0	.0	.5	.0	.3	.5	.5	.3	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	17	10
>13	.0	.0	.0	.3	.3	.0	.2	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	11	11
INDET	1.5	3.3	5.3	9.4	9.4	5.1	3.8	1.1	3.0	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	258	7
TOTAL	9	40	78	115	119	84	81	27	40	5	9	2	0	0	0	0	0	0	0	609	7
PCT	1.5	6.6	12.8	18.9	19.5	13.8	13.3	4.4	6.6	.8	1.5	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

JANUARY, MAY - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974

AREA 0019 OKHOTSK SEA SW
51.0N 146.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.7	.3	4.9	.1	13.0	.5	.1	22.1	3.3	.0	13.2	.5	.2	.5		60.3
NE	6.7	.9	4.7	.0	8.6	.3	.2	20.4	2.3	.5	16.1	.2	.5	.1		59.8
E	6.0	.3	3.9	.0	7.3	.2	.0	17.8	3.7	.0	17.9	.2	.3	.1		59.9
SE	5.7	.7	5.7	.0	5.2	.1	.0	16.8	2.7	.2	21.6	.6	.8	.2		57.2
S	2.4	.5	4.7	.0	3.0	.0	.2	10.9	2.0	.4	22.9	.3	.6	.3		62.8
SW	2.5	.1	2.7	.0	8.8	.0	.0	14.0	3.5	*	16.3	.3	.4	.7		64.8
W	2.8	.1	1.9	.0	11.9	.0	.0	16.2	2.7	.1	17.4	.7	.1	.1		62.8
NW	2.0	.1	4.1	.0	12.9	.2	*	19.1	3.2	.1	12.1	1.2	.3	.4		63.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.1	.0	.6	.0	1.4	.4	.0	3.6	2.5	.0	27.3	.3	.1	.0		66.2
TOT PCT	3.5	.3	3.1	*	10.7	.2	.1	17.6	3.0	.2	18.7	.4	.4	.3		59.4
TOT OBS:	6557															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.0	.2	3.1	.0	9.5	.2	.0	16.0	2.5	.4	20.0	.5	.6	.3		59.8
06&09	2.7	.1	2.4	.3	10.1	.0	*	15.6	3.4	.0	18.3	.4	.5	.4		61.3
12&15	3.7	.5	3.3	.0	11.4	.3	.2	18.9	3.4	.2	17.5	.6	.4	.3		58.9
18&21	4.6	.6	4.1	.0	10.2	.3	.0	19.3	3.1	.1	19.8	*	.2	.4		57.0
TOT PCT	3.5	.3	3.2	.1	10.3	.2	.1	17.4	3.1	.2	18.9	.4	.4	.3		59.4
TOT OBS:	7050															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)						
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	3.8	5.5	2.8	.5	.1		13.3	15.4	13.0	8.6	12.2	15.4	13.5	16.0	14.3	8.1
NE	.3	3.1	3.7	1.2	.3	*		8.6	14.3	9.6	10.6	9.0	5.7	8.3	5.5	8.2	4.0
E	.4	2.7	2.6	1.3	.3	.0		7.3	15.4	9.1	7.4	7.1	3.7	7.3	2.9	6.8	3.3
SE	.5	4.0	4.6	1.5	.3	.0		10.9	16.2	9.2	13.9	11.9	17.5	11.5	13.2	8.9	11.8
S	.7	5.5	7.3	1.5	.2	.0		15.1	14.3	13.7	14.5	14.7	22.6	15.4	13.3	15.6	16.8
SW	.4	3.7	4.6	1.0	.2	*		9.9	13.5	10.7	10.3	9.7	3.3	9.4	7.4	10.3	11.3
W	.4	3.6	5.8	3.3	.8	.2		14.0	15.7	13.5	11.1	15.0	8.8	13.7	4.9	13.9	13.5
NW	.3	2.8	7.3	4.8	1.0	.1		16.3	17.3	16.7	11.0	16.0	16.4	16.6	13.3	16.1	17.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0	4.5	1.4	4.7	6.6	4.3	1.3	6.0	2.2
TOT OBS							6141		15.0	1530	167	1323	154	1493	154	1179	141
TOT PCT	8.2	29.1	41.3	17.4	3.6	.4		100.0		100.0	88.9	100.0	100.0	100.0	77.8	100.0	88.9

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.2	5.0	4.7	1.1	.4		13.3	15.4	13.2	12.3	13.7	14.0
NE	1.7	4.1	2.0	.7	*		8.6	14.3	9.3	8.7	8.3	7.9
E	1.7	3.1	1.8	.7	*		7.3	15.4	8.6	6.9	7.0	6.6
SE	2.2	4.9	3.0	.8	*		10.9	16.2	9.7	12.5	11.7	9.4
S	2.8	7.6	4.2	.4	*		15.1	14.3	14.1	15.5	15.5	15.8
SW	2.0	5.0	2.3	.5	*		9.9	13.5	10.8	9.1	9.5	10.3
W	1.9	5.3	4.4	2.0	.4		14.0	15.7	13.5	14.8	13.8	14.1
NW	1.3	5.1	7.3	2.1	.5		16.3	17.3	16.7	15.8	16.6	16.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	4.2	4.5	4.0	5.8
TOT OBS						6141		15.0	1697	1477	1647	1320
TOT PCT	20.4	40.2	29.7	8.2	1.5		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.2	3.4	28.1	42.3	17.7	4.0	.3	15.3	100.0	1697
06&09	4.5	3.8	26.1	41.8	20.8	2.9	.2	15.4	100.0	1477
12&15	4.0	4.1	31.8	40.1	15.5	4.0	.5	14.7	100.0	1647
18&21	5.8	3.2	30.3	40.8	16.0	3.2	.7	14.4	100.0	1320
TOT								15.0		6141
PCT	4.5	3.7	29.1	41.3	17.4	3.6	.4		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.8	3.4	7.0		6.3
NE	.7	.4	1.9	6.0		6.9
E	.5	.2	1.2	5.9		7.1
SE	.7	.4	1.4	7.9		7.1
S	2.4	1.0	2.5	8.7		6.1
SW	2.3	.9	2.3	4.6		5.6
W	2.3	1.6	4.3	5.8		5.8
NW	1.7	1.4	5.9	7.4		6.3
VAR	.0	.0	.0	.0		.0
CALM	1.0	.3	.9	3.1		5.6
TOT OBS					4867	6.3
TOT PCT	12.9	6.9	23.8	56.4	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.3	*	.2	.6	2.4	3.7	.6	.2	.1	.1	2.6	
NE	1.6	.1	.2	.6	1.9	2.0	.7	.1	*	.1	1.6	
E	2.1	*	.2	.4	1.4	1.8	.5	.1	.1	.1	1.0	
SE	3.2	*	.1	.5	1.6	2.2	.8	.2	*	.1	1.8	
S	4.3	*	.1	.3	1.5	2.7	1.0	.2	.1	.1	4.0	
SW	1.8	*	.1	.3	1.1	2.1	.6	.1	.2	.1	3.8	
W	1.8	*	.2	.4	2.4	3.5	.8	.2	.1	.1	4.4	
NW	2.1	*	.3	.7	3.7	4.6	.7	.2	.2	*	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8	.1	.1	.1	.5	.9	.2	*	*	*	1.5	
TOT OBS												4867
TOT PCT	20.9	.4	1.6	4.0	16.4	23.6	6.0	1.3	.8	.7	24.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	1.2	1.3	1.3	1.4	1.4	1.4	1.4
* OR >4000	1.7	2.2	2.5	2.6	2.6	2.6	2.6	2.6
* OR >3500	5.1	7.0	7.9	8.0	8.2	8.2	8.3	8.3
* OR >2000	15.5	25.5	29.3	30.2	30.6	31.0	31.1	31.2
* OR >1000	19.9	35.8	43.2	45.3	46.3	47.1	47.6	47.7
* OR >600	20.7	37.9	46.3	49.0	50.2	51.2	51.8	51.9
* OR >300	21.0	38.7	47.4	50.4	51.6	52.7	53.4	53.4
* OR >150	21.1	39.0	47.8	50.7	52.0	53.0	53.7	53.8
* OR > 0	21.2	40.4	51.2	55.8	58.6	65.0	73.6	75.4

TOTAL NUMBER OF OBS: 5135

PCT FREQ NH <5/8: 24.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.9	2.0	3.6	3.1	3.7	4.7	7.2	8.9	36.0	19.9	5745

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.4	.3	.2	.2	.2	.1	.5	.7	.0	.0	2.7	
<1/2	NO PCP	1.0	.8	1.4	2.4	3.5	1.9	1.1	.6	.0	1.2	13.2	
	TOT %	1.4	1.1	1.5	2.7	3.8	1.4	1.6	1.2	.0	1.2	15.9	
	PCP	.4	.2	*	.1	.1	.2	.6	.7	.0	.0	2.2	
1/2<1	NO PCP	.2	.2	*	.3	.2	.1	.1	.1	.0	.2	1.4	
	TOT %	.5	.3	.1	.4	.3	.3	.7	.8	.0	.2	3.6	
	PCP	1.0	.3	.2	.3	.1	.2	.5	.9	.0	.1	3.6	
1<2	NO PCP	.1	.2	.2	.2	.2	.1	.2	.4	.0	*	1.6	
	TOT %	1.0	.5	.4	.4	.3	.3	.8	1.4	.0	.1	5.2	
	PCP	.8	.7	.5	.5	.4	.4	1.0	1.2	.0	*	5.5	
2<5	NO PCP	.9	.7	.5	.8	1.2	.7	.8	1.3	.0	.3	7.4	
	TOT %	1.7	1.4	1.0	1.4	1.6	1.1	1.8	2.5	.0	.3	12.9	
	PCP	.5	.4	.3	.4	.4	.3	.3	.7	.0	.1	3.4	
5<10	NO PCP	2.7	1.7	1.9	2.2	2.0	1.9	2.8	3.7	.0	.9	20.9	
	TOT %	3.3	2.1	2.2	2.5	3.5	2.1	3.2	4.4	.0	1.0	24.3	
	PCP	.1	*	*	*	.1	*	.1	*	.0	.0	.4	
10+	NO PCP	4.7	3.5	2.2	3.3	5.6	4.6	5.9	6.0	.0	2.0	37.7	
	TOT %	4.8	3.5	2.2	3.3	5.6	4.7	6.0	6.0	.0	2.0	38.1	
	TOT OBS												6521
	TOT PCT	12.8	9.0	7.5	10.7	15.1	9.9	14.0	16.3	.0	4.7	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	*	.1	.1	.3	.1	.1	*	.0	1.2	2.1	
<1/2	4-10	.7	.5	.6	1.2	1.4	.7	.7	.3	.0		6.2	
	11-21	.4	.4	.6	1.4	2.0	.8	.5	.4	.0		6.4	
	22+	.4	.1	.2	.3	.3	.1	.5	.7	.0		2.5	
	TOT %	1.6	1.1	1.6	2.9	3.9	1.7	1.9	1.4	.0	1.2	17.2	
	0-3	*	*	.0	*	*	.0	*	.0	.0	.2	.3	
1/2<1	4-10	.1	.1	*	.2	.2	.1	.1	*	.0		.8	
	11-21	.1	*	*	.1	.1	*	.2	.3	.0		.9	
	22+	.3	.2	*	.1	.1	.1	.4	.5	.0		1.7	
	TOT %	.6	.3	.1	.4	.3	.3	.8	.8	.0	.2	3.7	
	0-3	.0	*	*	.0	*	.0	*	*	.0	.1	.2	
1<2	4-10	.1	.1	.1	.1	.1	*	.1	.1	.0		.7	
	11-21	.3	.3	.1	.2	.2	.1	.1	.4	.0		1.7	
	22+	.6	.1	.2	.1	*	.1	.5	.8	.0		2.4	
	TOT %	1.1	.5	.4	.4	.3	.2	.7	1.4	.0	.1	5.0	
	0-3	*	*	*	*	*	*	*	*	.0	.3	.5	
2<5	4-10	.4	.4	.2	.3	.5	.4	.5	.4	.0		3.1	
	11-21	.8	.5	.4	.7	.8	.6	.7	1.0	.0		5.6	
	22+	.5	.4	.3	.3	.3	.1	.6	1.1	.0		3.8	
	TOT %	1.8	1.4	1.0	1.4	1.7	1.1	1.8	2.6	.0	.3	13.0	
	0-3	.2	.1	.1	.1	.1	.1	*	.1	.0	.9	1.5	
5<10	4-10	.8	.6	.8	1.0	1.0	.7	.5	.7	.0		6.2	
	11-21	1.5	.9	.8	.9	1.8	1.0	1.4	2.1	.0		10.3	
	22+	.9	.4	.5	.6	.5	.3	1.0	1.4	.0		5.7	
	TOT %	3.4	2.0	2.2	2.5	3.5	2.1	2.9	4.3	.0	.9	23.7	
	0-3	.3	.1	.1	.3	.3	.2	.2	.2	.0	1.9	3.6	
10+	4-10	1.6	1.3	1.1	1.3	2.2	1.8	1.6	1.5	.0		12.3	
	11-21	2.4	1.6	.7	1.3	2.5	2.2	2.8	2.9	.0		16.4	
	22+	.6	.3	.3	.3	.4	.4	1.3	1.3	.0		5.1	
	TOT %	4.8	3.4	2.2	3.2	5.5	4.6	6.0	5.9	.0	1.9	37.4	
	TOT OBS												5947
	TOT PCT	13.2	8.7	7.3	10.8	15.2	9.9	14.1	16.2	.0	4.5	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)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	19.8	.2	2.3	4.3	16.7	25.1	5.9	1.4	1.2	.4	77.2	22.8	1581
06&09	16.7	.6	1.5	4.8	18.4	24.5	6.4	1.2	.4	.5	75.0	25.0	1377
12&15	24.5	.1	1.1	3.3	13.8	19.7	4.7	1.1	.9	.8	70.0	30.0	1298
18&21	26.6	.5	1.0	4.1	15.1	20.2	5.3	1.0	1.0	.7	75.6	24.4	1029
TOT													5285
PCT	21.4	.3	1.5	4.1	16.2	22.7	5.6	1.2	.8	.6	74.6	25.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	16.1	3.7	5.3	11.7	20.2	43.1	1991
06&09	16.5	3.4	5.5	11.6	23.2	39.9	1749
12&15	17.8	3.5	5.2	12.7	27.1	33.7	1903
18&21	17.2	4.5	5.7	15.1	27.0	30.5	1531
TOT							7174
PCT	16.9	3.7	5.4	12.6	24.2	37.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	19.9	26.1	40.2	39.2	20.6	1543
06&09	17.2	22.8	38.6	38.6	22.7	1344
12&15	24.7	28.6	42.1	30.8	27.1	1255
18&21	26.9	31.4	46.0	32.3	21.7	993
TOT						5135
PCT	21.6	26.8	41.3	35.8	22.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.1	.0	.2	.2	.0	.0	.0		.4
60/64	.0	.1	.0	.0	.2	.0	.7	.1		1.1
55/59	.0	.0	.3	.4	.1	.6	2.6	3.3		7.3
50/54	.0	.0	.2	.2	.8	1.5	6.0	12.7		21.4
45/49	.0	.0	.4	.2	.6	3.5	2.1	7.1		14.0
40/44	.0	.0	.0	.0	.4	6.5	5.6	9.5		22.0
35/39	.0	.0	.0	1.9	.8	.6	1.9	7.7		12.9
30/34	.0	.0	.0	.0	.9	.0	3.6	9.3		13.8
25/29	.0	.0	.0	.8	.4	.4	.1	.4		2.1
20/24	.0	.0	.0	.0	2.6	.4	.0	.0		3.0
15/19	.0	.0	.0	.0	.4	.8	.0	.7		1.9
TOTAL									583	100.0
PCT	.0	.2	1.0	3.7	7.3	14.3	22.5	51.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.0	.0	.0	.0	.2	.1	*	.0	.0
.1	.2	.1	.3	.1	.2	.0	*	.0	.1
.6	.5	.6	1.1	1.9	.7	1.1	.5	.0	.3
2.1	2.3	2.3	3.9	4.1	2.8	1.7	1.5	.0	.7
3.0	1.1	1.4	1.0	2.3	1.0	3.1	1.1	.0	.2
2.5	5.8	1.3	1.5	1.8	3.7	2.2	2.9	.0	.2
1.0	2.3	1.0	.2	.8	1.2	4.1	2.2	.0	.2
1.6	.7	2.9	5.2	1.6	.4	.4	1.0	.0	.0
.3	.0	.0	1.3	.3	.0	.2	.1	.0	.0
.0	.0	.0	.0	.0	.9	2.1	.0	.0	.0
.0	.0	.0	.0	.0	.0	1.6	.3	.0	.0
11.3	12.8	9.7	14.5	13.1	11.0	16.6	9.6	.0	1.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	77	58	52	39	29	23	-4	42.6	1920
06&09	75	57	51	39	29	24	-6	43.0	1721
12&15	73	53	48	38	28	24	-2	41.0	1863
18&21	75	54	48	37	27	21	-7	41.3	1527
TOT	77	57	50	38	28	23	-7	42.0	7031

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.8	8.9	14.7	19.7	49.9	86	150
06&09	.0	5.2	8.3	15.6	23.6	47.4	88	151
12&15	.0	2.6	4.3	10.5	30.9	51.7	89	133
18&21	.0	.4	6.0	11.4	21.4	49.6	90	141
TOT	0	18	35	72	131	329	88	585

JANUARY, MAY - DECEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974

AREA 0019 OKHOTSK SEA SW
51.8N 146.7E

TABLE 17

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	.0	1	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	*	.0	5	*	*
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	*	*	*	.0	10	.1	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.3	.1	.1	.0	*	.0	.1	*	17	.1	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	.1	.1	.1	*	.0	.0	.0	16	*	.3
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.2	.1	.1	*	.0	39	.2	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.1	.1	.2	.4	.1	.1	.1	.0	97	.5	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.4	.2	.2	.2	.2	.1	*	.0	.0	102	.4	1.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.4	.3	.6	.3	.4	.1	*	.0	.0	164	.6	2.2
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.3	.2	.2	.1	*	*	*	.0	.0	70	.3	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.5	.8	.6	.8	.5	.2	.1	.0	*	.0	229	1.0	2.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.4	1.0	.8	.8	.4	.2	*	.0	.0	.0	288	1.2	3.7
3	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3	.4	.5	.4	.4	.2	*	*	.0	.0	.0	150	.7	2.0
2	.0	.0	.0	.0	.0	.0	.0	*	.8	.8	1.0	1.9	1.2	1.6	.5	.1	.0	.0	.0	.0	485	2.3	5.6
1	.0	.0	.0	.0	.0	.0	.0	.4	.5	.5	.6	.6	.7	.6	.3	*	*	.0	.0	.0	229	.9	3.2
0	.0	.0	.0	.0	.0	.0	.1	.6	1.3	1.0	1.6	1.7	1.7	1.8	.4	.1	.0	*	.0	.0	637	2.7	8.6
-1	.0	.0	.0	.0	.0	.0	.0	.4	.6	.8	.6	.6	.9	.4	.1	*	*	.0	.0	.0	270	1.1	3.7
-2	.0	.0	.0	.0	.0	.0	*	.6	.9	1.0	.8	1.6	1.3	.9	.1	*	.0	.0	.0	.0	456	1.7	5.6
-3	.0	.0	.0	.0	.0	.0	.1	.3	.5	.6	.5	.3	.4	.3	.1	.0	.0	.0	.0	.0	177	.5	2.7
-4	.0	.0	.0	.0	.0	.0	.9	.8	.6	.8	.8	.9	.6	.3	*	.0	*	.0	.0	.0	330	1.0	4.7
-5	.0	.0	.0	.0	.0	.1	1.1	.8	.7	.7	.5	.7	.5	.2	*	*	.0	.0	.0	.0	307	.6	4.8
-6	.0	.0	.0	.0	.0	.1	.6	.3	.3	.3	.1	.2	.1	.1	*	.0	.0	.0	.0	.0	104	.3	1.6
-7/-8	.0	.0	.0	.0	.0	.6	1.3	1.1	1.0	.5	.4	.4	.2	.1	.0	.0	.0	.0	.0	.0	315	.8	4.9
-9/-10	.0	.0	.0	.0	.1	1.1	1.2	.6	.5	.4	.2	.3	.1	.1	*	*	.0	.0	.0	.0	274	.3	4.6
-11/-13	.0	.0	.0	.0	1.0	2.2	1.2	.4	.2	.3	.2	.2	.1	*	.0	.0	.0	.0	.0	.0	307	.3	5.6
-14/-16	.0	.0	.0	.1	2.1	.9	.8	.3	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	222	.2	4.2
-17/-19	.0	.0	.1	.7	.8	.5	.2	.1	*	*	.0	*	.0	*	.0	.0	.0	.0	.0	.0	119	.1	2.5
-20/-22	.0	.1	.9	.6	.5	.1	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	.1	2.4
-23/-25	.0	.2	1.3	.3	.1	*	.1	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	*	2.0
-26/-30	.1	.7	.2	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	.3	.8
<-30	.8	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	.2	.7
TOTAL																					5619		
PCT	1.0	1.0	2.6	1.8	4.6	5.7	7.6	6.9	8.9	9.7	9.5	13.1	10.6	9.7	4.0	2.1	.6	.3	.2	*	100.0	18.3	81.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.1	.0	.0	.0	1.4
1-2	.1	1.7	1.0	.0	.0	.0	2.8
3-4	.0	.5	2.2	.2	.0	.0	2.9
5-6	.0	.1	1.2	.9	.1	.0	2.2
7	.0	.1	.8	.5	.2	.0	1.5
8-9	.1	.0	.4	.5	.2	.1	1.4
10-11	.0	*	.2	.6	.1	.0	.8
12	.0	*	*	.3	*	.0	.3
13-16	.0	.0	.1	.2	.1	*	.4
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	*	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.4	5.9	3.2	.7	.1	14.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.0	.0	.0	.0	.0	1.1
1-2	*	1.2	1.0	.0	.0	.0	2.2
3-4	.0	.5	1.2	.1	.0	.0	1.8
5-6	.0	.2	.8	.4	.0	.0	1.4
7	.0	*	.4	.3	.1	.0	.8
8-9	.0	*	.2	.2	*	.0	.5
10-11	.0	.0	*	.2	.1	.0	.3
12	.0	.0	*	.1	.0	.0	.1
13-16	.0	.0	.0	.2	.1	*	.3
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	.1	*	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	3.0	3.7	1.6	.3	*	8.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.0	.0	.0	.0	1.3
1-2	*	1.1	.9	.0	.0	.0	2.0
3-4	.0	.3	.9	.1	.0	.0	1.4
5-6	.0	.1	.6	.2	.0	.0	.9
7	.0	.1	.3	.4	.1	.0	.8
8-9	.0	.0	.1	.3	.1	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	*	.1	.1	.0	.2
13-16	.0	.0	.0	.1	.1	.0	.2
17-19	.0	*	.0	.0	*	.0	.1
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.7	2.8	1.4	.4	.0	7.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	*	.0	.0	.0	1.6
1-2	.1	1.4	1.2	.0	.0	.0	2.7
3-4	.0	.6	1.8	.3	.0	.0	2.7
5-6	.0	.1	.8	.2	*	.0	1.1
7	.0	.0	.4	.3	*	.0	.8
8-9	.0	.0	.3	.2	*	.0	.5
10-11	.0	.0	.1	.1	.1	.0	.3
12	.0	.0	.0	.1	*	.0	.1
13-16	.0	.0	*	.2	.1	.0	.3
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	4.7	1.6	.3	.0	10.3

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.0	.1	.0	.0	.0	2.3
1-2	.1	2.2	1.5	.0	.0	.0	3.8
3-4	.0	.8	2.3	.2	.0	.0	3.3
5-6	.0	.1	1.8	.3	.0	.0	2.2
7	.0	*	.6	.3	*	.0	.9
8-9	.0	.1	.4	*	*	.0	.6
10-11	.0	.0	*	.3	*	.0	.4
12	.0	.0	.0	.1	*	.0	.2
13-16	.0	.0	.1	.1	.1	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	6.8	1.4	.3	.0	13.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.2	.2	.0	.0	.0	1.5
1-2	.1	1.4	1.1	.0	.0	.0	2.6
3-4	*	.6	1.7	.1	.0	.0	2.5
5-6	.0	.1	1.1	.2	*	.0	1.5
7	.0	.0	.3	.3	*	.0	.6
8-9	.0	.0	.2	.2	*	.0	.4
10-11	.0	*	.1	.1	*	.0	.3
12	.0	.0	*	.0	*	.0	.1
13-16	.0	*	*	.1	.1	.0	.2
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	*	*	*	.0	.1
23-25	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	*	.0	.0	*
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.4	4.9	1.1	.2	.0	9.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	*	.0	.0	.0	1.1
1-2	.1	1.1	1.3	.0	.0	.0	2.4
3-4	.0	.5	2.3	.4	.0	.0	3.2
5-6	.0	.1	1.0	1.0	.1	.0	2.2
7	.0	.1	.7	.9	.1	.0	1.8
8-9	.0	.0	.2	.6	.1	*	1.0
10-11	.0	.0	.3	.5	.2	*	.9
12	.0	.0	*	.2	.1	*	.4
13-16	.0	.0	*	.1	.2	*	.4
17-19	.0	.0	*	.0	.1	*	.1
20-22	.0	.0	.0	.0	*	*	*
23-25	.0	.0	.0	*	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.6	5.9	3.7	1.0	.1	13.7

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.7	*	.0	.0	.0	.9	
1-2	.0	.9	1.7	.0	.0	.0	2.5	
3-4	.0	.3	2.1	.6	.0	.0	3.0	
5-6	.0	.1	2.2	.8	*	.0	3.1	
7	.0	*	1.3	1.2	.1	.0	2.6	
8-9	.0	.1	.4	.8	.1	.0	1.4	
10-11	.0	.0	.2	.8	.2	*	1.2	
12	.0	.0	*	.2	.1	*	.3	
13-16	.0	.0	*	.4	.1	.1	.5	
17-19	.0	.0	*	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.1	*	.2	
23-25	.0	.0	.0	*	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.1	7.9	4.8	1.0	.1	16.1	94.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.5	9.1	.5	.0	.0	.0	17.1	
1-2	.5	10.9	9.7	.0	.0	.0	21.1	
3-4	*	4.2	14.6	2.1	.0	.0	20.9	
5-6	.0	.8	9.5	4.0	.2	.0	14.6	
7	*	.4	4.7	4.2	.5	.0	9.9	
8-9	.1	.1	2.3	2.9	.6	.1	6.3	
10-11	.0	.1	.9	2.7	.7	.1	4.5	
12	.0	*	.2	1.1	.4	*	1.6	
13-16	.0	*	.3	1.2	.9	.1	2.6	
17-19	.0	*	*	.1	.2	*	.4	
20-22	.0	.0	*	.4	.2	*	.7	
23-25	.0	.0	.0	*	.3	.0	.3	
26-32	.0	.0	.0	.0	*	.0	*	
33-40	.0	.0	.0	*	*	.0	*	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	25.6	42.8	18.8	4.2	.4	100.0	3527

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	8.6	10.1	6.7	3.6	2.0	.7	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1807	4
6-7	*	.6	2.5	3.3	3.7	1.7	1.7	.6	.6	.1	.3	*	.0	.0	.0	.0	.0	.0	.0	829	7
8-9	.0	.3	1.3	1.2	1.0	1.6	1.4	.7	.8	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	471	8
10-11	.0	.8	.2	.3	.7	.4	.4	.3	.3	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	183	8
12-13	.0	.0	.7	.3	.3	.3	.2	.2	.2	.1	.2	*	.0	.0	.0	.0	.0	.0	.0	132	8
>13	.0	.0	.0	.1	.1	.1	.2	.1	.2	.1	.1	.2	.0	*	.0	.0	.0	.0	.0	67	12
INDET	5.4	4.0	8.1	7.1	5.6	3.2	1.4	.5	1.0	.1	*	.1	*	*	.0	.0	.0	.0	.0	2179	5
TOTAL PCT	5.9	14.2	22.8	19.1	15.0	9.4	6.0	2.6	3.0	.7	.7	.4	*	*	.0	.0	.0	.0	.0	5668 100.0	5

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1885-1974

AREA 0019 OKHOTSK SEA SW
51.8N 146.7E

TABLE 20

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

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.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	.1	.0	.0	.0	1	*
69/70	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	2	*
67/68	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	.0	.0	7	.1
65/66	.0	.0	.0	.0	.0	.0	.0	.3	.4	.0	.0	.0	6	.1
63/64	.0	.0	.0	.0	.0	.0	.6	2.4	1.2	.0	.0	.0	37	.6
61/62	.0	.0	.0	.0	.0	.0	.3	3.5	1.2	.0	.0	.0	45	.8
59/60	.0	.0	.0	.0	.0	.0	1.3	5.2	4.1	.2	.0	.0	96	1.6
57/58	.0	.0	.0	.0	.0	.0	2.5	9.2	8.6	1.0	.0	.0	190	3.2
55/56	.0	.0	.0	.0	.0	.0	3.2	16.0	14.6	1.7	.0	.0	316	5.3
53/54	.0	.0	.0	.0	.0	.8	7.3	27.4	19.3	3.9	.1	.0	491	8.1
51/52	.0	.0	.0	.0	.0	.9	11.7	14.3	18.1	5.7	.5	.0	450	7.6
49/50	.0	.0	.0	.0	.0	1.2	16.5	9.2	15.9	11.2	.6	.6	486	8.2
47/48	.0	.0	.0	.0	.9	4.5	12.6	5.8	7.2	12.9	1.8	.6	402	6.8
45/46	.7	.0	.0	.0	.9	12.3	22.3	4.3	9.5	26.5	6.0	1.4	721	12.1
43/44	9.0	.0	.0	.0	2.3	16.2	9.8	1.1	2.1	17.4	7.6	1.0	478	8.0
41/42	3.6	.0	.0	.0	5.6	19.6	5.0	.3	.7	11.4	14.7	2.4	448	7.5
39/40	1.4	.0	.0	.0	10.7	16.8	3.7	.5	.2	5.4	18.7	5.7	408	6.9
37/38	3.6	.0	.0	.0	16.8	10.3	.5	.0	.0	1.0	20.7	8.8	333	5.6
35/36	18.6	.0	.0	.0	20.1	8.5	.5	.0	.0	.2	13.4	15.9	317	5.3
33/34	19.3	.0	.0	.0	25.7	4.9	1.9	.0	.0	1.5	11.5	25.3	362	6.1
31/32	27.9	.0	.0	.0	15.0	3.4	.3	.0	.0	.0	3.0	30.0	267	4.5
29/30	17.9	.0	.0	.0	1.9	.4	.0	.0	.0	.0	1.3	7.1	77	1.3
27/28	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.0	9	.2
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	140	0	0	0	214	668	784	931	849	1075	798	490	5949	100.0
MEAN	33.8				35.8	40.7	47.7	53.4	51.7	45.7	38.6	34.4	42.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007		1005	998	1007		1005	1004	1006	193
FEB										
MAR										
APR										
MAY	1011	1006	1013	1016	1014	1011	1016		1013	256
JUN	1013	1012	1011	1008	1012	1013	1012	1012	1012	693
JUL	1012	1006	1010	1006	1011	1006	1011	1005	1010	860
AUG	1011	1009	1011	1008	1011	1008	1011	1008	1010	1004
SEP	1014	1013	1013	1012	1014	1013	1014	1009	1014	999
OCT	1013	1010	1012	1011	1013	1008	1012	1008	1012	1212
NOV	1010	1012	1010	1010	1010	1014	1011	1002	1010	1010
DEC	1009	1013	1007	1022	1009		1010	1017	1009	680
ANN	1011	1010	1010	1010	1011	1010	1011	1008	1011	6907
OBS	1749	143	1541	136	1714	151	1350	123		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	973	978	990	1000	1006	1013	1023	1025	1026
FEB									
MAR									
APR									
MAY	988	992	1000	1008	1013	1018	1027	1032	1034
JUN	986	989	998	1008	1012	1017	1024	1028	1033
JUL	990	993	997	1006	1011	1014	1020	1028	1032
AUG	978	993	998	1006	1011	1015	1020	1025	1032
SEP	979	984	996	1008	1014	1019	1029	1034	1038
OCT	982	987	992	1006	1013	1019	1028	1036	1039
NOV	965	973	993	1005	1011	1017	1024	1027	1034
DEC	967	982	990	1001	1009	1016	1026	1028	1031

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	41.8	1.4	.0	43.3	6.3	.0	1.4	1.4	.0	1.9		45.7
NE	.0	.0	.0	.0	43.0	.0	.0	43.0	10.7	.0	5.4	.0	.0	.0		40.9
E	.0	.0	.0	.0	11.5	.0	.0	11.5	4.9	.0	.0	.0	.0	.0		83.6
SE	.0	.0	.0	.0	31.0	.0	.0	31.0	3.4	.0	.0	.0	.0	.0		65.5
S	.0	.0	18.2	.0	50.0	.0	.0	68.2	.0	.0	.0	.0	.0	.0		31.8
SW	.0	.0	.0	.0	33.3	.0	.0	33.3	.0	.0	.0	.0	.0	.0		66.7
W	.0	.0	.0	.0	26.2	.0	.0	26.2	7.1	.0	.0	.0	.0	.0		66.7
NW	.0	.0	.0	.0	33.3	3.9	.0	37.2	9.3	.0	.8	.8	.0	.0		51.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	50.0	.0	.0	50.0	.0	.0	50.0	.0	.0	.0		.0
TOT PCT	.0	.0	.6	.0	36.4	1.2	.0	38.2	7.3	.0	2.4	.6	.0	.6		50.9
TOT OBS:	165															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	35.6	.0	.0	35.6	3.4	.0	5.1	.0	.0	.0		55.9
06&09	.0	.0	.0	.0	36.6	2.4	.0	39.0	7.3	.0	.0	.0	.0	.0		53.7
12&15	.0	.0	1.8	.0	34.5	1.8	.0	38.2	7.3	.0	1.8	.0	.0	1.8		50.9
18&21	.0	.0	.0	.0	38.7	.0	.0	38.7	16.1	.0	.0	3.2	.0	.0		41.9
TOT PCT	.0	.0	.5	.0	36.0	1.1	.0	37.6	7.5	.0	2.2	.5	.0	.5		51.6
TOT OBS:	186															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	8.2	16.7	4.5	2.8	.5		32.6	17.5	31.4	50.0	32.6	25.0	31.5	37.5	35.0	25.0
NE	.0	6.8	9.4	4.0	2.8	.0		23.0	18.0	19.1	25.0	22.0	.0	27.2	12.5	29.0	.0
E	.0	6.5	2.3	.0	.6	.0		9.4	10.4	17.0	.0	6.1	.0	7.6	.0	7.0	.0
SE	.0	3.7	.8	.0	.0	.0		4.5	8.3	9.6	.0	.8	.0	5.4	.0	.0	.0
S	.0	.6	1.5	.6	.6	.0		3.4	20.9	3.7	.0	5.3	.0	2.2	50.0	.0	.0
SW	.0	.3	.9	.0	.0	.0		1.2	15.0	.5	.0	.0	.0	2.7	.0	.0	16.7
W	.6	.9	.3	2.2	1.1	.0		5.2	22.1	2.1	.0	11.4	.0	4.9	.0	4.0	16.7
NW	.0	2.6	9.3	5.4	2.0	.2		19.4	20.3	14.4	25.0	22.0	75.0	18.5	.0	21.0	41.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0	2.1	.0	.0	.0	.0	.0	4.0	.0
TOT OBS	3	48	67	27	16	1	162		17.2	47	4	33	2	46	2	25	3
TOT PCT	1.9	29.6	41.4	16.7	9.9	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	17.0	7.6	4.8	.5		32.6	17.5	32.8	32.1	31.8	33.9
NE	2.9	9.0	6.9	2.9	1.2		23.0	18.0	19.6	20.7	26.6	25.9
E	6.0	1.7	1.1	.6	.0		9.4	10.4	15.7	5.7	7.3	6.3
SE	1.7	2.8	.0	.0	.0		4.5	8.3	8.8	.7	5.2	.0
S	.6	.9	.6	1.2	.0		3.4	20.9	3.4	5.0	4.2	.0
SW	.0	.6	.6	.0	.0		1.2	15.0	.5	.0	2.6	1.8
W	1.2	.8	1.1	1.7	.5		5.2	22.1	2.0	10.7	4.7	5.4
NW	.2	8.6	6.2	3.5	.9		19.4	20.3	15.2	25.0	17.7	23.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	2.0	.0	.0	3.6
TOT OBS	27	67	39	24	5	162		17.2	51	35	48	28
TOT PCT	16.7	41.4	24.1	14.8	3.1		100.0		100.0	100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.0	2.0	41.2	43.1	7.8	3.9	.0	13.2	100.0	51
06&09	.0	.0	11.4	42.9	28.6	17.1	.0	22.1	100.0	35
12&15	.0	.0	37.5	33.3	14.6	12.5	2.1	17.9	100.0	48
18&21	3.6	.0	17.9	50.0	21.4	7.1	.0	16.8	100.0	28
TOT	2	1	48	67	27	16	1	17.2		162
PCT	1.2	.6	29.6	41.4	16.7	9.9	.6		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	2.0	13.8	13.6		6.5
NE	1.7	.9	10.7	9.9		6.5
E	1.5	1.8	4.2	2.0		5.3
SE	.7	.2	1.7	1.7		6.1
S	.6	.7	.0	2.0		6.1
SW	.2	.0	.7	.7		6.8
W	.7	.0	1.5	2.8		6.2
NW	2.9	1.7	9.4	7.0		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	1.5		8.0
TOT OBS	13	10	57	56	136	6.2
TOT PCT	9.6	7.4	41.9	41.2	100.0	

TABLE 6

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

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.1	.0	.0	2.8	5.1	7.4	5.0	1.3	1.3	.0	4.8	
NE	1.8	.0	.0	.2	1.5	11.0	2.9	.0	.2	.7	4.8	
E	.0	.0	.0	.0	.7	1.3	2.2	.0	.7	.0	4.6	
SE	.0	.2	.0	.0	.7	2.2	.0	.0	.0	.0	1.1	
S	.0	.6	.0	.7	.7	.0	.0	.0	.0	.0	1.3	
SW	.0	.0	.0	.7	.0	.0	.0	.0	.7	.0	.2	
W	.7	.0	.0	.6	.7	.7	.7	.0	.0	.7	.7	
NW	.9	.0	.0	.2	8.1	3.9	3.1	.2	.0	.0	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	11	1	0	7	24	36	19	2	4	2	30	136
TOT PCT	8.1	.7	.0	5.1	17.6	26.5	14.0	1.5	2.9	1.5	22.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.7	3.4	4.1	4.1	4.1	4.1	4.1	4.1
* OR >5000	3.4	4.7	5.4	5.4	5.4	5.4	5.4	5.4
* OR >3500	10.8	12.8	16.9	17.6	19.6	20.3	20.3	20.3
* OR >2000	18.9	28.4	39.9	43.9	46.6	47.3	48.0	48.0
* OR >1000	21.6	35.1	50.0	56.8	60.8	61.5	62.8	62.8
* OR >600	22.3	35.8	52.0	61.5	65.5	66.9	68.2	68.2
* OR >300	22.3	35.8	52.0	61.5	65.5	66.9	68.2	68.2
* OR >150	22.3	36.5	52.7	62.2	66.2	67.6	68.9	68.9
* OR > 0	23.0	38.5	56.1	66.2	73.0	77.0	78.4	78.4
TOTAL	34	57	83	98	108	114	116	116

TOTAL NUMBER OF OBS: 148 PCT FREQ NH <5/8: 21.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.0	1.2	7.9	4.8	3.0	10.9	10.9	16.4	34.5	7.3	165

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.6E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.6	1.8	.0	.6	.0	.6	1.2	.6	.0	.0	5.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	TOT %	.6	1.8	.0	.6	.0	.6	1.2	.6	.0	.6	6.1	
1/2<1	PCP	2.0	1.5	.0	.0	.0	.0	.0	2.6	.0	.6	6.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.0	1.5	.0	.0	.0	.0	.0	2.6	.0	.6	6.7	
1<2	PCP	3.2	1.8	.5	.6	.6	.0	.0	1.2	.0	.0	8.0	
	NO PCP	.6	.6	.5	.2	.0	.0	.6	.0	.0	.0	2.5	
	TOT %	3.8	2.5	.9	.8	.6	.0	.6	1.2	.0	.0	10.4	
2<5	PCP	4.9	4.4	.0	.0	.6	.0	.0	.5	.0	.0	10.4	
	NO PCP	2.6	2.5	.5	.2	.0	.0	.5	1.8	.0	.0	8.0	
	TOT %	7.5	6.9	.5	.2	.6	.0	.5	2.3	.0	.0	18.4	
5<10	PCP	3.1	.2	.0	.2	1.1	.0	.5	1.2	.0	.0	6.1	
	NO PCP	4.1	2.0	.6	.0	.0	.0	1.2	3.7	.0	.0	11.7	
	TOT %	7.2	2.1	.6	.2	1.1	.0	1.7	4.9	.0	.0	17.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6	
	NO PCP	10.7	8.0	6.7	2.8	1.1	1.2	2.5	6.9	.0	.0	39.9	
	TOT %	10.7	8.0	6.7	2.8	1.1	1.2	2.5	7.5	.0	.0	40.5	
	TOT OBS												163
	TOT PCT	31.9	22.9	8.7	4.4	3.4	1.8	6.4	19.2	.0	1.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.6	.0	.6	.0	.0	.0	.6	.0		1.9	
	22+	.6	1.3	.0	.0	.0	.0	1.3	.0	.0		3.2	
	TOT %	.6	1.9	.0	.6	.0	.0	1.3	.6	.0	.6	5.7	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	1.1	.2	.0	.0	.0	.0	.0	.0	.0		1.3	
	11-21	.5	.8	.0	.0	.0	.0	.0	.6	.0		1.9	
	22+	.5	.6	.0	.0	.0	.0	.0	2.1	.0		3.2	
	TOT %	2.1	1.6	.0	.0	.0	.0	.0	2.7	.0	.6	7.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.6	.5	.8	.0	.0	.0	.0	.0		1.9	
	11-21	1.8	1.6	.5	.0	.0	.0	.0	.6	.0		4.5	
	22+	2.2	.3	.0	.0	.6	.0	.0	.6	.0		3.8	
	TOT %	4.0	2.5	1.0	.8	.6	.0	.0	1.3	.0	.0	10.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	1.8	2.5	.5	.2	.0	.0	.0	.8	.0		5.7	
	11-21	4.3	1.4	.0	.0	.6	.0	.0	.6	.0		7.0	
	22+	1.1	3.2	.0	.0	.0	.0	.5	1.0	.0		5.7	
	TOT %	7.2	7.2	.5	.2	.6	.0	.5	2.4	.0	.0	18.5	
5<10	0-3	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
	4-10	.6	.0	.0	.0	.0	.0	.0	.6	.0		1.3	
	11-21	3.8	1.9	.0	.2	.5	.0	.0	1.9	.0		8.3	
	22+	3.0	.3	.0	.0	.6	.0	.5	1.9	.0		6.4	
	TOT %	7.5	2.2	.0	.2	1.1	.0	1.1	4.5	.0	.0	16.6	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	4.9	3.7	5.1	2.9	.6	.3	1.0	1.3	.0		19.7	
	11-21	6.2	3.3	1.9	.0	.5	1.0	.5	4.5	.0		17.8	
	22+	.0	1.3	.0	.0	.0	.0	1.1	2.1	.0		4.5	
	TOT %	11.1	8.3	7.0	2.9	1.1	1.3	2.5	7.8	.0	.0	42.0	
	TOT OBS												157
	TOT PCT	32.5	23.7	8.4	4.6	3.5	1.3	5.4	19.3	.0	1.3	100.0	

JANUARY

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

AREA 0020 SAKHALIN ISLAND SE
46.7N 145.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00E03	7.4	.0	.0	7.4	11.1	25.9	14.8	1.9	3.7	.0	72.2	27.8	54
06E09	5.6	2.8	.0	8.3	13.9	30.6	19.4	2.8	.0	2.8	86.1	13.9	36
12E15	11.9	.0	.0	.0	19.0	28.6	11.9	.0	2.4	.0	73.8	26.2	42
18E21	14.3	.0	.0	4.8	33.3	19.0	9.5	.0	4.8	4.8	90.5	9.5	21
TOT	14	1	0	8	26	41	22	2	4	2	120	33	153
PCT	9.2	.7	.0	5.2	17.0	26.8	14.4	1.3	2.6	1.3	78.4	21.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00E03	5.1	3.4	10.2	22.0	8.5	50.8	59
06E09	5.1	7.7	12.8	7.7	15.4	51.3	39
12E15	7.3	10.9	9.1	25.5	14.5	32.7	55
18E21	6.5	3.2	9.7	22.6	32.3	25.8	31
TOT	11	12	19	37	29	76	184
PCT	6.0	6.5	10.3	20.1	15.8	41.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00E03	7.5	13.2	41.5	30.2	28.3	53
06E09	5.9	14.7	32.4	52.9	14.7	34
12E15	12.5	22.5	55.0	22.5	22.5	40
18E21	14.3	19.0	47.6	42.9	9.5	21
TOT	14	25	65	52	31	148
PCT	9.5	16.9	43.9	35.1	20.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.0	4.2	.0	1	4.2
35/39	.0	.0	.0	.0	4.2	.0	.0	.0	1	4.2
30/34	.0	.0	.0	.0	.0	16.7	8.3	.0	6	25.0
25/29	.0	.0	.0	.0	4.2	25.0	16.7	.0	11	45.8
20/24	.0	.0	.0	.0	.0	4.2	.0	.0	1	4.2
15/19	.0	.0	.0	4.2	4.2	8.3	.0	.0	4	16.7
TOTAL	0	0	0	1	3	13	7	0	24	100.0
PCT	.0	.0	.0	4.2	12.5	54.2	29.2	.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	3.1	1.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0
8.3	12.5	.0	.0	.0	.0	.0	4.2	.0	.0
27.1	16.7	.0	.0	.0	.0	.0	2.1	.0	.0
3.1	.0	.0	.0	.0	.0	.0	1.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	10.7	.0	.0
38.5	29.2	.0	.0	.0	.0	3.1	29.2	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00E03	46	45	35	23	8	0	0	22.6	59
06E09	41	40	34	27	12	10	10	25.2	40
12E15	48	47	36	23	7	5	5	22.4	56
18E21	57	36	32	27	6	3	3	24.2	31
TOT	57	46	35	25	8	3	0	23.4	186

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00E03	.0	9.1	18.2	54.5	18.2	.0	72	11
06E09	.0	16.7	33.3	33.3	16.7	.0	69	6
12E15	.0	.0	16.7	83.3	.0	.0	72	6
18E21	.0	.0	.0	44.4	55.6	.0	79	9
TOT	0	2	5	17	8	0	73	32

PERIOD: (PRIMARY) 1965-1974
(OVER-ALL) 1934-1974

TABLE 17

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

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

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	1	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	.6	.6	4	.0	2.5
2	.0	.0	.0	.0	.0	.0	.0	1.9	1.2	.6	.0	.0	6	.0	3.7
1	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	5	.6	2.5
0	.0	.0	.0	.0	.0	.0	.6	1.9	1.2	.0	.0	.0	6	.0	3.7
-1	.0	.0	.0	.0	.0	.0	1.9	2.5	.0	.0	.0	.0	7	.0	4.3
-2	.0	.0	.0	.0	.0	.0	4.9	3.1	.0	.0	.0	.0	13	.0	8.0
-3	.0	.0	.0	.0	.0	.0	.6	.6	.0	.0	.0	.0	2	.0	1.2
-4	.0	.0	.0	.0	.0	.0	4.9	3.1	1.2	.0	.0	.0	15	.0	9.3
-5	.0	.0	.0	.0	.0	1.2	1.9	4.3	.0	.0	.0	.0	12	.0	7.4
-6	.0	.0	.0	.0	.0	1.2	2.5	1.2	.0	.0	.0	.0	8	.0	4.9
-7/-8	.0	.0	.0	.0	.0	.6	3.7	1.9	.6	.0	.0	.0	11	.0	6.8
-9/-10	.0	.0	.0	.0	.6	1.2	3.1	.0	.0	.0	.0	.0	8	.6	4.3
-11/-13	.0	.0	.0	.0	4.3	2.5	.0	.0	.0	.0	.0	.0	12	.0	7.4
-14/-16	.0	.0	.6	1.9	6.2	1.2	.0	.0	.0	.0	.0	.0	16	.6	9.9
-17/-19	.0	.0	.6	4.9	2.5	.0	.6	.0	.0	.0	.0	.0	14	.0	8.6
-20/-22	.0	.6	1.9	.0	.6	1.2	.0	.0	.0	.0	.0	.0	7	.0	4.3
-23/-25	.0	.6	1.9	.6	1.2	.0	.0	.0	.0	.0	.0	.0	7	.0	4.3
-26/-30	1.2	3.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	8	.0	4.9
TOTAL	2	7	8	13	25	15	41	38	8	2	2	1	162	3	159
PCT	1.2	4.3	4.9	8.0	15.4	9.3	25.3	23.5	4.9	1.2	1.2	.6	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.0	.0	.0	.0	.0	5.0
1-2	.0	2.6	3.9	.0	.0	.0	6.5
3-4	.0	.0	7.3	.0	.0	.0	7.3
5-6	.0	.0	3.0	2.4	.6	.0	6.0
7	.0	.0	2.4	1.9	.9	.0	5.2
8-9	.0	.0	.0	.6	.9	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	.6	.0	1.9
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.5	16.6	6.3	3.0	.0	33.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.7	2.6	.0	.0	.0	7.3
1-2	.0	.0	1.9	.0	.0	.0	1.9
3-4	.0	.0	1.1	.9	.0	.0	1.9
5-6	.0	.9	1.1	.0	.2	.0	2.2
7	.0	.0	1.7	.2	.0	.0	1.9
8-9	.0	.0	.0	.2	.9	.0	1.1
10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.9	.0	.0	.9
13-16	.0	.0	1.1	2.6	1.9	.0	5.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.9	.0	.9
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.6	10.3	4.7	3.9	.0	24.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.4	.0	.0	.0	.0	5.4
1-2	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.9	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.6	.0	.0	.0	.6
17-19	.0	.6	.0	.0	.0	.0	.6
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.9	2.4	.0	.9	.0	10.1

SE

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

PERIOD: (OVER-ALL) 1963-1974

JANUARY

TABLE 18 (CONT)

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
3-4	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	1.5	.0	.9	.0	3.2	.0	.0	1.1	.0	.0	.0	1.1

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.0	.6	.0	.0	.0	.6	.0	1.7	6.3	.0	.0	.0	8.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.7	2.6	.0	.0	8.0	
5-6	.0	.0	.0	.6	.0	.0	.6	.0	.0	.2	1.3	.0	.0	1.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	.0	.0	.6	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.0	1.7	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.6	1.5	.9	.0	3.0	.0	3.7	10.3	5.6	.9	.0	20.5	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.9	18.1	2.6	.0	.0	.0	21.6	
1-2	.0	6.0	12.9	.0	.0	.0	19.0	
3-4	.0	1.7	12.9	3.4	.0	.0	18.1	
5-6	.0	.9	4.3	4.3	.9	.0	10.3	
7	.0	.0	6.9	2.6	1.7	.0	11.2	
8-9	.0	.0	.0	.9	1.7	.0	2.6	
10-11	.0	.0	1.7	.9	.0	.0	2.6	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	1.7	4.3	3.4	.0	9.5	
17-19	.0	.9	.0	.9	.9	.0	2.6	
20-22	.0	.0	.0	.0	.9	.0	.9	
23-25	.0	.0	.0	.0	.9	.0	.9	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	27.6	43.1	18.1	10.3	.0	100.0	116

PERIOD: (OVER-ALL) 1960-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	6.7	10.1	4.	2.7	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	4
6-7	.0	.0	1.3	4.	4.7	2.0	2.7	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	25	8
8-9	.0	.0	1.3	1.3	2.0	.7	.0	.7	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	9
10-11	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
12-13	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
>13	.0	.0	.0	.0	.0	.0	.7	.0	1.3	1.3	.7	1.3	.0	.0	.0	.0	.0	.0	.0	8	17
INDET	12.8	11.4	2.7	2.7	.7	.0	2.0	.7	4.0	1.3	.7	1.3	.7	.0	.0	.0	.0	.0	.0	61	5
TOTAL	19	27	23	19	16	8	9	2	16	4	3	5	1	0	0	0	0	0	0	149	6
PCT	12.8	18.1	15.4	12.8	10.7	4.0	6.0	1.3	10.7	2.7	1.3	3.4	.7	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1932-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	17.6	.0	.0	23.5	.0	.0	41.2	.0	.0	17.6	.0	.0	.0		41.2
NE	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	7.7	.0	.0	.0		84.6
E	25.0	.0	.0	.0	.0	.0	.0	25.0	11.1	.0	19.4	.0	.0	.0		44.4
SE	11.5	.0	.0	.0	5.1	.0	.0	16.7	10.3	.0	15.4	.0	5.1	.0		52.6
S	1.9	.0	.0	.0	2.9	.0	.0	4.8	.0	.0	3.8	.0	.0	.0		91.3
SW	6.1	.0	.0	.0	3.0	.0	.0	9.1	.0	.0	12.1	.0	.0	.0		78.8
W	.0	.0	.0	.0	10.5	.0	.0	10.5	.0	.0	7.9	.0	.0	.0		81.6
NW	.0	2.5	.0	.0	.0	.0	.0	2.5	.0	.0	22.5	.0	.0	10.0		65.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0		80.0
TOT PCT	6.1	1.0	.0	.0	4.1	.0	.0	11.2	3.1	.0	12.2	.0	1.0	1.0		71.4
TOT OBS:	98															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.6	.0	.0	.0	7.1	.0	.0	10.7	3.6	.0	10.7	.0	3.6	.0		71.4
06&09	9.7	.0	.0	.0	6.5	.0	.0	16.1	3.2	.0	12.9	.0	.0	6.5		61.3
12&15	3.8	.0	.0	.0	3.8	.0	.0	7.7	.0	.0	15.4	.0	.0	.0		76.9
18&21	5.0	5.0	.0	.0	.0	.0	.0	10.0	5.0	.0	5.0	.0	.0	.0		80.0
TOT PCT	5.7	1.0	.0	.0	4.8	.0	.0	11.4	2.9	.0	11.4	.0	1.0	1.9		71.4
TOT OBS:	105															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	3.4	2.1	.0	.0	.0		5.5	10.0	4.2	.0	17.6	.0	5.0	.0	8.3	.0
NE	1.1	1.8	2.1	1.6	.0	.0		6.6	12.4	12.5	.0	7.4	.0	8.3	.0	11.1	5.0
E	1.6	2.6	1.8	1.6	.0	.0		7.6	11.8	15.3	.0	8.8	.0	6.7	5.6	.0	15.0
SE	2.1	3.2	4.9	9.7	1.1	.0		20.5	20.2	22.2	21.4	30.9	15.0	20.0	11.1	36.1	.0
S	5.8	7.9	8.9	1.8	.8	.0		25.3	11.8	5.6	42.9	5.9	40.0	30.0	50.0	33.3	30.0
SW	.5	2.1	4.7	2.1	.3	.0		9.7	16.3	5.6	7.1	.0	15.0	23.3	11.1	8.3	10.0
W	2.6	3.4	1.8	2.1	.0	.0		10.0	11.7	19.4	.0	11.8	10.0	.0	5.6	.0	25.0
NW	2.1	5.0	1.3	1.1	.0	.0		9.5	8.8	9.7	.0	11.8	20.0	.0	16.7	2.8	15.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3							5.3	.0	5.6	28.6	5.9	.0	6.7	.0	.0	.0
TOT OBS	20	28	26	19	2	0	95		13.0	18	7	17	10	15	9	9	10
TOT PCT	21.1	29.5	27.4	20.0	2.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.4	.0	2.1	.0	.0		5.5	10.0	3.0	11.1	3.1	3.9
NE	1.3	3.7	1.6	.0	.0		6.6	12.4	9.0	4.6	5.2	7.9
E	1.6	4.5	1.6	.0	.0		7.6	11.8	11.0	5.6	6.3	7.9
SE	3.2	5.5	5.3	6.6	.0		20.5	20.2	22.0	25.0	16.7	17.1
S	8.4	8.2	7.1	1.6	.0		25.3	11.8	16.0	18.5	37.5	31.6
SW	1.1	3.9	3.4	1.3	.0		9.7	16.3	6.0	5.6	18.8	9.2
W	3.2	3.7	2.1	1.1	.0		10.0	11.7	14.0	11.1	2.1	13.2
NW	6.3	1.1	1.1	1.1	.0		9.5	8.8	7.0	14.8	6.3	9.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.3						5.3	.0	12.0	3.7	4.2	.0
TOT OBS	32	29	23	11	0	95		13.0	25	27	24	19
TOT PCT	33.7	30.5	24.2	11.6	.0		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1932-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.1E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS) CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	12.0	8.0	20.0	32.0	28.0	.0	.0	13.7	100.0	25
06&09	3.7	22.2	37.0	22.2	14.8	.0	.0	11.1	100.0	27
12&15	4.2	12.5	33.3	29.2	16.7	4.2	.0	13.4	100.0	24
18&21	.0	21.1	26.3	26.3	21.1	5.3	.0	14.4	100.0	19
TOT	5	15	28	26	19	2	0	13.0		95
PCT	5.3	15.8	29.5	27.4	20.0	2.1	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.8	7.7		7.8
NE	1.8	.0	1.8	5.0		6.3
E	1.8	.0	1.8	7.7		6.5
SE	1.8	.0	3.6	16.8		6.9
S	5.5	.0	3.2	10.0		5.4
SW	1.8	.0	4.1	.9		5.2
W	1.4	.0	.0	6.8		6.6
NW	4.1	.0	3.6	3.2		4.3
VAR	.0	.0	.0	.0		.0
CALM	3.6	.0	.0	.0		.5
TOT OBS	12	0	11	32	55	6.0
TOT PCT	21.8	.0	20.0	58.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.2	.0	.0	1.4	3.2	1.8	.0	.0	.0	.0	.0	
NE	.9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	1.8	
E	3.2	.0	.0	.0	1.4	5.0	.0	.0	.0	.0	1.8	
SE	3.6	.0	1.8	.0	2.3	10.9	.0	.0	.0	.0	3.6	
S	3.2	1.8	1.8	.0	.0	1.8	1.4	.0	.0	.0	8.6	
SW	.5	.0	.0	.0	3.6	.0	.5	.0	.0	.0	2.3	
W	.0	.0	.0	1.8	.0	5.0	.0	.0	.0	.0	1.4	
NW	1.8	.0	.0	.5	2.3	.5	1.8	.0	.0	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	
TOT OBS	9	1	2	2	7	17	2	0	0	0	15	55
TOT PCT	16.4	1.8	3.6	3.6	12.7	30.9	3.6	.0	.0	.0	27.3	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	.0	1.7	1.7	1.7	1.7	1.7
* OR >5000	.0	.0	.0	1.7	1.7	1.7	1.7	1.7
* OR >3500	1.7	3.3	3.3	5.0	5.0	5.0	5.0	5.0
* OR >2000	13.3	23.3	31.7	35.0	36.7	36.7	36.7	36.7
* OR >1000	16.7	33.3	41.7	46.7	48.3	48.3	48.3	48.3
* OR >600	18.3	35.0	43.3	50.0	51.7	51.7	51.7	51.7
* OR >300	18.3	35.0	45.0	51.7	55.0	55.0	55.0	55.0
* OR >150	20.0	36.7	46.7	53.3	56.7	56.7	56.7	56.7
* OR > 0	20.0	36.7	48.3	58.3	61.7	65.0	71.7	71.7
TOTAL	12	22	29	35	37	39	43	43

TOTAL NUMBER OF OBS: 60

PCT FREQ NH <5/8: 28.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
19.0	4.8	1.6	.0	1.6	6.3	7.9	6.3	38.1	14.3	63

APRIL

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1932-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 143.1E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	1.0	.3	.8	.0	.0	.0	.0	.0	.0	.0	2.0	
<1/2	NO PCP	.8	.3	1.0	2.0	1.0	.0	.0	1.0	.0	1.0	7.1	
	TOT %	1.8	.5	1.8	2.0	1.0	.0	.0	1.0	.0	1.0	9.2	
	PCP	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
1/2<1	NO PCP	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	2.0	
	PCP	.8	.0	.0	1.0	.8	.3	1.0	.3	.0	.0	4.1	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	
	TOT %	.8	.0	.0	1.0	.8	.3	1.0	2.3	.0	.0	6.1	
	PCP	.0	.3	.8	1.0	.5	.5	.0	.0	.0	.0	3.1	
2<5	NO PCP	.0	1.3	.8	3.1	2.0	.0	1.8	.3	.0	.0	9.2	
	TOT %	.0	1.5	1.5	4.1	2.6	.5	1.8	.3	.0	.0	12.2	
	PCP	.0	.0	.8	.3	.0	.0	.0	.0	.0	.0	1.0	
5<10	NO PCP	.0	1.0	1.0	2.3	3.1	2.8	.0	2.0	.0	.0	12.2	
	TOT %	.0	1.0	1.8	2.6	3.1	2.8	.0	2.0	.0	.0	13.3	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	1.8	3.6	4.1	8.2	19.1	4.8	6.9	4.6	.0	4.1	57.1	
	TOT %	1.8	3.6	4.1	8.2	19.1	4.8	6.9	4.6	.0	4.1	57.1	
	TOT OBS												98
	TOT PCT	4.3	6.6	9.2	19.9	26.5	8.4	9.7	10.2	.0	5.1	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	2.2	
<1/2	4-10	.8	.3	1.1	.0	.0	.0	.0	.0	.0		2.2	
	11-21	1.1	.0	.0	.0	.0	.0	.0	.0	.0		1.1	
	22+	.0	.0	.0	2.2	.0	.0	.0	.0	.0		2.2	
	TOT %	1.9	.3	1.1	2.2	.0	.0	.0	1.1	.0	1.1	7.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	22+	.0	.0	.0	2.2	.0	.0	.0	.0	.0		2.2	
	TOT %	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	2.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	1.1	
1<2	4-10	.8	.0	.0	.0	.0	.0	.0	.3	.0		1.1	
	11-21	.0	.0	.0	.0	.0	.0	1.1	1.1	.0		2.2	
	22+	.0	.0	.0	1.1	.8	.3	.0	.0	.0		2.2	
	TOT %	.8	.0	.0	1.1	.8	.3	1.1	2.4	.0	.0	6.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.0	.0	.0	.0	.0	.0	.8	1.3	.0		2.2	
	11-21	.0	1.1	.0	.0	1.6	.5	.0	.0	.0		3.2	
	22+	.0	.5	1.6	4.3	.0	.0	1.1	.0	.0		7.5	
	TOT %	.0	1.6	1.6	4.3	1.6	.5	1.9	1.3	.0	.0	12.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	4-10	.0	.0	.0	.0	.5	1.6	.0	1.1	.0		3.2	
	11-21	.0	.0	1.9	2.4	1.9	.3	.0	.0	.0		6.5	
	22+	.0	1.1	.0	.3	.8	1.1	.0	1.1	.0		4.3	
	TOT %	.0	1.1	1.9	2.7	3.2	3.0	.0	2.2	.0	.0	14.0	
	0-3	.0	1.1	1.6	2.2	5.9	.5	2.7	.0	.0	4.3	18.3	
10+	4-10	1.9	1.6	1.6	3.2	7.5	.5	2.7	2.4	.0		21.5	
	11-21	.0	1.1	.0	2.2	5.6	4.0	.8	.3	.0		14.0	
	22+	.0	.0	.0	1.1	1.1	.0	1.1	.0	.0		3.2	
	TOT %	1.9	3.8	3.2	8.6	20.2	5.1	7.3	2.7	.0	4.3	57.0	
	TOT OBS												93
	TOT PCT	4.6	6.7	7.8	21.0	25.8	8.9	10.2	9.7	.0	5.4	100.0	

APRIL

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1932-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.1E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	9.5	.0	4.8	4.8	14.3	47.6	.0	.0	.0	.0	81.0	19.0	21
06&09	17.6	5.9	.0	5.9	11.8	35.3	5.9	.0	.0	.0	82.4	17.6	17
12&15	23.5	.0	5.9	.0	5.9	5.9	5.9	.0	5.9	.0	52.9	47.1	17
18&21	.0	.0	.0	.0	33.3	33.3	.0	.0	.0	.0	66.7	33.3	6
TOT	9	1	2	2	8	19	2	0	1	0	44	17	61
PCT	14.8	1.6	3.3	3.3	13.1	31.1	3.3	.0	1.6	.0	72.1	27.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.6	7.1	.0	14.3	17.9	57.1	28
06&09	12.9	.0	12.9	6.5	16.1	51.6	31
12&15	10.7	.0	10.7	17.9	10.7	50.0	28
18&21	5.0	.0	5.0	15.0	15.0	60.0	20
TOT	9	2	8	14	16	58	107
PCT	8.4	1.9	7.5	13.1	15.0	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
00&03	9.5	19.0	38.1	42.9	19.0	21
06&09	18.8	25.0	43.8	37.5	18.8	16
12&15	23.5	29.4	52.9	11.8	35.3	17
18&21	.0	.0	16.7	50.0	33.3	6
TOT	9	13	25	20	15	60
PCT	15.0	21.7	41.7	33.3	25.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	10.0	.0	.0	.0	10.0	.0	2	20.0
50/54	.0	.0	.0	.0	.0	.0	10.0	.0	1	10.0
45/49	.0	.0	.0	.0	.0	10.0	10.0	.0	2	20.0
40/44	.0	.0	.0	10.0	10.0	10.0	10.0	.0	4	40.0
30/34	.0	.0	.0	.0	.0	.0	.0	10.0	1	10.0
TOTAL	0	0	1	1	1	2	4	1	10	100.0
PCT	.0	.0	10.0	10.0	10.0	20.0	40.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	10.0	.0	.0	10.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	5.0	5.0	.0	.0	.0	.0
.0	.0	.0	5.0	15.0	.0	.0	.0	.0	.0
.0	.0	.0	10.0	17.5	7.5	5.0	.0	.0	.0
.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0
.0	10.0	.0	15.0	47.5	22.5	5.0	.0	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	55	54	54	36	32	22	22	38.3	24
06&09	48	47	45	35	30	30	30	36.4	30
12&15	47	46	43	34	29	18	18	34.6	27
18&21	57	56	56	34	26	26	26	36.8	19
TOT	57	55	48	35	29	18	18	36.4	100

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	50.0	.0	50.0	.0	.0	57	2
06&09	.0	50.0	50.0	.0	.0	.0	53	2
12&15	.0	.0	.0	33.3	33.3	33.3	87	3
18&21	.0	.0	.0	.0	100.0	.0	85	3
TOT	0	2	1	2	4	1	75	10

APRIL

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1932-1974

TABLE 17

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.1E

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

AIR-SEA TMP DIF	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	1.4	2.7	.0	.0	.0	3	1.4	2.7
6	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	2	.0	2.7
5	.0	.0	.0	.0	.0	.0	6.8	1.4	.0	.0	1.4	7	.0	9.5
4	.0	.0	.0	.0	5.4	4.1	2.7	1.4	.0	.0	.0	10	1.4	12.2
3	.0	.0	.0	.0	2.7	1.4	.0	.0	.0	.0	.0	3	.0	4.1
2	.0	.0	.0	.0	4.1	4.1	.0	1.4	.0	1.4	.0	8	.0	10.8
1	.0	.0	.0	.0	1.4	2.7	.0	.0	.0	1.4	.0	4	1.4	4.1
0	.0	.0	.0	5.4	10.8	.0	.0	.0	.0	.0	.0	12	1.4	14.9
-1	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	1	.0	1.4
-2	.0	.0	.0	5.4	5.4	.0	.0	.0	.0	.0	.0	8	1.4	9.5
-3	.0	.0	.0	1.4	4.1	.0	.0	.0	.0	.0	.0	4	.0	5.4
-4	.0	.0	.0	6.8	.0	.0	1.4	.0	.0	.0	.0	6	.0	8.1
-5	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	1	.0	1.4
-7/-8	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	1.4
-9/-10	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	2	.0	2.7
-14/-16	1.4	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	2	1.4	1.4
TOTAL	1	1	1	15	26	9	12	5	0	3	1	74	6	68
PCT	1.4	1.4	1.4	20.3	35.1	12.2	16.2	6.8	.0	4.1	1.4	100.0	8.1	91.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.7	.0	.0	.0	.0	5.7
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.7	2.3	.0	.0	.0	8.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	2.3	2.3	.0	.0	.0	.0	4.5
3-4	.0	.0	.0	.6	.0	.0	.6
5-6	.0	.0	4.5	.6	.0	.0	5.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	2.3	.0	.0	2.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	2.8	4.5	3.4	.0	.0	13.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.7	.0	.0	.0	1.7
3-4	.0	.0	2.3	1.7	.0	.0	4.0
5-6	.0	.0	.0	1.7	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.0	3.4	.0	.0	7.4

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	5.1	.0	.0	.0	5.1
3-4	.0	2.3	2.3	.0	.0	.0	4.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.3	2.3	.0	.0	4.5
8-9	.0	.0	.0	4.5	.0	.0	4.5
10-11	.0	.0	.0	4.5	.0	.0	4.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	7.4	.0	.0	7.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	9.7	18.8	.0	.0	30.7

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.1E

TABLE 18 (CONT)

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	2.3	.0	.0	.0	.0	.0	2.3
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	1.7	.0	1.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.7	.0	.0	1.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	.0	2.3	1.7	1.7	.0	8.0

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	4.5	.0	.0	4.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.6	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.3	4.5	.6	.0	7.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.7	.0	.0	.0	1.7
5-6	.0	1.7	.0	4.5	.0	.0	6.3
7	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	4.0	4.5	.0	.0	10.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	2.3	.0	.0	.0	.0	2.3	
3-4	.0	.0	.6	.0	.0	.0	.6	
5-6	.0	.6	.0	.0	.0	.0	.6	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	2.3	2.3	.0	.0	4.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.4	2.8	2.3	.0	.0	8.5	93.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.8	6.8	.0	.0	.0	.0	13.6	
1-2	4.5	4.5	6.8	.0	.0	.0	15.9	
3-4	.0	2.3	6.8	2.3	.0	.0	11.4	
5-6	.0	2.3	6.8	6.8	.0	.0	15.9	
7	.0	.0	9.1	6.8	.0	.0	15.9	
8-9	.0	.0	.0	6.8	.0	.0	6.8	
10-11	.0	.0	2.3	6.8	2.3	.0	11.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	9.1	.0	.0	9.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								44
TOT PCT	11.4	15.9	31.8	38.6	2.3	.0	100.0	

PERIOD: (OVER-ALL) 1956-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	7.0	5.3	8.8	5.3	1.8	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
6-7	.0	.0	3.5	1.8	3.5	3.5	1.8	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	8
8-9	.0	.0	1.8	3.5	5.3	8.8	3.5	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
10-11	.0	1.8	.0	1.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
12-13	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.8	3.5	3.5	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	2
TOTAL	5	7	8	9	9	8	6	0	5	0	0	0	0	0	0	0	0	0	0	57	6
PCT	8.8	12.3	14.0	15.8	15.8	14.0	10.5	.0	8.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.8	.0	3.2	.0	5.1	.0	.0	11.1	3.7	.0	12.0	5.1	.0		.0	68.2
NE	12.3	.0	4.7	.0	5.4	.0	.0	20.9	2.9	.0	28.2	.4	1.4		.0	46.2
E	8.8	.0	6.9	.0	6.9	2.5	.0	25.2	1.9	.0	35.2	.0	.0		.0	37.7
SE	7.2	.0	.0	.0	7.2	.0	.0	12.4	.9	.0	30.4	.0	2.1		.0	54.6
S	4.3	.0	3.6	.0	.9	.0	.0	8.8	.0	.0	24.2	.9	1.6		.0	64.6
SW	5.7	.0	.0	.0	1.8	.0	.0	7.5	1.8	.0	27.8	.0	.4		.0	62.6
W	2.6	.0	2.6	.0	.0	.0	.0	5.1	.0	.0	19.9	.0	2.6		.0	72.4
NW	2.3	.0	2.9	.0	2.9	.0	.0	8.0	2.3	.0	16.0	.0	2.3		.0	71.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	35.0	5.0	.0		.0	50.0
TOT PCT	6.0	.0	2.9	.0	3.3	.2	.0	12.0	1.5	.0	24.7	1.0	1.2		.0	59.5
TOT OBS:	482															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.4	.0	2.7	.0	4.7	.7	.0	14.8	.7	.0	26.2	.0	1.3		.0	57.0
06&09	2.5	.0	.8	.0	3.3	.8	.0	6.7	1.7	.0	19.2	1.7	1.7		.0	69.2
12&15	5.7	.0	3.5	.0	1.4	.7	.0	11.3	2.1	.0	20.6	.0	.7		.7	66.5
18&21	7.1	.0	4.1	.0	6.1	.0	.0	17.3	1.0	.0	33.7	3.1	1.0		.0	43.9
TOT PCT	5.7	.0	2.8	.0	3.7	.6	.0	12.4	1.4	.0	24.4	1.0	1.2		.2	59.4
TOT OBS:	508															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.6	3.5	4.7	.7	.2	.0		11.6	11.2	11.6	11.0	14.9	13.3	5.9	5.0	17.5	16.7
NE	3.1	6.0	4.5	1.3	.0	.0		14.9	10.6	6.2	34.0	7.6	18.4	10.8	18.8	9.0	30.2
E	.9	2.9	2.8	1.4	.0	.0		8.0	12.6	5.1	6.0	5.4	6.1	9.7	5.0	13.0	15.6
SE	2.2	5.0	2.1	1.1	.2	.0		10.6	10.0	10.2	14.0	10.1	10.2	11.6	15.0	8.5	5.2
S	2.6	10.8	8.0	1.5	.4	.0		23.3	11.0	30.9	18.0	22.1	25.5	23.9	18.8	23.5	15.6
SW	1.8	5.0	3.6	.8	.2	.0		11.3	10.6	16.9	7.0	10.1	13.3	10.2	11.3	10.0	8.3
W	1.8	2.9	2.6	.4	.0	.0		7.7	9.8	8.3	3.0	12.3	5.1	6.5	17.5	5.5	4.2
NW	.6	2.5	4.3	1.2	.2	.0		8.8	13.8	8.6	3.0	13.0	8.2	12.9	6.3	11.0	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7							3.7	.0	2.2	4.0	4.3	.0	8.6	2.5	2.0	2.1
TOT OBS	93	190	160	41	6	0	492		10.7	93	50	69	49	93	40	50	48
TOT PCT	19.3	38.6	32.5	8.3	1.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.6	4.4	2.2	.2	.2		11.6	11.2	11.4	14.2	5.6	17.1
NE	5.9	4.7	4.1	.3	.0		14.9	10.6	15.9	12.1	13.2	19.4
E	2.5	3.2	2.2	.2	.0		8.0	12.6	5.4	5.7	8.3	14.3
SE	4.6	4.3	1.3	.4	.0		10.6	10.0	11.5	10.2	12.6	6.9
S	9.7	8.0	4.7	.7	.2		23.3	11.0	26.4	23.5	22.4	19.6
SW	4.9	3.7	2.4	.3	.0		11.3	10.6	13.5	11.4	10.5	9.2
W	3.3	3.0	1.3	.2	.0		7.7	9.8	6.5	9.3	9.8	4.8
NW	1.5	4.3	2.6	.4	.0		8.8	13.8	6.6	11.0	10.9	6.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.7						3.7	.0	2.8	2.5	6.8	2.0
TOT OBS	200	175	102	13	2	492		10.7	143	118	133	98
TOT PCT	40.7	35.6	20.7	2.6	.4		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS) CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.8	16.1	44.1	28.7	7.7	.7	.0	10.3	100.0	143
06&09	2.5	12.7	39.8	33.1	8.5	3.4	.0	11.4	100.0	118
12&15	6.8	17.3	32.3	34.6	9.0	.0	.0	10.6	100.0	133
18&21	2.0	16.3	37.8	34.7	8.2	1.0	.0	10.5	100.0	98
TOT	18	77	190	160	41	6	0	10.7		492
PCT	3.7	15.7	38.6	32.5	8.3	1.2	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.7	1.9	8.7		7.0
NE	.5	.1	.3	7.0		7.5
E	1.1	.0	.8	6.1		6.8
SE	1.9	1.6	.4	5.8		5.7
S	6.1	2.7	3.6	12.5		5.5
SW	1.6	1.4	3.1	7.7		6.2
W	1.4	.7	1.7	5.2		6.2
NW	1.6	.5	1.7	7.1		6.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	1.2	1.2		4.6
TOT OBS	43	20	38	159	260	6.2
TOT PCT	16.5	7.7	14.6	61.2	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.6	.4	.6	2.1	2.5	1.7	.4	.0	.0	.3	2.4	
NE	2.0	.4	.0	.1	1.7	1.3	.0	.8	.4	.1	1.1	
E	2.3	.3	.0	.0	2.6	1.6	.0	.0	.0	.0	1.1	
SE	3.6	.1	.0	.4	1.0	1.1	.1	.0	.0	.0	3.6	
S	3.2	.0	.8	.8	2.8	4.7	1.4	.3	.4	.7	9.8	
SW	4.7	.0	.0	.0	.5	2.2	1.9	.1	.4	.5	3.6	
W	1.4	.0	.4	.8	1.8	1.0	1.2	.0	.0	.0	2.5	
NW	1.9	.0	.2	.9	3.7	1.3	.4	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.4	.0	.0	.4	.8	.0	.0	.4	.0	1.9	
TOT OBS	54	4	5	13	44	41	14	3	4	4	74	260
TOT PCT	20.8	1.5	1.9	5.0	16.9	15.8	5.4	1.2	1.5	1.5	28.5	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.2	2.9	2.9	2.9	2.9	2.9	2.9	2.9
* OR >5000	3.3	5.1	5.1	5.1	5.1	5.1	5.1	5.1
* OR >3500	6.6	10.3	10.3	10.3	10.3	10.3	10.3	10.3
* OR >2000	14.3	23.8	24.9	25.6	25.6	26.0	26.4	26.4
* OR >1000	19.4	34.8	39.2	40.7	42.1	42.9	43.6	43.6
* OR >600	20.1	36.6	42.9	44.3	46.5	47.3	48.0	48.0
* OR >300	20.9	38.5	45.4	46.9	49.5	50.2	50.9	50.9
* OR >150	21.6	39.9	46.9	48.4	50.9	51.6	52.4	52.4
* OR > 0	22.3	41.8	51.3	54.9	58.6	64.5	72.2	72.5
TOTAL	61	114	140	150	160	176	197	198

TOTAL NUMBER OF OBS: 273

PCT FREQ NH <5/8: 27.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.1	1.7	5.7	4.0	3.7	2.4	4.4	6.1	40.1	19.9	297

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1908-1974

TABLE 8

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.3	.2	.2	.3	.0	.0	.0	.0	1.3	
	NO PCP	.4	1.3	1.2	1.4	2.6	2.4	.8	1.9	.0	.6	11.9	
	TOT %	.4	1.6	1.5	1.6	2.8	2.7	.8	1.9	.0	.6	13.2	
1/2<1	PCP	.4	.4	.0	.2	.4	.0	.0	.1	.0	.0	1.5	
	NO PCP	.0	.7	.8	.3	.3	.4	.2	.2	.0	.2	3.1	
	TOT %	.4	1.1	.8	.5	.7	.4	.2	.3	.0	.2	4.6	
1<2	PCP	.2	.8	.3	.5	.2	.4	.0	.4	.0	.0	2.9	
	NO PCP	.9	1.2	.2	.6	.3	.2	.0	.0	.0	.0	3.3	
	TOT %	1.1	2.0	.5	1.1	.5	.6	.0	.4	.0	.0	6.3	
2<5	PCP	.5	.8	1.3	.3	.8	.0	.2	.0	.0	.2	4.2	
	NO PCP	1.1	1.4	.6	.4	.6	.4	.4	1.0	.0	.2	6.3	
	TOT %	1.7	2.2	1.9	.7	1.5	.4	.6	1.0	.0	.4	10.4	
5<10	PCP	.2	.4	.4	.1	.4	.2	.0	.3	.0	.2	2.1	
	NO PCP	2.0	2.9	1.8	2.8	5.0	1.0	1.9	2.2	.0	.4	20.3	
	TOT %	2.2	3.3	2.2	2.9	5.4	1.3	1.9	2.5	.1	.6	22.3	
10+	PCP	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.4	
	NO PCP	5.6	4.0	1.5	3.1	12.1	6.4	4.4	3.7	.0	2.1	42.8	
	TOT %	5.6	4.2	1.5	3.1	12.1	6.4	4.6	3.7	.0	2.1	43.2	
	TOT OBS												479
	TOT PCT	11.8	14.5	8.4	9.9	23.0	11.8	8.1	9.1	.0	4.0	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.4	.0	.3	.3	.6	.2	.0	.0	.4	2.3	
	4-10	.1	.3	.6	.6	1.3	.6	.4	.6	.0		4.5	
	11-21	.3	.9	.4	.3	.7	.8	.2	.4	.0		3.9	
	22+	.0	.0	.6	.2	.3	.1	.0	.0	.0		1.2	
	TOT %	.4	1.7	1.6	1.3	2.6	2.2	.8	1.0	.0	.4	12.0	
1/2<1	0-3	.0	.1	.3	.0	.0	.2	.0	.2	.0	.2	1.0	
	4-10	.0	.7	.3	.3	.3	.2	.2	.0	.0		2.1	
	11-21	.2	.3	.2	.0	.2	.0	.0	.1	.0		.8	
	22+	.2	.0	.0	.2	.0	.0	.0	.0	.0		.4	
	TOT %	.4	1.1	.8	.5	.5	.4	.2	.3	.0	.2	4.3	
1<2	0-3	.4	.4	.0	.2	.0	.2	.0	.2	.0	.0	1.4	
	4-10	.5	.9	.3	.6	.6	.3	.0	.2	.0		3.5	
	11-21	.4	.5	.2	.1	.2	.0	.0	.2	.0		1.4	
	22+	.2	.6	.0	.4	.0	.2	.0	.0	.0		1.4	
	TOT %	1.5	2.4	.5	1.3	.8	.7	.0	.6	.0	.0	7.9	
2<5	0-3	.1	.7	.0	.2	.1	.1	.4	.0	.0	.4	2.1	
	4-10	.8	1.3	.2	.9	1.0	.7	.2	.2	.0		5.4	
	11-21	1.2	.4	.9	.1	.4	.2	.2	.4	.0		3.7	
	22+	.0	.4	.4	.2	.4	.0	.0	.2	.0		1.7	
	TOT %	2.1	2.8	1.5	1.4	2.0	1.0	.8	.8	.0	.4	12.8	
5<10	0-3	.0	.3	.1	.9	.8	.0	.4	.0	.0	.6	3.1	
	4-10	.3	1.1	.6	1.2	2.7	.4	.6	.6	.0		7.6	
	11-21	1.5	1.4	1.1	.6	1.7	.4	.3	1.4	.0		8.7	
	22+	.2	.3	.2	.2	.4	.2	.2	.4	.0		2.1	
	TOT %	2.1	3.2	2.0	2.8	5.6	1.0	1.7	2.5	.0	.6	21.5	
10+	0-3	1.9	1.2	.5	.6	1.5	.7	.8	.2	.0	2.1	9.5	
	4-10	1.7	1.5	.7	1.2	4.8	2.8	1.5	.9	.0		15.3	
	11-21	1.2	1.1	.2	1.2	5.0	2.1	1.6	1.6	.0		14.0	
	22+	.4	.1	.0	.0	.8	.5	.2	.8	.0		2.7	
	TOT %	5.2	3.9	1.4	3.1	12.0	6.1	4.2	3.6	.0	2.1	41.5	
	TOT OBS												484
	TOT PCT	11.6	15.0	7.8	10.5	23.5	11.5	7.7	8.8	.0	3.7	100.0	

MAY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	19.8	2.1	4.2	6.3	16.7	16.7	7.3	1.0	1.0	2.1	77.1	22.9	96
06&09	13.6	3.0	4.5	1.5	25.8	12.1	4.5	.0	1.5	1.5	68.2	31.8	66
12&15	21.0	.0	1.2	2.5	12.3	18.5	4.9	4.9	2.5	.0	67.9	32.1	81
18&21	33.3	.0	.0	9.5	11.9	11.9	.0	2.4	.0	2.4	71.4	28.6	42
TOT	59	4	8	13	48	44	14	6	4	4	204	81	285
PCT	20.7	1.4	2.8	4.6	16.8	15.4	4.9	2.1	1.4	1.4	71.6	28.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	10.4	5.8	9.1	9.7	24.7	40.3	154
06&09	12.5	4.7	6.3	7.8	16.4	52.3	128
12&15	11.9	3.3	4.6	15.2	25.2	39.7	151
18&21	19.2	4.8	9.6	20.2	19.2	26.9	104
TOT	70	23	39	69	117	217	537
PCT	13.0	4.7	7.3	12.8	21.8	40.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	19.8	30.8	41.8	37.4	20.9	91
06&09	13.6	24.2	31.8	36.4	31.8	66
12&15	22.1	27.3	33.8	37.7	28.6	77
18&21	28.2	35.9	59.0	20.5	20.5	39
TOT	55	79	108	95	70	273
PCT	20.1	28.9	39.6	34.8	25.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.0	5.3	.0	1	5.3
45/49	.0	.0	.0	.0	.0	.0	5.3	.0	1	5.3
40/44	.0	.0	.0	.0	5.3	.0	.0	10.5	3	15.8
35/39	.0	.0	.0	.0	.0	.0	10.5	31.6	8	42.1
30/34	.0	.0	.0	.0	.0	.0	.0	31.6	6	31.6
TOTAL	0	0	0	0	1	0	4	14	19	100.0
PCT	.0	.0	.0	.0	5.3	.0	21.1	73.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0
5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
5.3	5.3	5.3	.0	.0	.0	.0	.0	.0	.0
7.9	7.9	10.5	.0	.0	5.3	5.3	5.3	.0	.0
18.4	.0	.0	5.3	.0	.0	.0	7.9	.0	.0
36.8	13.2	15.8	5.3	5.3	5.3	5.3	13.2	.0	.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	63	61	54	40	32	28	27	40.9	153
06&09	59	57	48	39	32	29	25	39.7	124
12&15	54	52	46	37	30	28	27	38.3	142
18&21	57	54	49	37	30	23	23	37.9	106
TOT	63	57	50	39	31	28	23	39.3	525

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	14.3	.0	28.6	57.1	87	7
06&09	.0	.0	.0	.0	100.0	.0	84	1
12&15	.0	.0	.0	.0	16.7	83.3	94	6
18&21	.0	.0	.0	.0	.0	100.0	99	5
TOT	0	0	1	0	4	14	92	19

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 17

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

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	2	.0	.5
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.2	.0
17/19	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	3	.2	.5
14/16	.0	.0	.0	.0	.0	.0	.7	.4	.7	.0	8	.5	1.3
11/13	.0	.0	.0	.0	.5	1.4	.7	.7	.0	.0	14	.7	2.5
9/10	.0	.0	.0	.2	.7	1.6	1.6	.2	.0	.0	19	.0	4.3
7/8	.0	.0	.0	.7	1.6	1.6	.7	.2	.0	.0	21	1.6	3.2
6	.0	.0	.2	.5	.5	.7	.2	.0	.0	.0	9	.0	2.1
5	.0	.0	.5	1.8	3.0	3.2	.0	.0	.0	.0	37	3.0	5.5
4	.0	.0	1.8	3.6	2.1	2.1	.5	.0	.0	.0	44	2.7	7.3
3	.0	.0	.7	3.4	.7	.0	.0	.0	.0	.0	21	.9	3.9
2	.0	.0	3.9	5.0	2.1	2.3	.2	.0	.0	.0	59	4.1	9.3
1	.0	.2	1.4	2.1	.2	.2	.0	.0	.0	.0	18	.7	4.1
0	.0	1.8	4.1	4.6	2.3	1.4	.0	.0	.0	.0	62	5.5	8.7
-1	.0	.5	.9	.9	.7	.0	.0	.0	.0	.0	13	.5	2.5
-2	.2	2.1	3.2	2.3	.5	.7	.0	.0	.0	.0	39	2.3	6.6
-3	.0	.2	.5	.7	.0	.5	.0	.0	.0	.0	8	.2	1.6
-4	.2	.7	3.4	1.1	.7	.0	.0	.0	.0	.0	27	1.1	5.1
-5	.2	1.1	1.4	.9	.2	.2	.0	.0	.0	.0	18	1.4	2.7
-6	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	3	.2	.5
-7/-8	.5	.5	.5	.2	.0	.0	.0	.0	.0	.0	7	.2	1.4
-9/-10	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	3	.0	.7
-11/-13	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	2	.0	.5
-14/-16	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	8		98		69		21		5			114	325
		34		125		69		8		2	439		
PCT	1.8	7.7	22.3	28.5	15.7	15.7	4.8	1.8	1.1	.5	100.0	26.0	74.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.4	.4	.0	.0	.0	2.0
1-2	.0	.6	2.0	.0	.0	.0	2.6
3-4	.0	.3	3.1	.0	.0	.0	3.4
5-6	.0	.3	2.9	.7	.0	.0	3.6
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	1.7	8.8	1.1	.0	.0	12.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.4	.0	.0	.0	.0	.5
1-2	.0	1.0	2.0	.0	.0	.0	3.0
3-4	.0	.5	2.0	.0	.0	.0	2.5
5-6	.0	.1	1.1	.1	.0	.0	1.3
7	.0	.0	.5	.1	.0	.0	.6
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.0	6.1	.6	.0	.0	8.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.0	1.4	.0	.0	.0	1.4
3-4	.0	.0	1.1	.4	.0	.0	1.5
5-6	.0	.0	1.6	.4	.0	.0	2.0
7	.0	.4	.7	.4	.0	.0	1.6
8-9	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.0	.3	.4	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	5.1	2.4	.0	.0	8.3

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.7	.4	.0	.0	.0	1.7
1-2	.0	1.8	1.6	.0	.0	.0	3.4
3-4	.0	.8	1.5	.0	.0	.0	2.3
5-6	.0	.1	.2	.8	.0	.0	1.2
7	.0	.0	.5	.0	.4	.0	1.0
8-9	.0	.0	.0	1.0	.0	.0	1.0
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.5	4.3	1.8	.4	.0	10.6

PERIOD: (OVER-ALL) 1963-1974

MAY

TABLE 18 (CONT)

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

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

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.1	.4	.0	.0	.0	3.6
1-2	.0	2.3	3.8	.0	.0	.0	6.1
3-4	.0	.4	4.4	.3	.0	.0	5.2
5-6	.0	.3	2.0	.0	.0	.0	2.3
7	.0	.0	1.1	.4	.0	.0	1.5
8-9	.0	.0	.6	2.0	.0	.0	2.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.4	.0	.4	.0	.8
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.2	12.8	2.8	.8	.0	22.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.5	.4	.0	.0	.0	2.4
1-2	.4	1.8	1.9	.0	.0	.0	4.1
3-4	.0	.4	2.8	.5	.0	.0	3.7
5-6	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.3	.5	.4	.0	1.3
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.7	6.4	1.5	.4	.0	12.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.7	.0	.0	.0	.0	1.7
1-2	.8	.3	.3	.0	.0	.0	1.5
3-4	.0	.8	1.8	.0	.0	.0	2.6
5-6	.0	.0	1.2	.4	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.9	4.4	.8	.0	.0	9.0

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.0	.0	.0	.0	.8	
1-2	.0	1.5	1.4	.0	.0	.0	2.9	
3-4	.0	.8	1.6	.4	.0	.0	2.9	
5-6	.0	.4	1.2	.8	.0	.0	2.4	
7	.0	.0	.4	.4	.0	.0	.8	
8-9	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.4	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.6	5.0	1.7	.4	.0	10.7	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	8.1	1.7	.0	.0	.0	17.4	
1-2	1.3	9.3	14.4	.0	.0	.0	25.0	
3-4	.0	4.2	18.2	1.7	.0	.0	24.2	
5-6	.0	1.3	9.7	3.8	.0	.0	14.8	
7	.0	.4	3.8	1.7	.4	.0	6.4	
8-9	.0	.0	2.5	4.2	.4	.0	7.2	
10-11	.0	.0	1.3	.8	.0	.0	2.1	
12	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.8	.0	.4	.0	1.3	
17-19	.0	.0	.4	.0	.4	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								236
TOT PCT	8.9	23.3	53.0	12.7	2.1	.0	100.0	

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	11.5	15.0	8.7	1.0	1.7	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	4
6-7	.0	1.4	3.8	3.5	3.8	4.2	1.0	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	6
8-9	.0	.0	.0	.7	1.0	1.4	.3	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
10-11	.0	.3	.3	1.0	.7	1.4	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
12-13	.0	.0	2.8	1.7	.7	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	5
>13	.0	.0	.0	.0	.0	.7	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	4.2	3.8	5.6	1.7	2.4	1.4	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	4
TOTAL	18	49	79	50	28	31	13	5	11	2	0	0	0	0	0	0	0	0	0	286	5
PCT	6.3	17.1	27.6	17.5	9.8	10.8	4.5	1.7	3.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1933-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	6.2	.0	1.6	.0	.0	.0	.0	7.8	.0	.0	43.8	.0	1.6		.0	46.9
NE	8.3	.0	2.7	.0	.0	.0	.0	11.0	2.7	.0	51.5	.0	2.7		.0	32.2
E	11.5	.0	2.4	.0	.0	.0	.0	13.9	1.2	.0	35.2	2.4	.0		.0	47.3
SE	5.9	.0	.2	.0	.0	.0	.0	6.1	.8	.0	44.0	.0	.0		.8	48.3
S	9.2	.0	1.7	.0	.0	.0	.0	10.9	.4	.0	34.5	.0	1.3		.4	52.5
SW	3.3	.0	.2	.0	.0	.0	.0	3.5	1.1	.0	33.7	.0	.2		.2	61.3
W	3.8	.0	3.4	.0	.0	.0	.0	7.7	1.9	.0	17.2	1.9	.0		.0	71.3
NW	4.4	.0	2.2	.0	.0	.0	.0	6.6	2.2	.0	25.1	.0	.0		.0	66.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	6.4	.0	.0	.0	.0	.0	.0	6.4	4.3	.0	51.1	.0	.0		.0	38.3
TOT PCT	7.0	.0	1.5	.0	.0	.0	.0	8.5	1.2	.0	37.5	.4	.7		.2	51.4
TOT OBS:	813															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	5.2	.0	2.0	.0	.0	.0	.0	7.2	1.2	.0	37.6	.8	1.6		.0	51.6
06&09	8.7	.0	.0	.0	.0	.0	.0	8.7	1.8	.0	33.9	.5	.5		.5	54.1
12&15	8.3	.0	2.4	.0	.0	.0	.0	10.7	1.5	.0	36.1	.5	.0		.0	51.2
18&21	5.4	.0	1.2	.0	.0	.0	.0	6.6	.0	.0	42.8	.0	.6		.6	49.4
TOT PCT	6.9	.0	1.4	.0	.0	.0	.0	8.3	1.2	.0	37.3	.5	.7		.2	51.7
TOT OBS:	839															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	4.1	2.4	.0	.0	.0		7.8	8.3	7.3	3.9	8.5	6.3	6.1	10.8	9.7	12.4
NE	2.1	4.2	2.1	.4	.0	.0		8.9	8.4	8.0	9.5	3.6	9.3	10.2	4.4	11.5	15.0
E	1.0	4.2	2.6	.2	.0	.0		8.0	9.3	8.2	9.5	6.4	5.0	12.5	6.3	9.0	5.3
SE	2.4	10.1	4.7	.0	.0	.0		17.1	8.5	18.3	17.8	19.1	15.5	19.3	16.8	16.0	12.4
S	5.2	13.9	8.2	.8	.0	.0		28.0	8.9	31.9	32.2	20.6	41.3	19.7	31.3	23.7	22.4
SW	2.0	7.9	4.4	.2	.0	.0		14.6	9.2	8.0	17.4	15.2	13.3	15.2	16.5	16.7	17.9
W	.8	3.1	1.8	.3	.0	.0		6.0	9.5	3.9	5.1	8.2	6.5	7.4	7.6	3.7	5.6
NW	1.1	2.0	1.3	.3	.0	.0		4.6	9.0	5.2	3.7	7.0	1.0	3.9	5.1	3.3	6.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	8.2	.9	11.3	2.0	5.7	1.3	6.7	2.4
TOT OBS	166	396	221	17	0	0	800		8.4	134	108	97	100	122	79	75	85
TOT PCT	20.8	49.5	27.6	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.5	3.8	.5	.0	.0		7.8	8.3	5.8	7.4	8.0	11.1
NE	4.5	3.2	1.3	.0	.0		8.9	8.4	8.7	6.5	8.0	12.3
E	3.0	4.1	.9	.0	.0		8.0	9.3	8.8	5.7	10.1	7.0
SE	7.2	8.5	1.5	.0	.0		17.1	8.5	18.1	17.3	18.3	14.1
S	12.2	12.5	3.3	.1	.0		28.0	8.9	32.0	31.1	24.3	23.0
SW	5.5	7.2	1.9	.0	.0		14.6	9.2	12.2	14.2	15.7	17.3
W	2.8	2.2	1.0	.0	.0		6.0	9.5	4.4	7.4	7.5	4.7
NW	2.3	1.7	.5	.1	.0		4.6	9.0	5.1	3.9	4.4	5.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	5.0	6.6	4.0	4.4
TOT OBS	367	345	86	2	0	800		8.4	242	197	201	160
TOT PCT	45.9	43.1	10.8	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.0	15.3	52.9	25.2	1.7	.0	.0	8.1	100.0	242
06&09	6.6	12.2	53.3	24.9	3.0	.0	.0	8.4	100.0	197
12&15	4.0	12.9	47.8	32.8	2.5	.0	.0	9.1	100.0	201
18&21	4.4	24.4	41.9	28.1	1.3	.0	.0	8.1	100.0	160
TOT	40	126	396	221	17	0	0	8.4		800
PCT	5.0	15.8	49.5	27.6	2.1	.0	.0		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.7	.2	1.4	5.7		6.9
NE	.0	.0	.5	8.6		7.9
E	.2	.7	1.4	10.6		7.4
SE	2.8	.8	1.6	9.7		6.3
S	4.7	.9	3.3	13.2		6.0
SW	2.3	1.6	1.3	4.7		5.4
W	.9	.5	1.8	2.7		6.0
NW	1.4	.5	1.0	4.7		6.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	2.0	5.7		6.4
TOT OBS	56	25	57	264	402	6.4
TOT PCT	13.9	6.2	14.2	65.7	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.6	.0	.2	.0	2.1	1.7	.0	.0	.2	.0	1.2	
NE	4.0	.0	.0	.8	2.7	1.3	.1	.0	.0	.0	.2	
E	3.7	.0	.4	1.2	4.1	1.1	.6	.0	.2	.2	1.3	
SE	5.8	.0	.1	.3	.9	1.6	1.1	.0	.6	.0	4.5	
S	7.8	.0	.2	.7	1.2	4.4	.8	.0	.2	.0	6.7	
SW	3.3	.0	.0	.2	.6	.6	.4	.2	.1	.2	4.1	
W	.4	.0	.0	.2	.9	1.5	.4	.0	.7	.0	1.9	
NW	1.4	.2	.0	.1	1.7	1.1	.8	.0	.1	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.2	.0	.0	.0	.7	2.0	.0	.0	.0	.5	2.2	
TOT OBS	134	1	4	14	60	61	17	1	8	4	98	402
TOT PCT	33.3	.2	1.0	3.5	14.9	15.2	4.2	.2	2.0	1.0	24.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	2.2	2.7	2.9	2.9	2.9	2.9	2.9	2.9
• OR >5000	2.7	3.2	3.4	3.4	3.4	3.4	3.4	3.4
• OR >3500	4.6	6.6	7.5	7.5	7.5	7.5	7.8	7.8
• OR >2000	11.9	19.5	22.9	23.4	23.4	23.6	23.8	23.8
• OR >1000	16.3	29.7	35.0	36.3	37.5	38.2	38.4	38.4
• OR >600	16.8	31.1	37.2	39.2	40.4	41.6	41.8	41.8
• OR >300	16.8	31.9	38.2	40.1	41.4	42.6	42.8	42.8
• OR >150	16.8	32.1	38.4	40.4	41.6	42.8	43.1	43.1
• OR > 0	16.8	33.3	41.8	45.5	48.7	59.6	72.5	75.7
TOTAL	69	137	172	187	200	245	298	311

TOTAL NUMBER OF OBS: 411

PCT FREQ NH <5/8: 24.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.8	3.2	3.6	2.9	3.2	2.0	4.1	5.4	32.4	31.3	441

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.2	.2	.1	1.6	.3	.1	.0	.0	.0	2.7	
<1/2	NO PCP	2.4	2.5	2.3	3.6	5.9	3.7	.6	.8	.0	2.1	23.9	
	TOT %	2.7	2.7	2.5	3.7	7.4	4.0	.7	.8	.0	2.1	26.7	
	PCP	.1	*	.3	.2	.0	.0	.0	.0	.0	.0	.7	
1/2<1	NO PCP	.3	.7	.4	.8	.6	.1	.0	.1	.0	.1	3.1	
	TOT %	.4	.8	.8	1.1	.6	.1	.0	.1	.0	.1	3.8	
	PCP	.0	.1	.1	.1	.1	.0	.2	.0	.0	.1	.7	
1<2	NO PCP	.0	.5	.4	1.0	.7	.2	.1	.2	.0	.2	3.2	
	TOT %	.0	.6	.4	1.1	.8	.2	.3	.2	.0	.4	4.0	
	PCP	.2	.6	.3	.3	.4	.0	.0	.2	.0	.1	2.1	
2<5	NO PCP	.7	.9	.4	.9	1.6	.6	.6	.6	.0	.4	6.6	
	TOT %	.9	1.5	.7	1.2	2.0	.6	.6	.8	.0	.5	8.7	
	PCP	.1	.1	.2	.1	.8	.2	.1	.2	.0	.1	1.9	
5<10	NO PCP	1.8	1.4	2.6	3.4	4.4	1.5	1.2	1.8	.0	.7	18.7	
	TOT %	1.9	1.5	2.9	3.4	5.1	1.6	1.3	2.0	.0	.9	20.6	
	PCP	.0	*	.2	.1	.0	.0	.0	.0	.0	.0	.4	
10+	NO PCP	2.2	2.2	2.5	4.4	9.5	7.9	3.5	1.9	.0	1.9	35.9	
	TOT %	2.2	2.2	2.7	4.5	9.5	7.9	3.5	1.9	.0	1.9	36.2	
	TOT OBS												806
	TOT PCT	8.0	9.2	10.0	15.1	25.5	14.3	6.5	5.7	.0	5.8	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.6	1.0	.3	.7	.7	.4	.1	.0	.0	1.8	5.6	
<1/2	4-10	1.3	.8	1.2	3.7	4.2	2.2	.2	.4	.0		14.2	
	11-21	.6	.2	1.0	1.7	2.7	1.7	.3	.4	.0		8.7	
	22+	.0	.1	.0	.0	.4	*	.0	.0	.0		.5	
	TOT %	2.6	2.1	2.6	6.1	8.0	4.3	.6	.8	.0	1.8	29.0	
	0-3	.0	.4	.0	.1	.1	.0	.0	.0	.0	.1	.8	
1/2<1	4-10	.3	.4	.3	.7	.3	.1	.0	.1	.0		2.2	
	11-21	.1	.1	.0	.1	.3	.1	.0	.0	.0		.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.3	.9	.3	1.0	.8	.2	.0	.1	.0	.1	3.6	
	0-3	.1	.1	.0	.1	.6	*	.0	.0	.0	.5	1.4	
1<2	4-10	.0	.3	.2	.8	1.1	.0	.3	.0	.0		2.7	
	11-21	.0	.0	.1	.2	.4	.0	.1	.0	.0		.9	
	22+	.0	.1	.1	.0	.1	.2	.0	.0	.0		.4	
	TOT %	.1	.4	.4	1.1	2.2	.2	.4	.0	.0	.5	5.4	
	0-3	.2	.2	.0	.3	1.1	*	.1	.1	.0	.3	2.2	
2<5	4-10	.3	.6	.5	.9	1.3	.5	.4	.3	.0		4.9	
	11-21	.3	.8	.3	.3	.7	.1	.1	.5	.0		3.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0		.1	
	TOT %	.7	1.6	.8	1.5	3.0	.7	.7	.9	.0	.3	10.2	
	0-3	.2	.0	.2	.4	1.1	.1	.1	.6	.0	.8	3.6	
5<10	4-10	1.1	.6	.9	1.6	1.4	.7	.4	.4	.0		7.2	
	11-21	.6	.7	.5	1.2	1.9	.6	.7	.1	.0		6.3	
	22+	.0	.3	.0	.0	.4	.0	.0	.1	.0		.8	
	TOT %	1.9	1.6	1.6	3.2	4.9	1.4	1.2	1.2	.0	.8	17.8	
	0-3	.2	.4	.5	.7	1.7	1.4	.5	.4	.0	1.4	7.3	
10+	4-10	1.0	1.3	1.0	2.2	5.9	4.5	1.9	.8	.0		18.6	
	11-21	.7	.4	.6	1.3	1.8	2.1	.7	.2	.0		7.8	
	22+	.0	.0	.1	.0	.0	.0	.1	.1	.0		.4	
	TOT %	1.9	2.2	2.2	4.2	9.3	8.0	3.2	1.6	.0	1.4	34.1	
	TOT OBS												783
	TOT PCT	7.5	8.9	7.8	17.2	28.2	14.9	6.1	4.6	.0	4.9	100.0	

JUNE

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1933-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.6E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	30.0	.0	1.5	3.1	16.9	16.2	3.1	.0	3.1	1.5	75.4	24.6	130
06&09	36.1	.0	.9	1.9	13.0	15.7	6.5	.0	.9	1.9	76.9	23.1	108
12&15	31.4	.0	.8	4.2	12.7	16.9	4.2	.8	.8	.8	72.9	27.1	118
18&21	31.9	1.4	.0	4.2	13.9	13.9	2.8	1.4	2.8	.0	72.2	27.8	72
TOT	138	1	4	14	61	68	18	2	8	5	319	109	428
PCT	32.2	.2	.9	3.3	14.3	15.9	4.2	.5	1.9	1.2	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 OBS
00&03	25.3	4.5	4.8	10.4	18.6	36.4	269
06&09	25.2	2.1	6.4	10.3	20.9	35.0	234
12&15	32.3	3.6	6.3	11.2	16.1	30.5	223
18&21	29.2	6.2	4.5	10.1	21.3	28.7	178
TOT	251	36	50	95	173	299	904
PCT	27.8	4.0	5.5	10.5	19.1	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 <3	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	29.6	34.4	44.8	34.4	20.8	125
06&09	36.2	39.0	52.4	27.6	20.0	105
12&15	31.9	38.9	52.2	27.4	20.4	113
18&21	33.8	38.2	51.5	27.9	20.6	68
TOT	134	154	205	122	84	411
PCT	32.6	37.5	49.9	29.7	20.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.0	.0	1.7	1	1.7
60/64	.0	.0	.0	.0	.0	.0	.0	1.7	1	1.7
55/59	.0	.0	.0	.0	.0	.0	1.7	.0	1	1.7
50/54	.0	.0	.0	.0	.0	1.7	3.4	3.4	5	8.5
45/49	.0	.0	.0	.0	1.7	3.4	.0	23.7	17	28.8
40/44	.0	.0	.0	.0	.0	1.7	.0	47.5	29	49.2
35/39	.0	.0	.0	.0	.0	.0	.0	8.5	5	8.5
TOTAL	0	0	0	0	1	4	3	51	59	100.0
PCT	.0	.0	.0	.0	1.7	6.8	5.1	86.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	1.3	.4	.0	.0	.0	.0
	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
	.0	.0	1.3	.4	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.4	1.3	.0	1.7	.0	.0	5.1
	6.4	.4	6.4	3.4	1.7	6.8	.0	.4	.0	3.4
	3.4	8.5	14.8	7.6	3.0	1.7	3.0	7.2	.0	.0
	1.7	2.1	1.3	.0	1.7	.0	.0	1.7	.0	.0
	11.4	11.0	25.4	11.9	8.9	8.9	4.7	9.3	.0	8.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	72	68	60	48	37	34	34	47.9	274
06&09	68	62	59	48	37	34	32	47.3	238
12&15	66	63	56	44	34	27	27	44.1	227
18&21	64	62	54	44	34	30	27	43.7	179
TOT	72	64	58	46	36	32	27	46.0	918

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	10.5	10.5	78.9	93	19
06&09	.0	.0	5.6	11.1	.0	83.3	93	18
12&15	.0	.0	.0	.0	6.7	93.3	96	15
18&21	.0	12.5	.0	.0	.0	87.5	90	8
TOT	0	1	1	4	3	51	93	60

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1939-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.6E

TABLE 17

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

AIR-SEA	29	33	37	41	45	49	53	57	61	65	69	TOT	W	WO
TMP DIF	32	36	40	44	48	52	56	60	64	68	72		FOG	FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3	5	.3	.4
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
17/19	.0	.0	.0	.0	.1	.0	.1	.4	.0	.0	.0	5	.4	.3
14/16	.0	.0	.0	.0	.3	.3	1.0	.3	.4	.1	.0	18	.3	2.0
11/13	.0	.0	.0	.0	.6	.6	.9	.5	.4	.3	.0	26	.6	2.6
9/10	.0	.0	.1	.3	1.3	1.3	.9	.3	.3	.1	.0	35	1.0	3.4
7/8	.0	.0	.1	.5	1.5	3.3	.9	.4	.5	.0	.0	57	2.8	4.4
6	.0	.0	.0	.3	.1	.8	.6	.1	.1	.0	.0	16	.5	1.5
5	.0	.0	.1	1.5	4.0	1.8	.3	.3	.1	.0	.0	64	2.5	5.5
4	.0	.3	.6	2.3	4.9	1.9	1.3	.3	.0	.1	.0	92	3.8	7.8
3	.0	.0	.3	1.3	.6	.5	.5	.1	.0	.0	.0	26	.9	2.4
2	.0	.6	1.6	1.8	9.7	1.8	1.0	.5	.1	.0	.0	102	5.0	7.8
1	.0	.3	.6	1.5	1.1	.8	.5	.0	.0	.0	.0	38	2.0	2.8
0	.1	2.0	2.4	3.6	5.2	1.3	1.0	.1	.0	.0	.0	125	7.2	8.5
-1	.0	.4	1.1	1.5	.1	.3	.0	.0	.0	.0	.0	27	1.6	1.8
-2	.0	.9	1.8	2.4	1.6	.8	.1	.0	.0	.0	.0	60	3.4	4.1
-3	.0	.3	.6	.5	.8	.1	.0	.0	.0	.0	.0	18	.8	1.5
-4	.1	.5	1.1	.8	2.0	.1	.0	.0	.0	.0	.0	37	2.4	2.3
-5	.1	.1	.4	.4	1.4	.3	.0	.0	.0	.0	.0	21	.9	1.8
-6	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	3	.3	.1
-7/-8	.3	.1	.0	.3	.4	.1	.0	.0	.0	.0	.0	9	.3	.9
-9/-10	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	4	.3	.3
-11/-13	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	3	.0	.4
-14/-16	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	3	.0	.4
-17/-19	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7	44	90	151	253	128	72	25	17	7	2	796	294	502
PCT	.9	5.5	11.3	19.0	31.8	16.1	9.0	3.1	2.1	.9	.3	100.0	36.9	63.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

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

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.9	1.5	.0	.0	.0	2.5
3-4	.0	.3	1.2	.0	.0	.0	1.5
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.3	.0	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.6	.0	.0	.0	6.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.7	.0	.0	.0	.0	1.9
1-2	.0	2.5	1.1	.0	.0	.0	3.6
3-4	.0	1.0	.0	.0	.0	.0	1.0
5-6	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.3	.3	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	5.6	2.0	1.0	.0	.0	8.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	2.2	.0	.0	.0	.0	3.0
1-2	.0	2.0	2.7	.0	.0	.0	4.7
3-4	.0	.7	.9	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.3	.3	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.9	4.5	.3	.0	.0	10.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.7	.0	.0	.0	3.2
1-2	.0	3.8	3.4	.0	.0	.0	7.2
3-4	.0	1.0	2.2	.0	.0	.0	3.3
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.8	8.9	.0	.0	.0	16.2

PERIOD: (OVER-ALL) 1963-1974

JUNE

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.6E

TABLE 18 (CONT)

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

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.2	.3	.0	.0	.0	2.8	.3	1.5	.0	.0	.0	.0	1.8
1-2	.0	3.8	6.2	.0	.0	.0	10.0	.0	2.5	2.0	.0	.0	.0	4.5
3-4	.0	1.7	4.0	.3	.0	.0	6.0	.0	.7	2.3	.0	.0	.0	3.0
5-6	.0	.0	3.1	.0	.0	.0	3.1	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.5	.3	.6	.0	.0	1.4	.0	.2	.8	.4	.0	.0	1.4
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	8.2	13.8	1.6	.0	.0	24.0	.3	4.8	6.6	.4	.0	.0	12.2

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	.9	1.3	.0	.0	.0	2.1	.0	1.2	.6	.0	.0	.0	1.8	
3-4	.0	.0	.9	.0	.0	.0	.9	.0	1.0	1.2	.3	.0	.0	2.6	
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.1	.3	.0	.0	.4	
7	.0	.3	.3	.0	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.3	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.8	4.2	.3	.0	.0	6.4	.0	3.1	2.1	.7	.0	.0	5.8	90.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.6	12.3	1.0	.0	.0	.0	25.0	
1-2	.0	17.5	18.8	.0	.0	.0	36.3	
3-4	.0	6.5	12.7	.7	.0	.0	19.9	
5-6	.0	.3	7.2	.3	.0	.0	7.9	
7	.0	1.0	3.8	1.7	.0	.0	6.5	
8-9	.0	.0	.7	1.0	.0	.0	1.7	
10-11	.0	.0	1.0	.7	.0	.0	1.7	
12	.0	.3	.3	.0	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.3	.0	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								292
TOT PCT	11.6	38.4	45.5	4.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1951-1974

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.2	17.8	13.1	5.9	2.5	.0	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	3
6-7	.0	3.5	5.7	5.0	3.7	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	5
8-9	.0	.2	.7	1.2	2.2	.7	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	7
10-11	.0	3.0	1.0	.2	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
12-13	.0	.0	3.5	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
>13	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	6
INDET	6.4	4.2	5.2	3.2	.7	1.0	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	3
TOTAL	35	116	118	64	41	12	10	4	1	3	0	0	0	0	0	0	0	0	0	404	4
PCT	8.7	28.7	29.2	15.8	10.1	3.0	2.5	1.0	.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	5.3	.0	3.5	.0	.0	.0	.0	8.8	1.8	.0	37.4	1.8	.0	.0		50.2
NE	7.5	.0	3.0	.0	.0	.0	.0	10.5	2.0	.0	36.7	1.5	2.0	1.0		46.4
E	11.2	.0	4.9	.0	.0	.0	.0	16.2	.8	.0	30.1	4.7	1.1	.0		47.1
SE	5.3	.0	3.5	.0	.0	.0	.0	8.8	.2	.0	48.4	.2	.8	.0		41.6
S	3.5	.0	2.8	.0	.0	.0	.0	6.3	.8	.0	40.7	.4	.8	.0		51.1
SW	1.2	.0	2.0	.0	.0	.0	.0	3.2	.4	.0	31.4	1.0	1.2	.0		62.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24.8	1.3	1.7	.0		72.2
NW	1.5	.0	4.5	.0	.0	.0	.0	6.1	.0	.0	32.6	.4	1.5	.0		59.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	47.8	4.3	2.2	.0		43.5
TOT PCT	4.2	.0	3.0	.0	.0	.0	.0	7.2	.7	.0	37.4	1.4	1.1	.1		52.1
TOT OBS:	872															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	3.6	.4	2.4	.0	.0	.0	.0	6.4	.8	.0	38.6	1.6	1.6	.0		51.0
06&09	3.3	.0	4.7	.0	.0	.0	.0	7.9	.9	.0	35.0	1.9	1.9	.0		52.3
12&15	5.4	.0	2.9	.0	.0	.0	.0	8.3	1.2	.0	33.1	1.7	.8	.0		55.0
18&21	4.7	.0	1.6	.0	.0	.0	.0	6.3	.9	.0	43.2	.0	.0	.5		49.5
TOT PCT	4.2	.1	2.9	.0	.0	.0	.0	7.2	.9	.0	37.2	1.3	1.1	.1		52.1
TOT OBS:	897															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	4.5	1.4	.3	.0	.0		7.4	8.5	11.6	5.4	5.3	7.1	6.5	7.5	5.8	8.8
NE	2.0	4.8	4.0	.2	.0	.0		11.1	9.3	13.8	10.1	14.7	10.6	12.6	8.4	10.2	7.7
E	1.7	4.9	3.0	.6	.0	.1		10.3	9.9	12.0	7.4	7.5	6.0	11.2	13.7	16.5	8.6
SE	2.0	6.1	4.6	.6	.1	.0		13.5	10.0	11.4	12.1	17.5	12.4	15.9	14.4	17.6	7.5
S	3.5	14.8	5.8	.5	.0	.0		24.5	8.2	16.6	31.2	23.0	32.6	25.8	23.2	20.9	24.8
SW	2.4	9.0	3.6	.0	.0	.0		15.1	8.1	11.6	18.6	14.0	15.6	9.8	19.5	11.0	21.3
W	1.2	4.2	1.2	.0	.0	.0		6.6	7.2	6.1	7.4	6.4	7.3	5.7	7.1	5.2	7.5
NW	.9	4.0	1.6	.0	.0	.0		6.5	7.9	7.0	7.7	5.5	4.8	7.7	5.3	6.3	7.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.0							5.0	.0	10.0	.0	6.1	3.7	4.9	.9	6.6	6.1
TOT OBS	181	473	229	20	1	1	905		8.2	140	101	114	109	123	113	91	114
TOT PCT	20.0	52.3	25.3	2.2	.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.7	2.8	.9	.0	.0		7.4	8.5	9.0	6.2	7.0	7.4
NE	4.3	5.5	1.2	.1	.0		11.1	9.3	12.2	12.7	10.6	8.8
E	4.1	4.6	1.4	.1	.1		10.3	9.9	10.1	6.7	12.4	12.1
SE	5.9	5.3	1.9	.2	.1		13.5	10.0	11.7	15.0	15.1	12.0
S	11.9	10.7	1.9	.1	.0		24.5	8.2	22.7	27.7	24.6	23.0
SW	6.9	7.3	.9	.0	.0		15.1	8.1	14.5	14.8	14.4	16.7
W	3.7	2.5	.3	.0	.0		6.6	7.2	6.6	6.8	6.4	6.5
NW	3.0	3.3	.2	.0	.0		6.5	7.9	7.3	5.2	6.6	7.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.0						5.0	.0	5.8	4.9	3.0	6.3
TOT OBS	439	380	79	5	2	905		8.2	241	223	236	205
TOT PCT	48.5	42.0	8.7	.6	.2		100.0		100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.8	12.9	48.1	31.5	1.7	.0	.0	8.5	100.0	241
06&09	4.9	14.3	51.1	27.4	2.2	.0	.0	8.4	100.0	229
12&15	3.0	14.8	57.6	22.5	1.3	.4	.4	8.2	100.0	236
18&21	6.3	18.5	52.2	19.0	3.9	.0	.0	7.8	100.0	205
TOT	45	136	473	229	20	1	1	8.2		905
PCT	5.0	15.0	52.3	25.3	2.2	.1	.1		100.0	

TABLE 5

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

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.2	.5	1.2	5.3		7.2
NE	.3	.7	1.2	11.6		7.4
E	.4	.0	1.2	8.7		7.6
SE	.8	.8	.8	16.1		7.4
S	2.6	.7	2.3	12.3		6.5
SW	1.2	.5	1.8	7.2		6.7
W	.8	.2	.2	4.2		6.6
NW	.7	.5	1.3	6.9		7.0
VAR	.0	.0	.0	.0		.0
CALM	.7	.2	.7	4.9		6.9
TOT OBS	32	17	44	316	409	7.1
TOT PCT	7.8	4.2	10.8	77.3	100.0	

TABLE 6

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

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.0	.0	.0	.0	2.2	1.8	.4	.0	.0	.0	.9	
NE	4.6	.0	.5	1.2	3.3	1.8	.7	.5	.0	.0	1.3	
E	2.8	.0	.2	.0	1.7	4.2	1.1	.0	.0	.0	.4	
SE	7.7	.0	.1	.9	2.8	3.1	.9	.5	.0	.2	2.3	
S	7.0	.0	.4	.8	2.3	2.7	.2	.0	.2	.5	3.8	
SW	3.7	.0	.2	.1	2.7	.9	.7	.2	.0	.0	2.2	
W	1.3	.0	.0	.2	1.3	1.0	.2	.0	.0	.2	1.0	
NW	3.2	.0	.0	.2	1.3	2.0	.6	.2	.0	.3	1.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4	.2	.0	.2	.7	.5	.2	.0	.0	.2	1.0	
TOT OBS	146	1	6	15	75	73	21	6	1	6	59	409
TOT PCT	35.7	.2	1.5	3.7	18.3	17.8	5.1	1.5	.2	1.5	14.4	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
≥ OR >5000	1.7	2.6	2.9	2.9	2.9	3.1	3.1	3.1
≥ OR >3500	2.6	5.8	7.0	7.5	7.5	7.9	7.9	7.9
≥ OR >2000	9.1	20.7	25.0	26.0	26.2	26.7	26.7	26.7
≥ OR >1000	15.6	32.5	39.7	41.6	42.3	42.8	44.2	44.5
≥ OR >600	16.3	34.1	42.1	44.2	45.0	45.7	47.6	47.8
≥ OR >300	16.6	34.6	43.3	45.4	46.2	47.1	49.0	49.3
≥ OR >150	16.6	34.9	43.5	45.7	46.4	47.4	49.3	49.5
≥ OR > 0	17.1	36.8	48.3	52.2	54.8	65.9	83.2	85.8
TOTAL	71	153	201	217	228	274	346	357

TOTAL NUMBER OF OBS: 416 PCT FREQ NH <5/8: 14.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.9	2.0	3.1	2.0	1.6	1.9	3.6	4.5	42.5	34.4	445

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.3	.2	.2	.7	.3	.0	.1	.0	.0	1.8	
	NO PCP	1.6	2.8	2.4	4.6	6.7	3.6	1.2	1.6	.0	2.3	26.8	
	TOT %	1.7	3.1	2.6	4.8	7.4	3.9	1.2	1.7	.0	2.3	28.7	
1/2<1	PCP	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.3	.5	.5	.5	.5	.1	.2	.1	.0	.1	2.9	
	TOT %	.3	.5	.6	.7	.6	.1	.2	.1	.0	.1	3.2	
1<2	PCP	.1	.2	.3	.1	.1	.0	.0	.2	.0	.1	1.2	
	NO PCP	.4	.5	.6	.7	.7	.8	.2	.2	.0	.1	4.1	
	TOT %	.5	.7	.9	.7	.8	.8	.2	.4	.0	.2	5.3	
2<5	PCP	.2	.7	.9	.5	.2	.1	.0	.0	.0	.0	2.6	
	NO PCP	.3	1.4	.7	1.4	1.6	.5	.2	.9	.0	.2	7.4	
	TOT %	.5	2.1	1.6	1.9	1.8	.6	.2	.9	.0	.2	10.0	
5<10	PCP	.1	.0	.2	.3	.4	.1	.0	.1	.0	.0	1.2	
	NO PCP	1.4	2.3	2.3	3.2	4.0	3.0	1.5	2.1	.0	.9	20.7	
	TOT %	1.5	2.3	2.5	3.4	4.4	3.1	1.5	2.2	.0	.9	21.9	
10+	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	2.0	2.8	2.3	2.8	7.7	6.0	3.4	2.4	.0	1.5	30.8	
	TOT %	2.0	2.8	2.3	2.9	7.7	6.0	3.4	2.4	.0	1.5	30.9	
	TOT OBS												868
	TOT PCT	6.9	11.5	10.5	14.5	22.7	14.5	6.7	7.6	.0	5.3	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.3	.3	.3	.8	1.0	1.0	.2	.0	.0	2.3	6.1	
	4-10	1.7	1.5	1.8	2.7	4.7	2.2	1.2	.9	.0		16.6	
	11-21	.5	1.2	1.1	1.2	2.3	1.2	.2	.7	.0		8.4	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0		.2	
	TOT %	2.4	3.0	3.2	4.8	8.0	4.4	1.6	1.5	.0	2.3	31.3	
1/2<1	0-3	.1	.1	.3	.2	.1	.0	.0	.0	.0	.1	.9	
	4-10	.2	.3	.1	.4	.3	.1	.1	.1	.0		1.5	
	11-21	.0	.2	.2	*	.3	.1	.2	.0	.0		.9	
	22+	.0	*	.1	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.3	.6	.6	.6	.7	.2	.3	.1	.0	.1	3.4	
1<2	0-3	.1	.2	.1	.1	.4	.2	.0	.2	.0	.2	1.6	
	4-10	.2	.1	.3	.4	.7	.4	.1	.0	.0		2.3	
	11-21	.2	.3	.3	.3	.3	.2	.1	.4	.0		2.0	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	.5	.7	.7	.8	1.4	.8	.2	.6	.0	.2	6.0	
2<5	0-3	.2	.6	.3	.2	.1	.3	.1	.1	.0	.5	2.3	
	4-10	.3	1.0	1.0	.6	1.7	.7	.1	.3	.0		5.6	
	11-21	.2	.8	.4	1.1	.4	*	.0	.2	.0		3.1	
	22+	.1	.1	.3	*	.1	.0	.0	.0	.0		.7	
	TOT %	.8	2.5	2.0	1.7	2.4	1.1	.3	.6	.0	.5	11.7	
5<10	0-3	.2	.2	.2	.4	.7	.3	.3	.2	.0	.9	3.4	
	4-10	1.0	.5	1.1	1.0	2.8	2.0	.7	1.3	.0		10.6	
	11-21	.1	1.3	.5	1.2	.5	.7	.3	.4	.0		5.1	
	22+	.1	.0	.2	.4	.2	.0	.0	.0	.0		.9	
	TOT %	1.5	2.0	2.1	3.0	4.2	3.1	1.3	1.9	.0	.9	20.0	
10+	0-3	.4	.6	.6	.4	.9	.7	.6	.5	.0	1.0	5.7	
	4-10	1.1	1.2	.7	1.1	4.5	3.6	2.1	1.5	.0		15.8	
	11-21	.2	.5	.6	.9	2.0	1.3	.4	.1	.0		6.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	1.7	2.3	2.0	2.4	7.3	5.7	3.1	2.0	.0	1.0	27.6	
	TOT OBS												871
	TOT PCT	7.3	11.1	10.6	13.4	24.0	15.2	6.7	6.7	.0	5.1	100.0	

PERIOD: (PRIMARY) 1936-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 10

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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	38.9	.0	1.4	2.1	18.8	18.8	3.5	.0	.0	2.1	85.4	14.6	144
06&09	29.2	.9	1.9	3.8	24.5	16.0	2.8	1.9	.9	2.8	84.9	15.1	106
12&15	33.6	.0	1.8	6.2	14.2	19.5	8.8	1.8	.0	.0	85.8	14.2	113
18&21	43.1	.0	.0	1.5	13.8	18.5	6.2	3.1	.0	1.5	87.7	12.3	65
TOT	153	1	6	15	76	78	22	6	1	7	367	61	428
PCT	35.7	.2	1.4	3.5	18.2	18.2	5.1	1.4	.2	1.6	85.7	14.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	32.9	4.3	5.8	8.7	20.6	27.8	277
06&09	26.6	4.1	5.4	12.9	18.3	32.8	241
12&15	32.3	1.5	5.6	14.5	21.2	24.9	269
18&21	34.3	2.3	7.5	11.7	18.3	25.8	213
TOT	315	31	60	119	197	278	1000
PCT	31.5	3.1	6.0	11.9	19.7	27.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	39.4	43.0	53.5	32.4	14.1	142
06&09	31.4	38.2	48.0	39.2	12.7	102
12&15	33.9	41.3	61.5	26.6	11.9	109
18&21	42.9	46.0	57.1	31.7	11.1	63
TOT	152	174	228	135	53	416
PCT	36.5	41.8	54.8	32.5	12.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	4.5	.0	.0	.0	.0	.0	.0	2	4.5
55/59	.0	.0	2.3	2.3	2.3	.0	.0	9.1	7	15.9
50/54	.0	.0	.0	2.3	.0	.0	.0	22.7	11	25.0
45/49	.0	.0	.0	.0	.0	.0	15.9	31.8	21	47.7
40/44	.0	.0	.0	.0	.0	.0	.0	6.8	3	6.8
TOTAL	0	2	1	2	1	0	7	31	44	100.0
PCT	.0	4.5	2.3	4.5	2.3	.0	15.9	70.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	.0	4.0	.6	.0	.0	.0	.0
	.0	.0	2.3	.0	5.7	5.7	2.3	.0	.0	.0
	.0	.0	2.3	7.4	1.7	6.8	4.5	2.3	.0	.0
	6.3	4.5	4.5	6.8	4.5	7.4	3.4	10.2	.0	.0
	.0	.0	1.7	2.8	.0	2.3	.0	.0	.0	.0
	6.3	4.5	10.8	17.0	15.9	22.7	10.2	12.5	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	70	66	52	43	39	37	52.9	275
06&09	81	70	68	54	43	34	34	54.0	249
12&15	68	66	63	52	41	34	32	51.4	274
18&21	71	67	61	52	41	36	34	51.6	220
TOT	81	69	66	52	43	37	32	52.5	1018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	18.2	4.5	.0	4.5	72.7	84	22
06&09	.0	16.7	.0	.0	33.3	50.0	87	6
12&15	.0	.0	.0	.0	25.0	75.0	94	8
18&21	.0	.0	.0	.0	22.2	77.8	95	9
TOT	0	5	1	0	7	32	88	45

PERIOD: (PRIMARY) 1934-1974
(OVER-ALL) 1885-1974

TABLE 17

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	3	.1	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.2
17/19	.0	.0	.0	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0	4	.2	.2
14/16	.0	.0	.0	.0	.2	.2	.1	.7	.4	.5	.0	.0	.0	18	.2	1.9
11/13	.0	.0	.0	.1	.0	.4	.7	.6	.8	.4	.2	.0	.0	27	.7	2.5
9/10	.0	.0	.0	.0	.5	.9	.9	.5	.7	.1	.0	.0	.0	31	1.3	2.4
7/8	.0	.0	.4	.8	.9	1.5	.5	.7	.5	.1	.0	.0	.0	46	2.0	3.4
6	.0	.0	.0	.2	.2	.8	.2	.1	.0	.2	.0	.0	.0	16	.8	1.1
5	.0	.1	.1	.8	1.4	2.0	1.2	.9	.2	.1	.0	.0	.0	59	1.9	5.1
4	.0	.1	.4	1.9	2.6	1.8	1.5	1.3	.4	.0	.0	.0	.0	84	3.8	6.2
3	.0	.0	.2	1.2	1.7	1.1	.4	.5	.0	.0	.0	.0	.0	42	2.0	3.0
2	.2	.0	.5	4.1	2.7	4.1	2.8	1.4	.0	.0	.0	.0	.0	135	6.9	9.1
1	.0	.4	.1	.9	2.0	.7	.2	.2	.0	.0	.0	.0	.0	39	2.2	2.4
0	.0	.1	.5	4.4	3.7	2.2	1.4	.6	.1	.0	.0	.0	.0	110	5.8	7.2
-1	.0	.0	.2	1.7	1.3	.5	.2	.1	.0	.0	.0	.0	.0	34	1.4	2.6
-2	.0	.2	.6	3.1	2.5	2.4	.8	.6	.0	.0	.0	.0	.0	86	3.4	6.7
-3	.0	.1	.1	.7	.7	.2	.1	.0	.0	.0	.0	.0	.0	17	.7	1.3
-4	.0	.2	.5	2.1	.8	.5	1.1	.1	.0	.0	.0	.0	.0	45	2.0	3.3
-5	.0	.0	.6	1.1	.5	.2	.2	.1	.0	.0	.0	.0	.0	23	.5	2.2
-6	.0	.1	.1	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	8	.5	.5
-7/-8	.0	.1	.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	8	.6	.4
-9/-10	.0	.1	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.1	.5
-11/-13	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	3	14	39	208	187	168	106	74	30	13	2	0	1	845	315	530
PCT	.4	1.7	4.6	24.6	22.1	19.9	12.5	8.8	3.6	1.5	.2	.0	.1	100.0	37.3	62.7

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.4	.0	.0	.0	.0	2.4
1-2	.0	2.5	.3	.0	.0	.0	2.7
3-4	.0	.6	.8	.0	.0	.0	1.4
5-6	.0	.0	.7	.3	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.7	.0	.0	1.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	2.5	1.0	.0	.0	8.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.0	.0	.0	.0	2.3
1-2	.1	1.4	2.5	.0	.0	.0	4.0
3-4	.0	2.0	3.2	.0	.0	.0	5.3
5-6	.0	.0	1.0	.1	.0	.0	1.1
7	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	5.1	7.7	.4	.0	.0	14.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.6	.3	.0	.0	.0	2.3
1-2	.3	1.3	.9	.0	.0	.0	2.5
3-4	.0	.0	2.4	.0	.0	.0	2.4
5-6	.0	.0	1.0	.5	.0	.0	1.5
7	.0	.3	.0	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.2	4.9	1.1	.0	.0	9.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.3	.0	.0	.0	.0	2.6
1-2	.0	2.5	1.1	.0	.0	.0	3.6
3-4	.0	.0	3.6	.3	.0	.0	4.0
5-6	.0	.0	1.7	.5	.0	.0	2.2
7	.0	.0	1.1	.1	.0	.0	1.2
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.1	.3	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.7	8.0	1.3	.3	.0	15.0

PERIOD: (OVER-ALL) 1963-1974

JULY

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	5.1	1.0	.0	.0	.0	7.1	.0	1.9	.0	.0	.0	.0	1.9
1-2	1.0	3.1	3.2	.0	.0	.0	7.3	.0	1.4	1.5	.0	.0	.0	2.9
3-4	.0	1.9	2.8	.3	.0	.0	5.1	.0	1.1	2.2	.0	.0	.0	3.3
5-6	.0	.0	1.0	.6	.0	.0	1.6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.6	.3	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	10.4	8.6	1.3	.0	.0	22.4	.0	4.4	4.4	.0	.0	.0	8.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	1.4	.0	.0	.0	.0	1.8	.0	3.0	.0	.0	.0	.0	3.0	
1-2	.0	.3	1.7	.0	.0	.0	1.9	.0	1.9	1.7	.0	.0	.0	3.6	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.5	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.3	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.7	2.0	.0	.0	.0	4.1	.0	6.0	2.5	.0	.0	.0	8.6	91.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	19.3	1.4	.0	.0	.0	31.9	
1-2	1.4	14.2	12.9	.0	.0	.0	28.5	
3-4	.0	6.8	15.6	.7	.0	.0	23.1	
5-6	.0	.0	6.1	2.0	.0	.0	8.1	
7	.0	.3	3.1	.7	.0	.0	4.1	
8-9	.0	.0	.7	.7	.0	.0	1.4	
10-11	.0	.0	1.0	.7	.0	.0	1.7	
12	.0	.3	.0	.0	.0	.0	.3	
13-16	.3	.0	.0	.3	.3	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.9	41.0	40.7	5.1	.3	.0	100.0	295

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	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	1.4	13.5	12.1	4.3	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	3
6-7	.0	3.4	6.8	4.6	1.9	.7	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	4
8-9	.0	.0	1.9	.5	.2	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
10-11	.0	1.9	.2	1.2	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	1.4	.5	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
>13	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	13.8	8.9	8.5	1.7	1.7	1.0	1.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	157	3
TOTAL	63	115	128	53	24	12	10	4	5	0	0	0	0	0	0	0	0	0	0	414	3
PCT	15.2	27.8	30.9	12.8	5.8	2.9	2.4	1.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.0N 145.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	3.2	.0	6.3	.0	.0	.0	.0	8.7	.9	.0	20.8	.9	.0	.0		68.8
NE	16.0	.3	7.3	.0	.0	.0	.0	23.6	.0	.0	27.5	.3	.0	.0		48.6
E	12.2	1.0	2.0	.0	.0	.0	.0	13.9	1.0	.0	31.1	1.0	.0	1.4		51.7
SE	9.3	.0	3.0	.0	.0	.0	.0	12.4	.3	.0	34.1	2.2	1.1	1.1		48.9
S	3.5	.9	3.3	.0	.0	.0	.0	7.7	.0	.0	28.3	1.7	.5	.5		61.4
SW	3.1	.0	.7	.0	.0	.0	.0	3.8	.7	.0	28.3	.2	.7	.0		66.4
W	2.7	.0	1.4	.0	.0	.0	.0	2.7	1.0	.0	25.0	.0	.0	.0		71.2
NW	1.9	.0	3.4	.0	.0	.0	.0	5.2	1.9	.0	19.9	.0	.0	.0		73.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	1.6	1.6	3.1	.0	.0	.0	.0	6.3	1.6	.0	37.5	.0	.0	.0		54.7
TOT PCT	5.5	.4	3.3	.0	.0	.0	.0	8.9	.6	.0	27.8	.9	.3	.3		61.1
TOT OBS:	934															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.7	.4	2.7	.0	.0	.0	.0	7.4	.4	.0	26.7	1.2	1.2	.8		62.4
06&09	6.8	.4	2.8	.0	.0	.0	.0	10.0	1.6	.0	24.3	1.2	.0	.4		62.5
12&15	4.7	.4	3.6	.0	.0	.0	.0	8.3	.0	.0	25.3	.8	.0	.0		65.6
18&21	4.9	.5	4.4	.0	.0	.0	.0	9.2	.5	.0	33.5	.0	.0	.0		56.8
TOT PCT	5.3	.4	3.3	.0	.0	.0	.0	8.7	.6	.0	27.2	.8	.3	.3		62.1
TOT OBS:	968															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)								HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	2.1	5.5	4.0	.6	.0	.0		12.2	9.9	8.8	13.9	12.8	14.0	10.2	14.2	17.4	9.5
NE	1.5	3.9	2.8	.7	.1	.0		9.0	10.5	6.7	10.9	7.8	11.5	7.7	10.5	6.0	12.7
E	1.7	3.4	1.4	.5	.1	.0		7.1	9.0	7.5	10.9	6.3	3.0	6.6	7.4	7.6	7.3
SE	1.9	4.1	2.9	.3	.0	.0		9.2	8.8	10.0	9.5	9.8	10.8	9.9	6.8	5.7	9.5
S	2.3	11.7	8.8	.5	.0	.0		23.3	10.1	22.1	23.2	28.7	21.8	22.0	23.4	20.3	23.9
SW	2.5	9.3	5.2	.4	.0	.0		17.4	8.9	19.7	19.1	14.7	17.5	12.3	21.3	15.4	21.1
W	1.3	5.0	2.3	.1	.0	.0		8.7	8.3	11.8	5.5	8.6	6.5	9.4	7.9	11.5	7.3
NW	1.2	3.8	1.8	.2	.0	.0		7.0	9.1	7.6	5.2	5.2	8.0	11.3	6.3	6.8	4.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1							6.1	.0	5.7	1.8	6.1	7.0	10.5	2.1	9.4	4.5
TOT OBS	199	452	283	32	2	0	968		8.9	157	110	148	100	152	95	96	110
TOT PCT	20.6	46.7	29.2	3.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.2	4.9	2.0	.2	.0		12.2	9.9	10.9	13.3	11.7	13.2
NE	3.4	3.5	1.9	.1	*		9.0	10.5	8.4	9.3	8.8	9.6
E	3.2	2.9	.9	.0	.1		7.1	9.0	8.9	4.9	6.9	7.4
SE	3.9	4.5	.8	.0	.0		9.2	8.8	9.8	10.2	8.7	7.8
S	7.4	12.7	3.2	.1	.0		23.3	10.1	22.6	25.9	22.6	22.2
SW	7.6	8.2	1.5	.1	.0		17.4	8.9	19.5	15.8	15.8	18.4
W	4.5	3.6	.7	.0	.0		8.7	8.3	9.2	7.8	8.8	9.2
NW	2.8	3.2	.9	.1	.0		7.0	9.1	6.6	6.4	9.4	5.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.1						6.1	.0	4.1	6.5	7.3	6.8
TOT OBS	426	422	115	4	1	968		8.9	267	248	247	206
TOT PCT	44.0	43.6	11.9	.4	.1		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.1	14.6	49.8	27.0	4.5	.0	.0	8.2	100.0	267
06&09	6.5	12.1	41.5	35.9	4.0	.0	.0	9.5	100.0	248
12&15	7.3	13.8	48.2	27.9	2.0	.8	.0	8.8	100.0	247
18&21	6.8	18.0	47.1	25.7	2.4	.0	.0	8.0	100.0	206
TOT	59	140	452	283	32	2	0	8.9		968
PCT	6.1	14.5	46.7	29.2	3.3	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.6	2.5	7.8		6.5
NE	.7	.3	1.2	5.0		6.8
E	.5	.2	.3	5.9		7.2
SE	1.5	.4	1.5	6.9		6.4
S	3.9	2.2	4.5	12.4		6.0
SW	3.1	1.9	2.9	5.5		5.3
W	1.8	1.0	2.4	4.3		5.6
NW	2.1	.8	.8	4.9		5.8
VAR	.0	.0	.0	.0		.0
CALM	1.8	.6	1.0	5.4		5.9
TOT OBS	83	39	85	289	496	6.1
TOT PCT	16.7	7.9	17.1	58.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.4	.2	.6	.8	.9	2.1	1.7	.3	.4	.6	2.4	
NE	2.3	.0	.0	.7	.9	2.0	.3	.0	.1	.0	1.0	
E	2.3	.0	.4	.9	1.0	1.2	.4	.0	.0	.0	.9	
SE	2.8	.0	.7	.4	2.1	1.2	.9	.0	.2	.1	2.0	
S	5.9	.0	.5	1.4	2.0	4.0	1.1	.4	.2	.3	7.3	
SW	3.2	.0	.4	.5	.8	1.6	.5	.1	.0	.5	5.9	
W	1.5	.0	.2	.6	1.4	1.5	.9	.2	.0	.2	3.1	
NW	1.5	.0	.0	.5	1.7	1.6	.3	.1	.2	.0	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.0	.2	.2	.2	1.6	.4	.0	.2	.2	.2	2.6	
TOT OBS	123	2	14	29	61	77	30	6	6	9	139	496
TOT PCT	24.8	.4	2.8	5.8	12.3	15.5	6.0	1.2	1.2	1.8	28.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	1.6	2.6	2.8	3.0	3.0	3.0	3.0	3.0
• OR >5000	2.4	3.7	3.9	4.1	4.1	4.1	4.1	4.1
• OR >3500	6.1	8.1	9.6	10.0	10.0	10.0	10.0	10.0
• OR >2000	13.0	21.3	24.6	25.2	25.4	26.0	26.2	26.2
• OR >1000	17.1	29.7	36.0	37.2	37.4	38.0	38.2	38.2
• OR >600	17.9	32.9	40.9	42.3	42.7	43.3	43.7	43.7
• OR >300	17.9	34.4	43.3	45.1	45.5	46.1	46.5	46.5
• OR >150	17.9	34.4	43.5	45.5	45.9	46.5	46.9	46.9
• OR > 0	17.9	35.4	45.7	50.0	52.0	58.5	68.5	71.3
TOTAL	91	180	232	254	264	297	348	362

TOTAL NUMBER OF OBS: 508

PCT FREQ NH <5/8: 28.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.7	3.6	4.9	3.9	3.6	3.4	6.0	7.3	31.3	23.4	534

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.3	.2	.3	.3	.1	.0	.0	.0	.2	1.4	
	NO PCP	1.6	1.6	2.0	2.2	4.8	3.3	1.5	1.1	.0	1.7	19.9	
	TOT %	1.6	1.9	2.2	2.5	5.1	3.4	1.5	1.1	.0	1.9	21.3	
1/2<1	PCP	.2	.0	.0	.1	.2	.2	.0	.0	.0	.0	.6	
	NO PCP	.3	.2	.3	.5	.4	.4	.0	.1	.0	.0	2.2	
	TOT %	.5	.2	.3	.5	.6	.6	.0	.1	.0	.0	2.8	
1<2	PCP	.4	.7	.3	.1	.2	.1	.0	.1	.0	.1	1.9	
	NO PCP	.4	.1	.2	.4	.6	.5	.1	*	.0	.2	2.5	
	TOT %	.8	.8	.4	.5	.8	.6	.1	.1	.0	.3	4.4	
2<5	PCP	.3	.5	.5	.4	.6	.1	.1	.1	.0	.1	2.6	
	NO PCP	1.0	.8	.4	.5	2.2	.6	.5	.6	.0	.5	7.1	
	TOT %	1.3	1.3	.8	1.0	2.7	.6	.6	.6	.0	.6	9.7	
5<10	PCP	.1	.5	.1	.4	.5	.1	.1	.2	.0	.0	2.0	
	NO PCP	2.9	1.2	2.1	1.7	4.6	3.2	1.6	2.2	.0	1.5	20.9	
	TOT %	3.0	1.7	2.2	2.1	5.1	3.3	1.7	2.4	.0	1.5	22.9	
10+	PCP	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	5.2	2.9	1.8	3.2	9.3	7.1	3.9	2.8	.0	2.4	38.5	
	TOT %	5.2	3.0	1.8	3.2	9.4	7.1	3.9	2.8	0	2.4	38.9	
	TOT OBS												929
	TOT PCT	12.4	8.8	7.8	9.8	23.7	15.7	7.9	7.2	.0	6.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.5	.5	.7	.3	.5	.6	.6	.3	.0	1.5	5.4	
	4-10	.8	.9	1.0	1.4	2.8	3.0	2.0	.9	.0		12.6	
	11-21	.5	.6	.7	.8	1.7	1.5	.4	.4	.0		6.5	
	22+	.0	.3	.1	.1	.1	.0	.0	.0	.0		.6	
	TOT %	1.7	2.3	2.4	2.6	5.1	5.0	3.0	1.6	.0	1.5	25.2	
1/2<1	0-3	.4	.3	.0	.2	.1	.2	.0	.1	.0	.0	1.2	
	4-10	.0	.0	.2	.2	.4	.3	.0	.1	.0		1.2	
	11-21	.1	.0	.0	.0	.3	.1	.1	.0	.0		.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.3	.2	.4	.7	.6	.1	.2	.0	.0	2.8	
1<2	0-3	.1	.0	.2	.2	.0	.3	.0	.1	.0	.5	1.4	
	4-10	.3	.2	.2	.0	.7	.3	.0	.1	.0		1.8	
	11-21	.7	.3	.1	.3	.5	.1	.1	.0	.0		2.2	
	22+	.1	.3	.1	.1	.0	.1	.0	.0	.0		.5	
	TOT %	1.1	.7	.5	.6	1.2	.9	.1	.2	.0	.5	5.9	
2<5	0-3	.1	.2	.0	.0	.6	.2	.1	*	.0	.6	1.8	
	4-10	.9	1.0	.2	.2	.9	.4	.3	.5	.0		4.5	
	11-21	.7	.1	.1	.6	1.0	.4	.2	*	.0		3.1	
	22+	.0	.2	.3	.1	.2	.1	.0	.0	.0		.8	
	TOT %	1.7	1.4	.5	.9	2.7	1.2	.6	.6	.0	.6	10.2	
5<10	0-3	.3	.0	.3	.2	.2	.3	.2	.5	.0	1.3	3.2	
	4-10	1.4	.7	.9	.8	1.8	1.7	.8	.8	.0		8.9	
	11-21	.6	.6	.2	.8	2.7	.7	.3	.6	.0		6.5	
	22+	.3	.1	.2	.0	.1	.1	.1	.1	.0		1.1	
	TOT %	2.6	1.4	1.6	1.8	4.7	2.8	1.3	2.1	.0	1.3	19.6	
10+	0-3	.8	.5	.3	1.1	.8	.9	.5	.3	.0	2.1	7.4	
	4-10	2.2	1.3	1.2	1.4	5.3	3.7	1.9	1.4	.0		18.3	
	11-21	1.5	1.1	.3	.4	2.6	2.2	1.3	.7	.0		10.1	
	22+	.3	.0	.0	.0	.1	.0	.0	.1	.0		.4	
	TOT %	4.7	2.9	1.7	2.9	8.8	6.8	3.8	2.4	.0	2.1	36.2	
	TOT OBS												949
	TOT PCT	12.4	8.9	6.9	9.2	23.2	17.3	8.9	7.1	.0	6.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	20.7	.0	4.0	4.0	12.0	22.7	6.7	2.0	1.3	2.0	75.3	24.7	150
06&09	19.9	1.5	3.7	7.4	12.5	18.4	7.4	1.5	1.5	.7	74.3	25.7	136
12&15	26.6	.0	.0	6.5	11.5	11.5	4.3	.7	.7	.7	62.6	37.4	139
18&21	31.9	.0	3.2	4.3	11.7	7.4	5.3	.0	1.1	4.3	69.1	30.9	94
TOT	125	2	14	29	62	82	31	6	6	9	366	153	519
PCT	24.1	.4	2.7	5.6	11.9	15.8	6.0	1.2	1.2	1.7	70.5	29.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	25.9	3.4	6.9	8.6	17.9	37.2	290
06&09	23.6	1.5	9.2	11.1	17.3	41.3	271
12&15	21.0	3.6	4.6	10.3	24.9	35.6	281
18&21	27.8	4.0	4.9	11.7	23.8	27.8	223
TOT	260	33	58	110	222	382	1065
PCT	24.4	3.1	5.4	10.3	20.8	35.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	20.4	28.6	41.5	37.4	21.1	147
06&09	20.3	27.8	41.4	36.8	21.8	133
12&15	27.4	28.1	40.7	25.9	33.3	135
18&21	32.3	36.6	58.1	12.9	29.0	93
TOT	124	151	225	151	132	508
PCT	24.4	29.7	44.3	29.7	26.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	1.4	1.4	.0	.0	.0	2	2.9
75/79	.0	.0	.0	.0	.0	.0	1.4	2.9	3	4.3
70/74	.0	.0	.0	.0	.0	1.4	1.4	1.4	3	4.3
65/69	.0	.0	.0	.0	.0	1.4	.0	.0	1	1.4
60/64	.0	2.9	.0	.0	1.4	.0	2.9	.0	5	7.2
55/59	.0	.0	4.3	1.4	.0	.0	7.2	14.5	19	27.5
50/54	.0	.0	1.4	1.4	.0	1.4	11.6	26.1	29	42.0
45/49	.0	.0	.0	.0	.0	.0	1.4	8.7	7	10.1
TOTAL	0	2	4	3	2	3	18	37	69	100.0
PCT	.0	2.9	5.8	4.3	2.9	4.3	26.1	53.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	1.1	1.8	.0	.0	.0	.0
.0	.0	2.5	.4	.0	1.4	.0	.0	.0	.0
1.1	.7	.7	.4	1.1	.0	.0	.4	.0	.0
.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0
.0	.0	.0	.4	2.2	3.3	.0	1.4	.0	.0
2.5	1.8	1.1	1.4	6.5	3.6	2.9	.4	.0	7.2
7.6	4.3	11.2	5.8	3.6	3.6	2.5	3.3	.0	.0
.0	1.4	.0	.0	1.4	.0	.0	7.2	.0	.0
11.2	8.3	15.6	8.3	17.4	13.8	5.4	12.7	.0	7.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	74	70	59	50	39	33	58.9	293
06&09	84	83	72	59	50	34	32	59.2	274
12&15	72	68	65	55	46	36	32	56.0	281
18&21	83	79	68	55	45	34	34	55.3	226
TOT	84	77	70	57	47	36	32	57.5	1074

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	16.7	5.6	5.6	27.8	44.4	83	18
06&09	.0	15.8	5.3	.0	31.6	47.4	84	19
12&15	.0	20.0	.0	10.0	20.0	50.0	82	20
18&21	.0	.0	.0	.0	23.1	76.9	94	13
TOT	0	10	2	3	18	37	85	70

PERIOD: (PRIMARY) 1937-1974
(OVER-ALL) 1908-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
26/30	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1	4	.1	.3
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.2	6	.1	.6
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.1	.2	6	.0	.7
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.1	.2	.2	.0	13	.3	1.1
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.3	.3	.3	.2	.2	.0	14	.3	1.2
11/13	.0	.0	.0	.0	.0	.2	.1	.8	1.0	.1	.5	.2	.0	.0	27	1.1	1.8
9/10	.0	.0	.0	.0	.0	.0	.3	.5	1.1	.4	.1	.1	.1	.0	25	.8	2.0
7/8	.0	.0	.0	.0	.2	.3	.5	.8	2.0	.9	.9	.0	.0	.0	51	1.3	4.2
6	.0	.0	.0	.0	.0	.2	.3	.4	.4	.4	.1	.0	.0	.0	18	.2	1.7
5	.0	.0	.0	.2	.3	.5	1.1	1.8	2.5	.5	.8	.0	.0	.0	72	1.8	6.0
4	.0	.1	.0	.1	.0	.4	2.3	3.0	2.1	.8	.3	.0	.0	.0	84	3.2	6.0
3	.0	.0	.0	.0	.2	.2	.5	1.3	1.1	.9	.0	.0	.0	.0	39	1.0	3.3
2	.0	.3	.0	.0	1.0	1.4	4.5	3.0	3.3	.7	.3	.0	.0	.0	133	4.9	9.6
1	.0	.0	.0	.0	.1	.7	2.0	1.5	.9	.0	.0	.0	.0	.0	47	1.1	4.0
0	.0	.0	.0	.0	.4	4.7	4.5	2.7	2.9	.3	.5	.0	.0	.0	146	4.5	11.4
-1	.0	.1	.0	.0	.2	1.3	.9	1.4	.4	.1	.0	.0	.0	.0	41	.9	3.6
-2	.0	.0	.0	.0	.7	2.6	2.5	1.8	1.6	.4	.1	.0	.0	.0	90	2.5	7.3
-3	.0	.0	.0	.0	.0	.1	.3	.9	.1	.1	.0	.0	.0	.0	14	.4	1.1
-4	.0	.0	.0	.1	.5	.4	.5	1.3	.4	.0	.0	.0	.0	.0	31	.8	2.6
-5	.0	.0	.0	.0	.3	.5	.7	.1	.2	.0	.0	.0	.0	.0	17	.5	1.3
-6	.0	.0	.0	.0	.3	.5	.2	.1	.0	.0	.0	.0	.0	.0	11	.1	1.1
-7/-8	.0	.0	.0	.1	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	10	.2	.9
-9/-10	.0	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	6	.1	.5
-11/-13	.0	.1	.0	.1	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	6	.2	.4
-14/-16	.0	.0	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.4
-17/-19	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-23/-25	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	6	2	6	46	141	202	201	191	64	38	7	8	6	919	243	676
PCT	.1	.7	.2	.7	5.0	15.3	22.0	21.9	20.8	7.0	4.1	.8	.9	.7	100.0	26.4	73.6

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.3	.3	.0	.0	.0	2.5
1-2	.7	.7	1.7	.0	.0	.0	3.1
3-4	.0	.5	1.3	.2	.0	.0	2.0
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.4	.2	.0	.0	.6
8-9	.0	.0	.3	.3	.0	.0	.5
10-11	.0	.0	.2	.5	.0	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	2.4	5.9	1.1	.0	.0	11.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	1.3	1.4	.0	.0	.0	2.6
3-4	.0	.9	.9	.3	.0	.0	2.0
5-6	.0	.5	.6	.1	.0	.0	1.2
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	3.0	.3	.3	.0	7.9

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4
1-2	.0	2.2	.3	.0	.0	.0	2.4
3-4	.0	.5	.7	.0	.0	.0	1.1
5-6	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.3	.3	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	3.6	1.2	.5	.2	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.6	.0	.0	.0	.0	2.2
1-2	.0	2.4	2.0	.0	.0	.0	4.5
3-4	.0	.3	1.3	.3	.0	.0	1.9
5-6	.0	.0	1.6	.0	.0	.0	1.6
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.3	5.0	.5	.0	.0	10.5

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0020 SAKHALIN ISLAND SE
48.0N 145.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	3.4	.0	.0	.0	.0	4.7
1-2	.0	4.9	5.1	.0	.0	.0	10.0
3-4	.0	1.2	5.1	.8	.0	.0	7.1
5-6	.0	.0	3.4	.0	.0	.0	3.4
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	9.4	13.9	.8	.0	.0	25.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.6	.0	.0	.0	.0	2.8
1-2	.3	1.8	2.8	.0	.0	.0	4.9
3-4	.0	.4	2.8	.0	.0	.0	3.2
5-6	.0	.0	1.1	.3	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.8	7.0	.3	.0	.0	12.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.6	.0	.0	.0	.0	1.8
1-2	.2	2.0	2.2	.0	.0	.0	4.4
3-4	.0	.7	.9	.0	.0	.0	1.6
5-6	.0	.0	.8	.3	.0	.0	1.1
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.3	4.2	.3	.0	.0	9.2

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.5	.0	.0	.0	.0	1.9	
1-2	.1	2.2	.2	.0	.0	.0	2.5	
3-4	.0	.9	.3	.1	.0	.0	1.3	
5-6	.0	.0	1.1	.0	.0	.0	1.1	
7	.0	.0	.9	.1	.0	.0	.9	
8-9	.0	.3	.5	.0	.0	.0	.8	
10-11	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.8	3.3	.2	.0	.0	8.8	91.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.9	14.4	.3	.0	.0	.0	27.6	
1-2	1.3	17.3	15.7	.0	.0	.0	34.4	
3-4	.0	5.5	13.4	1.6	.0	.0	20.5	
5-6	.0	.5	10.2	.8	.0	.0	11.5	
7	.0	.0	2.1	.5	.0	.0	2.6	
8-9	.0	.3	1.0	.5	.3	.0	2.1	
10-11	.0	.0	.3	.5	.0	.0	.8	
12	.0	.0	.3	.0	.3	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	14.2	38.1	43.3	3.9	.5	.0	100.0	381

PERIOD: (OVER-ALL) 1952-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	19.3	15.1	6.1	1.5	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	3
6-7	.0	1.7	3.6	3.4	1.1	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	4
8-9	.0	.4	1.7	.4	1.7	1.5	.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	7
10-11	.0	2.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	2
12-13	.0	.0	1.5	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	4
>13	.0	.0	.0	.2	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	9
INDET	11.1	7.8	5.9	3.6	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	2
TOTAL	63	153	135	67	24	21	6	6	1	0	0	0	0	0	0	0	0	0	0	476	3
PCT	13.2	32.1	28.4	14.1	5.0	4.4	1.3	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	16.9	.0	.0	.0	.0	.0	.0	16.9	1.6	.0	7.8	.0	.0	.0	73.7
NE	13.2	2.6	4.6	.0	.0	.0	.0	20.5	1.7	.0	11.2	.0	.0	1.3	65.3
E	9.1	1.5	6.6	.0	.0	.0	.0	17.2	7.3	.0	9.5	.0	.0	.0	66.1
SE	15.0	.0	7.5	.0	.0	.0	.0	21.9	2.3	.0	8.6	.0	.0	.0	67.1
S	10.7	.7	2.3	.0	.0	.0	.0	13.3	1.2	.0	9.6	.7	.5	.0	74.8
SW	3.6	.0	1.0	.0	.0	.0	.0	4.5	1.0	.0	9.5	.0	.2	.0	84.8
W	.8	.0	.0	.0	.0	.0	.0	.8	1.3	.0	5.5	.0	.0	.0	92.4
NW	4.5	.0	.0	.0	.0	.0	.0	4.5	2.2	.0	6.7	.0	.0	.0	86.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.7	.0	.0	.0	.0	.0	.0	8.7	.0	.0	13.0	.0	.0	.0	78.3
TOT PCT	9.4	.6	2.8	.0	.0	.0	.0	12.6	2.0	.0	9.0	.1	.1	.1	75.9
TOT OBS:	690														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.2	1.0	2.9	.0	.0	.0	.0	12.0	2.9	.0	12.0	.5	.5	.0	72.1
06&09	7.8	.6	1.1	.0	.0	.0	.0	9.5	1.1	.0	8.9	.0	.0	.0	80.4
12&15	7.4	.5	2.6	.0	.0	.0	.0	10.1	3.7	.0	6.3	.0	.0	.5	79.4
18&21	14.4	.0	3.8	.0	.0	.0	.0	18.1	.6	.0	8.1	.0	.6	.0	72.5
TOT PCT	9.2	.5	2.6	.0	.0	.0	.0	12.2	2.2	.0	9.0	.1	.3	.1	76.1
TOT OBS:	736														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.2	3.1	2.4	1.2	.3	.0		8.2	13.0	8.3	14.7	4.9	8.1	5.6	7.5	7.2	14.9
NE	1.0	4.5	4.4	1.6	.2	.0		11.6	12.6	9.1	19.6	7.0	11.3	14.1	11.9	13.5	9.6
E	.5	4.0	3.1	1.2	.2	.0		9.0	13.1	11.9	7.1	5.3	10.1	11.4	7.9	6.0	10.5
SE	.7	5.9	4.0	2.1	.0	.0		12.6	13.0	11.9	13.4	13.1	15.7	11.6	11.9	12.9	11.4
S	1.4	10.5	10.0	2.0	.0	.2		24.1	12.1	22.8	19.6	33.5	17.7	21.9	24.6	23.0	26.3
SW	1.5	7.3	4.9	1.4	.6	.0		15.4	12.3	14.7	12.5	18.0	12.1	19.0	18.3	17.2	13.2
W	1.7	3.9	2.0	1.1	.1	.2		9.0	11.2	9.1	2.7	8.3	12.9	13.4	7.9	9.2	4.4
NW	.9	3.3	2.0	.9	.2	.0		7.2	11.6	8.1	4.9	8.0	8.9	4.5	8.3	7.5	7.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0	4.0	5.4	1.9	3.2	2.7	1.6	3.4	1.8
TOT OBS	78	284	215	77	10	2	666		12.0	126	56	103	62	112	63	87	57
TOT PCT	11.7	42.6	32.3	11.6	1.5	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	3.0	1.2	1.1	.0		8.2	13.0	10.3	6.1	6.3	10.2
NE	3.6	4.7	2.7	.6	.0		11.6	12.6	12.4	8.6	13.3	12.0
E	2.3	4.1	2.0	.5	.2		9.0	13.1	10.4	7.1	10.1	7.8
SE	2.6	5.6	4.2	.3	.0		12.6	13.0	12.4	14.1	11.7	12.3
S	5.2	13.1	5.5	.1	.2		24.1	12.1	21.8	27.6	22.9	24.3
SW	4.1	8.1	2.0	.8	.3		15.4	12.3	14.0	15.8	16.1	15.6
W	3.6	3.6	1.6	.1	.2		9.0	11.2	7.1	10.0	11.4	7.3
NW	2.4	3.3	.9	.6	.0		7.2	11.6	7.1	8.3	5.9	7.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	4.4	2.4	2.3	2.8
TOT OBS	197	303	134	27	5	666		12.0	182	165	175	144
TOT PCT	29.6	45.5	20.1	4.1	.8		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.4	8.8	44.0	29.7	11.0	1.6	.5	11.7	100.0	182
06&09	2.4	9.7	43.0	30.3	11.5	3.0	.0	12.0	100.0	165
12&15	2.3	10.3	40.6	37.1	9.7	.0	.0	11.6	100.0	175
18&21	2.8	5.6	43.1	31.9	14.6	1.4	.7	12.9	100.0	144
TOT	20	58	284	215	77	10	2	12.0		666
PCT	3.0	8.7	42.6	32.3	11.6	1.5	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.0	2.5	3.7		6.3
NE	1.3	.3	2.7	5.1		6.1
E	1.2	.3	2.7	4.6		6.2
SE	1.8	.9	3.3	5.2		6.0
S	5.9	2.2	6.3	9.9		5.3
SW	6.8	2.2	4.3	3.1		4.0
W	7.0	.8	1.8	.9		2.6
NW	3.6	2.0	2.0	1.1		3.7
VAR	.0	.0	.0	.0		.0
CALM	2.0	.5	.5	1.0		3.5
TOT OBS	122	36	103	135	396	4.9
TOT PCT	30.8	9.1	26.0	34.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.4	.6	.8	1.1	1.3	.9	.3	.0	.0	1.9	
NE	.7	.3	.1	1.9	2.0	2.3	.5	.0	.0	.1	2.0	
E	.9	.0	.7	.4	.8	3.2	.3	.0	.0	.4	2.2	
SE	1.0	.0	.3	1.1	1.1	3.2	.9	.1	.0	.3	3.2	
S	1.4	.4	.7	2.0	1.8	4.7	1.8	.4	1.0	.4	9.0	
SW	1.1	.3	.0	.1	1.4	2.0	.3	.0	1.0	.8	9.3	
W	.7	.0	.0	.0	.7	.9	.0	.0	.0	.0	8.2	
NW	.6	.1	.1	.0	.7	.9	.3	.0	.3	.0	5.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.8	.5	.0	.0	.0	.0	2.5	
TOT OBS	27	6	10	22	41	75	20	3	9	8	175	396
TOT PCT	6.8	1.5	2.5	5.6	10.4	18.9	5.1	.8	2.3	2.0	44.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) = OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	3.3	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >5000	3.5	4.4	4.7	4.7	4.7	4.7	4.7	4.7
= OR >3500	7.2	9.8	10.0	10.0	10.0	10.0	10.0	10.0
= OR >2000	17.0	27.0	29.1	29.3	29.3	29.3	29.5	29.5
= OR >1000	20.5	34.9	39.1	40.2	40.5	40.5	40.7	40.9
= OR >600	22.1	38.8	44.2	45.6	45.8	45.8	46.0	46.3
= OR >300	22.3	39.3	45.6	47.4	47.9	47.9	48.1	48.4
= OR >150	22.8	40.5	47.0	48.8	49.3	49.3	49.5	49.8
= OR > 0	23.3	41.4	49.1	51.6	53.0	53.5	55.1	56.0
TOTAL	100	178	211	222	228	230	237	241

TOTAL NUMBER OF OBS: 430

PCT FREQ NH <5/8: 44.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.9	7.0	8.7	4.6	5.0	6.1	7.9	10.3	26.6	5.9	458

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.3	.4	.0	.0	.3	.3	.0	.0	.0	.0	1.3	
<1/2	NO PCP	.4	.7	.4	.6	.9	1.0	.1	.4	.0	.1	4.7	
	TOT %	.7	1.1	.4	.6	1.2	1.3	.1	.4	.0	.1	6.0	
	PCP	.0	.1	.2	.3	.1	.0	.0	.0	.0	.0	.7	
1/2<1	NO PCP	.0	*	.5	*	.3	.7	.3	.0	.0	.1	1.5	
	TOT %	.0	.1	.7	.3	.4	.7	.3	.0	.0	.1	2.2	
	PCP	.0	.4	.0	.7	.2	.3	.0	.0	.0	.0	1.6	
1<2	NO PCP	.2	.1	.1	*	.3	.4	.0	*	.0	.0	1.2	
	TOT %	.2	.5	.1	.7	.5	.7	.0	*	.0	.0	2.8	
	PCP	.6	.8	.6	.7	1.1	.1	.1	.1	.0	.1	4.2	
2<5	NO PCP	.3	.9	.7	.7	.8	.3	.1	.1	.0	.0	3.9	
	TOT %	.9	1.6	1.3	1.4	1.9	.4	.2	.3	.0	.1	8.2	
	PCP	.6	.5	.9	1.1	1.1	*	.0	.2	.0	.1	4.5	
5<10	NO PCP	2.3	2.6	2.7	3.8	5.4	3.2	1.5	1.3	.0	.6	23.5	
	TOT %	3.0	3.1	3.5	4.9	6.4	3.3	1.5	1.6	.0	.7	28.0	
	PCP	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	
10+	NO PCP	4.5	4.5	3.6	4.6	11.6	9.3	6.5	5.9	.0	2.2	52.6	
	TOT %	4.6	4.6	3.6	4.6	11.7	9.3	6.5	5.9	.0	2.2	52.9	
	TOT OBS												686
	TOT PCT	9.3	11.0	9.7	12.5	22.1	15.2	8.7	8.2	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR.	CALM	PCT	TOTAL OBS
	0-3	.5	.4	.0	.0	.2	.2	.3	.1	.0	.2	1.7	
<1/2	4-10	.2	.3	.3	.8	1.6	1.2	.6	.6	.0		5.6	
	11-21	.3	.3	.0	.2	1.1	.6	.0	.2	.0		2.7	
	22+	.2	.2	.0	.2	.3	.4	.1	.0	.0		1.2	
	TOT %	1.1	1.2	.3	1.2	3.2	2.4	1.0	.8	.0	.2	11.2	
	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.3	
1/2<1	4-10	.0	.0	.2	.0	.3	.0	.3	.0	.0		.8	
	11-21	.0	.0	.1	*	.1	.2	.0	.0	.0		.5	
	22+	.0	.1	.5	.2	.0	.0	.0	.0	.0		.8	
	TOT %	.0	.1	.8	.3	.4	.2	.3	.0	.0	.2	2.3	
	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	.5	
1<2	4-10	.0	.3	.0	.1	.5	.2	.0	.0	.0		1.1	
	11-21	.0	.0	.1	.5	.1	*	.0	.0	.0		.8	
	22+	.0	.2	.0	.2	.3	.5	.0	.0	.0		1.2	
	TOT %	.1	.5	.1	.8	.9	.8	.0	.0	.0	.3	3.5	
	0-3	.0	.0	.0	.0	.0	.2	.3	.0	.0	.2	.6	
2<5	4-10	.0	.8	.5	.4	.8	.3	.0	.0	.0		2.7	
	11-21	.3	1.3	.5	.2	1.3	.5	.1	.2	.0		4.3	
	22+	.4	.5	.7	.9	.3	.2	.1	.2	.0		3.2	
	TOT %	.7	2.5	1.7	1.5	2.4	1.1	.5	.3	.0	.2	10.8	
	0-3	.3	.0	.0	.1	.4	.2	.4	.2	.0	.8	2.3	
5<10	4-10	1.1	1.6	1.7	1.9	1.9	1.2	.5	.9	.0		10.8	
	11-21	.7	1.0	1.3	2.0	2.8	.8	.3	.2	.0		9.0	
	22+	.6	.5	.0	.5	1.3	.4	.3	*	.0		3.5	
	TOT %	2.7	3.0	3.0	4.4	6.3	2.6	1.4	1.3	.0	.8	25.5	
	0-3	.4	.5	.5	.5	.8	1.0	.7	.6	.0	1.5	6.5	
10+	4-10	1.8	1.5	1.5	2.5	5.6	4.3	2.6	1.9	.0		21.7	
	11-21	1.1	1.9	1.0	1.0	4.7	2.2	1.5	1.5	.0		14.9	
	22+	.4	.3	.1	.2	.0	.6	1.0	.9	.0		3.5	
	TOT %	3.7	4.2	3.0	4.1	11.2	8.1	5.8	4.9	.0	1.5	46.7	
	TOT OBS												658
	TOT PCT	8.3	11.6	8.8	12.5	24.4	15.2	9.0	7.3	.0	3.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1933-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.4	2.1	2.8	2.8	12.1	20.6	5.7	1.4	2.8	2.1	58.9	41.1	141
06&09	7.0	1.8	.9	7.9	14.0	21.9	5.3	.0	1.8	1.8	62.3	37.7	114
12&15	7.8	.0	2.9	3.9	9.8	16.7	3.9	.0	1.0	1.0	47.1	52.9	102
18&21	5.8	1.2	2.3	7.0	7.0	15.1	5.8	1.2	2.3	2.3	50.0	50.0	86
TOT	30	6	10	23	49	84	23	3	9	8	245	198	443
PCT	6.8	1.4	2.3	5.2	11.1	19.0	5.2	.7	2.0	1.8	55.3	44.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	10.7	.9	4.5	9.8	25.4	48.7	224
06&09	8.2	2.1	3.1	12.3	21.0	53.3	195
12&15	6.4	3.4	3.0	10.8	25.6	50.7	203
18&21	13.9	2.3	4.0	9.2	28.9	41.6	173
TOT	77	17	29	84	200	388	795
PCT	9.7	2.1	3.6	10.6	25.2	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+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.8	13.0	25.4	37.0	37.7	138
06&09	7.1	10.6	26.5	38.9	34.5	113
12&15	8.2	11.3	18.6	29.9	51.5	97
18&21	4.9	9.8	20.7	31.7	47.6	82
TOT	28	49	100	150	180	430
PCT	6.5	11.4	23.3	34.9	41.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	3.6	.0	.0	.0	.0	.0	1	3.6
60/64	.0	.0	.0	.0	.0	3.6	3.6	.0	2	7.1
55/59	.0	.0	3.6	.0	.0	.0	3.6	3.6	3	10.7
50/54	.0	.0	3.6	.0	.0	10.7	25.0	25.0	18	64.3
45/49	.0	.0	.0	.0	3.6	.0	7.1	.0	3	10.7
30/34	.0	.0	.0	.0	.0	.0	.0	3.6	1	3.6
TOTAL	0	0	3	0	1	4	11	9	28	100.0
PCT	.0	.0	10.7	.0	3.6	14.3	39.3	32.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0
.0	.0	2.7	.9	.0	.0	3.6	.0	.0	.0
.0	.0	3.6	3.6	2.7	.9	.0	.0	.0	.0
13.4	3.6	17.9	11.6	2.7	7.1	2.7	5.4	.0	.0
.0	3.6	.0	.0	.0	.0	.0	3.6	.0	3.6
.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0
13.4	7.1	24.1	23.2	5.4	8.0	6.3	8.9	.0	3.6

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	73	70	66	57	47	38	32	56.5	223
06&09	76	70	66	58	49	46	45	57.7	191
12&15	70	65	63	55	46	33	32	54.3	204
18&21	77	70	63	54	45	43	41	53.8	173
TOT	77	70	65	55	46	41	32	55.6	791

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	22.2	33.3	44.4	86	9
06&09	.0	20.0	.0	.0	40.0	40.0	80	5
12&15	.0	.0	14.3	28.6	28.6	28.6	84	7
18&21	.0	28.6	.0	.0	57.1	14.3	77	7
TOT	0	3	1	4	11	9	82	28

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1939-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	% FOG	WD FOG
29/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.1	.0
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.1	.0
14/16	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.3	.0	.0	4	.1	.4
11/13	.0	.0	.0	.0	.0	.0	.1	.0	.4	.0	.4	.1	.0	8	.1	1.0
9/10	.0	.0	.0	.0	.0	.0	.1	.7	.1	.9	.1	.0	.0	14	.0	2.0
7/8	.0	.0	.0	.0	.0	.3	.4	1.2	1.2	.6	.3	.0	.0	27	.6	3.4
6	.0	.0	.0	.0	.0	.0	.4	.5	.7	.3	.1	.0	.0	15	.3	1.9
5	.0	.0	.0	.0	.3	.3	1.2	1.9	2.5	.3	.3	.0	.0	46	.9	5.9
4	.0	.0	.0	.0	.3	.7	1.1	2.2	2.8	.7	.0	.0	.0	54	.6	7.3
3	.0	.0	.0	.0	.6	.3	1.5	1.0	.9	.1	.0	.0	.0	30	.1	4.4
2	.0	.0	.0	.0	.1	2.2	3.8	2.3	2.3	.0	.1	.0	.0	75	.9	10.1
1	.0	.0	.0	.0	.1	1.0	1.0	1.3	.6	.1	.0	.0	.0	29	.3	4.0
0	.0	.0	.0	.0	.9	4.0	4.5	3.7	2.6	.3	.0	.0	.0	109	1.9	14.1
-1	.0	.0	.0	.0	.0	.4	1.8	.7	.4	.0	.0	.0	.0	23	.3	3.1
-2	.0	.0	.0	.1	.9	2.8	3.7	2.6	1.3	.1	.0	.0	.0	79	1.3	10.2
-3	.0	.0	.0	.0	.3	1.5	1.0	.1	.1	.0	.0	.0	.0	21	.3	2.8
-4	.0	.0	.0	.0	3.1	2.5	2.8	1.3	.6	.0	.0	.0	.0	70	.4	9.8
-5	.0	.0	.0	.0	1.3	1.2	1.0	1.3	.1	.0	.0	.0	.0	34	.4	4.5
-6	.0	.0	.0	.0	.3	.4	.6	.0	.0	.0	.0	.0	.0	9	.0	1.3
-7/-8	.0	.0	.0	.3	.9	.1	.4	.1	.1	.0	.0	.0	.0	14	.1	1.9
-9/-10	.0	.0	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	4	.0	.6
-11/-13	.0	.0	.3	.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	9	.0	1.3
-14/-16	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
-20/-22	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.4
-26/-30	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	1	3	7	67	122	178	147	117	24	12	2	1	688	62	621
PCT	.3	.1	.4	1.0	9.8	17.9	26.1	21.5	17.1	3.5	1.8	.3	.1	100.0	9.1	90.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.8	.2	.0	.0	.0	1.1
3-4	.0	.3	.2	.3	.0	.0	.9
5-6	.0	.0	.7	.3	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.2	.9	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.6	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	2.0	2.0	.6	.0	6.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	1.7	1.7	.0	.0	.0	3.4
3-4	.0	.3	3.3	.1	.0	.0	3.7
5-6	.0	.0	.3	.5	.0	.0	.8
7	.0	.3	.3	.0	.0	.0	.7
8-9	.0	.3	.3	.7	.0	.0	1.4
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	4.6	1.9	.3	.0	9.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1
1-2	.0	1.9	2.4	.0	.0	.0	4.3
3-4	.0	.0	.3	.2	.0	.0	.6
5-6	.0	.0	.2	.5	.0	.0	.7
7	.0	.0	.7	.2	.0	.0	.9
8-9	.0	.0	.7	.9	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.3	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	4.6	1.9	.3	.0	9.8

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.3	.0	.0	.0	1.6
1-2	.0	1.6	1.0	.0	.0	.0	2.5
3-4	.0	.7	.6	.4	.0	.0	1.6
5-6	.0	.0	1.1	.4	.0	.0	1.6
7	.0	.0	.3	1.4	.0	.0	1.7
8-9	.0	.1	1.0	.1	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.3	.0	.0	.0	.0	.3
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	4.7	2.3	.0	.0	10.9

PERIOD: (OVER-ALL) 1963-1974 SEPTEMBER AREA 0020 SAKHALIN ISLAND SE

TABLE 18 (CONT) 48.7N 145.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.3	.7	.0	.0	.0	3.3	.4	2.6	.7	.0	.0	.0	3.7
1-2	.0	4.8	3.4	.0	.0	.0	8.2	.0	1.7	.8	.0	.0	.0	2.5
3-4	.0	1.2	5.6	.2	.0	.0	7.0	.3	1.1	2.4	.0	.0	.0	3.8
5-6	.0	.7	2.2	.9	.0	.0	3.8	.0	.3	.3	.0	.0	.0	.7
7	.0	.0	1.8	1.2	.0	.0	3.0	.0	.0	.2	.4	.0	.0	.6
8-9	.0	.2	.3	.2	.0	.0	.8	.3	.0	.0	.3	.0	.0	.7
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.7	1.1	.3	.0	2.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	9.2	14.3	3.0	.0	.3	27.1	1.1	5.7	5.1	2.2	.7	.0	14.8

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.9	1.2	.0	.0	.0	.0	2.1	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.2	1.5	.9	.0	.0	.0	2.6	.1	.8	.7	.0	.0	.0	1.6	
3-4	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	1.7	.3	.0	.0	2.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	
7	.0	.0	.2	.7	.0	.0	.9	.0	.0	.4	.7	.0	.0	1.1	
8-9	.0	.0	.3	.7	.0	.3	1.3	.0	.0	.1	.4	.3	.0	.8	
10-11	.0	.0	.2	.5	.0	.0	.7	.0	.0	.1	.1	.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	.1	.1	.0	.2	
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	2.7	2.7	1.8	.2	.3	8.9	.1	2.2	3.5	1.6	.4	.0	7.8	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.6	11.1	1.6	.0	.0	.0	17.4	
1-2	.3	14.8	11.1	.0	.0	.0	26.2	
3-4	.3	3.6	15.1	1.6	.0	.0	20.7	
5-6	.0	1.0	5.6	2.6	.0	.0	9.2	
7	.0	.3	3.9	4.6	.0	.0	8.9	
8-9	.3	.7	3.3	3.6	.3	.3	8.5	
10-11	.0	.0	1.6	3.0	.3	.0	4.9	
12	.0	.3	.0	.3	.3	.0	1.0	
13-16	.0	.0	.3	.3	1.3	.3	2.3	
17-19	.0	.0	.3	.0	.3	.0	.7	
20-22	.0	.0	.0	.3	.0	.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	
TOT PCT	5.6	31.8	43.0	16.4	2.6	.7	100.0	305

PERIOD: (OVER-ALL) 1964-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	10.7	11.7	6.1	2.8	2.1	.7	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	150	4
6-7	.0	.7	1.2	4.9	3.7	1.9	1.6	.5	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	7
8-9	.0	.5	2.3	1.2	1.6	1.2	.5	.5	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	38	7
10-11	.0	1.9	.0	.7	.9	1.2	.0	.0	.9	.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	27	9
12-13	.0	.0	.5	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
>13	.0	.0	.0	.2	.2	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	7.2	4.7	8.9	2.8	4.2	2.1	1.4	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	138	4
TOTAL	31	79	105	70	58	37	18	10	14	4	1	0	0	2	0	0	0	0	0	429	5
PCT	7.2	18.4	24.5	16.3	13.5	8.6	4.2	2.3	3.3	.9	.2	.0	.0	.5	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1907-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	8.4	1.3	.0	.0	8.7	.0	.0	17.1	3.2	.0	5.8	.0	.0		.0	73.9
NE	13.6	.0	.0	.0	.0	.0	.0	13.6	1.4	.0	.0	.0	.0		.7	84.3
E	16.5	.0	12.6	.0	.0	.0	.0	29.1	4.7	.0	.0	.0	.0		5.5	60.6
SE	14.5	2.2	6.5	.0	.0	.0	.0	23.1	4.3	.0	4.8	4.3	.0		2.2	61.3
S	3.4	.0	1.3	.0	.0	.0	.0	4.7	.0	.0	7.4	.0	1.0		.0	86.9
SW	3.1	.0	1.0	.0	.0	.0	.0	4.1	1.0	1.0	.7	.0	.2		.0	93.0
W	.9	.0	.9	.0	.0	.0	.0	1.7	2.6	.0	1.1	.0	.0		.0	94.6
NW	2.7	.0	.0	.0	4.7	.0	.0	7.3	8.4	.0	.7	.0	.0		.9	82.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	5.4	.3	1.6	.0	2.0	.0	.0	9.1	3.3	.2	2.4	.3	.2		.7	83.9
TOT OBS:	614															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.2	.5	1.6	.0	2.1	.0	.0	7.9	4.7	.0	2.6	.5	.0		1.0	83.2
06&09	3.0	.6	1.2	.0	1.2	.0	.0	6.1	1.8	.0	2.4	.6	.6		.0	88.4
12&15	9.0	.0	.6	.0	2.6	.0	.0	12.3	2.6	.6	2.6	.0	.0		.6	81.3
18&21	7.5	.0	5.3	.0	1.5	.0	.0	14.3	3.8	.0	2.3	.0	.0		.8	78.9
TOT PCT	5.8	.3	2.0	.0	1.9	.0	.0	9.8	3.3	.2	2.5	.3	.2		.6	83.2
TOT OBS:	643															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	3.1	6.4	2.5	.5	.0		13.0	16.4	10.1	11.1	15.2	17.4	15.1	7.9	13.2	13.2
NE	.5	1.5	2.9	.9	.2	.0		6.0	15.6	3.7	7.4	5.1	4.5	7.6	3.9	10.0	7.9
E	.7	1.2	1.3	1.7	.2	.0		5.1	16.1	5.3	3.7	1.6	9.1	7.4	.0	7.1	7.9
SE	.2	2.2	2.9	.9	.2	.0		6.4	15.1	7.5	3.7	6.7	4.5	5.2	2.6	8.9	6.6
S	.5	3.8	5.1	2.9	.3	.0		12.7	16.3	15.3	3.7	11.6	9.8	14.4	19.1	8.2	12.5
SW	1.1	5.7	7.2	2.8	.0	.0		16.8	13.7	16.0	15.7	18.1	12.9	14.6	23.0	17.1	19.7
W	.7	6.9	7.2	3.6	1.1	.0		19.5	15.7	18.4	17.6	19.9	24.2	16.8	31.6	20.7	12.5
NW	.8	6.0	6.4	4.6	.5	.0		18.4	15.4	22.2	37.0	18.3	17.4	14.1	11.8	13.2	19.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0	1.5	.0	3.6	.0	5.0	.0	1.4	.0
TOT OBS	40	169	218	111	17	0	555		15.1	136	27	112	33	101	38	70	38
TOT PCT	7.2	30.5	39.3	20.0	3.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	5.3	4.6	1.4	.0		13.0	16.4	10.3	15.7	13.1	13.2
NE	1.0	1.9	2.6	.5	.0		6.0	15.6	4.3	5.0	6.5	9.3
E	1.6	1.0	1.8	.7	.0		5.1	16.1	5.1	3.3	5.4	7.4
SE	1.0	2.4	2.7	.2	*		6.4	15.1	6.9	6.2	4.5	8.1
S	1.9	4.7	4.1	1.8	.1		12.7	16.3	13.3	11.2	15.6	9.7
SW	3.6	6.8	6.0	.5	.0		16.8	13.7	16.0	16.9	16.9	18.1
W	3.5	8.1	5.4	2.2	.4		19.5	15.7	18.3	20.9	20.9	17.8
NW	3.4	7.3	5.6	1.8	.2		18.4	15.4	24.7	18.1	13.5	15.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.2						2.2	.0	1.2	2.8	3.6	.9
TOT OBS	110	209	182	50	4	555		15.1	163	145	139	108
TOT PCT	19.8	37.7	32.8	9.0	.7		100.0		100.0	100.0	100.0	100.0

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1907-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	1.2	3.7	25.8	43.6	20.9	4.9	.0	16.3	100.0	163
06&09	2.8	4.8	35.9	37.9	17.2	3.4	.0	14.7	100.0	145
12&15	3.6	6.5	30.9	36.7	20.9	1.4	.0	14.6	100.0	139
18&21	.9	8.3	29.6	38.0	21.3	1.9	.0	14.6	100.0	108
TOT	12	28	169	218	111	17	0	15.1		555
PCT	2.2	5.0	30.5	39.3	20.0	3.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.2	4.8	5.4		5.9
NE	.8	.5	1.1	2.9		6.0
E	1.1	.2	1.1	2.1		5.6
SE	1.6	.5	1.5	3.6		5.7
S	4.2	1.7	4.2	3.2		4.5
SW	5.5	2.9	5.7	2.1		3.9
W	5.3	3.5	7.9	2.2		4.5
NW	3.3	3.8	6.1	4.7		5.0
VAR	.0	.0	.0	.0		.0
CALM	2.1	.0	.7	.7		2.9
TOT OBS	111	56	139	113	419	4.8
TOT PCT	26.5	13.4	33.2	27.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.7	.0	.0	.5	3.7	3.4	.7	.7	.0	.0	3.3	
NE	.2	.0	.0	.7	1.2	1.1	.2	.0	.2	.0	1.6	
E	.2	.0	.0	.0	1.4	1.1	.2	.0	.0	.2	1.3	
SE	.4	.0	.0	.2	1.7	1.6	.8	.1	.0	.2	2.1	
S	.6	.0	.0	.0	1.3	2.3	.8	.2	.0	.6	7.5	
SW	.2	.2	.0	.2	1.2	3.0	1.1	.0	.0	.6	9.7	
W	.5	.0	.0	.0	1.9	3.8	1.1	.2	.4	.7	10.4	
NW	.5	.0	.2	.5	1.8	4.8	1.0	.8	.3	.0	8.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.0	.2	.2	.0	.0	.2	2.4	
TOT OBS	16	1	1	9	60	89	26	8	4	11	194	419
TOT PCT	3.8	.2	.2	2.1	14.3	21.2	6.2	1.9	1.0	2.6	46.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ≥ OR >10	≥ OR >5	≥ OR >2	≥ OR >1	≥ OR >1/2	≥ OR >1/4	≥ OR >50YD	≥ OR >0
≥ OR >6500	1.4	2.7	3.4	3.4	3.4	3.4	3.4	3.4
≥ OR >5000	2.7	4.3	5.2	5.2	5.2	5.2	5.2	5.2
≥ OR >3500	6.6	10.2	11.6	11.6	11.6	11.6	11.6	11.6
≥ OR >2000	18.8	28.6	32.0	32.9	32.9	32.9	32.9	32.9
≥ OR >1000	24.5	39.5	45.1	46.9	46.9	46.9	46.9	46.9
≥ OR >600	24.9	41.0	47.4	49.2	49.2	49.2	49.2	49.2
≥ OR >300	25.2	41.3	47.8	49.7	49.7	49.7	49.7	49.7
≥ OR >150	25.2	41.3	48.1	49.9	49.9	49.9	49.9	49.9
≥ OR > 0	25.9	43.1	51.0	52.8	53.3	53.5	54.2	54.2
TOTAL	114	190	225	233	235	236	239	239

TOTAL NUMBER OF OBS: 441 PCT FREQ NH <5/8: 45.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.9	5.1	8.5	6.6	6.6	7.2	11.4	9.9	24.3	3.2	473

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1907-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.0	.4	.3	.0	.0	.2	.0	.0	1.0	
	TOT %	.2	.0	.0	.4	.4	.0	.0	.2	.0	.0	1.1	
1/2<1	PCP	.1	.0	.0	*	.1	.0	.0	.2	.0	.0	.5	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.0	.0	.2	.1	.0	.0	.2	.0	.0	.7	
1<2	PCP	.7	.1	.2	.2	.1	*	.2	.4	.0	.0	2.0	
	NO PCP	.0	*	.1	.0	.0	.2	.0	.0	.0	.0	.3	
	TOT %	.7	.1	.4	.2	.1	.2	.2	.4	.0	.0	2.3	
2<5	PCP	1.0	.3	.7	.3	.0	.0	.0	.3	.0	.0	2.6	
	NO PCP	1.4	1.0	.3	.4	.2	.7	.7	.9	.0	.0	5.6	
	TOT %	2.4	1.3	.9	.7	.2	.7	.7	1.2	.0	.0	8.2	
5<10	PCP	.3	.2	.4	.7	.2	.5	.2	.4	.0	.0	2.8	
	NO PCP	3.0	1.8	.9	1.8	3.4	3.7	4.2	3.6	.0	1.0	23.5	
	TOT %	3.3	2.0	1.4	2.5	3.6	4.2	4.9	4.0	.0	1.0	26.3	
10+	PCP	.1	.2	.2	.5	.0	.0	.0	*	.0	.0	1.0	
	NO PCP	5.8	2.1	2.3	3.1	7.7	11.6	13.8	12.3	.0	1.8	60.5	
	TOT %	5.9	2.2	2.5	3.6	7.7	11.6	13.8	12.4	.0	1.8	61.4	
	TOT OBS												612
	TOT PCT	12.5	5.7	5.2	7.6	12.1	16.7	19.0	18.4	.0	2.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0		.2	
	11-21	.0	.0	.2	*	.3	.0	.0	.0	.0		.5	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0		.2	
	TOT %	.2	.0	.2	.2	.5	.0	.0	.0	.0	.0	1.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.1	.0	.0	.0	.2	.0	.0	.1	.0		.4	
	22+	.0	.0	.0	*	.1	.0	.0	.2	.0		.4	
	TOT %	.1	.0	.0	*	.3	.0	.0	.3	.0	.0	.7	
1<2	0-3	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.4	
	4-10	.1	.0	.2	.0	.0	.0	.3	.1	.0		.7	
	11-21	.6	.1	.2	.0	.1	*	.0	.4	.0		1.5	
	22+	.1	*	.2	.1	.0	.0	.0	.1	.0		.5	
	TOT %	.8	.3	.6	.1	.1	*	.5	.6	.0	.0	3.1	
2<5	0-3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
	4-10	.4	.2	.1	.2	.1	.3	.2	.0	.0		1.5	
	11-21	1.6	.9	.2	.0	.2	.3	.6	.7	.0		4.6	
	22+	.9	.4	.5	.2	.0	.2	.0	.8	.0		2.9	
	TOT %	2.9	1.5	.9	.4	.3	1.1	.8	1.5	.0	.0	9.3	
5<10	0-3	.3	.0	.2	.0	.4	.2	.2	.1	.0	.7	2.0	
	4-10	.9	.1	.4	.5	.5	1.0	1.3	1.3	.0		6.0	
	11-21	1.1	.9	.0	1.7	.9	1.7	2.0	1.2	.0		9.5	
	22+	.9	.5	1.0	.4	1.7	.9	1.2	1.1	.0		7.5	
	TOT %	3.1	1.5	1.6	2.6	3.5	3.7	4.7	3.7	.0	.7	25.1	
10+	0-3	.1	.3	.5	.2	.1	.5	.3	.7	.0	1.5	4.2	
	4-10	1.8	1.2	.5	1.2	3.0	4.2	5.3	4.7	.0		22.0	
	11-21	3.0	.9	.8	1.2	3.5	5.1	4.6	3.8	.0		22.9	
	22+	1.0	.1	.1	.5	1.2	1.8	3.6	3.2	.0		11.5	
	TOT %	5.9	2.4	2.0	3.1	7.8	11.6	13.9	12.4	.0	1.5	60.6	
	TOT OBS												546
	TOT PCT	13.0	5.7	5.2	6.5	12.6	16.5	19.8	18.5	.0	2.2	100.0	

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1907-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.4	.7	.0	1.4	19.0	27.2	4.1	1.4	.7	2.0	59.9	40.1	147
06&09	2.3	.0	.0	3.1	9.3	24.0	10.1	.8	1.6	2.3	53.5	46.5	129
12&15	4.4	.0	1.1	1.1	13.3	15.6	5.6	2.2	1.1	4.4	48.9	51.1	90
18&21	9.8	.0	1.2	3.7	12.2	11.0	4.9	3.7	.0	1.2	47.6	52.4	82
TOT	20	1	2	10	62	94	28	8	4	11	240	208	448
PCT	4.5	.2	.4	2.2	13.8	21.0	6.3	1.8	.9	2.5	53.6	46.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	1.6	.0	2.1	8.3	24.0	64.1	192
06&09	1.2	1.2	1.2	7.7	18.9	69.8	169
12&15	1.3	.6	6.3	9.4	28.9	53.5	159
18&21	1.5	1.5	2.2	12.5	33.8	48.5	136
TOT	9	5	19	61	170	392	656
PCT	1.4	.8	2.9	9.3	25.9	59.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.4	4.1	14.3	45.6	40.1	147
06&09	1.6	1.6	10.3	44.4	45.2	126
12&15	4.5	5.7	15.9	36.4	47.7	88
18&21	10.0	11.3	26.3	23.8	50.0	80
TOT	19	22	69	176	198	441
PCT	4.3	5.0	15.6	39.5	44.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/64	.0	.0	.0	.0	.0	.0	2.3	.0	1	2.3
55/59	.0	.0	.0	.0	4.7	.0	.0	.0	2	4.7
50/54	.0	.0	.0	.0	2.3	2.3	.0	4.7	4	9.3
45/49	.0	2.3	.0	2.3	4.7	11.6	16.3	4.7	18	41.9
40/44	.0	.0	.0	2.3	.0	7.0	.0	.0	4	9.3
35/39	.0	.0	.0	.0	.0	4.7	7.0	2.3	6	14.0
30/34	.0	.0	.0	.0	.0	.0	2.3	2.3	2	4.7
25/29	.0	.0	.0	.0	.0	.0	9.3	4.7	6	14.0
TOTAL	0	1	0	2	5	11	16	8	43	100.0
PCT	.0	2.3	.0	4.7	11.6	25.6	37.2	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	1.7	.0	.0	.0	.0	.0	.0	.6	.0	.0
	.0	.0	.0	.0	.0	2.9	1.7	.0	.0	.0
	.0	2.3	2.3	2.3	.0	.0	.0	2.3	.0	.0
	.0	.0	.0	2.9	21.5	8.1	7.0	2.3	.0	.0
	.0	.0	2.3	.0	.0	.0	7.0	.0	.0	.0
	6.4	2.3	.0	.0	.0	.0	4.7	.6	.0	.0
	3.5	.0	.0	.0	.0	.0	.0	1.2	.0	.0
	7.0	.0	.0	.0	.0	.0	.0	7.0	.0	.0
	18.6	4.7	4.7	5.2	21.5	11.0	20.3	14.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	72	68	57	47	32	28	27	46.7	192
06&09	68	62	56	46	35	27	23	46.5	168
12&15	66	63	55	45	30	27	25	44.5	161
18&21	56	55	52	45	32	28	27	43.8	132
TOT	72	61	56	46	32	27	23	45.5	653

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	8.3	25.0	33.3	33.3	82	12
06&09	.0	.0	10.0	50.0	40.0	.0	77	10
12&15	.0	18.2	9.1	27.3	18.2	27.3	76	11
18&21	.0	10.0	20.0	.0	60.0	10.0	80	10
TOT	0	3	5	11	16	8	79	43

OCTOBER

PERIOD: (PRIMARY) 1944-1974
(OVER-ALL) 1907-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	2	.0	.3
14/16	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.2	.0	.0	4	.0	.7
11/13	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	.3	.0	.0	5	.0	.8
9/10	.0	.0	.0	.0	.0	.2	.0	.0	.3	.3	.0	.0	.0	5	.2	.7
7/8	.0	.0	.0	.0	.0	.2	.3	.7	.8	.5	.2	.0	.0	16	.2	2.5
6	.0	.0	.0	.0	.2	.0	.0	.5	.4	.2	.2	.0	.0	8	.2	1.1
5	.0	.0	.0	.0	.0	.0	.5	.7	.7	.2	.2	.0	.0	13	.0	2.1
4	.0	.0	.0	.0	.0	.0	1.5	2.0	1.0	.2	.0	.0	.0	28	.0	4.6
3	.0	.0	.0	.0	.2	.0	1.3	1.8	.8	.2	.0	.0	.0	26	.3	4.0
2	.0	.0	.0	.0	.0	.0	3.8	2.5	.7	.2	.2	.0	.0	44	.2	7.1
1	.0	.0	.0	.0	.0	.2	2.1	1.8	.5	.2	.0	.0	.0	29	.2	4.6
0	.0	.0	.0	.0	.0	.8	3.1	4.6	.8	.0	.0	.0	.0	57	.3	9.1
-1	.0	.0	.0	.2	.3	.8	2.6	1.3	.3	.0	.0	.0	.0	34	.3	5.3
-2	.0	.0	.2	.0	1.2	2.3	4.1	1.7	.3	.0	.0	.0	.0	59	.2	9.6
-3	.0	.0	.2	.0	.3	1.2	1.2	.8	.5	.0	.0	.0	.0	25	.0	4.1
-4	.0	.0	.2	.2	1.2	3.0	3.8	2.1	.2	.0	.0	.0	.0	64	.2	10.4
-5	.0	.0	.0	.3	1.2	3.1	2.3	1.0	.0	.0	.0	.0	.0	48	.0	7.9
-6	.0	.0	.0	.0	.2	.5	.7	.2	.0	.0	.0	.0	.0	9	.2	1.3
-7/-8	.0	.0	.2	1.0	1.5	3.1	1.0	.3	.0	.0	.0	.0	.0	43	.0	7.1
-9/-10	.0	.0	.2	.8	1.2	1.8	.3	.2	.0	.0	.0	.0	.0	27	.2	4.3
-11/-13	.0	.0	.7	.7	.8	1.0	.2	.0	.0	.0	.0	.0	.0	22	.0	3.6
-14/-16	.0	1.5	1.0	.3	.5	.0	.2	.0	.0	.0	.0	.0	.0	21	.0	3.5
-17/-19	.0	.0	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-20/-22	.0	.3	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-23/-25	.0	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	.0	.8
-26/-30	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	12	23	23	52	112	178	136	46	14	7	1	1	606	15	591
PCT	.2	2.0	3.8	3.8	8.6	18.5	29.4	22.4	7.6	2.3	1.2	.2	.2	100.0	2.5	97.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.2	.3	.0	.0	.0	2.1
1-2	.0	1.6	.2	.0	.0	.0	1.8
3-4	.0	.0	2.5	.3	.0	.0	2.8
5-6	.0	.0	2.4	1.1	.0	.0	3.5
7	.0	.3	.2	.2	.0	.0	.7
8-9	.0	.0	.5	.8	.3	.0	1.6
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.3	.2	.0	.5
13-16	.0	.0	.3	.0	.0	.0	.3
17-19	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.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
TOT PCT	.6	3.0	6.4	3.3	.8	.0	14.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.1	.1	.0	.0	.0	.1
3-4	.0	.3	1.3	.0	.0	.0	1.6
5-6	.0	.0	.6	.3	.0	.0	.9
7	.0	.0	.9	.9	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.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
TOT PCT	.0	.7	2.9	1.3	.4	.0	5.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	.3	.4	.0	.0	.0	.7
3-4	.0	.0	.5	.2	.0	.0	.7
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.7	.0	.0	.7
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.5	1.3	1.8	.0	.0	3.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.6	.0	.0	.0	1.0
1-2	.0	.7	.1	.0	.0	.0	.8
3-4	.0	.4	1.0	.4	.0	.0	1.7
5-6	.0	.0	.7	.0	.0	.0	.7
7	.0	.0	.7	.3	.3	.0	1.3
8-9	.0	.0	.0	.3	.1	.0	.4
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	3.4	1.0	.4	.0	6.2

PERIOD: (OVER-ALL) 1963-1974

OCTOBER

TABLE 18 (CONT)

AREA 0020 SAKHALIN ISLAND SE
48.0N 145.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.3	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	1.5	1.3	.0	.0	.0	2.7	.1	2.1	3.1	.0	.0	.0	5.3
3-4	.0	.4	2.1	.0	.0	.0	2.5	.0	.7	2.4	.3	.0	.0	3.4
5-6	.0	.0	1.6	1.0	.3	.0	2.9	.0	.0	.7	.4	.0	.0	1.1
7	.0	.0	1.6	1.5	.0	.0	3.1	.0	.0	1.0	2.2	.0	.0	3.3
8-9	.0	.0	.3	.9	.2	.0	1.4	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.9	.3	.0	.0	1.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.1	.6	.0	.0	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.4	7.1	3.9	.5	.0	14.2	.1	3.8	8.2	4.4	.0	.0	16.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.3	1.0	.0	.0	.0	.0	1.3	
1-2	.2	2.0	.6	.0	.0	.0	2.8	.3	1.6	1.0	.0	.0	.0	2.9	
3-4	.0	.6	2.7	.2	.0	.0	3.6	.0	.9	2.2	.4	.0	.0	3.5	
5-6	.0	.5	2.1	1.5	.0	.0	4.1	.0	.4	1.0	1.8	.0	.0	3.2	
7	.0	.0	1.0	1.6	.9	.0	3.5	.0	.3	1.0	.7	.0	.0	2.0	
8-9	.0	.3	.9	.6	.0	.0	1.8	.0	.0	.7	1.0	.0	.0	1.6	
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.6	.0	.0	.6	
12	.0	.0	.2	.5	.0	.0	.7	.0	.0	.3	.7	.3	.0	1.3	
13-16	.0	.0	.0	.3	.3	.0	.6	.0	.0	.0	.9	.6	.0	1.5	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.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	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.5	7.5	5.0	1.5	.0	18.7	.6	4.1	6.4	6.1	.9	.0	18.1	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	5.6	1.2	.0	.0	.0	11.2	
1-2	.6	9.8	6.8	.0	.0	.0	17.2	
3-4	.0	3.3	14.8	1.8	.0	.0	19.8	
5-6	.0	.9	9.2	6.2	.3	.0	16.6	
7	.0	.6	6.5	7.4	1.2	.0	15.7	
8-9	.0	.3	2.4	4.7	.6	.0	8.0	
10-11	.0	.0	1.2	1.8	.3	.0	3.3	
12	.0	.0	.6	2.4	.6	.0	3.6	
13-16	.0	.0	.3	2.1	.9	.0	3.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.3	.0	.6	.0	.9	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								338
TOT PCT	5.0	20.4	43.2	26.9	4.4	.0	100.0	

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	7.1	7.8	6.0	5.8	2.4	.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	141	5
6-7	.0	.4	1.8	4.4	6.2	4.0	3.8	.4	1.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	103	8
8-9	.2	.0	.9	1.8	2.2	2.9	2.9	.9	1.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	60	9
10-11	.0	.7	.0	.4	1.1	.7	.9	.2	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	20	9
12-13	.0	.0	1.3	.0	.0	.4	.2	.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
>13	.0	.0	.0	.9	.0	.7	.0	.0	.2	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	14	14
INDET	3.3	2.4	5.6	3.1	2.4	1.8	.9	.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	5
TOTAL	19	48	78	75	80	58	43	17	21	1	6	1	2	1	0	0	0	0	0	450	6
PCT	4.2	10.7	17.3	16.7	17.8	12.9	9.6	3.8	4.7	.2	1.3	.2	.4	.2	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1928-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	5.8	1.2	1.2	2.1	22.5	.0	.0	30.7	9.1	.0	3.6	.0	.0	1.2		55.3
NE	10.5	.0	.0	.0	18.0	.0	.0	24.8	3.8	.0	.0	.0	.0	.0		71.4
E	12.7	.0	11.4	.0	20.3	.0	.0	39.2	8.9	.0	.0	.0	.0	5.1		46.8
SE	23.3	.0	4.1	.0	9.6	.0	.0	37.0	6.8	.0	8.2	.0	.0	.0		47.9
S	8.0	.0	2.9	.0	.0	.0	.0	10.9	.0	.0	13.1	.0	.0	.0		75.9
SW	5.0	1.5	3.1	.0	11.2	.0	.0	20.8	1.5	.0	.0	.0	1.5	.0		76.1
W	.7	.0	.0	.0	11.0	.0	.0	11.7	1.8	.0	.9	.0	.9	.9		83.8
NW	1.4	.0	.0	.8	16.5	.0	.0	18.6	6.8	.0	.0	.0	.6	.0		74.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	.0	.0	.0		50.0
TOT PCT	4.5	.4	1.3	.6	14.4	.0	.0	20.4	4.9	.0	2.4	.0	.6	.6		71.2
TOT OBS:	535															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.4	1.4	.7	.7	10.1	.0	.0	15.5	6.1	.0	2.7	.0	.7		.0	75.0
06&09	2.0	.0	.7	.7	15.8	.0	.0	19.1	5.9	.0	1.3	.0	.0		.7	73.0
12&15	6.9	.0	1.9	.0	18.2	.0	.0	25.8	3.8	.0	1.9	.0	.0		.6	67.9
18&21	4.8	.0	1.9	1.0	13.3	.0	.0	20.0	2.9	.0	4.8	.0	1.9		1.0	69.5
TOT PCT	4.3	.4	1.2	.5	14.5	.0	.0	20.2	4.8	.0	2.5	.0	.5		.5	71.5
TOT OBS:	564															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.4	8.5	2.5	1.5	.0		16.1	18.3	21.3	13.9	13.4	7.4	14.0	9.5	18.3	30.4
NE	.5	2.0	2.5	1.3	.2	.0		6.4	15.3	4.0	5.6	10.0	1.9	4.2	21.4	2.5	15.2
E	.2	1.7	1.5	.1	.0	.0		3.5	11.6	3.5	.0	4.2	1.9	3.6	2.4	6.3	.0
SE	.0	2.2	1.1	.3	.2	.0		3.7	13.2	4.5	3.7	1.6	5.6	3.8	2.4	5.4	4.3
S	.1	2.3	2.9	1.0	.6	.0		6.9	16.4	7.9	3.7	7.2	5.6	7.0	.0	10.8	2.2
SW	.3	4.9	4.3	1.4	.6	.4		12.0	15.9	5.9	20.4	7.9	25.9	18.2	4.8	12.1	6.5
W	.2	7.0	7.8	4.8	.0	.2		19.9	15.8	15.6	16.7	23.6	16.7	19.7	21.4	22.9	21.7
NW	1.5	5.5	13.9	8.4	1.3	.1		30.3	17.5	34.4	36.1	31.3	35.2	29.4	38.1	21.7	15.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.0							1.0	.0	3.0	.0	.9	.0	.0	.0	.0	4.3
TOT OBS	20	140	204	96	22	3	485		16.3	101	27	108	27	118	21	60	23
TOT PCT	4.1	28.9	42.1	19.8	4.5	.6		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.1	6.6	5.8	1.9	.8		16.1	18.3	19.7	12.2	13.3	21.7
NE	1.6	1.8	2.4	.4	.2		6.4	15.3	4.3	8.3	6.8	6.0
E	1.4	1.1	.9	.1	.0		3.5	11.6	2.7	3.7	3.4	4.5
SE	.6	2.0	.8	.4	.0		3.7	13.2	4.3	2.4	3.6	5.1
S	.9	2.8	2.4	.6	.2		6.9	16.4	7.0	6.9	5.9	8.4
SW	2.9	4.4	3.4	.7	.6		12.0	15.9	9.0	11.5	16.2	10.5
W	1.9	10.7	5.9	1.4	.2		19.9	15.8	15.8	22.2	20.0	22.6
NW	4.4	9.2	13.2	3.4	.1		30.3	17.5	34.8	32.0	30.8	19.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.0						1.0	.0	2.3	.7	.0	1.2
TOT OBS	77	187	169	42	10	485		16.3	128	135	139	83
TOT PCT	15.9	38.6	34.8	8.7	2.1		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1928-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.3	3.1	25.0	49.2	16.4	3.9	.0	15.6	100.0	128
06&09	.7	4.4	28.1	40.7	21.5	4.4	.0	16.1	100.0	135
12&15	.0	2.2	30.9	38.8	22.3	5.0	.7	16.8	100.0	139
18&21	1.2	2.4	32.5	38.6	18.1	4.8	2.4	17.1	100.0	83
TOT	5	15	140	204	96	22	3	16.3		485
PCT	1.0	3.1	28.9	42.1	19.8	4.5	.6		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.5	6.7	6.6		6.3
NE	.5	.5	1.2	3.6		6.6
E	.0	.3	.8	3.1		7.4
SE	.0	.0	.6	2.1		7.7
S	.8	.0	1.4	3.3		6.6
SW	2.2	1.5	3.8	4.2		5.4
W	4.9	3.0	7.5	6.1		5.0
NW	4.5	4.3	15.5	8.3		5.4
VAR	.0	.0	.0	.0		.0
CALM	.3	.0	.0	.8		6.0
TOT OBS	54	37	135	139	365	5.7
TOT PCT	14.8	10.1	37.0	38.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.8	.5	.3	.2	3.8	3.4	1.6	.5	.3	.0	3.7	
NE	.6	.0	.3	.3	2.3	.8	.5	.0	.0	.0	1.1	
E	1.2	.0	.0	.2	.7	1.5	.3	.0	.0	.0	.3	
SE	.8	.0	.0	.1	.6	.9	.1	.0	.0	.3	.0	
S	.5	.0	.0	.5	1.5	1.5	.5	.0	.2	.0	.8	
SW	1.4	.0	.3	.1	2.1	1.3	.5	.9	.3	.3	4.5	
W	1.7	.3	.5	1.4	2.7	3.5	1.8	.2	.2	.5	8.6	
NW	1.3	.1	.1	1.2	6.6	8.8	3.1	.3	.3	.0	10.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
TOT OBS	32	3	5	14	75	79	31	7	3	4	110	365
TOT PCT	8.8	.8	1.4	3.8	20.5	21.6	8.5	1.9	1.4	1.1	30.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) • OR >10	• OR >5	• OR >2	• OR >1	• OR >1/2	• OR >1/4	• OR >50YD	• OR >0
• OR >6500	.8	1.8	1.8	2.1	2.3	2.3	2.3	2.3
• OR >5000	2.3	3.4	3.6	3.9	4.1	4.1	4.1	4.1
• OR >3500	7.3	10.9	11.9	12.2	12.4	12.7	12.7	12.7
• OR >2000	16.6	26.7	31.6	32.4	33.2	33.7	33.9	33.9
• OR >1000	22.0	41.5	49.7	52.3	53.9	54.4	54.9	54.9
• OR >600	23.6	45.1	53.6	56.2	57.8	58.3	58.8	58.8
• OR >300	23.6	45.6	54.4	57.0	59.1	59.6	60.1	60.1
• OR >150	24.1	46.1	54.9	58.0	60.1	60.6	61.1	61.1
• OR > 0	24.9	48.2	58.0	63.0	66.1	68.4	70.2	70.5
TOTAL	96	186	224	243	255	264	271	272

TOTAL NUMBER OF OBS: 386

PCT FREQ NH <5/8: 29.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.4	2.1	5.7	6.4	3.2	6.9	12.2	12.6	33.0	8.5	436

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1928-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.7	.2	.3	.2	.0	.4	.5	1.0	.0	.0	3.4	
	NO PCP	.2	.0	.2	.0	.0	.2	.2	.0	.0	.4	1.1	
	TOT %	.8	.2	.5	.2	.0	.6	.7	1.0	.0	.4	4.5	
1/2<1	PCP	.8	.0	.1	.1	.0	.2	.7	.9	.0	.0	2.8	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	TOT %	1.0	.0	.1	.1	.0	.2	.7	.9	.0	.2	3.2	
1<2	PCP	.8	.3	.3	*	.0	.4	.1	1.0	.0	.0	3.0	
	NO PCP	.3	.0	.0	.0	.0	.0	.2	.8	.0	.0	1.3	
	TOT %	1.2	.3	.3	*	.0	.4	.3	1.8	.0	.0	4.3	
2<5	PCP	1.8	.6	.0	.4	.2	.9	.5	1.6	.0	.0	6.2	
	NO PCP	1.8	.3	.2	.4	.2	.4	.5	2.6	.0	.0	6.2	
	TOT %	3.6	.9	.2	.8	.4	1.4	1.0	4.3	.0	.0	12.4	
5<10	PCP	.5	.2	.7	.2	.5	.5	.4	1.3	.0	.0	4.3	
	NO PCP	2.9	2.3	.9	1.4	2.1	2.3	3.2	8.0	.0	.0	22.4	
	TOT %	2.7	2.5	1.6	1.6	2.6	2.8	3.6	9.3	.0	.0	26.7	
10+	PCP	.0	.0	.1	.3	.0	.2	.2	.0	.0	.0	.8	
	NO PCP	6.2	2.2	1.0	.3	2.9	6.7	14.2	13.9	.0	.6	48.0	
	TOT %	6.2	2.2	1.1	.6	2.9	6.9	14.4	13.9	.0	.6	48.8	
	TOT OBS												531
	TOT PCT	15.5	6.1	3.7	3.4	5.9	12.2	20.7	31.4	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.3	.1	.2	.3	.0	.0	.3	.2	.0		1.3	
	11-21	.4	.0	.0	.0	.0	.2	.2	.2	.0		1.0	
	22+	.2	.2	.0	.0	.0	.4	.4	.9	.0		2.1	
	TOT %	.9	.3	.2	.3	.0	.6	.9	1.3	.0	.4	4.8	
1/2<1	0-3	.2	.0	.0	.0	.0	.0	.0	.1	.0	.2	.4	
	4-10	.2	.0	.0	.0	.0	.2	.2	.2	.0		.8	
	11-21	1.0	.0	.0	.0	.0	.0	.2	.3	.0		1.5	
	22+	.0	.0	.1	.1	.0	.0	.2	.2	.0		.6	
	TOT %	1.4	.0	.1	.1	.0	.2	.6	.8	.0	.2	3.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.5	.2	.0	.0	.4	.1	.1	.0		1.3	
	11-21	.8	.1	.0	.0	.0	.0	.0	1.0	.0		1.9	
	22+	.3	.0	.0	.0	.0	.2	.0	.5	.0		1.0	
	TOT %	1.1	.5	.2	.0	.0	.6	.1	1.7	.0	.0	4.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.3	.1	.0	.4	.0	.5	.4	.8	.0		2.5	
	11-21	1.5	.6	.0	.4	.0	.3	.3	1.5	.0		4.6	
	22+	1.9	.3	.0	.2	.4	.6	.4	2.5	.0		6.3	
	TOT %	3.7	.9	.0	1.0	.4	1.5	1.1	5.0	.0	.0	13.6	
5<10	0-3	.1	.3	.0	.0	.0	.0	.0	.4	.0	.0	.8	
	4-10	.8	.9	.7	1.3	.4	.6	.9	1.2	.0		6.9	
	11-21	1.2	.7	1.2	.4	1.7	1.1	1.4	4.7	.0		12.4	
	22+	.5	.6	.0	.1	.8	.5	1.3	3.5	.0		7.3	
	TOT %	2.6	2.6	1.9	1.8	2.9	2.3	3.6	9.7	.0	.0	27.5	
10+	0-3	.0	.2	.2	.0	.1	.3	.2	.8	.0	.4	2.3	
	4-10	1.6	.5	.7	.2	1.5	3.2	4.9	3.2	.0		15.7	
	11-21	3.6	1.1	.3	.3	1.3	2.7	5.9	6.0	.0		21.2	
	22+	1.2	.2	.0	.0	.2	.7	2.6	2.4	.0		7.3	
	TOT %	6.3	2.0	1.2	.5	3.1	7.0	13.6	12.4	.0	.4	46.5	
	TOT OBS												477
	TOT PCT	16.0	6.3	3.6	3.7	6.4	12.2	19.9	30.8	.0	1.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1928-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	5.4	.9	2.7	2.7	24.1	27.7	8.9	1.8	1.8	.0	75.9	24.1	112
06&09	5.7	.8	.0	7.3	24.4	17.9	8.9	2.4	2.4	1.6	71.5	28.5	123
12&15	15.8	1.0	1.0	1.0	17.8	16.8	6.9	2.0	.0	2.0	64.4	35.6	101
18&21	14.5	1.8	1.8	3.6	10.9	23.6	9.1	.0	.0	.0	65.5	34.5	55
TOT	37	4	5	15	81	83	33	7	5	4	274	117	391
PCT	9.5	1.0	1.3	3.8	20.7	21.2	8.4	1.8	1.3	1.0	70.1	29.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.3	4.6	3.3	11.2	25.7	52.0	152
06&09	3.7	1.9	6.8	16.7	22.2	48.8	162
12&15	6.3	2.5	5.0	12.5	26.9	46.9	160
18&21	5.8	5.8	3.8	12.5	30.8	41.3	104
TOT	27	20	28	77	150	276	578
PCT	4.7	3.5	4.8	13.3	26.0	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 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	5.4	13.5	25.2	52.3	22.5	111
06&09	4.9	6.6	30.3	41.8	27.9	122
12&15	16.2	21.2	34.3	34.3	31.3	99
18&21	14.8	20.4	37.0	31.5	31.5	54
TOT	36	55	119	160	107	386
PCT	9.3	14.2	30.8	41.5	27.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	2.3	.0	1	2.3
45/49	.0	.0	.0	.0	2.3	.0	2.3	2.3	3	7.0
40/44	.0	.0	.0	.0	2.3	2.3	.0	.0	2	4.7
35/39	.0	.0	.0	.0	4.7	4.7	2.3	4.7	7	16.3
30/34	.0	.0	.0	2.3	11.6	2.3	7.0	2.3	11	25.6
25/29	.0	.0	.0	4.7	9.3	4.7	2.3	2.3	10	23.3
20/24	.0	.0	.0	4.7	7.0	2.3	2.3	.0	7	16.3
15/19	.0	.0	.0	.0	2.3	2.3	.0	.0	2	4.7
TOTAL	0	0	0	5	17	8	8	5	43	100.0
PCT	.0	.0	.0	11.6	39.5	18.6	18.6	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	1.7	.6	.0	.0
.0	2.3	.0	.0	.0	.0	4.7	.0	.0	.0
.0	.0	.0	.0	.0	.0	4.7	.0	.0	.0
2.3	2.9	4.1	.0	2.3	2.9	1.7	.0	.0	.0
2.3	.0	2.3	.0	1.7	5.2	13.4	.6	.0	.0
5.8	1.2	.0	.0	.0	.0	5.2	11.0	.0	.0
3.5	.0	.0	.0	1.7	.6	3.5	7.0	.0	.0
1.7	.0	.0	.0	.0	.0	1.7	1.2	.0	.0
15.7	6.4	6.4	.0	5.8	8.7	36.6	20.3	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	60	55	46	33	19	16	12	32.6	152
06&09	59	54	46	34	18	14	14	33.4	158
12&15	48	45	41	32	18	12	9	30.4	160
18&21	52	50	43	30	18	10	10	30.1	105
TOT	60	52	45	32	19	14	9	31.8	575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	16.7	50.0	8.3	8.3	16.7	71	12
06&09	.0	.0	25.0	16.7	41.7	16.7	80	12
12&15	.0	25.0	16.7	33.3	16.7	8.3	71	12
18&21	.0	.0	85.7	14.3	.0	.0	66	7
TOT	0	5	17	8	8	5	73	43

NOVEMBER

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1928-1974

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.4	.2	.0	.2	9	.0	1.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.2	.0	5	.0	1.0
6	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.2	.6	.4	.0	.0	.0	6	.0	1.1
4	.0	.0	.0	.0	.0	.0	.0	.6	.8	.0	.0	.2	.0	8	.0	1.5
3	.0	.0	.0	.0	.0	.0	.6	.2	.2	.4	.0	.0	.0	7	.0	1.3
2	.0	.0	.0	.0	.0	.2	.2	.4	.6	.2	.0	.0	.0	8	.0	1.5
1	.0	.0	.0	.0	.0	.0	.2	.8	.6	.4	.0	.0	.0	10	.0	1.9
0	.0	.0	.0	.0	.0	.6	1.5	1.9	.8	1.1	.0	.0	.0	31	.6	5.3
-1	.0	.0	.0	.0	.0	.2	1.1	.8	.2	.0	.0	.0	.0	12	.2	2.1
-2	.0	.0	.0	.0	.4	.6	1.7	1.5	1.3	.0	.0	.0	.0	29	.6	4.9
-3	.0	.0	.0	.0	.0	.2	1.3	1.1	1.3	.2	.0	.0	.0	22	.4	3.8
-4	.0	.0	.0	.0	.8	.8	3.0	1.7	1.0	.2	.0	.0	.0	39	.2	7.2
-5	.0	.0	.0	.0	1.1	.8	2.1	2.3	1.3	.2	.0	.0	.0	41	.0	7.8
-6	.0	.0	.0	.0	.2	.8	.6	.6	.2	.0	.0	.0	.0	12	.0	2.3
-7/-8	.0	.0	.0	.4	2.5	3.0	2.5	1.3	.4	.0	.0	.0	.0	53	.2	10.1
-9/-10	.0	.0	.0	.2	2.1	3.4	1.7	.6	.0	.0	.0	.0	.0	42	.6	7.4
-11/-13	.0	.0	1.1	2.9	4.2	4.0	1.5	.2	.0	.0	.0	.0	.0	77	.0	14.6
-14/-16	.0	.2	1.7	3.0	4.2	.0	.2	.0	.0	.0	.0	.0	.0	49	.0	9.3
-17/-19	.0	.4	1.5	1.9	1.0	.8	.0	.0	.0	.0	.0	.0	.0	29	.0	5.5
-20/-22	.0	.6	1.7	1.3	.2	.4	.2	.0	.0	.0	.0	.0	.0	23	.0	4.4
-23/-25	.2	.4	.6	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	9	.0	1.7
-26/-30	.4	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.8
TOTAL	3	8	35	53	88	88	97	75	53	20	3	2	1	526	14	512
PCT	.6	1.5	6.7	10.1	16.7	16.7	18.4	14.3	10.1	3.8	.6	.4	.2	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.3	.0	.0	.0	.6
1-2	.0	1.5	1.2	.0	.0	.0	2.7
3-4	.0	.3	3.4	.2	.0	.0	4.0
5-6	.0	.5	2.2	.3	.0	.0	3.0
7	.0	.0	2.3	.0	.0	.0	2.3
8-9	.0	.0	.3	.0	.3	.0	.6
10-11	.0	.0	.0	.7	.2	.0	1.0
12	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.9	.0	.9
23-25	.0	.0	.0	.0	.3	.0	.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
TOT PCT	.2	2.3	9.7	1.6	2.4	.0	16.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	.5	.2	.0	.0	.0	1.0
3-4	.0	.3	1.4	.3	.0	.0	2.0
5-6	.0	.0	.7	.3	.0	.0	1.0
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.8	1.4	.2	.3	.0	3.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.3	1.1	.6	.0	.0	.0	2.0
3-4	.0	.0	1.0	.0	.0	.0	1.0
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.5	2.3	.0	.0	.0	4.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.3	.0	.0	.0	.3
1-2	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.3	.0	.1	.0	.0	.4
5-6	.0	.3	.7	.1	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.3	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.3	.0	.0	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	1.4	.2	.3	.0	3.6

PERIOD: (OVER-ALL) 1963-1974

NOVEMBER

TABLE 18 (CONT)

AREA 0020 SAKHALIN ISLAND SE
48.8N 145.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.0	.3	.0	.0	.0	1.4
1-2	.0	.9	1.0	.0	.0	.0	1.9	.0	1.2	1.6	.0	.0	.0	2.8
3-4	.0	.0	1.0	.2	.0	.0	1.3	.0	.3	1.7	.3	.0	.0	2.3
5-6	.0	.0	1.0	.2	.0	.0	1.3	.0	.0	.9	.3	.0	.0	1.2
7	.0	.0	.9	.3	.0	.0	1.2	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.3	.0	.3	.0	.6	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.3	.3	.6	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	.3	.0	1.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.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
TOT PCT	.0	1.2	4.3	.8	.6	.0	6.9	.0	2.9	5.9	1.5	1.0	.6	11.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.4	.4	1.0	.0	.0	.0	1.8	
1-2	.0	2.1	1.8	.0	.0	.0	3.9	.0	.6	1.8	.0	.0	.0	2.4	
3-4	.0	1.7	3.9	.0	.0	.0	5.6	.0	1.2	4.1	.7	.0	.0	6.0	
5-6	.0	.2	2.0	1.0	.0	.0	3.3	.0	.6	3.9	2.2	.0	.0	6.6	
7	.0	.2	1.0	1.0	.0	.0	2.3	.0	.4	2.2	1.9	.3	.0	4.8	
8-9	.0	.0	.2	.7	.0	.0	1.0	.0	.0	1.7	1.8	.0	.0	3.5	
10-11	.0	.0	.3	1.5	.0	.0	1.8	.0	.0	.6	1.1	.7	.0	2.5	
12	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.3	.6	.0	.2	1.2	.0	.0	.6	.6	.3	.1	1.7	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	
TOT PCT	.0	5.4	9.6	5.6	.0	.2	20.9	.4	3.2	15.9	8.8	1.5	.1	29.8	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	3.2	1.9	.0	.0	.0	6.8	
1-2	.6	8.7	8.1	.0	.0	.0	17.4	
3-4	.0	4.2	16.5	1.9	.0	.0	22.6	
5-6	.0	1.6	11.9	4.5	.0	.0	18.1	
7	.0	.6	7.4	3.2	.3	.0	11.6	
8-9	.0	.0	3.2	2.6	.6	.0	6.5	
10-11	.0	.0	1.6	4.7	2.3	.0	8.1	
12	.0	.0	.3	1.3	.6	.0	2.3	
13-16	.0	.3	1.0	1.6	.3	.6	3.9	
17-19	.0	.3	.0	.3	.6	.0	1.3	
20-22	.0	.0	.0	.0	1.0	.0	1.0	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.3	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.3	19.0	51.9	19.7	6.1	1.0	100.0	310

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	5.7	6.6	6.9	4.7	.9	1.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
6-7	.0	.0	1.4	5.0	4.0	4.5	3.8	1.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	8
8-9	.0	.5	1.4	.9	1.2	1.9	2.1	.2	1.7	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	46	9
10-11	.0	.0	.7	.2	.7	1.7	.7	.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	22	9
12-13	.0	.0	.9	.2	.2	.5	.7	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	8
>13	.0	.0	.0	.0	.2	.0	.7	.2	.2	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	9	15
INDET	1.7	3.3	5.7	4.7	4.3	2.8	2.6	.7	2.1	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	122	6
TOTAL	10	40	71	76	65	52	51	12	30	9	4	1	1	1	0	0	0	0	0	423	7
PCT	2.4	9.5	16.8	18.0	15.4	12.3	12.1	2.8	7.1	2.1	.9	.2	.2	.2	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1937-1973

AREA 0020 SAKHALIN ISLAND SE
48.0N 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.5	.0	.0	.0	54.9	.0	.0	56.3	3.9	.0	.0	.0	.0	.0		39.8
NE	1.9	.0	.0	.0	41.5	.0	.0	41.5	22.6	.0	.0	.0	.0	.0		35.8
E	3.2	.0	.0	.0	46.3	.0	.0	46.3	7.4	.0	.0	.0	.0	.0		46.3
SE	.0	.0	5.9	5.9	30.9	.0	.0	42.6	7.4	.0	5.9	.0	.0	.0		44.1
S	.0	.0	.0	.0	23.3	.0	.0	23.3	10.0	.0	.0	.0	.0	.0		66.7
SW	.0	.0	.0	.0	22.9	.0	.0	22.9	1.8	.0	.9	.0	3.7	.0		70.6
W	.0	.9	.0	.0	22.6	.0	.0	23.5	6.1	.0	2.6	1.3	.0	1.7		64.8
NW	.3	.6	.0	.0	32.1	.0	.0	33.0	7.2	.0	1.4	.3	.0	.0		58.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	50.0	.0	.0	50.0	.0	.0	.0	.0	.0	.0		50.0
TOT PCT	.7	.3	.3	.3	34.9	.0	.0	36.3	6.6	.0	1.4	.3	.3	.3		54.7
TOT OBS:	289															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.0	.0	.0	.0	40.2	.0	.0	40.2	7.6	.0	2.2	.0	.0	1.1		48.9
06&09	1.1	1.1	.0	.0	29.7	.0	.0	31.9	4.4	.0	1.1	1.1	.0	.0		61.5
12&15	.0	.0	1.4	1.4	41.4	.0	.0	44.3	4.3	.0	1.4	.0	.0	.0		50.0
18&21	1.9	.0	.0	.0	29.6	.0	.0	29.6	9.3	.0	.0	.0	1.9	.0		59.3
TOT PCT	.7	.3	.3	.3	35.5	.0	.0	36.8	6.2	.0	1.3	.3	.3	.3		54.7
TOT OBS:	307															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	2.4	7.9	6.2	1.1	.0		17.6	20.4	24.0	8.3	20.5	12.5	7.4	.0	23.6	.0
NE	.0	.9	1.0	.5	.1	.0		2.5	15.6	3.1	.0	4.5	6.3	.5	.0	.7	.0
E	.4	1.6	1.2	2.8	.3	.0		6.3	18.7	3.5	8.3	4.9	.0	7.4	40.0	8.1	25.0
SE	.0	.8	.9	2.3	.1	.0		4.1	20.8	3.5	8.3	.0	7.8	5.6	20.0	2.7	25.0
S	.0	.0	2.0	1.2	.0	.0		3.2	19.9	3.8	.0	1.8	10.9	3.2	.0	2.0	.0
SW	.0	3.0	4.5	1.8	.0	.0		9.3	16.1	11.8	.0	11.2	.0	8.8	.0	10.1	.0
W	.4	4.5	11.5	4.7	1.5	.0		22.6	17.8	21.2	20.8	13.4	21.9	27.8	30.0	32.4	12.5
NW	.4	6.8	14.6	10.1	.9	.0		32.8	18.0	29.2	54.2	42.0	40.6	37.5	10.0	14.9	37.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	.0	.0	1.8	.0	1.9	.0	5.4	.0
TOT OBS	7	50	109	74	10	0	250		18.1	72	6	56	16	54	5	37	4
TOT PCT	2.8	20.0	43.6	29.6	4.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.2	5.3	6.7	4.4	.0		17.6	20.4	22.8	18.8	6.8	21.3
NE	.9	.5	.6	.5	.0		2.5	15.6	2.9	4.9	.4	.6
E	1.2	1.2	2.5	1.4	.0		6.3	18.7	3.8	3.8	10.2	9.8
SE	.4	.4	2.7	.6	.0		4.1	20.8	3.8	1.7	6.8	4.9
S	.0	.9	1.9	.4	.0		3.2	19.9	3.5	3.8	3.0	1.8
SW	1.3	3.6	3.6	.8	.0		9.3	16.1	10.9	8.7	8.1	9.1
W	1.5	8.8	9.8	2.5	.0		22.6	17.8	21.2	15.3	28.0	30.5
NW	4.3	9.7	14.2	4.6	.0		32.8	18.0	31.1	41.7	35.2	17.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.6						1.6	.0	.0	1.4	1.7	4.9
TOT OBS	31	76	105	38	0	250		18.1	78	72	59	41
TOT PCT	12.4	30.4	42.0	15.2	.0		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1937-1973

AREA 0020 SAKHALIN ISLAND SE
48.8N 146.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.3	17.9	41.0	35.9	3.8	.0	19.3	100.0	78
06&09	1.4	.0	25.0	47.2	22.2	4.2	.0	16.9	100.0	72
12&15	1.7	3.4	15.3	44.1	30.5	5.1	.0	18.7	100.0	59
18&21	4.9	.0	22.0	41.5	29.3	2.4	.0	17.0	100.0	41
TOT	4	3	50	109	74	10	0	18.1		250
PCT	1.6	1.2	20.0	43.6	29.6	4.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.3	7.0	10.2		7.0
NE	.0	.5	1.6	2.0		7.0
E	.5	.0	2.8	4.1		6.9
SE	.0	.0	1.9	2.3		7.1
S	.0	.0	.8	1.5		7.3
SW	2.3	.9	3.3	3.6		5.5
W	3.9	3.3	7.4	6.9		5.4
NW	2.2	2.0	13.6	12.4		6.2
VAR	.0	.0	.0	.0		.0
CALM	.0	.5	.0	.9		6.6
TOT OBS	19	18	82	94	213	6.3
TOT PCT	8.9	8.5	38.5	44.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.9	.0	.8	.8	6.5	3.9	1.9	.0	.5	.0	1.3	
NE	.1	.1	.0	.9	.7	1.3	.5	.0	.0	.0	.5	
E	1.8	.4	.5	.0	1.5	2.8	.0	.0	.0	.0	.5	
SE	1.1	.0	.0	.0	1.4	.8	.5	.0	.0	.0	.5	
S	.4	.0	.0	.4	.7	.9	.0	.0	.0	.0	.0	
SW	.0	.0	.0	.6	1.8	4.0	.6	.0	.0	.0	3.3	
W	2.0	.5	.9	.9	2.8	3.3	2.1	.0	.0	.0	8.9	
NW	4.0	.0	.1	2.0	8.1	8.3	.6	.0	.0	.5	6.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.5	
TOT OBS	26	2	5	12	50	56	13	0	1	1	47	213
TOT PCT	12.2	.9	2.3	5.6	23.5	26.3	6.1	.0	.5	.5	22.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.9	.9	.9	.9	.9	.9	.9	.9
* OR >5000	.9	.9	.9	.9	.9	.9	.9	.9
* OR >3500	4.5	6.4	7.3	7.3	7.3	7.3	7.3	7.3
* OR >2000	15.5	26.4	28.6	30.0	32.3	32.3	33.2	33.2
* OR >1000	20.0	37.3	44.1	48.6	53.2	54.5	55.9	55.9
* OR >600	21.4	40.9	49.5	54.1	59.5	60.9	62.3	62.3
* OR >300	21.8	42.3	52.3	56.8	62.3	63.6	65.0	65.0
* OR >150	21.8	42.3	52.3	56.8	62.7	64.1	65.5	65.5
* OR > 0	22.7	43.6	55.9	62.7	70.5	75.0	78.6	78.6
TOTAL	50	96	123	138	155	165	173	173

TOTAL NUMBER OF OBS: 220

PCT FREQ NH <5/8: 21.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.0	1.5	4.2	4.9	5.3	6.4	13.6	12.8	37.7	10.6	265

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1937-1973

AREA 0020 SAKHALIN ISLAND SE
48.8N 146.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	2.8	.1	.8	1.2	.0	1.1	1.2	2.8	.0	.0	9.0	
	NO PCP	.0	.0	.3	.7	.0	.0	.0	.3	.0	.0	1.4	
	TOT %	2.8	.1	1.1	1.9	.0	1.1	1.2	2.6	.0	.0	10.4	
1/2<1	PCP	1.0	.9	.9	.1	.3	.7	1.4	1.7	.0	.3	7.3	
	NO PCP	.3	.0	.0	.0	.0	.4	.6	.1	.0	.0	1.4	
	TOT %	1.2	.9	.9	.1	.3	1.1	2.0	1.8	.0	.3	8.7	
1<2	PCP	2.7	.3	.7	.1	.3	.0	.6	2.8	.0	.0	6.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
	TOT %	2.7	.3	.7	.1	.3	.0	.6	2.6	.0	.0	7.3	
2<5	PCP	2.0	.0	.6	1.1	.0	.0	1.6	2.8	.0	.3	8.0	
	NO PCP	.7	.3	.0	.1	.3	.4	1.6	1.5	.0	.0	4.9	
	TOT %	2.7	.3	.6	1.2	.3	.4	3.2	3.7	.0	.3	12.8	
5<10	PCP	1.8	.0	.3	.0	.0	.7	.0	1.0	.0	.0	3.8	
	NO PCP	2.8	1.1	1.2	1.2	.8	2.8	4.9	7.3	.0	.3	22.2	
	TOT %	4.0	1.1	1.6	1.2	.8	3.5	4.9	8.6	.0	.3	26.0	
10+	PCP	.4	.3	.0	.0	.0	.0	.2	.8	.0	.0	1.4	
	NO PCP	4.9	1.2	2.9	1.4	1.0	3.6	7.8	10.8	.0	.3	33.3	
	TOT %	4.9	1.6	2.9	1.4	1.0	3.6	8.0	11.0	.0	.3	34.7	
	TOT OBS												288
	TOT PCT	17.9	4.3	7.7	5.9	2.6	9.8	20.0	30.4	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.4	.0	.0	.0		.4	
	11-21	.8	.0	.0	.0	.0	.9	.7	1.3	.0		3.8	
	22+	1.1	.0	1.0	1.5	.0	.0	.4	1.8	.0		5.8	
	TOT %	2.0	.0	1.0	1.5	.0	1.4	1.1	3.0	.0	.0	10.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.0	.0	.0	.0	.0	.5	.3	.0	.0		.8	
	11-21	.4	.0	.0	.0	.4	.0	1.3	1.3	.0		3.3	
	22+	.4	.4	.4	.0	.0	.4	.4	.8	.0		2.9	
	TOT %	.8	.4	.4	.0	.4	.9	2.0	2.1	.0	.4	7.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
	4-10	.4	.0	.0	.0	.0	.0	.2	.2	.0		.8	
	11-21	.3	.4	.4	.0	.0	.0	.4	1.8	.0		3.3	
	22+	2.1	.0	.0	.0	.0	.0	.3	.9	.0		3.3	
	TOT %	2.8	.4	.4	.0	.0	.0	1.4	2.9	.0	.0	7.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
	4-10	.3	.0	.0	.0	.0	.1	1.4	1.1	.0		2.9	
	11-21	1.5	.0	.4	.5	.3	.0	.8	1.9	.0		5.4	
	22+	1.5	.0	.3	.9	.0	.4	2.0	1.6	.0		6.7	
	TOT %	3.2	.0	.7	1.5	.3	.5	4.2	4.6	.0	.4	15.4	
5<10	0-3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.8	
	4-10	.7	.5	.0	.4	.0	.8	.7	1.4	.0		4.6	
	11-21	2.6	.0	.0	.0	.9	2.4	2.8	5.0	.0		13.8	
	22+	1.1	.0	.7	.1	.0	.1	1.4	3.2	.0		6.7	
	TOT %	4.5	.5	1.1	.5	.9	3.3	4.9	9.6	.0	.4	25.8	
10+	0-3	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.8	
	4-10	1.0	.4	1.7	.4	.0	1.3	2.1	4.4	.0		11.3	
	11-21	2.6	.6	.4	.4	.4	1.4	3.1	3.6	.0		14.6	
	22+	.4	.0	.4	.0	.4	.5	2.0	2.9	.0		6.7	
	TOT %	4.1	1.0	2.5	.8	.8	3.1	9.2	11.4	.0	.4	33.3	
	TOT OBS												240
	TOT PCT	17.4	2.4	6.3	4.3	2.5	9.3	22.7	33.5	.0	1.7	100.0	

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1937-1973

AREA 0020 SAKHALIN ISLAND SE
48.8N 146.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	12.8	.0	2.6	7.7	23.1	26.9	7.7	.0	.0	.0	80.8	19.2	78
06&09	6.9	2.8	5.6	6.9	23.6	23.6	5.6	.0	1.4	1.4	77.8	22.2	72
12&15	23.9	.0	.0	4.3	21.9	23.9	6.5	.0	.0	.0	82.6	17.4	46
18&21	10.3	.0	.0	3.4	13.8	31.0	3.4	.0	.0	.0	62.1	37.9	29
TOT	29	2	6	14	50	58	14	0	1	1	175	50	225
PCT	12.9	.9	2.7	6.2	22.2	25.8	6.2	.0	.4	.4	77.8	22.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	12.8	7.4	5.3	12.8	24.5	37.2	94
06&09	6.7	8.9	4.4	11.1	26.7	42.2	90
12&15	12.3	8.2	15.1	16.4	26.0	21.9	73
18&21	9.3	9.3	5.6	24.1	24.1	27.8	54
TOT	32	26	23	47	79	104	311
PCT	10.3	8.4	7.4	15.1	25.4	33.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	12.8	21.8	42.3	39.7	17.9	78
06&09	7.2	24.6	37.7	42.0	20.3	69
12&15	23.9	32.6	52.2	30.4	17.4	46
18&21	11.1	25.9	44.4	29.6	25.9	27
TOT	29	56	95	82	43	220
PCT	13.2	25.5	43.2	37.3	19.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	8.7	.0	.0	.0	2	8.7
40/44	.0	.0	.0	.0	.0	4.3	.0	4.3	2	8.7
35/39	.0	.0	.0	.0	.0	.0	8.7	8.7	4	17.4
30/34	.0	.0	.0	.0	8.7	.0	8.7	21.7	9	39.1
25/29	.0	.0	.0	.0	.0	8.7	.0	8.7	4	17.4
20/24	.0	.0	.0	.0	.0	4.3	4.3	.0	2	8.7
TOTAL	0	0	0	0	4	4	5	10	23	100.0
PCT	.0	.0	.0	.0	17.4	17.4	21.7	43.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
3.3	4.3	.0	.0	.0	.0	.0	1.1	.0	.0
3.3	.0	.0	.0	.0	.0	3.3	2.2	.0	.0
.0	.0	.0	5.4	7.6	4.3	.0	.0	.0	.0
8.7	.0	3.3	1.1	4.3	.0	8.7	13.0	.0	.0
.0	.0	.0	.0	.0	4.3	10.9	2.2	.0	.0
.0	.0	.0	.0	.0	.0	4.3	4.3	.0	.0
15.2	4.3	3.3	6.5	12.0	8.7	27.2	22.8	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	52	46	37	25	13	3	3	25.4	92
06&09	54	53	39	28	14	10	10	27.5	95
12&15	50	49	36	24	12	5	5	24.5	72
18&21	50	49	36	23	12	0	0	24.4	56
TOT	54	50	37	25	14	3	0	25.7	315

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	25.0	25.0	50.0	87	4
06&09	.0	.0	11.1	22.2	11.1	55.6	86	9
12&15	.0	.0	25.0	.0	75.0	.0	83	4
18&21	.0	.0	33.3	16.7	.0	50.0	82	6
TOT	0	0	4	4	5	10	84	23

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1937-1973

TABLE 17

AREA 0020 SAKHAL'N ISLAND SE
48.8N 146.0E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	W FOG	WO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	2	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0	.4	.0	.0	4	.0	1.5
1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	5	.0	1.8
0	.0	.0	.0	.0	.0	.0	.0	2.2	1.8	.7	.0	.0	.0	.4	14	.4	4.8
-1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.4	.0	3	.0	1.1
-2	.0	.0	.0	.0	.0	.0	.0	1.1	2.6	.0	.4	.0	.0	.0	11	.0	4.0
-3	.0	.0	.0	.0	.0	.0	.7	1.5	.7	.0	.0	.0	.4	.0	9	.0	3.3
-4	.0	.0	.0	.0	.0	.0	1.8	1.5	1.5	.0	.0	.0	.0	.0	13	.0	4.8
-5	.0	.0	.0	.0	.0	.0	4.0	3.3	.0	.0	.0	.0	.0	.0	20	.0	7.3
-6	.0	.0	.0	.0	.0	.0	1.5	.0	.4	.0	.0	.0	.0	.0	5	.0	1.8
-7/-8	.0	.0	.0	.0	.0	1.5	4.8	1.8	.0	.0	.0	.0	.0	.0	22	.4	7.7
-9/-10	.0	.0	.0	.0	.0	4.4	3.3	1.8	.0	.0	.0	.0	.0	.0	26	.0	9.5
-11/-13	.0	.0	.0	.0	5.1	8.1	6.2	.4	.4	.0	.0	.0	.0	.0	55	.7	19.4
-14/-16	.0	.0	.0	.7	3.7	7.0	1.1	.0	.4	.0	.0	.0	.0	.0	35	.0	12.8
-17/-19	.0	.0	.0	1.8	1.8	1.5	1.1	.4	.0	.0	.0	.0	.0	.0	18	.0	6.6
-20/-22	.0	.0	1.1	1.8	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	13	.0	4.8
-23/-25	.0	.0	1.1	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	7	.0	2.6
-26/-30	.0	.0	.7	.4	.4	.7	.0	.4	.0	.0	.0	.0	.0	.0	7	.0	2.6
<-30	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	2	0	8	14	35	64	69	39	27	9	2	1	2	1	273	4	269
PCT	.7	.0	2.9	5.1	12.8	23.4	25.3	14.3	9.9	3.3	.7	.4	.7	.4	100.0	1.5	98.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.6	.0	.0	.0	.6
1-2	.0	.0	2.2	.0	.0	.0	2.2
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	1.6	.9	1.0	.0	3.5
7	.0	.0	1.0	.9	.0	.0	1.9
8-9	.0	.0	1.5	1.2	.6	.0	3.2
10-11	.0	.0	.0	2.9	.0	.0	2.9
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	8.3	6.3	1.6	.0	16.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.6	.0	.0	.0	.6
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.0	.0	.6	.1	.0	.7
7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.7	.7	.1	.0	1.6

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.0	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.6	1.2	.0	.0	.0	1.7
5-6	.0	.0	.6	.6	.0	.0	1.2
7	.0	.0	.0	2.0	.0	.0	2.0
8-9	.0	.0	.0	.6	.4	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.6	1.7	3.2	.4	.0	6.5

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	.6	.1	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	.6	1.3	.1	.0	2.6

PERIOD: (OVER-ALL) 1963-1973

DECEMBER

TABLE 18 (CONT)

AREA 0020 SAKHALIN ISLAND SE
48.8N 146.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.9	.0	.0	.0	.9
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.6	.0	.0	1.2
8-9	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.6	.0	.0	.6
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	2.0	1.7	.0	.0	3.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.2	.9	.0	.0	.0	2.0
3-4	.0	.0	3.6	.1	.0	.0	3.8
5-6	.0	.7	.7	.0	.0	.0	1.5
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.0	.0	.0	.6
12	.0	.0	.0	1.2	.0	.0	1.2
13-16	.0	.0	.0	1.2	.0	.0	1.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	6.4	2.5	.0	.0	11.3

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.6	.0	.0	.0	.6
1-2	.0	1.6	1.2	.0	.0	.0	2.8
3-4	.0	.4	4.5	.4	.0	.0	5.4
5-6	.0	.4	4.9	2.6	.4	.0	8.4
7	.0	.0	1.2	.0	.6	.0	1.7
8-9	.0	.0	.6	1.2	.0	.0	1.7
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.6	.0	.6
17-19	.0	.0	.0	1.2	.0	.0	1.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	12.9	6.4	1.6	.0	23.4

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	.7	3.6	.0	.0	.0	4.4	
3-4	.0	.7	4.8	.6	.0	.0	6.1	
5-6	.0	1.2	3.8	2.3	.7	.0	8.0	
7	.0	.0	3.1	3.2	.0	.0	6.3	
8-9	.0	.0	.3	2.9	.0	.0	3.2	
10-11	.0	.0	1.7	.7	.0	.0	2.5	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.6	.0	.0	.6	
17-19	.0	.0	.0	.0	.6	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.2	17.3	11.6	1.3	.0	33.4	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	1.7	1.2	.0	.0	.0	4.7	
1-2	.0	3.5	9.3	.0	.0	.0	12.8	
3-4	.0	1.7	16.3	1.2	.0	.0	19.2	
5-6	.0	2.3	12.2	7.0	2.3	.0	23.8	
7	.0	.0	6.4	7.6	.6	.0	14.5	
8-9	.0	.0	2.3	7.0	1.2	.0	10.5	
10-11	.0	.0	2.3	4.7	.0	.0	7.0	
12	.0	.0	.0	3.5	.0	.0	3.5	
13-16	.0	.0	.0	1.7	.6	.0	2.3	
17-19	.0	.0	.0	1.2	.6	.0	1.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.7	9.3	50.0	33.7	5.2	.0	100.0	172

PERIOD: (OVER-ALL) 1959-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	3.5	5.9	5.5	3.5	1.6	1.6	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	5
6-7	.4	.4	3.1	3.9	4.7	4.7	2.7	.8	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	7
8-9	.0	.0	.4	1.2	3.1	2.0	.8	1.6	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	9
10-11	.0	.0	.0	2.0	.8	.8	.8	1.2	.8	.8	.0	.0	.4	.4	.0	.0	.0	.0	.0	20	12
12-13	.0	.0	.8	1.2	.4	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.4	.4	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDET	1.6	2.0	4.3	7.8	7.1	4.3	2.4	.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	6
TOTAL	5	15	37	56	51	34	24	12	13	6	0	0	1	1	0	0	0	0	0	255	7
PCT	2.0	5.9	14.5	22.0	20.0	13.3	9.4	4.7	5.1	2.4	.0	.0	.4	.4	.0	.0	.0	.0	.0	100.0	

JANUARY, APRIL - DECEMBER

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	5.0	2.0	1.6	.2	15.6	.1	.0	24.2	3.0	.0	15.0	.9	.2	.3		56.4
NE	9.1	.3	2.2	.0	10.8	.0	.0	21.7	4.8	.0	16.8	.2	.6	.3		55.6
E	11.0	.2	4.7	.0	8.5	.3	.0	23.7	4.9	.0	16.1	.8	.1	1.2		53.2
SE	9.2	.2	3.1	.6	8.4	.0	.0	21.2	3.6	.0	20.0	.7	.9	.4		53.2
S	4.5	.2	3.6	.0	7.7	.0	.0	15.9	1.2	.0	16.2	.4	.6	.1		65.7
SW	3.1	.2	.8	.0	7.2	.0	.0	11.3	.9	.1	14.4	.1	.8	*		72.3
W	1.2	.1	.9	.0	7.0	.0	.0	9.0	2.2	.0	10.5	.5	.5	.3		77.1
NW	1.9	.3	1.3	.1	8.9	.4	.0	12.9	4.0	.0	12.6	.1	.4	1.1		68.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	2.7	.2	.5	.0	10.0	.0	.0	13.4	.6	.0	30.4	.9	.2	.0		54.5
TOT PCT	4.9	.3	1.7	.1	9.5	.1	.0	16.4	3.1	*	15.7	.5	.6	.4		63.2
TOT OBS:	5492															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	4.0	.4	1.5	.1	10.0	.1	.0	15.8	3.1	.0	16.4	.5	1.0	.3		62.9
06&09	4.5	.3	1.1	.1	9.3	.3	.0	15.5	3.0	.0	13.9	.7	.5	.8		65.7
12&15	5.1	.1	2.1	.1	10.2	.3	.0	17.7	2.6	.1	14.4	.3	.2	.4		64.3
18&21	5.6	.5	2.2	.1	8.9	.0	.0	17.0	4.0	.0	17.3	.6	.6	.3		60.2
TOT PCT	4.8	.3	1.7	.1	9.6	.2	.0	16.5	3.1	*	15.5	.5	.6	.5		63.4
TOT OBS:	5753															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.9	1	2.6	1.9	.6	*		13.2	13.3	13.8	13.2	14.6	11.1	10.7	10.0	15.6	13.1
NE	1.2	.6	5	1	.4	.0		10.0	12.8	8.6	12.2	9.0	7.4	10.3	9.2	10.3	10.3
E	.9	3	5.1		.4	*		7.4	12.3	8.9	5.3	5.6	4.1	8.4	8.8	8.1	9.5
SE	1.1	3	5		.2	.0		10.2	12.8	10.9	10.4	11.0	9.7	10.8	10.1	11.4	8.2
S	2.1	5	7	.9	.3	*		17.5	13.6	16.1	17.4	16.0	20.5	17.0	24.0	16.6	15.8
SW	1.2	4	1	1.1	.2	*		12.3	12.6	11.1	11.8	10.9	12.6	13.0	12.6	11.8	13.5
W	1.1	4	3.9	1.9	.4	*		11.5	12.9	11.6	7.9	12.4	11.1	11.1	13.7	11.5	11.7
NW	.9	4.2	5.8	3.2	.5	*		14.5	13.1	14.7	17.7	16.4	21.9	14.0	10.8	10.8	15.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4							3.4	.0	4.2	4.1	4.2	1.6	4.6	.8	3.9	2.1
TOT OBS							5378		12.8	1024	496	857	508	936	465	600	492
TOT PCT	12.9	36.8	34.1	13.4	2.7	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.0	5.3	3.4	1.4	.1		13.2	13.3	13.6	13.7	10.7	15.3
NE	3.0	3.8	2.5	.5	.1		10.0	12.8	9.8	9.3	9.9	11.3
E	2.7	2.8	1.5	.4	*		7.4	12.3	8.2	5.2	8.0	8.4
SE	3.1	4.1	2.1	.9	*		10.2	12.8	10.9	10.3	10.3	8.8
S	5.8	7.5	3.5	.7	.1		17.5	13.6	16.9	18.1	18.3	16.4
SW	3.8	5.4	2.6	.4	.1		12.3	12.6	11.6	11.5	13.5	12.6
W	2.9	4.7	2.9	.9	.1		11.5	12.9	10.5	12.1	11.9	12.2
NW	3.1	5.2	4.5	1.6	.1		14.5	13.1	14.6	16.6	14.0	11.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.4						3.4	.0	4.0	3.2	3.3	3.3
TOT OBS						5378		12.8	1520	1365	1401	1092
TOT PCT	30.7	38.8	23.0	6.7	.7		100.0		100.0	100.0	100.0	100.0

JANUARY, APRIL - DECEMBER

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS) CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.0	8.6	36.9	35.1	13.5	1.9	.1	12.6	100.0	1520
06&09	3.2	9.0	36.6	34.2	13.4	3.6	.0	13.1	100.0	1365
12&15	3.3	9.4	37.4	33.7	12.9	2.9	.3	13.0	100.0	1401
18&21	3.3	11.5	35.0	33.4	14.1	2.4	.3	12.7	100.0	1092
TOT								12.8		5378
PCT	3.4	9.5	36.8	34.1	13.4	2.7	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.6	4.9	7.5		6.8
NE	.8	.4	2.2	6.1		6.8
E	.8	.3	1.7	5.9		6.7
SE	1.3	.5	1.7	7.0		6.5
S	3.4	1.1	3.0	8.0		5.9
SW	2.7	1.3	3.1	4.0		5.4
W	2.8	1.3	3.2	4.2		5.5
NW	2.6	1.6	5.5	6.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	1.3	.3	.6	2.2		5..
TOT OBS					3151	6.0
TOT PCT	16.7	7.4	25.3	50.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.9	.2	.3	.9	3.1	2.8	1.3	.3	.3	.1	2.2	
NE	1.7	.1	.1	.6	1.6	2.9	.6	.1	.1	.1	1.5	
E	1.8	.1	.2	.3	1.6	2.3	.5	.0	.1	.1	1.4	
SE	2.7	*	.3	.3	1.5	2.7	.5	.1	.1	.1	2.3	
S	3.0	.3	.4	.7	1.4	2.7	.8	.1	.2	.3	5.5	
SW	1.8	.1	.1	.3	1.5	1.5	.7	.2	.3	.3	4.5	
W	1.0	.1	.2	.6	1.4	2.2	.9	.1	.1	.2	4.7	
NW	1.7	*	.1	.6	3.6	3.3	1.2	.2	.1	.1	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3	.1	*	*	.5	.5	*	*	.1	.1	1.7	
TOT OBS												3151
TOT PCT	17.1	.9	1.7	4.4	16.2	21.0	6.4	1.0	1.3	1.3	28.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >.50YD	* OR >0
* OR >6300	1.6	2.3	2.4	2.7	2.7	2.7	2.7	2.7
* OR >5000	2.3	3.2	3.5	3.7	3.8	3.8	3.8	3.8
* OR >3500	5.8	8.4	9.5	9.9	10.1	10.3	10.3	10.3
* OR >2000	14.8	24.6	29.0	30.4	31.1	31.4	31.7	31.7
* OR >1000	19.4	36.8	42.0	44.7	46.3	46.8	47.4	47.5
* OR >600	20.4	37.1	45.3	48.7	50.4	51.1	51.7	51.8
* OR >300	20.6	37.9	46.7	50.2	52.2	52.9	53.5	53.6
* OR >150	20.9	38.5	47.4	50.9	53.0	53.6	54.3	54.4
* OR > 0	21.4	39.9	50.6	55.7	59.2	64.1	70.5	71.5

TOTAL NUMBER OF OBS: 3293

PCT FREQ NH <5/8: 28.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.1	3.2	5.4	4.0	3.7	5.3	8.2	9.2	34.1	15.9	3577

JANUARY, APRIL - DECEMBER

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.8	.4	.3	.3	.3	.3	.3	.4	.0	*	2.9	
	NO PCP	.8	.9	1.0	1.6	2.2	1.4	.4	.7	.0	.9	9.9	
	TOT %	1.3	1.3	1.3	1.8	2.5	1.8	.7	1.1	.0	.9	12.7	
1/2<1	PCP	.5	.3	.2	.2	.1	.1	.2	.6	.0	.1	2.2	
	NO PCP	.1	.2	.3	.3	.2	.2	.1	.1	.0	.1	1.6	
	TOT %	.6	.5	.4	.6	.3	.3	.3	.6	.0	.2	3.8	
1<2	PCP	.9	.5	.3	.3	.3	.2	.2	.6	.0	*	3.2	
	NO PCP	.3	.3	.2	.3	.3	.2	.1	.4	.0	.1	2.1	
	TOT %	1.2	.8	.5	.6	.5	.4	.3	1.0	.0	.1	5.3	
2<5	PCP	1.2	.9	.6	.5	.4	.2	.3	.5	.0	.1	4.6	
	NO PCP	1.0	1.1	.4	.8	.9	.4	.7	1.0	.0	.1	6.5	
	TOT %	2.1	2.0	1.0	1.3	1.4	.6	.9	1.5	.0	.2	11.1	
5<10	PCP	.6	.2	.4	.3	.5	.2	.1	.5	.0	*	3.0	
	NO PCP	2.2	1.9	1.6	2.2	3.3	2.4	2.1	3.4	.0	.6	19.6	
	TOT %	2.9	2.1	2.0	2.5	3.8	2.6	2.3	3.9	.0	.6	22.6	
10+	PCP	.1	.1	*	.1	*	*	.1	.1	.0	.0	.5	
	NO PCP	4.8	3.3	2.9	3.4	8.2	6.5	6.7	6.9	.0	1.7	43.9	
	TOT %	4.9	3.4	2.9	3.5	8.2	6.5	6.7	6.8	.0	1.7	44.5	
	TOT OBS												5460
	TOT PCT	13.0	10.1	8.1	10.3	16.8	12.0	11.4	14.7	.0	3.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.3	.1	.2	.3	.3	.1	.1	.0	.8	2.4	
	4-10	.5	.4	.6	1.0	1.5	1.0	.5	.3	.0		5.8	
	11-21	.5	.4	.3	.5	.9	.7	.2	.4	.0		3.9	
	22+	.2	.2	.2	.4	.1	.1	.2	.3	.0		1.7	
	TOT %	1.4	1.3	1.3	2.1	2.7	2.0	1.0	1.2	.0	.8	13.8	
1/2<1	0-3	.1	.1	.1	.1	*	*	.0	*	.0	.2	.6	
	4-10	.2	.2	.1	.2	.2	.1	.1	*	.0		1.1	
	11-21	.2	.1	*	*	.2	*	.2	.2	.0		1.0	
	22+	.1	.1	.1	.3	*	*	.1	.3	.0		1.1	
	TOT %	.6	.5	.3	.5	.4	.3	.3	.6	.0	.2	3.7	
1<2	0-3	.1	.1	*	.1	.1	.1	.1	.2	.0	.2	.8	
	4-10	.2	.3	.2	.3	.4	.2	.1	.1	.0		1.7	
	11-21	.5	.3	.2	.1	.2	*	.2	.6	.0		2.1	
	22+	.5	.2	*	.2	.2	.2	*	.2	.0		1.5	
	TOT %	1.3	.9	.4	.7	.8	.4	.4	1.0	.0	.2	6.0	
2<5	0-3	.1	.2	*	.1	.2	.1	.1	*	.0	.2	1.0	
	4-10	.5	.7	.3	.4	.6	.4	.4	.5	.0		3.8	
	11-21	1.1	.7	.3	.3	.7	.2	.2	.6	.0		4.2	
	22+	.6	.6	.4	.7	.1	.1	.4	.6	.0		2.6	
	TOT %	2.3	2.2	1.0	1.4	1.6	.9	1.1	1.8	.0	.2	12.6	
5<10	0-3	.1	.1	.1	.2	.4	.1	.2	.2	.0	.5	2.0	
	4-10	.8	.6	.6	.9	1.2	1.0	.6	1.0	.0		6.7	
	11-21	1.2	.9	.7	1.0	1.6	.9	.8	1.5	.0		8.6	
	22+	.7	.4	.2	.2	.6	.3	.5	1.1	.0		4.0	
	TOT %	2.9	1.9	1.7	2.3	3.7	2.3	2.1	3.9	.0	.5	21.3	
10+	0-3	.4	.5	.5	.6	1.2	.6	.6	.4	.0	1.5	6.2	
	4-10	1.9	1.4	1.5	1.6	3.9	2.9	2.6	2.2	.0		18.0	
	11-21	2.0	1.2	.6	.9	2.7	2.4	2.2	2.2	.0		14.3	
	22+	.4	.2	.1	.2	.4	.4	1.2	1.2	.0		4.0	
	TOT %	4.7	3.3	2.6	3.3	8.2	6.3	6.6	6.1	.0	1.5	42.6	
	TOT OBS												5258
	TOT PCT	13.1	10.0	7.3	10.3	17.4	12.2	11.6	14.6	.0	3.4	100.0	

JANUARY, APRIL - DECEMBER

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	15.4	.6	2.4	4.2	16.8	25.0	6.2	.9	1.4	1.2	74.2	25.8	1073
06&09	14.4	1.9	1.7	5.4	17.3	21.6	7.6	.9	1.2	1.7	73.8	26.2	907
12&15	20.0	.1	1.5	3.0	14.1	17.4	6.3	1.2	1.4	.9	65.9	34.1	849
18&21	19.5	.4	.9	4.2	16.2	18.5	4.7	1.2	1.1	1.6	68.3	31.7	552
TOT													3381
PCT	17.0	.8	1.8	4.3	15.9	21.0	6.4	1.1	1.4	1.3	71.0	29.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	13.1	4.2	5.2	11.6	20.8	45.2	1739
06&09	12.6	3.4	6.4	10.4	19.3	47.9	1560
12&15	14.2	3.8	7.0	14.4	22.0	38.6	1602
18&21	15.2	3.9	5.7	15.0	24.7	35.4	1236
TOT							6137
PCT	13.7	3.8	6.1	12.7	21.5	42.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	15.4	22.1	36.8	38.9	24.2	1053
06&09	14.7	21.2	35.5	39.8	24.8	886
12&15	20.4	25.8	41.7	28.3	30.0	821
18&21	19.2	24.3	41.8	30.3	27.9	533
TOT						3293
PCT	17.1	23.3	38.7	34.8	26.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.1	.0	.0	.0		.3
75/79	.0	.0	.0	.0	.0	.0	.1	.3		.4
70/74	.0	.0	.4	.0	.0	.1	.1	.1		.8
65/69	.0	.0	.0	.0	.0	.1	.0	.2		.3
60/64	.0	.7	.0	.0	.1	.4	.9	.2		2.3
55/59	.0	.0	2.0	.4	.7	.0	2.8	2.7		8.6
50/54	.0	.0	.5	.4	1.1	1.6	5.2	8.2		17.0
45/49	.0	.2	.0	.2	1.2	2.5	5.8	7.1		17.2
40/44	.0	.0	.0	1.2	1.8	2.5	1.4	6.9		13.9
35/39	.0	.0	.0	.0	.9	.9	2.9	5.6		10.2
30/34	.0	.0	.0	.2	2.0	1.9	2.6	7.2		14.0
25/29	.0	.0	.0	.5	1.3	3.8	2.8	1.6		10.0
20/24	.0	.0	.0	.5	.7	1.1	.7	.0		2.9
15/19	.0	.0	.4	.6	1.1	.0	.0	.0		2.1
TOTAL									362	100.0
PCT	.0	1.0	2.9	3.9	10.7	16.1	25.4	40.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.2	.0	.0	.0	.0
.0	.0	.3	*	.0	.1	.0	.0	.0	.0
.1	.1	.1	.4	.1	.0	.0	*	.0	.0
.0	.0	.0	.0	.3	*	.0	.0	.0	.0
.2	.0	.4	.1	.6	.4	.4	.2	.0	.0
.3	1.2	.8	.5	3.0	1.3	.7	*	.0	.7
2.4	1.5	3.4	2.8	1.4	2.3	1.3	1.5	.0	.5
1.8	1.2	1.1	1.8	4.4	2.2	1.5	2.4	.0	.7
1.2	1.4	2.4	2.0	2.0	1.1	2.6	1.0	.0	.0
1.8	1.5	1.6	.5	1.2	1.3	1.2	1.2	.0	.0
4.1	1.3	.6	1.0	.6	1.5	2.2	2.7	.0	.0
4.0	1.8	.0	.0	.0	.4	1.6	2.2	.0	.0
.7	.0	.0	.0	.2	.1	.8	1.2	.0	.0
.2	.0	.0	.0	.0	.0	.2	1.8	.0	.0
16.7	9.9	10.6	9.2	14.0	11.0	12.4	14.3	.0	1.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	79	61	55	42	31	25	0	47.4	1737
06&09	84	61	53	43	32	27	10	47.7	1567
12&15	72	56	50	40	29	23	5	45.1	1604
18&21	83	60	51	40	29	23	0	45.5	1247
TOT	84	60	53	41	31	24	0	46.5	6155

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	11.1	10.1	20.1	19.0	39.8	83	116
06&09	.0	11.9	14.0	13.3	31.4	29.3	83	88
12&15	.0	6.3	8.2	21.6	24.0	39.9	83	92
18&21	.0	5.1	13.9	7.5	31.8	41.6	85	77
TOT	0	31	38	53	84	167	83	373

JANUARY, APRIL - DECEMBER

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
>30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	1	.0	*
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	*	.0	*	*	15	*	.2
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	*	*	9	*	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	*	*	*	*	*	11	*	.1
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	*	.1	*	.1	*	*	*	.0	28	.1	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.1	.2	.1	.1	*	*	.0	66	.1	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.2	.2	.2	.3	.1	.1	.1	.0	.0	107	.3	1.1
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.3	.4	.3	.3	.2	.2	*	*	*	.0	139	.3	1.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.8	.6	.5	.3	.5	.2	.1	.0	.0	.0	227	1.0	2.5
6	.0	.0	.0	.0	.0	.0	.0	.0	*	.1	.2	.1	.2	.2	.1	.1	.1	*	.0	.0	.0	86	.2	1.0
5	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	1.2	1.1	.5	.5	.7	.6	.1	.1	.0	.0	.0	304	1.0	4.1
4	.0	.0	.0	.0	.0	.0	.0	.0	.8	1.0	.8	1.3	.8	.7	.7	.6	.2	*	.0	.0	.0	410	1.5	5.5
3	.0	.0	.0	.0	.0	.0	.0	.0	.4	.5	.2	.4	.4	.4	.3	.2	.1	.0	.0	.0	.0	194	.5	2.6
2	.0	.0	.0	.0	.0	.0	.0	.2	1.1	1.2	.5	1.9	1.1	1.5	.9	.7	.1	*	.0	.0	.0	575	2.2	7.0
1	.0	.0	.0	.0	.0	.0	.0	.3	.5	.7	.2	.5	.6	.6	.3	.2	*	.0	.0	.0	.0	224	.8	3.2
0	.0	.0	.0	.0	.0	.0	.1	1.2	2.2	1.0	.8	1.6	1.6	1.3	.8	.6	.1	*	.0	.0	.0	672	2.7	8.8
-1	.0	.0	.0	.0	.0	.0	.2	.4	.3	.3	.3	.5	.5	.3	.2	.1	*	.0	.0	.0	.0	195	.5	2.8
-2	.0	.0	.0	.0	.0	.0	.6	1.2	1.4	.7	.8	1.1	1.0	.9	.5	.4	.1	*	.0	.0	.0	474	1.5	7.1
-3	.0	.0	.0	.0	.0	.0	.1	.4	.7	.3	.3	.4	.4	.2	.1	*	*	.0	.0	.0	.0	139	.3	2.6
-4	.0	.0	.0	.0	.0	.0	.8	1.3	1.0	.5	.7	1.2	.6	.4	.4	.1	.0	.0	.0	.0	.0	347	.7	6.3
-5	.0	.0	.0	.0	.0	.1	.7	1.0	.5	.5	.6	.7	.3	.3	.2	.1	.0	.0	.0	.0	.0	235	.4	4.6
-6	.0	.0	.0	.0	.0	.1	.4	.2	.1	.1	.1	.2	.1	.1	*	.0	.0	.0	.0	.0	.0	68	.1	1.4
-7/-8	.0	.0	.0	.0	.0	.2	1.3	.8	.5	.3	.4	.3	.1	.1	*	*	.0	.0	.0	.0	.0	178	.2	3.8
-9/-10	.0	.0	.0	.0	.1	.7	.9	.6	.3	.2	.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	127	.2	3.1
-11/-13	.0	.0	.0	.0	1.1	1.3	1.1	.6	.3	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	187	.1	4.8
-14/-16	.0	.0	.1	.3	1.3	1.1	.7	.1	.1	.1	.3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	132	.2	3.9
-17/-19	.0	.0	.1	.7	.6	.3	.3	.2	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	69	.0	2.2
-20/-22	.0	.1	.3	.2	.4	.3	.1	.1	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	.0	1.5
-23/-25	.0	.1	.3	.1	.2	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.0	1.0
-26/-30	.1	.3	.1	.1	*	.1	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.0	.9
<-30	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.1
TOTAL																						5323		
PCT	.2	.4	.8	1.5	3.6	4.4	7.2	8.8	10.1	8.2	8.7	12.8	10.0	9.1	6.4	5.1	1.5	.8	.1	.1	.1	100.0	15.2	84.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.2	.0	.0	.0	2.3
1-2	.1	1.1	1.3	.0	.0	.0	2.5
3-4	.0	.2	2.1	.1	.0	.0	2.5
5-6	.0	.1	1.5	.6	.2	.0	2.4
7	.0	*	.9	.4	.1	.0	1.4
8-9	.0	.0	.4	.4	.2	.0	1.0
10-11	.0	.0	.1	.5	*	.0	.6
12	.0	.0	.0	.1	.1	.0	.1
13-16	.0	.0	.1	.2	.1	.0	.4
17-19	.0	*	.0	*	*	.0	.1
20-22	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	*	.0	*
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	6.6	2.3	.8	.0	13.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.2	.3	.0	.0	.0	1.5
1-2	.3	1.1	1.1	.0	.0	.0	2.5
3-4	.0	.5	1.3	.2	.0	.0	2.1
5-6	.0	.2	1.0	.3	*	.0	1.5
7	.0	*	.5	.2	.0	.0	.8
8-9	.0	*	.1	.3	.1	.0	.6
10-11	.0	.0	.2	.1	.0	.0	.3
12	.0	.0	.0	.1	*	.0	.2
13-16	.0	.0	.1	.3	.2	.0	.6
17-19	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	4.6	1.5	.5	.0	10.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	*	.0	.0	.0	1.5
1-2	.1	1.0	1.0	.0	.0	.0	2.1
3-4	.0	.2	1.0	.3	.0	.0	1.5
5-6	.0	.0	.4	.4	.0	.0	.8
7	.0	.1	.3	.3	.1	.0	.8
8-9	.0	.0	.1	.3	*	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	*	.0	*
13-16	.0	.0	.1	.1	*	.0	.2
17-19	.0	.1	*	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	3.2	1.5	.2	.0	7.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.1	.2	.0	.0	.0	1.5
1-2	.0	1.4	1.4	.0	.0	.0	2.9
3-4	.0	.6	1.3	.1	.0	.0	2.0
5-6	.0	*	.8	.2	.0	.0	1.0
7	.0	.0	.6	.5	.1	.0	1.2
8-9	.0	*	.1	.7	*	.0	.8
10-11	.0	.0	.1	.5	*	.0	.6
12	.0	*	.0	*	.0	.0	*
13-16	*	*	*	.7	*	.0	.9
17-19	.0	*	.0	.0	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.2	4.6	2.7	.2	.0	11.0

PERIOD: (OVER-ALL) 1963-1974

JANUARY, APRIL - DECEMBER

TABLE 18 (CONT)

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.7	.3	.0	.0	.0	2.4	.2	1.3	.1	.0	.0	.0	1.6
1-2	.3	2.1	2.5	.0	.0	.0	4.9	.1	1.4	1.5	.0	.0	.0	2.9
3-4	.0	.7	2.6	.2	.0	.0	3.5	*	.5	2.0	.1	.0	.0	2.7
5-6	.0	.1	1.4	.3	*	.0	1.8	.0	.1	.8	.1	.0	.0	1.1
7	.0	.1	1.0	.5	.0	.0	1.6	.0	*	.4	.8	.0	.0	1.2
8-9	.0	*	.2	.4	.1	.0	.6	*	.0	.1	.2	*	.0	.3
10-11	.0	.0	*	.1	.2	.0	.4	.0	.0	.3	.2	.2	.0	.6
12	.0	*	.0	*	.0	.0	.1	.0	.0	*	.2	*	.0	.3
13-16	.0	.0	.0	.2	*	*	.2	.0	.0	.0	.1	*	*	.2
17-19	.0	.0	*	.0	*	.0	.1	.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	.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	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.7	8.1	1.8	.5	*	15.8	.3	3.3	5.3	1.7	.3	.1	10.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.1	.9	.1	.0	.0	.0	1.1	.1	1.0	.1	.0	.0	.0	1.2	
1-2	.2	1.1	1.1	.0	.0	.0	2.3	.1	1.5	1.7	.0	.0	.0	3.2	
3-4	.0	.4	1.7	.1	.0	.0	2.2	.0	.8	2.1	.5	.0	.0	3.5	
5-6	.0	.3	1.2	1.1	*	.0	2.6	.0	.3	1.2	.9	.1	.0	2.4	
7	.0	.1	.6	.3	.1	.0	1.2	.0	.1	.9	.7	*	.0	1.7	
8-9	.0	*	.3	.3	.0	*	.7	.0	*	.4	.6	*	.0	1.0	
10-11	.0	.0	.2	.4	*	.0	.6	.0	.0	.5	.5	.1	.0	1.0	
12	.0	.0	.1	.2	.0	.0	.2	.0	*	.1	.2	.1	.0	.4	
13-16	.0	.0	.1	.1	.2	*	.4	.0	.0	.1	.3	.1	*	.4	
17-19	.0	.0	.0	.1	*	.0	.1	.0	.0	.0	.1	.1	.0	.3	
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	.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	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.7	5.2	2.6	.4	.1	11.4	.2	3.7	6.9	3.9	.5	*	15.2	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	10.1	1.3	.0	.0	.0	17.7	
1-2	1.0	10.6	11.7	.0	.0	.0	23.3	
3-4	*	4.0	14.2	1.7	.0	.0	19.9	
5-6	.0	1.1	8.3	3.8	.3	.0	13.6	
7	.0	.3	5.3	3.7	.4	.0	9.7	
8-9	*	.1	1.6	3.2	.5	*	5.5	
10-11	.0	.0	1.4	2.4	.5	.0	4.3	
12	.0	.1	.2	.9	.2	.0	1.4	
13-16	*	*	.4	1.9	.7	.1	3.3	
17-19	.0	.2	.1	.3	.3	.0	.8	
20-22	.0	.0	*	*	.2	.0	.3	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	*	.0	*	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2489
TOT PCT	7.4	26.5	44.6	18.0	3.4	.2	100.0	

PERIOD: (OVER-ALL) 1964-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	10.3	10.3	6.2	3.1	1.3	1.0	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1168	4
6-7	*	1.1	3.2	4.1	3.7	2.8	1.9	.4	1.3	*	*	.1	.0	.0	.0	.0	.0	.0	.0	618	6
8-9	*	.2	1.2	1.3	2.1	2.1	1.2	.6	1.2	.2	*	.0	*	.0	.0	.0	.0	.0	.0	291	8
10-11	.0	1.2	.3	.8	.6	.6	.4	.2	.3	.2	*	.0	*	.1	.0	.0	.0	.0	.0	164	7
12-13	.0	.0	1.3	.4	.2	.2	.4	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	6
>13	.0	.0	.0	.2	.2	.2	.3	.1	.3	.2	.2	.1	*	*	.0	.0	.0	.0	.0	53	12
INDET	7.1	5.2	5.6	3.1	2.4	1.5	1.2	.4	1.1	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	951	4
TOTAL																				3343	5
PCT	8.1	18.1	21.9	16.2	12.4	8.6	6.2	2.0	4.5	1.0	.4	.4	.2	.1	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1933-1974
(OVER-ALL) 1885-1974

AREA 0020 SAKHALIN ISLAND SE
48.7N 145.5E

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	.1	.0	.0	.0	1	*
71/72	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	*
69/70	.0	.0	.0	.0	.0	.0	.1	.8	.3	.2	.0	.0	12	.2
67/68	.0	.0	.0	.0	.0	.0	.1	1.0	.5	.2	.0	.0	16	.3
65/66	.0	.0	.0	.0	.0	.0	.4	2.2	1.3	.2	.0	.0	38	.7
63/64	.0	.0	.0	.0	.0	.2	2.2	7.8	5.7	.2	.0	.0	150	2.6
61/62	.0	.0	.0	.0	.0	.2	4.3	10.1	8.9	.3	.0	.0	218	3.7
59/60	.0	.0	.0	.0	.4	.3	3.6	9.1	10.5	.5	.4	.0	218	3.7
57/58	.0	.0	.0	.0	.2	.7	5.7	11.0	14.1	1.9	.2	.4	298	5.1
55/56	.0	.0	.0	1.3	.2	1.7	7.9	12.3	14.8	4.1	.4	.4	364	6.2
53/54	.0	.0	.0	2.5	.2	3.7	10.0	15.6	14.6	7.1	.2	1.4	456	7.8
51/52	.0	.0	.0	2.5	.2	5.6	12.3	10.7	10.7	8.2	.9	.7	424	7.3
49/50	.0	.0	.0	1.3	.6	6.4	11.0	7.3	10.3	17.2	1.8	.0	443	7.6
47/48	.6	.0	.0	2.5	2.5	6.2	12.6	4.0	3.7	17.1	2.7	.7	389	6.7
45/46	2.5	.0	.0	1.3	4.6	17.9	17.7	4.6	2.9	24.3	9.9	2.1	646	11.1
43/44	1.8	.0	.0	1.3	9.2	16.4	5.1	1.1	1.1	10.5	14.1	1.4	410	7.0
41/42	1.2	.0	.0	2.5	5.7	12.5	3.7	.4	.1	4.5	13.2	3.5	294	5.0
39/40	3.1	.0	.0	5.0	17.0	11.4	1.2	.8	.1	1.1	16.5	7.1	329	5.6
37/38	6.2	.0	.0	11.3	15.3	7.2	.7	.2	.0	.8	14.8	14.8	293	5.0
35/36	11.7	.0	.0	23.8	21.6	5.6	.3	.4	.0	.2	11.2	22.6	324	5.5
33/34	25.3	.0	.0	25.0	13.9	2.6	.8	.3	.0	1.3	5.9	21.9	263	4.5
31/32	20.4	.0	.0	17.5	6.5	.7	.3	.4	.0	.3	5.7	17.0	170	2.9
29/30	22.8	.0	.0	2.5	1.5	.2	.0	.0	.0	.2	1.8	5.7	75	1.3
27/28	4.3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.5	.4	14	.2
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	162	0	0	80	476	885	983	1037	755	638	547	283	5846	100.0
MEAN	33.5			36.9	38.0	43.7	50.4	55.3	55.2	47.7	39.8	35.8	43.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1012	1011	1009	1012	1012	1002	1012	1012	1012	184
FEB										
MAR										
APR	1014	1011	1011	1009	1009	1010	1017	1010	1012	107
MAY	1011	1008	1010	1010	1011	1011	1011	1010	1010	539
JUN	1012	1010	1012	1009	1012	1009	1010	1008	1011	891
JUL	1011	1007	1012	1007	1013	1008	1009	1007	1010	999
AUG	1010	1008	1011	1008	1011	1009	1011	1009	1010	1058
SEP	1012	1009	1013	1011	1015	1011	1012	1010	1012	782
OCT	1013	1013	1013	1013	1013	1013	1013	1013	1013	642
NOV	1010	1009	1007	1007	1009	1011	1010	1011	1009	566
DEC	1007	1015	1009	1008	1009	1014	1006	1013	1008	314
ANN	1011	1010	1011	1009	1011	1010	1011	1010	1010	6082
OBS	1248	463	1056	488	1138	468	748	473		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	981	985	996	1006	1013	1018	1024	1026	1028
FEB									
MAR									
APR	978	978	995	1007	1011	1017	1025	1028	1029
MAY	977	986	994	1006	1011	1016	1024	1028	1029
JUN	984	991	999	1006	1011	1015	1022	1026	1032
JUL	983	989	997	1006	1010	1014	1020	1026	1030
AUG	983	992	998	1005	1010	1014	1020	1025	1030
SEP	979	983	998	1006	1012	1018	1025	1030	1032
OCT	972	992	999	1008	1013	1018	1025	1028	1032
NOV	974	978	990	1004	1010	1016	1024	1028	1032
DEC	973	981	988	1000	1008	1016	1024	1026	1028

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0021 OKHOTSK SEA SE
52.8N 152.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.0	1.3	.0	.0	24.2	1.3	.0	26.5	5.6	.0	4.3	1.3	.0	.0		62.3
NE	.0	.0	.0	.0	23.7	.0	.0	23.7	.5	.0	1.1	.0	.0	.0		74.7
E	.0	.0	2.8	.0	19.0	.0	.0	21.8	2.1	.0	8.5	.0	.0	.0		67.6
SE	5.3	.0	.0	.0	22.7	.0	.0	22.7	1.3	.0	10.7	.0	5.3	5.3		54.7
S	.0	.0	.0	.0	18.4	.0	.0	18.4	.0	.0	.0	.0	.0	.0		81.6
SW	.0	.0	.0	.0	16.3	.0	.0	16.3	4.7	.0	4.7	.0	.0	.0		74.4
W	.0	.0	.0	.0	41.9	.0	.0	41.9	8.5	.0	7.7	.0	.0	.0		41.9
NW	.4	.0	.0	.0	34.5	.0	.0	34.9	5.9	.0	6.3	.0	.0	.0		52.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		100.0
TOT PCT	.6	.3	.3	.0	27.7	.3	.0	28.5	4.6	.0	5.5	.3	.3	.3		60.5
TOT OBS:	347															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.0	.0	.0	.0	23.0	.0	.0	24.0	3.0	.0	6.0	.0	1.0	.0		66.0
06&09	1.0	.0	.0	.0	28.9	1.0	.0	29.9	6.2	.0	8.2	.0	.0	.0		55.7
12&15	.0	1.0	.0	.0	30.3	.0	.0	30.3	6.1	.0	4.0	.0	.0	1.0		58.6
18&21	.0	.0	1.1	.0	27.8	.0	.0	28.9	3.3	.0	2.2	1.1	.0	.0		64.4
TOT PCT	.5	.3	.3	.0	27.5	.3	.0	28.2	4.7	.0	5.2	.3	.3	.3		61.1
TOT OBS:	386															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	3.2	10.7	7.2	.5	.0		21.5	19.5	20.3	.0	19.3	.0	25.7	.0	21.5	.0
NE	.0	3.4	4.9	4.0	.7	.0		13.0	18.4	13.8	.0	14.4	.0	13.2	.0	10.8	.0
E	.3	2.6	4.4	1.5	1.2	.3		10.3	18.8	10.6	.0	12.1	.0	9.9	.0	8.5	.0
SE	.3	.6	2.8	1.6	.4	.0		5.7	19.5	3.1	25.0	3.4	.0	8.2	.0	8.2	.0
S	.0	1.0	1.2	.2	.0	.0		2.4	15.8	3.4	75.0	2.0	.0	.0	.0	3.2	.0
SW	.0	1.	3.6	1.1	.0	.0		6.6	15.7	10.3	.0	2.9	.0	7.2	.0	6.3	.0
W	.0	1.2	10.3	6.9	1.2	.0		19.6	21.5	17.8	.0	21.6	.0	21.4	.0	17.7	.0
NW	.6	2.5	10.4	4.1	.8	.0		18.4	18.4	18.1	.0	23.3	.0	10.5	.0	21.2	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0	2.5	.0	1.1	.0	3.9	.0	2.5	.0
TOT OBS	12	53	156	86	15	1	323		18.6	80	1	87	0	76	0	79	0
TOT PCT	3.7	16.4	48.3	26.6	4.6	.3		100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.8	7.7	10.0	2.8	.2		21.5	19.5	20.1	19.3	25.7	21.5
NE	1.2	5.4	3.7	2.6	.0		13.0	18.4	13.6	14.4	13.2	10.8
E	1.9	3.5	2.9	.9	1.2		10.3	18.8	10.5	12.1	9.9	8.5
SE	.3	2.4	1.6	1.3	.1		5.7	19.5	3.4	3.4	8.2	8.2
S	.0	1.0	1.4	.0	.0		2.4	15.8	4.3	2.0	.0	3.2
SW	.3	3.3	2.9	.1	.0		6.6	15.7	10.2	2.9	7.2	6.3
W	.3	5.1	9.3	4.9	.0		19.6	21.5	17.6	21.6	21.4	17.7
NW	1.4	7.8	5.9	2.9	.4		18.4	18.4	17.9	23.3	10.5	21.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	2.5	1.1	3.9	2.5
TOT OBS	28	117	122	50	6	323		18.6	81	87	76	79
TOT PCT	8.7	36.2	37.8	15.5	1.9		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	2.5	2.5	19.8	46.9	22.2	6.2	.0	18.1	100.0	81
06&09	1.1	.0	20.7	46.0	25.3	6.9	.0	18.6	100.0	87
12&15	3.9	.0	15.8	48.7	30.3	.0	1.3	18.4	100.0	76
18&21	2.5	2.5	8.9	51.9	29.1	5.1	.0	19.5	100.0	79
TOT	8	4	53	156	86	15	1	18.6		323
PCT	2.5	1.2	16.4	48.3	26.6	4.6	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	2.8	7.3	10.2		6.1
NE	1.5	1.8	4.2	5.0		5.8
E	1.0	.0	5.1	4.9		6.4
SE	.7	.0	1.4	4.1		6.8
S	.0	.0	2.5	1.0		6.6
SW	.4	.5	3.2	1.6		5.9
W	.4	.6	8.4	8.2		6.9
NW	1.7	2.0	9.	7.0		6.1
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.7	.7		5.4
TOT OBS	21	21	114	116	272	6.3
TOT PCT	7.7	7.7	41.9	42.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.9	.0	.4	.4	4.8	6.9	1.1	.0	.0	.3	5.3	
NE	.5	.0	.4	1.5	2.7	3.1	.6	.0	.0	.1	3.8	
E	1.8	.0	.0	.7	2.7	3.6	.8	.0	.0	.0	1.3	
SE	1.1	.0	.0	.4	1.4	2.0	.6	.0	.0	.0	.8	
S	.0	.0	.0	.0	1.0	1.2	.6	.0	.0	.0	.6	
SW	.7	.0	.0	.4	1.1	1.1	.4	.0	.4	.0	1.6	
W	.6	.0	.0	.3	6.4	8.5	.0	.0	.0	.3	1.3	
NW	1.8	.0	.0	1.6	5.7	5.5	.4	.0	.0	.5	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.7	.4	.4	.0	.0	.0	.4	
TOT OBS	26	0	2	14	72	88	13	0	1	3	53	272
TOT PCT	9.6	.0	.7	5.1	26.5	32.4	4.8	.0	.4	1.1	19.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.7	1.4	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	.7	1.4	1.7	1.7	1.7	1.7	1.7	1.7
* OR >3500	3.8	4.9	5.9	6.6	6.6	6.6	6.6	6.6
* OR >2000	16.7	28.1	36.5	39.6	39.6	39.6	39.6	39.6
* OR >1000	21.9	40.3	54.9	61.5	64.2	64.2	65.6	65.6
* OR >600	22.2	43.1	59.0	65.6	68.8	68.8	70.5	70.5
* OR >300	22.2	43.4	59.7	66.3	69.8	69.8	71.5	71.5
* OR >150	22.2	43.4	59.7	66.3	69.8	69.8	71.5	71.5
* OR > 0	22.2	44.1	63.2	71.9	77.1	78.5	81.3	81.3
TOTAL	64	127	182	207	222	226	234	234

TOTAL NUMBER OF OBS: 288

PCT FREQ NH <5/8: 18.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.4	.6	3.2	4.1	5.3	8.5	14.4	14.1	37.0	8.5	341

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	1.0	.0	.6	.0	.0	.3	3.2	1.5	.0	.0	6.6	
<1/2	NO PCP	.2	.1	.6	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	1.2	.1	1.1	.0	.0	.3	3.2	1.5	.0	.0	7.4	
	PCP	1.1	.9	.6	.0	.0	.1	1.3	.4	.0	.0	4.3	
1/2<1	NO PCP	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.6	
	TOT %	1.1	.9	.8	.1	.0	.4	1.3	.4	.0	.0	4.9	
	PCP	1.0	.7	.4	.1	.0	.6	1.9	1.6	.0	.0	6.3	
1<2	NO PCP	.3	.0	.0	.0	.3	.3	.0	.3	.0	.0	1.1	
	TOT %	1.3	.7	.4	.1	.3	.9	1.9	1.9	.0	.0	7.4	
	PCP	2.1	1.8	.9	1.1	.5	.4	1.9	2.2	.0	.0	10.9	
2<5	NO PCP	1.4	.4	.6	1.1	.3	.0	2.1	3.1	.0	.3	9.4	
	TOT %	3.5	2.2	1.5	2.3	.8	.4	4.0	5.4	.0	.3	20.3	
	PCP	.8	.0	.0	.0	.0	.0	.2	.4	.0	.0	1.4	
5<10	NO PCP	5.1	4.5	3.0	1.0	.4	3.3	6.4	3.8	.0	.3	27.7	
	TOT %	5.9	4.5	3.0	1.0	.4	3.3	6.6	4.2	.0	.3	29.1	
	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10+	NO PCP	8.9	5.1	3.6	1.9	1.2	1.3	2.6	4.6	.0	1.7	30.9	
	TOT %	8.9	5.1	3.6	1.9	1.2	1.3	2.6	4.6	.0	1.7	30.9	
	TOT OBS												350
	TOT PCT	21.8	13.6	10.4	5.4	2.7	6.4	19.5	17.9	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.3	.0	.3	.0	.0	.0	.0	.0	.0		.6	
	11-21	.2	.1	.3	.0	.0	.0	.9	.4	.0		1.9	
	22+	.2	.0	.6	.0	.0	.3	2.7	.9	.0		4.8	
	TOT %	.8	.1	1.3	.0	.0	.3	3.6	1.3	.0	.0	7.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.2	.1	.0	.0	.0	.0	.3	.0	.0		.6	
	11-21	1.0	.0	.3	.0	.0	.1	.5	.1	.0		1.9	
	22+	.0	.3	.3	.0	.0	.3	.0	.3	.0		1.3	
	TOT %	1.2	.4	.6	.0	.0	.4	.8	.4	.0	.0	3.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.3	.0	.0	.0	.6	.0	.0	.0		1.0	
	11-21	.3	.3	.2	.1	.0	.3	1.4	1.4	.0		4.2	
	22+	1.1	.1	.0	.0	.0	.0	.6	.7	.0		2.6	
	TOT %	1.4	.7	.2	.1	.0	1.0	2.1	2.2	.0	.0	7.7	
	0-3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.6	
2<5	4-10	.6	.3	.6	.2	.2	.0	.0	1.0	.0		2.9	
	11-21	2.2	.7	.9	.7	.6	.4	2.4	2.9	.0		10.9	
	22+	.8	1.1	.0	1.3	.0	.0	.9	1.4	.0		5.4	
	TOT %	3.6	2.2	1.4	2.5	.9	.4	3.3	5.3	.0	.3	19.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.6	
5<10	4-10	.2	1.0	.6	.0	.0	.3	1.0	.7	.0		3.8	
	11-21	2.3	1.4	1.3	.7	.2	2.3	3.8	2.0	.0		14.1	
	22+	2.7	2.0	.9	.4	.0	.3	2.0	1.0	.0		9.3	
	TOT %	5.3	4.3	2.8	1.1	.2	3.0	6.8	4.0	.0	.3	27.9	
	0-3	.0	.0	.3	.0	.0	.0	.0	.3	.0	1.9	2.6	
10+	4-10	1.9	1.8	1.2	.5	.8	1.0	.0	.5	.0		7.7	
	11-21	4.7	2.5	1.3	1.3	.3	.3	1.4	3.6	.0		15.4	
	22+	3.0	.7	.9	.4	.2	.2	1.5	.7	.0		7.7	
	TOT %	9.7	5.0	3.7	2.2	1.4	1.4	2.9	5.1	.0	1.9	33.2	
	TOT OBS												312
	TOT PCT	22.0	12.7	10.1	5.8	2.5	6.5	19.5	18.3	.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

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	6.1	.0	1.2	2.4	26.8	37.8	4.9	.0	.0	2.4	81.7	18.3	82
06&09	7.0	.0	.0	5.8	27.9	34.9	5.8	.0	.0	1.2	82.6	17.4	86
12&15	11.9	.0	1.5	3.0	25.4	26.9	3.0	.0	.0	.0	71.6	28.4	67
18&21	15.9	.0	1.6	7.9	22.2	27.0	4.8	.0	1.6	1.6	82.5	17.5	63
TOT	29	0	3	14	77	96	14	0	1	4	238	60	298
PCT	9.7	.0	1.0	4.7	25.8	32.2	4.7	.0	.3	1.3	79.9	20.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	6.7	9.6	6.7	10.6	27.9	38.5	104
06&09	8.2	2.1	8.2	25.8	26.8	28.9	97
12&15	5.0	5.9	8.9	25.7	30.7	23.8	101
18&21	6.7	2.2	8.9	20.0	34.4	27.8	90
TOT	26	20	32	80	117	117	392
PCT	6.6	5.1	8.2	20.4	29.8	29.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	6.3	13.8	32.5	52.5	15.0	80
06&09	6.2	9.9	42.0	44.4	13.6	81
12&15	13.3	18.5	49.2	24.6	26.2	65
18&21	16.1	22.6	48.4	35.5	16.1	62
TOT	28	45	122	116	50	288
PCT	9.7	15.6	42.4	40.3	17.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.0	.0	3.6	1	3.6
35/39	.0	.0	.0	.0	.0	3.6	.0	.0	1	3.6
25/29	.0	.0	.0	.0	.0	.0	.0	3.6	1	3.6
20/24	.0	.0	.0	.0	.0	.0	3.6	25.0	8	28.6
15/19	.0	.0	.0	.0	.0	.0	3.6	21.4	7	25.0
10/14	.0	.0	.0	.0	.0	.0	3.6	21.4	7	25.0
5/9	.0	.0	.0	.0	.0	.0	.0	10.7	3	10.7
TOTAL	0	0	0	0	0	1	3	24	28	100.0
PCT	.0	.0	.0	.0	.0	3.6	10.7	85.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0
	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0
	.0	.0	.0	.0	3.6	.0	.0	.0	.0	.0
	.0	.0	9.8	1.8	2.7	10.7	3.6	.0	.0	.0
	.0	10.7	8.9	1.8	.0	.0	2.7	.9	.0	.0
	7.1	.9	2.7	.0	.0	.0	9.8	4.5	.0	.0
	.0	3.6	.0	.0	.0	.0	3.6	3.6	.0	.0
	7.1	18.8	25.0	3.6	6.3	10.7	19.6	8.9	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	41	37	35	19	6	1	1	18.9	102
06&09	37	35	34	19	5	-1	-1	18.9	95
12&15	48	39	34	17	4	1	1	18.4	99
18&21	53	41	35	19	5	-3	-3	19.3	88
TOT	53	39	34	18	5	0	-3	18.9	384

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	37.5	62.5	94	8
06&09	.0	.0	.0	.0	.0	100.0	96	7
12&15	.0	.0	.0	14.3	.0	85.7	95	7
18&21	.0	.0	.0	.0	.0	100.0	94	6
TOT	0	0	0	1	3	24	95	28

JANUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1958-1974

AREA 0021 OKHOTSK SEA SE
52.0N 152.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	2	.0	.7
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	2	.0	.7
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	3	.0	1.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
2	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.3	.0	.0	6	.0	2.0
1	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.0	.0	.0	4	.0	1.3
0	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.0	.0	.0	5	.0	1.7
-1	.0	.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	9	.0	3.0
-2	.0	.0	.0	.0	.0	.0	.7	.7	.0	.0	.0	.0	4	.3	1.0
-3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	2	.3	.3
-4	.0	.0	.0	.0	.0	.0	2.7	.3	.0	.0	.0	.0	9	1.0	2.0
-5	.0	.0	.0	.0	.0	.3	.0	2.0	.0	.0	.0	.0	7	.0	2.3
-6	.0	.0	.0	.0	.0	.3	1.0	.3	.0	.0	.0	.0	5	.0	1.7
-7/-8	.0	.0	.0	.0	.0	3.7	2.3	1.0	.0	.0	.0	.0	21	.0	7.0
-9/-10	.0	.0	.0	.0	.3	2.3	3.0	1.0	.3	.0	.0	.0	21	.3	6.7
-11/-13	.0	.0	.0	.0	3.7	9.0	.0	.7	.0	.0	.0	.0	40	.0	13.3
-14/-16	.0	.0	.0	5.0	6.0	.3	.3	.0	.0	.0	.0	.0	35	.0	11.7
-17/-19	.0	.0	3.3	6.3	1.3	.3	.0	.0	.0	.0	.0	.0	34	.3	11.0
-20/-22	.0	.7	6.3	3.3	.3	.0	.0	.0	.0	.0	.0	.0	31	.3	10.0
-23/-25	.3	3.7	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	.3	9.3
-26/-30	1.0	4.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	.7	6.3
<-30	1.7	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	7	.3	2.0
TOTAL	9	25	52	45	35	49	31	30	15	5	2	2	300	12	288
PCT	3.0	8.3	17.3	15.0	11.7	16.3	10.3	10.0	5.0	1.7	.7	.7	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	1.9	.0	.0	.0	4.0
3-4	.0	.9	4.8	.8	.0	.0	6.4
5-6	.0	.0	2.9	.4	.0	.0	3.3
7	.0	.4	1.4	3.3	.0	.0	5.1
8-9	.0	.0	.3	.4	.0	.0	.7
10-11	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.4	1.1	.6	.0	2.0
13-16	.0	.0	.0	.7	.0	.0	.7
17-19	.0	.0	.0	.3	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	11.7	7.2	.6	.0	22.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.5	[illegible]	.0	.0	.0	1.3
3-4	.0	.5	1.9	.0	.0	.0	2.4
5-6	.0	.4	.2	.4	.0	.0	1.0
7	.0	.0	.0	1.3	.0	.0	1.3
8-9	.0	.1	.9	.8	.0	.0	1.7
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.5	.4	.1	.0	1.0
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.4	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.8	4.2	3.3	.1	.0	9.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.2	.0	.0	.0	.0	1.5
1-2	.0	1.8	.6	.0	.0	.0	2.4
3-4	.0	.0	2.1	.0	.0	.0	2.1
5-6	.0	.0	.8	1.1	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.3	.3	.4	.4	.0	1.3
10-11	.0	.0	.4	.0	.3	.0	.7
12	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.8	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.3	4.4	1.4	1.4	.0	11.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.1	.0	.0	.0	.0	.1
1-2	.0	.5	1.3	.0	.0	.0	1.8
3-4	.0	.1	.5	1.2	.0	.0	1.7
5-6	.0	.0	.0	.1	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.4	.1	.0	.5
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.4	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.7	2.6	2.0	.5	.0	5.8

PERIOD: (OVER-ALL) 1963-1974

JANUARY

TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
52.8N 152.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.6	.4	.0	.0	.0	.8	.0	1.2	.3	.0	.0	.0	1.6
3-4	.0	.3	.4	.0	.0	.0	.7	.0	.4	.8	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.4	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.4	.0	.0	1.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.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
TOT PCT	.0	1.0	1.2	.3	.0	.0	2.4	.0	1.5	2.6	1.3	.0	.0	5.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.4	.4	.0	.0	.0	.8	.8	.4	.8	.0	.0	.0	1.9	
1-2	.0	.0	1.4	.0	.0	.0	1.4	.0	.5	1.5	.0	.0	.0	2.0	
3-4	.0	1.2	1.3	.0	.0	.0	2.5	.0	1.0	3.2	.0	.0	.0	4.1	
5-6	.0	.0	3.0	1.1	.0	.0	4.0	.0	.0	2.4	.4	.0	.0	2.8	
7	.0	.0	2.1	1.3	.0	.0	3.5	.0	.0	1.3	1.4	.0	.0	2.8	
8-9	.0	.0	2.3	3.0	.4	.0	5.7	.0	.0	1.2	1.3	.0	.0	2.4	
10-11	.0	.0	.4	1.1	.0	.0	1.4	.0	.0	.8	.1	.0	.0	.9	
12	.0	.0	.7	.7	.8	.0	2.1	.0	.0	.1	.6	.1	.0	.8	
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.4	.5	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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	
TOT PCT	.0	1.5	11.6	7.1	1.4	.0	21.7	.8	1.8	11.3	4.2	.6	.0	18.7	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	2.7	1.2	.0	.0	.0	7.3	
1-2	.0	6.9	8.5	.0	.0	.0	15.4	
3-4	.0	4.2	15.0	1.9	.0	.0	21.2	
5-6	.0	.4	9.6	3.5	.0	.0	13.5	
7	.0	.4	5.4	7.7	.0	.0	13.5	
8-9	.0	.4	6.5	6.2	.8	.0	13.8	
10-11	.4	.0	1.5	2.3	.4	.0	4.6	
12	.0	.0	1.9	3.1	1.5	.0	6.5	
13-16	.0	.0	.0	1.2	1.9	.0	3.1	
17-19	.0	.0	.0	.8	.0	.0	.8	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	15.0	49.6	26.9	4.6	.0	100.0	260

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	3.9	10.6	7.3	2.1	2.1	1.2	.3	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	5
6-7	.0	1.5	1.5	3.9	7.3	5.8	1.5	1.5	.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	80	7
8-9	.0	.0	.0	.6	1.5	3.0	.9	2.1	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	32	10
10-11	.0	1.2	.0	.3	.3	.6	.3	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	13	8
12-13	.0	.0	.9	.3	.0	.0	.3	.6	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	9	10
>13	.0	.0	.0	.3	.3	.0	.0	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	3.3	2.4	5.5	2.4	5.2	5.8	1.5	.0	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	92	6
TOTAL	14	30	61	50	95	57	19	18	15	4	6	0	1	0	0	0	0	0	0	330	7
PCT	4.2	9.1	18.5	15.2	16.7	17.3	5.8	5.5	4.5	1.2	1.8	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

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AREA 0021 OKHOTSK SEA SE
52.6N 154.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.5	.0	.0	36.8	.0	.0	36.8	1.5	.0	2.0	.5	.5	.7		57.9
NE	.0	.3	.0	.0	21.0	.0	.0	21.0	1.5	.0	1.2	.0	.0	.0		76.3
E	.0	.0	.0	.0	24.8	.0	.0	24.8	6.4	.0	4.0	.0	.0	.0		64.9
SE	.0	.0	.0	.0	36.0	.0	.0	36.0	3.4	.0	4.5	.0	.0	.0		56.2
S	7.8	.0	3.9	.0	30.1	.0	.0	37.9	2.9	.0	6.8	.0	.0	.0		52.4
SW	3.9	3.9	7.8	.0	24.5	.0	.0	36.3	4.9	.0	2.0	.0	.0	.0		56.9
W	1.5	.0	.0	.0	38.5	1.5	.0	41.5	4.0	.0	1.1	.0	1.5	2.5		49.5
NW	.0	.0	.0	.0	42.5	.0	.0	42.5	3.0	.0	1.7	.2	1.7	.9		49.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	5.9	.0	.0	5.9	5.9	.0	.0	.0	.0	.0		88.2
TOT PCT	.7	.4	.5	.0	33.1	.2	.0	34.3	3.0	.0	2.1	.2	.7	.7		58.9
TOT OBS:	562															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/O PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	.5	.0	.5	.0	29.1	.0	.0	29.6	3.6	.0	5.6	.5	.0	1.5		59.2
06&09	1.2	.0	.0	.0	28.0	.0	.0	29.3	3.7	.0	.6	.0	1.8	1.8		62.8
12&15	.7	.7	.7	.0	39.3	.7	.0	40.7	2.7	.0	2.0	.0	.7	1.3		52.7
18&21	.0	.8	.8	.0	34.1	.0	.0	35.7	3.2	.0	.8	.0	.8	.0		59.5
TOT PCT	.6	.3	.5	.0	32.2	.2	.0	33.3	3.3	.0	2.5	.2	.8	1.3		58.6
TOT OBS:	636															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.2	9.2	9.8	3.6	.7	.2		23.7	15.4	20.5	39.3	28.1	38.6	22.7	33.3	21.9	.0
NE	.3	5.0	8.9	1.7	.2	.0		15.7	14.1	15.0	16.1	16.5	15.9	13.6	.0	18.1	25.0
E	.2	4.1	2.8	2.1	.0	.0		9.2	14.1	10.5	12.5	7.4	.0	7.0	.0	14.7	.0
SE	.0	.8	2.1	1.3	.0	.0		4.3	18.2	4.0	7.1	2.5	.0	4.5	.0	3.8	37.5
S	.2	1.6	2.4	1.1	.0	.0		5.3	15.0	5.6	.0	3.8	13.6	5.7	.0	6.9	.0
SW	.3	1.7	2.9	.9	.4	.0		5.2	14.6	4.7	7.1	7.6	4.5	3.0	.0	5.0	12.5
W	.2	3.1	6.0	2.6	.3	.0		12.4	16.9	13.0	7.1	9.2	9.1	16.4	25.0	10.0	25.0
NW	.1	4.0	12.0	3.4	1.4	.2		21.0	18.1	23.0	10.7	19.6	18.2	24.3	41.7	18.4	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	3.6	.0	5.4	.0	2.7	.0	1.3	.0
TOT OBS	21	141	218	80	14	2	476		15.4	138	14	112	11	110	3	80	8
TOT PCT	4.4	29.6	45.8	16.8	2.9	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.6	11.3	5.8	2.7	.2		23.7	15.4	22.2	29.1	23.0	19.9
NE	2.0	9.1	3.9	.7	.0		15.7	14.1	15.1	16.5	13.3	18.8
E	1.4	4.5	2.8	.6	.0		9.2	14.1	10.7	6.7	6.9	13.4
SE	.4	1.4	1.9	.6	.0		4.3	18.2	4.3	2.2	4.4	6.8
S	.5	2.9	1.6	.3	.0		5.3	15.0	5.1	4.7	5.5	6.3
SW	1.1	1.8	2.0	.3	.0		5.2	14.6	4.9	7.3	2.9	5.7
W	1.1	5.4	4.9	1.1	.0		12.4	16.9	12.5	9.1	16.6	11.4
NW	1.5	8.6	8.4	2.2	.4		21.0	18.1	21.9	19.5	24.8	16.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	3.3	4.9	2.7	1.1
TOT OBS	70	214	149	40	3	476		15.4	152	123	113	88
TOT PCT	14.7	45.0	31.3	8.4	.6		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.3	1.3	31.6	39.5	20.4	3.9	.0	15.2	100.0	152
06&09	4.9	2.4	23.6	55.3	13.0	.8	.0	14.6	100.0	123
12&15	2.7	.0	31.9	43.4	15.9	4.4	1.8	16.6	100.0	113
18&21	1.1	1.1	31.8	46.6	17.0	2.3	.0	15.2	100.0	88
TOT	15	6	141	218	80	14	2	15.4		476
PCT	3.2	1.3	29.6	45.8	16.8	2.9	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	3.0	6.4	11.0		6.1
NE	3.6	1.4	3.0	5.9		5.3
E	1.1	.7	2.8	4.3		6.1
SE	.2	.3	1.3	2.6		6.7
S	.2	.4	1.7	2.8		6.8
SW	.3	.5	1.8	2.4		6.7
W	.2	1.2	4.3	6.4		6.7
NW	2.6	3.4	5.9	12.6		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.6	.9	.5	.5		3.0
TOT OBS	55	51	121	213	440	6.1
TOT PCT	12.5	11.6	27.5	48.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.0	.0	.2	.9	3.4	3.6	1.5	.5	1.5	1.3	8.0	
NE	.6	.0	.2	.4	1.8	3.2	.9	.0	.5	.1	6.1	
E	.2	.0	.2	1.0	.2	2.6	.9	.0	.0	.4	3.4	
SE	.1	.0	.3	.5	.2	1.8	.1	.2	.0	.2	.9	
S	1.2	.0	.4	.0	1.4	.6	.4	.0	.0	.3	.7	
SW	1.0	.0	.0	.2	1.2	1.4	.2	.0	.0	.1	.7	
W	2.1	.0	.2	.6	4.3	2.5	.5	.2	.4	.0	1.4	
NW	3.2	.0	.5	1.1	3.8	5.9	1.3	.2	1.0	.5	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.5	
TOT OBS	51	0	9	18	74	95	25	5	15	13	135	440
TOT PCT	11.6	.0	2.0	4.1	16.8	21.6	5.7	1.1	3.4	3.0	30.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	2.2	3.3	5.1	5.7	5.7	5.7	5.7	5.7
* OR >5000	2.5	4.1	6.3	7.0	7.0	7.0	7.0	7.0
* OR >3500	4.5	7.6	11.0	12.3	12.5	12.5	12.5	12.5
* OR >2000	12.7	20.2	29.0	31.7	32.7	32.7	33.3	33.3
* OR >1000	15.3	26.8	38.9	45.2	48.3	48.3	49.7	49.7
* OR >600	15.5	27.6	39.9	47.6	52.1	52.6	54.2	54.2
* OR >300	16.0	28.6	41.3	49.5	54.4	55.0	56.6	56.6
* OR >150	16.0	28.6	41.3	49.5	54.4	55.0	56.9	56.9
* OR > 0	16.2	30.3	46.4	56.4	64.2	65.8	69.3	69.3
TOTAL	79	148	227	276	314	322	339	339

TOTAL NUMBER OF OBS: 489

PCT FREQ NH <5/8: 30.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.7	2.9	5.7	5.9	5.9	5.9	11.3	8.4	35.4	10.9	559

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	1.1	.7	.4	.2	.2	.0	.4	1.7	.0	.2	5.0	
	NO PCP	.0	.0	.0	.0	.3	.1	.3	.2	.0	.0	.9	
	TOT %	1.1	.7	.4	.2	.5	.1	.7	2.0	.0	.2	5.9	
1/2<1	PCP	.5	.4	.0	.7	.9	.7	1.2	2.0	.0	.0	6.4	
	NO PCP	.4	.2	.0	.0	.0	.0	.2	.3	.0	.2	1.3	
	TOT %	1.0	.5	.0	.7	.9	.7	1.4	2.3	.0	.2	7.7	
1<2	PCP	2.8	.7	.8	.2	.0	.4	1.7	3.0	.0	.0	9.7	
	NO PCP	.4	.4	.0	*	.1	.2	.1	.7	.0	.0	2.0	
	TOT %	3.2	1.1	.8	.2	.1	.6	1.8	3.8	.0	.0	11.6	
2<5	PCP	3.5	.8	.6	.3	.5	.2	1.0	2.4	.0	.0	9.3	
	NO PCP	2.0	1.8	.5	.2	.2	.4	1.3	2.4	.0	.0	8.8	
	TOT %	5.5	2.6	1.1	.5	.7	.6	2.3	4.8	.0	.0	18.1	
5<10	PCP	1.0	.4	.2	.0	.2	.7	.8	.5	.0	.0	3.8	
	NO PCP	4.8	2.2	1.9	.6	1.3	1.1	2.9	4.3	.0	.9	20.0	
	TOT %	5.8	2.6	2.1	.6	1.5	1.8	3.6	4.9	.0	.9	23.8	
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	NO PCP	7.6	7.1	4.4	1.7	.9	1.1	2.5	5.6	.0	1.8	32.7	
	TOT %	7.6	7.1	4.4	1.7	.9	1.1	2.5	5.8	.0	1.8	32.9	
	TOT OBS												559
	TOT PCT	24.2	14.6	8.9	4.0	4.6	4.9	12.3	23.5	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.2	.1	.4	.2	.0		1.1	
	11-21	.4	.3	.2	.2	.4	.1	.0	.2	.0		1.7	
	22+	.9	.3	.2	.1	.0	.0	.3	1.2	.0		3.0	
	TOT %	1.3	.6	.5	.3	.6	.1	.7	1.7	.0	.0	5.8	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.4	.0	.0	.0	.2	.0	.0	.0	.0		.6	
	11-21	.2	.4	.0	.3	.4	.4	1.5	1.4	.0		4.5	
	22+	.2	.2	.0	.3	.3	.2	.0	.5	.0		1.7	
	TOT %	.8	.6	.0	.6	.9	.6	1.5	1.9	.0	.2	7.1	
1<2	0-3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.6	.3	.2	.1	.2	.4	.2	.2	.0		2.2	
	11-21	1.4	.7	.0	.0	.0	.2	.3	2.3	.0		4.9	
	22+	1.0	.2	.4	.2	.0	.1	1.5	1.3	.0		4.7	
	TOT %	3.2	1.2	.5	.3	.2	.8	2.0	3.9	.0	.0	12.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.2	
	4-10	1.7	.1	.2	.2	.4	.3	.8	1.0	.0		4.7	
	11-21	2.7	2.1	.8	.4	.4	.2	1.0	2.2	.0		9.7	
	22+	.6	.2	.2	.0	.0	.0	.4	.9	.0		2.4	
	TOT %	5.1	2.4	1.2	.6	.8	.5	2.4	4.1	.0	.0	17.0	
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.1	
	4-10	2.0	1.7	1.0	.1	.3	.4	.8	.7	.0		7.1	
	11-21	2.7	.8	.2	.1	1.1	.9	1.8	3.1	.0		10.8	
	22+	.4	.2	.6	.4	.0	.4	.6	.3	.0		3.0	
	TOT %	5.2	2.7	1.8	.6	1.5	1.8	3.2	4.1	.0	1.1	21.9	
10+	0-3	.0	.2	.2	.0	.2	.3	.0	.0	.0	1.9	2.8	
	4-10	4.1	3.1	2.6	.5	.3	.5	1.0	1.9	.0		14.2	
	11-21	2.5	4.4	1.8	1.2	.2	.3	1.3	2.8	.0		14.4	
	22+	1.3	.8	.7	.3	.4	.0	.4	.9	.0		4.7	
	TOT %	8.0	8.3	5.3	2.0	1.1	1.1	2.7	5.7	.0	1.9	36.1	
	TOT OBS												465
	TOT PCT	23.4	15.9	9.5	4.4	5.1	4.8	12.5	21.3	.0	3.2	100.0	

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TABLE 10

AREA 0021 OKHOTSK SEA SE
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PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	9.1	.6	2.4	7.9	18.8	17.6	6.1	1.8	.6	3.6	68.5	31.5	165
06&09	8.8	.0	3.7	4.4	14.0	25.0	5.9	1.5	2.2	2.9	68.4	31.6	136
12&15	17.0	.0	.9	1.9	20.8	18.9	4.7	.0	6.6	.9	71.7	28.3	106
18&21	18.1	.0	2.1	1.1	9.6	23.4	4.3	1.1	4.3	2.1	66.0	34.0	94
TOT	62	1	12	22	81	105	27	6	15	13	344	157	501
PCT	12.4	.2	2.4	4.4	16.2	21.0	5.4	1.2	3.0	2.6	68.7	31.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	6.2	9.3	10.8	13.9	21.6	38.1	194
06&09	3.0	6.7	11.0	22.6	21.3	35.4	164
12&15	6.0	9.3	16.0	18.0	22.7	28.0	150
18&21	8.0	5.6	10.4	20.0	27.2	28.8	125
TOT	36	50	76	116	145	210	633
PCT	5.7	7.9	12.0	18.3	22.9	33.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	8.6	19.0	40.5	28.8	30.7	163
06&09	9.0	16.4	40.3	32.8	26.9	134
12&15	17.8	27.7	52.5	20.8	26.7	101
18&21	18.7	27.5	49.5	20.9	29.7	91
TOT	61	106	218	131	140	489
PCT	12.5	21.7	44.6	26.8	28.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	.9	.0	1	.9
40/44	.0	.0	.0	.0	.0	.9	.9	.0	2	1.8
35/39	.0	.0	.0	.0	.0	.0	.0	2.7	3	2.7
30/34	.0	.0	.0	.9	4.5	1.8	.9	3.6	13	11.7
25/29	.0	.0	.0	2.7	1.8	6.3	6.3	8.1	28	25.2
20/24	.0	.0	.0	.9	3.6	2.7	7.2	9.9	27	24.3
15/19	.0	.0	.0	.0	.0	2.7	3.6	14.4	23	20.7
10/14	.0	.0	.0	.0	.0	.0	.0	3.6	4	3.6
5/9	.0	.0	.0	.0	.0	.0	.9	8.1	10	9.0
TOTAL	0	0	0	5	11	16	23	56	111	100.0
PCT	.0	.0	.0	4.5	9.9	14.4	20.7	50.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0
40/44	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0
35/39	.0	.0	.0	.0	.9	1.8	.0	.0	.0	.0
30/34	3.2	3.2	2.7	.9	.0	.9	.0	.0	.0	.9
25/29	5.6	2.7	4.1	4.5	2.0	1.1	.9	4.3	.0	.0
20/24	5.9	4.7	1.6	.5	1.4	3.6	1.8	5.0	.0	.0
15/19	11.0	2.3	.0	.0	.0	.9	1.6	5.0	.0	.0
10/14	.9	.0	.0	.0	.0	.0	.9	1.8	.0	.0
5/9	3.4	.9	.9	.0	.0	.0	.0	3.8	.0	.0
PCT	30.0	13.7	9.2	5.9	6.1	8.3	6.1	19.8	.0	.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	43	33	19	3	-4	-9	18.6	193
06&09	51	50	33	18	1	-2	-3	17.9	163
12&15	45	39	32	16	3	0	-4	16.4	152
18&21	38	37	32	18	3	-2	-2	17.1	124
TOT	51	39	32	18	3	-2	-9	17.6	632

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	7.7	7.7	17.9	20.5	46.2	85	39
06&09	.0	5.9	11.8	11.8	29.4	41.2	83	34
12&15	.0	.0	11.1	16.7	11.1	61.1	88	18
18&21	.0	.0	10.0	10.0	15.0	65.0	90	20
TOT	0	5	11	16	23	56	86	111

FEBRUARY

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1941-1974

AREA 0021 OKHOTSK SEA SE
52.6N 154.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2	.0	.4
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	3	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
3	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	4	.0	.8
2	.0	.0	.0	.0	.0	.0	.0	.6	.2	.0	.2	.0	.0	5	.0	1.0
1	.0	.0	.0	.0	.0	.0	.0	.6	.4	.0	.2	.0	.0	6	.2	1.0
0	.0	.0	.0	.0	.0	.0	.0	1.6	.4	.4	.0	.0	.0	12	.0	2.4
-1	.0	.0	.0	.0	.0	.0	.8	.6	.4	.2	.0	.0	.0	10	.0	2.0
-2	.0	.0	.0	.0	.0	.0	1.2	1.4	.6	.0	.0	.0	.0	16	.2	3.0
-3	.0	.0	.0	.0	.0	.0	1.6	.8	.2	.0	.0	.0	.0	13	.0	2.6
-4	.0	.0	.0	.0	.0	.2	2.0	1.6	.2	.0	.0	.0	.0	20	.0	4.0
-5	.0	.0	.0	.0	.0	1.2	2.0	1.0	.2	.0	.0	.0	.0	22	.0	4.4
-6	.0	.0	.0	.0	.0	2.0	.8	1.0	.0	.0	.0	.0	.0	19	.0	3.8
-7/-8	.0	.0	.0	.0	.0	3.2	1.2	.0	.0	.0	.0	.0	.0	22	.2	4.2
-9/-10	.0	.0	.0	.0	.8	2.2	1.6	.0	.0	.0	.0	.0	.0	23	.0	4.5
-11/-13	.0	.0	.0	.6	4.9	4.3	.6	.0	.0	.0	.0	.0	.0	53	.2	10.3
-14/-16	.0	.0	.4	3.2	5.3	1.8	.6	.0	.0	.0	.0	.0	.0	57	.2	11.1
-17/-19	.0	.0	4.5	2.8	1.8	.4	.0	.0	.0	.0	.0	.0	.0	48	.2	9.3
-20/-22	.0	2.8	4.5	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	.2	10.9
-23/-25	.8	4.7	4.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	51	.2	9.9
-26/-30	2.6	4.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	40	.2	7.7
<-30	3.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	.2	3.8
TOTAL	32	62	76	54	66	77	62	47	18	5	3	1	3	506	10	496
PCT	6.3	12.3	15.0	10.7	13.0	15.2	12.3	9.3	3.6	1.0	.6	.2	.6	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	4.9	.4	.0	.0	.0	5.6
1-2	.0	2.0	3.0	.0	.0	.0	4.9
3-4	.0	.3	2.1	.7	.0	.0	3.1
5-6	.0	.3	1.6	.0	.0	.0	1.9
7	.0	.0	1.2	1.5	.0	.0	2.7
8-9	.0	.4	1.1	.0	.0	.0	1.5
10-11	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.4	.4	.0	.0	.8
13-16	.0	.0	.0	1.0	.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	7.9	9.6	4.5	.0	.0	22.3

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	3.0	.8	.0	.0	.0	4.2
1-2	.0	1.2	5.3	.0	.0	.0	6.5
3-4	.0	.1	1.6	.8	.0	.0	2.5
5-6	.0	.1	1.8	.8	.0	.0	2.7
7	.0	.0	.1	.4	.0	.0	.5
8-9	.0	.0	.1	.4	.0	.0	.5
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.3	9.6	2.7	.0	.0	17.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.4	.0	.0	.0	2.2
1-2	.0	.8	.8	.0	.0	.0	1.6
3-4	.0	.0	1.7	.4	.0	.0	2.1
5-6	.0	.0	.0	1.0	.0	.0	1.0
7	.0	.4	.3	.7	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.0	3.1	2.1	.0	.0	8.2

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5
1-2	.0	.5	.4	.0	.0	.0	.9
3-4	.0	.0	2.0	.1	.0	.0	2.1
5-6	.0	.0	.4	.2	.0	.0	.6
7	.0	.0	.0	.5	.0	.0	.5
8-9	.0	.0	.2	.8	.0	.0	1.0
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	3.3	1.6	.0	.0	5.9

PERIOD: (OVER-ALL) 1963-1974 FEBRUARY AREA 0021 OKHOTSK SEA SE

TABLE 18 (CONT) 52.6N 154.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7	.5	.6	.0	.0	.0	.0	1.1
1-2	.0	.3	.4	.0	.0	.0	.7	.0	.4	.4	.0	.0	.0	.8
3-4	.0	.4	.7	.7	.0	.0	1.8	.0	.4	.5	.0	.0	.0	.9
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.3	.4	.0	.0	.7	.0	.4	.5	.4	.0	.0	1.3
8-9	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.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
TOT PCT	.3	1.1	2.7	1.1	.0	.0	5.1	.5	1.8	1.5	.8	.1	.0	4.6

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.3	2.1	.3	.0	.0	.0	2.7	.1	1.8	1.3	.0	.0	.0	3.1	
1-2	.0	1.8	1.1	.0	.0	.0	2.9	.0	1.0	3.2	.0	.0	.0	4.2	
3-4	.0	.4	3.1	.0	.0	.0	3.4	.0	.0	3.4	.1	.0	.0	3.5	
5-6	.0	.0	2.3	.4	.0	.0	2.7	.0	.0	3.4	.4	.8	.0	4.6	
7	.0	.0	.0	.6	.0	.0	.6	.0	.0	.4	1.1	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.4	.0	.3	.0	.7	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.3	.0	.0	.0	.3	.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	
TOT PCT	.3	4.2	7.4	1.0	.3	.0	13.2	.1	2.8	11.9	2.9	1.2	.0	18.8	95.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.7	15.0	3.1	.0	.0	.0	24.8	
1-2	.0	7.9	14.6	.0	.0	.0	22.4	
3-4	.0	1.6	15.0	2.8	.0	.0	19.3	
5-6	.0	.4	10.2	2.8	.8	.0	14.2	
7	.0	.8	2.8	5.5	.0	.0	9.1	
8-9	.0	.4	2.0	2.0	.0	.0	4.3	
10-11	.0	.0	.4	1.2	.0	.0	1.6	
12	.0	.0	.4	.8	.4	.0	1.6	
13-16	.0	.0	.4	1.6	.4	.0	2.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.4	.0	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.7	26.0	49.2	16.5	1.6	.0	100.0	234

PERIOD: (OVER-ALL) 1951-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.4	12.3	10.7	7.5	4.0	1.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	4
6-7	.0	.5	1.6	3.8	4.3	4.0	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	7
8-9	.0	.3	.3	1.3	1.3	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
10-11	.0	.5	.3	.3	.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	7
12-13	.0	.0	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	3
>13	.0	.0	.0	.3	.8	.0	.0	.3	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	12
INDET	20.6	3.2	3.5	3.2	1.9	.8	.3	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	2
TOTAL	86	63	65	62	47	25	10	4	10	0	1	0	0	0	0	0	0	0	0	373	4
PCT	23.1	16.9	17.4	16.6	12.6	6.7	2.7	1.1	2.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

AREA 0021 OKHOTSK SEA SE
52.6N 154.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	.0	.0	25.3	.0	.0	25.3	5.6	.0	2.4	.0	.0	.0		66.7
NE	.0	.0	.0	.0	11.6	.0	.0	11.8	.0	.0	4.7	.0	.0	.0		83.5
E	.0	.0	.0	.0	27.6	.0	.0	27.6	1.5	.0	5.9	.0	.0	.0		65.0
SE	2.3	2.3	.0	.0	29.0	.0	.0	33.5	2.8	.0	2.8	.0	.0	.0		60.8
S	.0	.0	.0	.0	16.6	2.5	.0	19.0	3.7	.0	1.8	.0	.0	1.8		73.6
SW	.0	.0	.5	.0	27.6	.0	.0	27.4	7.0	.0	.0	.0	.0	.5		65.1
W	.0	.0	1.0	.0	36.4	.0	.0	37.4	3.7	.0	1.4	.0	.0	.0		57.5
NW	3.1	.0	.0	.0	30.5	.0	.0	31.5	6.0	.0	3.4	.0	.0	.0		59.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	16.7	.0	.0	16.7	.0	.0	4.2	.0	.0	.0		79.2
TOT PCT	.7	.2	.2	.0	25.8	.2	.0	26.7	3.9	.0	2.9	.0	.0	.2		66.4
TOT OBS:	559															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	.5	.0	.5	.0	21.4	.5	.0	23.0	3.2	.0	3.7	.0	.0	.5		69.5
06&09	.0	.6	.0	.0	23.5	.0	.0	24.1	5.3	.0	2.9	.0	.0	.0		67.6
12&15	1.4	.0	.0	.0	27.7	.0	.0	27.7	4.1	.0	.7	.0	.0	.0		67.6
18&21	.8	.0	.0	.0	31.1	.0	.0	31.9	1.7	.0	5.9	.0	.0	.8		59.7
TOT PCT	.6	.2	.2	.0	25.3	.2	.0	26.1	3.7	.0	3.2	.0	.0	.3		66.7
TOT OBS:	624															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.4	8.4	9.0	2.9	.0	.0		20.7	13.6	20.2	15.9	23.6	30.6	20.1	22.2	17.9	16.1
NE	.3	7.3	2.6	1.1	.0	.0		11.2	10.0	13.0	2.3	15.9	.0	7.6	2.8	9.1	8.9
E	.4	3.2	3.0	1.4	1.1	.0		9.1	16.3	9.9	18.2	5.8	11.1	9.3	19.4	11.7	.0
SE	.0	3.3	1.6	1.1	.8	.0		6.8	16.7	9.7	18.2	6.0	.0	6.6	2.8	3.6	.0
S	.0	2.1	2.5	2.3	.5	.0		7.3	17.5	6.5	.0	7.7	11.1	8.1	.0	10.1	.0
SW	.0	3.3	2.8	3.5	.1	.0		9.7	17.3	9.2	18.2	7.1	11.1	11.0	11.1	9.4	21.4
W	.0	1.9	6.3	3.8	1.1	.0		13.1	19.9	8.3	18.2	14.9	16.7	15.9	11.1	12.7	21.4
NW	.2	4.3	8.3	4.0	.6	.0		17.4	16.9	16.2	9.1	16.5	19.4	16.4	30.6	19.2	32.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7							4.7	.0	7.0	.0	2.4	.0	4.9	.0	6.3	.0
TOT OBS	29	165	176	98	20	0	488		15.0	142	11	124	9	102	9	77	14
TOT PCT	5.9	33.8	36.1	20.1	4.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	3.3	10.3	6.1	.9	.0		20.7	12.6	19.9	24.1	20.3	17.6
NE	4.4	5.3	1.5	.1	.0		11.2	10.0	12.3	14.8	7.2	9.1
E	1.9	3.8	1.9	1.1	.4		9.1	16.3	10.5	6.2	10.1	9.9
SE	1.1	2.9	1.7	.6	.5		6.8	16.7	10.3	5.6	6.3	3.0
S	.8	2.7	3.0	.8	.0		7.3	17.5	6.0	7.9	7.4	8.5
SW	.9	4.0	3.5	1.3	.0		9.7	17.3	9.8	7.3	11.0	11.3
W	.6	4.0	5.7	2.7	.0		13.1	19.9	9.0	15.0	15.5	14.0
NW	1.5	8.1	5.7	1.9	.2		17.4	16.9	15.7	16.7	17.6	21.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.7						4.7	.0	6.5	2.3	4.5	5.5
TOT OBS	94	201	142	46	5	488		15.0	153	133	111	91
TOT PCT	19.3	41.2	29.1	9.4	1.0		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

AREA 0021 OKHOTSK SEA SE
52.6N 154.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	6.5	2.0	37.3	35.3	15.7	3.3	.0	14.0	100.0	153
06&09	2.3	1.5	34.6	34.6	22.6	4.5	.0	15.5	100.0	133
12&15	4.5	.9	34.2	36.0	21.6	2.7	.0	15.0	100.0	111
18&21	5.5	.0	26.4	39.6	22.0	6.6	.0	16.2	100.0	91
TOT	23	6	165	176	98	20	0	15.0		488
PCT	4.7	1.2	33.8	36.1	20.1	4.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.1	1.1	4.4	10.9		6.1
NE	3.4	2.2	1.7	3.9		4.4
E	1.0	.8	2.3	5.1		6.3
SE	.8	.8	2.4	3.6		6.1
S	.2	.4	2.1	4.5		6.9
SW	.7	.5	3.1	6.0		6.7
W	1.8	.3	5.8	5.3		5.9
NW	2.1	2.0	4.4	9.4		6.1
VAR	.0	.0	.0	.0		.0
CALM	1.7	.8	.8	.8		3.9
TOT OBS	70	43	128	232	473	5.9
TOT PCT	14.8	9.1	27.1	49.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.7	.0	.0	1.7	3.9	5.7	1.4	.4	.2	.0	4.6	
NE	.7	.0	.0	.3	.7	1.4	.5	.0	.0	.9	6.0	
E	1.2	.0	.0	.0	1.1	2.0	.4	.0	.0	1.5	3.0	
SE	.7	.0	.0	.2	1.1	2.4	.1	.4	.0	.4	2.4	
S	.6	.0	.0	.2	1.9	2.7	.5	.0	.4	.2	.7	
SW	.4	.0	.3	.3	1.8	4.0	.1	.0	.1	.7	2.8	
W	.7	.0	.2	.4	3.4	3.9	.2	.4	.3	.2	3.6	
NW	1.4	.0	.2	.6	4.8	5.4	.6	.1	.3	.0	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.4	1.1	.0	.0	.0	.0	2.5	
TOT OBS	37	0	3	17	90	135	18	6	6	18	143	473
TOT PCT	7.8	.0	.6	3.6	19.0	28.5	3.8	1.3	1.3	3.8	30.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	3.6	4.8	5.2	5.5	5.5	5.5	5.5	5.5
* OR >5000	4.2	5.7	6.3	6.7	6.7	6.7	6.7	6.7
* OR >3500	7.1	9.5	10.7	11.1	11.1	11.1	11.1	11.1
* OR >2000	19.7	31.5	37.2	39.5	39.5	39.5	39.5	39.5
* OR >1000	22.9	38.5	47.7	55.7	57.4	57.6	58.4	58.4
* OR >600	23.7	40.3	50.4	59.2	61.1	61.3	62.0	62.0
* OR >300	23.7	40.3	51.0	59.7	61.6	61.8	62.8	62.8
* OR >150	23.7	40.3	51.0	59.7	61.6	61.8	62.8	62.8
* OR > 0	23.7	41.4	53.2	63.4	67.4	68.9	71.0	71.2
TOTAL	124	217	279	332	353	361	372	373

TOTAL NUMBER OF OBS: 524

PCT FREQ NH <5/8: 28.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.0	2.5	3.2	5.6	3.5	6.5	10.0	10.3	36.8	7.7	571

PERIOD: (PRIMARY) 1967-1974
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.1	.1	.3	.9	.2	.5	.4	.7	.0	.0	3.2	
<1/2	NO PCP	.1	.2	.3	.1	.1	.0	.0	*	.0	.0	.9	
	TOT %	.3	.3	.6	1.0	.3	.5	.4	.8	.0	.0	4.1	
	PCP	.7	.2	.7	.2	.0	*	1.3	.8	.0	.0	3.9	
1/2<1	NO PCP	.4	.0	.0	.0	.0	.0	.0	.2	.0	.0	.5	
	TOT %	1.0	.2	.7	.2	.0	*	1.3	.9	.0	.0	4.4	
	PCP	2.7	.4	.9	.9	.7	1.2	1.5	2.4	.0	.4	11.0	
1<2	NO PCP	.1	.2	.2	.2	.0	.0	.2	*	.0	.0	.9	
	TOT %	2.8	.6	1.1	1.1	.7	1.2	1.6	2.5	.0	.4	11.9	
	PCP	1.3	*	.6	.4	.5	.6	1.9	1.2	.0	.2	6.9	
2<5	NO PCP	.6	.4	.6	.3	.7	.4	.6	1.2	.0	.0	4.8	
	TOT %	1.9	.4	1.2	.8	1.2	1.0	2.5	2.4	.0	.2	11.7	
	PCP	.4	.5	.0	.0	.0	.2	.3	.7	.0	.2	2.3	
5<10	NO PCP	5.0	1.5	1.3	.6	2.8	2.4	2.7	4.0	.0	.2	20.5	
	TOT %	5.4	2.1	1.3	.6	2.8	2.6	2.9	4.7	.0	.4	22.8	
	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
10+	NO PCP	8.7	7.7	4.1	4.0	2.2	4.2	4.7	6.1	.0	3.4	45.0	
	TOT %	8.7	7.7	4.1	4.2	2.2	4.2	4.7	6.1	.0	3.4	45.1	
	TOT OBS												565
	TOT PCT	20.1	11.3	9.0	7.8	7.2	9.5	13.5	17.4	.0	4.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
<1/2	4-10	.2	.2	.0	.0	.0	.0	.0	.1	.0		.4	
	11-21	.0	.1	.2	.2	.0	.0	.0	.2	.0		.6	
	22+	.2	.1	.2	.5	.2	.2	.4	.6	.0		2.3	
	TOT %	.3	.3	.4	.7	.2	.2	.4	.9	.0	.0	3.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.4	.0	.0	.2	.0	.0	.2	.1	.0		.8	
	11-21	.0	.0	.0	.0	.0	.0	.4	.1	.0		.4	
	22+	.6	.1	.6	.1	.0	.0	.7	.5	.0		2.5	
	TOT %	1.0	.1	.6	.3	.0	.0	1.2	.6	.0	.0	3.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
1<2	4-10	.7	.1	.4	.2	.4	.3	.4	.8	.0		3.3	
	11-21	1.9	.0	.4	.2	.2	.3	1.2	1.2	.0		5.4	
	22+	.2	.2	.4	.2	.2	.9	.3	.7	.0		3.1	
	TOT %	2.8	.3	1.2	.6	.8	1.4	1.9	2.7	.0	.4	12.2	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
2<5	4-10	.6	.5	.4	.3	.2	.5	.2	.2	.0		2.7	
	11-21	.9	.0	.4	.0	.2	.1	.7	1.0	.0		3.3	
	22+	.6	.1	.5	.1	.6	.3	.9	.8	.0		3.7	
	TOT %	2.1	.5	1.3	.4	.9	.8	1.8	2.0	.0	.2	9.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
5<10	4-10	1.4	.9	.3	.1	1.0	.9	.2	.7	.0		5.4	
	11-21	3.0	.7	.4	.1	.8	.9	1.1	2.2	.0		9.1	
	22+	.6	.5	.5	.3	1.2	.9	1.2	1.0	.0		6.2	
	TOT %	5.0	2.0	1.2	.4	3.0	2.7	2.5	3.9	.0	.2	20.9	
	0-3	.4	.3	.4	.0	.0	.0	.0	.2	.0	3.9	5.2	
10+	4-10	5.2	5.7	2.1	2.6	.6	1.7	1.0	2.5	.0		21.5	
	11-21	3.1	1.9	1.7	1.1	1.4	1.6	2.9	3.6	.0		17.2	
	22+	.9	.3	.3	.8	.6	1.2	1.2	.8	.0		6.0	
	TOT %	9.5	8.1	4.6	4.5	2.5	4.5	5.2	7.1	.0	3.9	49.9	
	TOT OBS												483
	TOT PCT	20.7	11.3	9.2	6.8	7.4	9.6	13.0	17.1	.0	4.8	100.0	

MARCH

PERIOD: (PRIMARY) 1967-1974
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	8.0	.0	1.1	4.0	15.4	29.1	4.6	1.1	2.3	3.4	69.1	30.9	175
06&09	5.3	.0	.7	3.3	17.2	31.8	6.0	2.0	2.0	4.0	72.2	27.8	151
12&15	6.1	.0	.9	2.6	20.0	26.1	3.5	.9	2.6	1.7	64.3	35.7	115
18&21	16.0	.0	.0	4.0	24.0	22.0	2.0	.0	.0	5.0	73.0	27.0	100
TOT	45	0	4	19	100	151	23	6	10	19	377	164	541
PCT	8.3	.0	.7	3.5	18.5	27.9	4.3	1.1	1.8	3.5	69.7	30.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	3.2	4.2	10.0	10.0	17.4	55.3	190
06&09	5.8	3.5	8.8	11.1	19.3	51.5	171
12&15	2.0	3.4	11.5	18.9	27.0	37.2	148
18&21	5.7	6.6	15.6	13.9	25.4	32.8	122
TOT	26	27	70	83	137	288	631
PCT	4.1	4.3	11.1	13.2	21.7	45.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	7.8	12.0	32.3	40.7	26.9	167
06&09	5.3	8.0	28.7	44.0	27.3	150
12&15	6.4	8.3	34.9	34.9	30.3	109
18&21	16.3	22.4	46.9	30.6	22.4	98
TOT	44	63	181	202	141	524
PCT	8.4	12.0	34.5	38.5	26.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.8	.0	.0	.0	1	.8
40/44	.0	.0	.0	.8	.0	.0	.0	.0	1	.8
35/39	.0	.0	.0	.0	.0	1.6	.0	.8	3	2.4
30/34	.0	.0	.0	.8	2.4	3.1	6.3	7.1	25	19.7
25/29	.0	.0	.0	.8	3.1	5.5	8.7	11.8	38	29.9
20/24	.0	.0	.0	.0	.8	3.1	7.1	18.9	38	29.9
15/19	.0	.0	.0	.0	.0	1.6	1.6	6.3	12	9.4
10/14	.0	.0	.0	.0	.0	.0	2.4	3.9	8	6.3
5/9	.0	.0	.0	.0	.0	.0	.0	.8	1	.8
TOTAL	0	0	0	3	9	19	33	63	127	100.0
PCT	.0	.0	.0	2.4	7.1	15.0	26.0	49.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	1.4	1.0	.0	.0	.0	.0	.0	.0
1.4	5.9	4.7	4.5	2.0	1.2	.0	.0	.0	.0
2.0	2.8	2.2	3.5	1.4	8.7	5.3	4.1	.0	.0
7.9	2.4	4.5	.0	2.0	1.4	5.3	6.5	.0	.0
2.0	.0	.6	.2	.6	1.0	1.6	3.5	.0	.0
3.0	.0	.0	.0	.0	.0	.8	2.6	.0	.0
.0	.0	.0	.0	.0	.0	.0	.8	.0	.0
16.1	12.6	13.4	9.3	5.9	13.0	12.2	17.5	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	45	36	34	25	12	7	-4	24.2	177
06&09	41	40	37	26	13	9	7	25.4	158
12&15	38	36	32	23	13	7	3	22.9	143
18&21	39	37	32	23	9	-2	-2	22.0	112
TOT	45	39	34	25	11	7	-4	23.8	590

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	6.5	12.9	25.8	16.1	38.7	82	31
06&09	.0	2.9	2.9	11.8	38.2	44.1	87	34
12&15	.0	.0	3.0	12.1	27.3	57.6	89	33
18&21	.0	.0	10.3	10.3	20.7	58.6	88	29
TOT	0	3	9	19	33	63	87	127

MARCH

PERIOD: (PRIMARY) 1967-1974
(OVER-ALL) 1936-1974

AREA 0021 OKHOTSK SEA SE
52.6N 154.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	2	.0	.4
6	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.0	3	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	.2	1.0	.2	.0	.2	8	.4	1.2
3	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.4	.0	.0	10	.2	1.9
2	.0	.0	.0	.0	.0	.0	.0	1.6	.6	.2	.0	.0	12	.0	2.5
1	.0	.0	.0	.0	.0	.0	.0	2.3	1.0	.0	.0	.0	16	.0	3.3
0	.0	.0	.0	.0	.0	.0	.2	5.6	.4	.2	.0	.0	31	.4	6.0
-1	.0	.0	.0	.0	.0	.0	2.3	1.4	.2	.0	.0	.0	19	.0	3.9
-2	.0	.0	.0	.0	.0	.0	3.1	2.3	.4	.4	.0	.0	30	.2	6.0
-3	.0	.0	.0	.0	.0	.0	2.1	.6	.0	.2	.0	.0	14	.2	2.7
-4	.0	.0	.0	.0	.0	.0	3.3	1.0	.2	.0	.0	.0	22	.0	4.5
-5	.0	.0	.0	.0	.0	1.6	3.7	.8	.0	.0	.0	.0	30	.0	6.2
-6	.0	.0	.0	.0	.0	2.7	2.1	.4	.0	.0	.0	.0	25	.0	5.2
-7/-8	.0	.0	.0	.0	.2	6.6	3.7	.4	.0	.0	.0	.0	53	.0	10.9
-9/-10	.0	.0	.0	.0	4.1	5.6	1.4	.0	.0	.0	.0	.0	54	.8	10.3
-11/-13	.0	.0	.0	1.6	4.9	3.9	.8	.8	.0	.0	.0	.0	58	.0	12.0
-14/-16	.0	.0	.2	6.2	1.9	1.4	.4	.0	.0	.0	.0	.0	49	.4	9.7
-17/-19	.0	.0	2.1	1.9	.6	.0	.0	.0	.0	.0	.0	.0	22	.2	4.3
-20/-22	.0	.6	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	12	.2	2.3
-23/-25	.0	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.0	1.9
<-30	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	.6
TOTAL	2		23		57		112		23		1			15	470
		7		50		106		92		11		1	485		
PCT	.4	1.4	4.7	10.3	11.8	21.9	23.1	19.0	4.7	2.3	.2	.2	100.0	3.1	96.9

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.6	.7	.0	.0	.0	6.3
1-2	.0	1.0	1.9	.0	.0	.0	2.9
3-4	.0	.7	1.3	.7	.0	.0	2.7
5-6	.0	.0	1.5	.7	.0	.0	2.1
7	.0	.0	1.5	.9	.0	.0	2.4
8-9	.0	.0	.7	.7	.0	.0	1.5
10-11	.0	.0	.4	.7	.0	.0	1.1
12	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	7.9	4.4	.0	.0	19.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	7.3	.1	.0	.0	.0	7.4
1-2	.0	.4	1.3	.0	.0	.0	1.7
3-4	.0	.0	1.1	.4	.0	.0	1.5
5-6	.0	.0	.1	.1	.0	.0	.2
7	.0	.0	.1	.9	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.6	2.7	1.4	.0	.0	11.8

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.1	.0	.0	.0	.0	1.5
1-2	.0	.0	.7	.0	.0	.0	.7
3-4	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	.0	.0	.3	.4	.0	.7
7	.0	.0	.3	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.7	.0	.7
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.5	2.1	.9	1.0	.0	6.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.5	.0	.0	.0	.0	3.5
1-2	.0	.4	.4	.0	.0	.0	.7
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.1	.1	.0	.2
7	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.7	.0	.7
17-19	.0	.0	.0	.4	.0	.0	.7
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.2	.4	.7	1.3	.0	6.5

PERIOD: (OVER-ALL) 1963-1974

MARCH

TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
52.6N 154.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3
1-2	.0	.7	.6	.0	.0	.0	1.3
3-4	.0	.7	.9	.0	.0	.0	1.7
5-6	.0	.0	.6	.7	.3	.0	1.5
7	.0	.3	.4	1.3	.0	.0	2.0
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.3	.0	.3
17-19	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	3.2	2.3	.8	.0	8.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	.4	.2	.0	.0	.0	.6
3-4	.0	.6	.3	1.2	.0	.0	1.9
5-6	.0	.0	.6	.2	.0	.0	.7
7	.0	.1	.0	1.3	.0	.0	1.4
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.5	.1	.0	.9
17-19	.0	.0	.0	.0	.1	.0	.1
20-22	.0	.0	.0	.4	.0	.0	.4
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	1.4	4.8	.2	.0	7.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.4	1.4	.0	.0	.0	1.8
3-4	.0	.4	2.0	1.0	.0	.0	3.4
5-6	.0	.4	1.4	.6	.0	.0	2.3
7	.0	.0	1.1	.9	.3	.0	2.3
8-9	.0	.0	.0	.9	.0	.0	.9
10-11	.0	.0	.0	1.3	.0	.0	1.3
12	.0	.0	.0	.3	.7	.0	.9
13-16	.0	.0	.7	.8	.0	.0	1.6
17-19	.0	.0	.0	.4	.7	.0	1.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	6.6	6.3	1.6	.0	15.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	3.2	.0	.0	.0	.0	3.5	
1-2	.0	1.2	1.8	.0	.0	.0	3.0	
3-4	.0	.7	2.2	.5	.0	.0	3.5	
5-6	.0	.0	1.5	1.6	.0	.0	3.1	
7	.0	.0	.7	1.6	.5	.0	2.8	
8-9	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.6	.1	.0	.7	
13-16	.0	.0	.4	.9	.0	.0	1.3	
17-19	.0	.0	.0	.0	.5	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.1	6.6	5.8	1.0	.0	18.9	94.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	21.3	.7	.0	.0	.0	28.4	
1-2	.0	4.5	8.2	.0	.0	.0	12.7	
3-4	.0	3.4	9.0	3.7	.0	.0	16.0	
5-6	.0	.4	5.6	4.1	.7	.0	10.8	
7	.0	.4	4.1	7.8	.7	.0	13.1	
8-9	.0	.0	.7	2.6	.0	.0	3.4	
10-11	.0	.0	.7	3.4	.7	.0	4.9	
12	.0	.0	.4	1.1	.7	.0	2.2	
13-16	.0	.0	1.5	2.2	1.1	.0	4.9	
17-19	.0	.4	.0	1.1	1.9	.0	3.4	
20-22	.0	.0	.0	.4	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								268
TOT PCT	6.3	30.2	31.0	26.5	6.0	.0	100.0	

PERIOD: (OVER-ALL) 1958-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.5	7.1	9.8	5.4	4.4	1.1	.8	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	4
6-7	.0	1.1	1.9	1.9	4.6	1.9	.5	1.1	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	54	7
8-9	.0	.0	.3	.8	1.9	1.1	2.5	.3	1.9	.5	.8	.0	.3	.0	.0	.0	.0	.0	.0	38	11
10-11	.0	.3	.0	.5	.5	.3	.0	.8	1.1	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	20	12
12-13	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	4	15
>13	.0	.0	.0	.5	.3	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
INDET	23.2	1.6	2.2	1.1	.8	.3	.3	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	1
TOTAL	109	38	52	38	46	18	18	10	20	10	6	1	1	0	0	0	0	0	0	367	5
PCT	29.7	10.4	14.2	10.4	12.5	4.9	4.9	2.7	5.4	2.7	1.6	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

AREA 0021 OKHOTSK SEA SE
52.7N 154.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.5	.0	.0	4.7	.0	.0	5.1	.9	.0	6.5	.5	.0		.0	87.0
NE	.3	1.6	.0	.0	12.9	2.5	.0	17.3	4.7	.0	3.5	.0	.0		.0	74.5
E	1.1	.0	.0	.0	18.0	.0	.0	19.1	4.7	.0	4.3	1.4	.0		.0	70.5
SE	2.5	.0	.4	.0	13.7	1.4	.0	17.9	5.6	.0	16.5	.0	.0		.0	60.0
S	5.3	.0	2.3	.0	8.4	.0	.6	16.6	2.5	.0	24.2	.0	.0		.0	56.6
SW	2.5	.0	.0	.0	9.8	.0	.3	11.4	.0	.0	7.0	.0	1.3		.0	80.4
W	1.1	.0	2.2	.0	6.6	.0	.0	10.0	3.0	.0	5.3	.0	.0		.0	81.7
NW	.0	.0	.0	.0	8.2	.0	.0	8.2	2.5	.0	8.9	.2	.0		.0	80.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	2.2	.0	6.7	.0	.0	8.9	.0	.0	20.0	.0	.0		.0	71.1
TOT PCT	1.4	.2	.7	.0	9.2	.4	.1	11.9	2.5	.0	10.4	.2	.1		.0	74.8
TOT OBS:	829															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	.0	.5	.0	10.0	.9	.0	13.1	3.6	.0	8.1	.0	.0		.0	75.1
06&09	.8	.8	1.2	.0	9.8	.0	.4	13.0	2.4	.0	8.3	.4	.0		.0	76.0
12&15	.5	.0	.0	.0	8.1	.0	.0	8.6	3.6	.0	10.9	.0	.5		.0	76.5
18&21	2.6	.0	1.5	.0	7.7	.5	.0	11.8	2.1	.0	13.8	.5	.0		.0	71.8
TOT PCT	1.3	.2	.8	.0	9.0	.3	.1	11.7	2.9	.0	10.1	.2	.1		.0	75.0
TOT OBS:	891															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.8	7.6	8.6	2.6	.1	.0		19.8	13.7	18.1	15.3	16.7	23.9	21.5	25.6	22.1	20.6
NE	.2	3.8	4.0	.8	*	.0		8.8	12.5	9.4	.6	11.9	5.7	10.9	11.9	4.9	7.5
E	.4	2.2	4.0	.5	.4	.1		7.8	14.7	12.5	2.3	7.9	2.3	10.9	3.8	4.5	5.0
SE	.2	2.2	4.5	2.2	.5	.0		9.6	17.7	12.3	17.6	10.3	11.4	7.0	5.6	7.6	5.6
S	.5	3.4	6.8	2.6	.1	.0		13.4	15.1	13.0	19.9	13.6	15.3	12.3	9.4	12.7	15.8
SW	.5	3.0	4.8	.8	.3	.0		9.5	13.6	6.8	15.3	12.3	11.9	7.0	5.0	11.9	5.0
W	1.6	2.6	6.0	1.7	.0	.0		11.9	13.8	14.2	14.2	9.6	10.8	11.3	15.6	10.5	13.8
NW	.6	4.7	7.0	1.1	.4	.0		13.8	13.4	8.2	14.8	13.4	14.2	14.1	15.6	16.8	21.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4							5.4	.0	5.6	.0	4.3	4.5	4.9	7.5	9.0	5.0
TOT OBS	76	218	338	91	14	1	738		13.5	144	44	162	44	142	40	122	40
TOT PCT	10.3	29.5	45.8	12.3	1.9	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.9	10.6	5.0	1.1	.1		19.8	13.7	17.4	18.2	22.4	21.8
NE	1.6	4.7	2.2	.2	.0		8.8	12.5	7.3	10.6	11.1	5.6
E	.8	4.8	1.4	.6	.1		7.8	14.7	10.1	6.7	9.3	4.6
SE	1.4	3.4	3.2	1.5	.2		9.6	17.7	13.6	10.6	6.7	7.1
S	1.6	6.4	4.6	.6	.1		13.4	15.1	14.6	14.0	11.7	13.4
SW	2.2	4.1	2.8	.4	.0		9.5	13.6	8.8	12.3	6.6	10.2
W	3.3	4.0	3.7	.9	.0		11.9	13.8	14.2	9.8	12.2	11.3
NW	2.1	8.1	3.0	.6	.0		13.8	13.4	9.7	13.6	14.4	18.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	4.3	4.4	5.5	8.0
TOT OBS	158	341	192	43	4	738		13.5	188	206	182	162
TOT PCT	21.4	46.2	26.0	5.8	.5		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

AREA 0021 OKHOTSK SEA SE
52.7N 154.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.3	5.9	31.9	43.1	13.3	1.6	.0	13.6	100.0	188
06&09	4.4	1.0	25.7	53.9	12.6	2.4	.0	14.4	100.0	206
12&15	5.5	7.1	26.9	48.9	10.4	.5	.5	13.0	100.0	182
18&21	8.0	6.2	34.6	35.2	13.0	3.1	.0	12.6	100.0	162
TOT	40	36	218	338	91	14	1	13.5		738
PCT	5.4	4.9	29.5	45.8	12.3	1.9	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.5	2.5	5.6	8.0		5.5
NE	1.4	.9	2.7	4.7		6.2
E	.7	.5	1.3	4.8		6.6
SE	1.0	.2	1.8	5.6		6.7
S	1.3	.9	2.8	9.4		6.7
SW	1.0	.8	1.7	5.9		6.5
W	3.6	1.3	2.7	3.7		4.7
NW	3.2	.9	3.6	6.2		5.4
VAR	.0	.0	.0	.0		.0
CALM	1.8	.3	.9	2.6		5.1
TOT OBS	131	62	171	377	741	5.9
TOT PCT	17.7	8.4	23.1	50.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.4	.0	.1	3.3	3.5	3.2	1.0	.0	.0	.0	7.1	
NE	.9	.0	.3	.4	2.4	1.4	.6	.3	.5	.0	2.9	
E	.7	.1	.1	.6	2.4	.9	.7	.0	.1	.0	1.7	
SE	2.0	.2	*	1.0	.9	2.3	.5	.2	.1	.0	1.4	
S	5.1	.1	.2	1.5	1.9	1.4	1.2	.2	.1	.0	2.7	
SW	1.2	.0	.3	.8	1.6	1.9	.7	.1	.0	.0	2.8	
W	1.0	.1	.3	.7	2.0	.7	.3	.2	.4	.0	5.6	
NW	1.0	.1	.6	1.9	2.4	1.5	.6	.0	.0	.0	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5	.0	.0	.7	.3	.5	.4	.0	.0	.1	2.0	
TOT OBS	109	5	15	81	129	102	44	7	10	1	238	741
TOT PCT	14.7	.7	2.0	10.9	17.4	13.8	5.9	.9	1.3	.1	32.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.2	1.4	1.5	1.5	1.5	1.5	1.5	1.5
* OR >5000	1.8	2.5	2.6	2.6	2.6	2.6	2.6	2.6
* OR >3500	5.0	7.6	8.3	8.3	8.4	8.4	8.6	8.6
* OR >2000	11.7	19.1	21.0	21.4	21.8	21.9	22.2	22.2
* OR >1000	16.4	31.5	36.6	37.4	38.6	38.7	39.1	39.1
* OR >600	17.2	36.6	45.7	47.4	49.3	50.1	50.5	50.5
* OR >300	17.2	37.0	46.5	48.4	50.8	51.7	52.3	52.3
* OR >150	17.2	37.2	46.7	48.8	51.4	52.3	52.8	52.8
* OR > 0	17.3	37.5	48.6	52.1	56.4	58.8	66.7	67.5
TOTAL	134	291	377	404	437	456	517	523

TOTAL NUMBER OF OBS: 775 PCT FREQ NH <5/8: 32.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.3	3.8	7.8	4.5	5.6	5.2	9.9	8.0	30.1	13.8	821

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

AREA 0021 OKHOTSK SEA SE
52.7N 154.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.4	.4	.3	.6	.2	.2	.1	.0	.1	2.4	
<1/2	NO PCP	1.2	.3	.1	1.3	3.2	.5	.6	.7	.0	1.0	8.9	
	TOT %	1.2	.7	.6	1.6	3.8	.7	.8	.8	.0	1.1	11.3	
	PCP	.2	.5	.5	.8	.5	.2	.1	.3	.0	.0	3.1	
1/2<1	NO PCP	.1	.0	.1	.2	.2	.0	.0	.2	.0	.0	1.0	
	TOT %	.3	.5	.6	1.0	.7	.2	.1	.5	.0	.0	4.1	
	PCP	.1	.6	.1	.3	.6	.4	.3	.1	.0	.4	2.9	
1<2	NO PCP	.1	.0	.0	.2	.0	.0	.0	.5	.0	.0	.8	
	TOT %	.2	.6	.1	.6	.6	.4	.3	.6	.0	.4	3.7	
	PCP	.7	.1	.3	.3	.5	.2	.4	.2	.0	.0	2.9	
2<5	NO PCP	1.4	1.0	1.0	.3	1.7	1.6	1.0	1.5	.0	.6	10.1	
	TOT %	2.1	1.2	1.3	.6	2.2	1.9	1.3	1.7	.0	.6	12.9	
	PCP	.1	.0	.1	.0	.1	.2	.2	.4	.0	.0	1.1	
5<10	NO PCP	6.7	2.3	3.0	1.5	4.0	2.1	2.7	3.1	.0	.7	26.2	
	TOT %	6.8	2.3	3.1	1.5	4.1	2.3	2.9	3.5	.0	.7	27.3	
	PCP	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
10+	NO PCP	9.4	4.2	2.5	3.4	2.7	4.1	5.5	6.0	.0	2.6	40.5	
	TOT %	9.5	4.3	2.6	3.4	2.7	4.1	5.5	6.0	.0	2.6	40.7	
	TOT OBS												835
	TOT PCT	20.1	9.5	8.3	8.8	14.2	9.6	10.9	13.2	.0	5.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.1	.0	.0	.0	.1	.3	.4	.0	.0	1.3	2.2	
<1/2	4-10	1.0	.2	.0	.4	1.2	.2	.1	.7	.0		3.8	
	11-21	.0	.1	.1	.4	1.2	.1	.1	.1	.0		2.2	
	22+	.0	.0	.4	.5	.0	.0	.3	.0	.0		1.1	
	TOT %	1.1	.4	.5	1.2	2.5	.7	.9	.8	.0	1.3	9.4	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.1	.1	.0	.1	.3	.1	.0	.0	.0		.8	
	11-21	.0	.1	.4	.3	.4	.0	.1	.2	.0		1.5	
	22+	.1	.0	.1	.8	.2	.1	.0	.2	.0		1.5	
	TOT %	.2	.3	.6	1.2	.9	.3	.1	.4	.0	.0	3.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	
1<2	4-10	.0	.2	.1	.1	.1	.1	.0	.3	.0		.8	
	11-21	.1	.5	.3	.4	.5	.4	.3	.1	.0		2.7	
	22+	.1	.1	.0	.3	.2	.0	.1	.4	.0		1.3	
	TOT %	.2	.8	.4	.9	.8	.5	.4	.7	.0	.4	5.2	
	0-3	.1	.0	.1	.0	.1	.2	.1	.3	.0	.7	1.7	
2<5	4-10	1.1	.3	.8	.2	.4	.7	.1	.8	.0		4.3	
	11-21	1.0	.5	.7	.7	1.3	.8	.9	.7	.0		6.6	
	22+	.4	.3	.0	.3	.7	.4	.5	.4	.0		2.8	
	TOT %	2.5	1.1	1.6	1.2	2.5	2.0	1.7	2.2	.0	.7	15.4	
	0-3	.2	.1	.0	.0	.2	.1	.4	.1	.0	.8	2.0	
5<10	4-10	2.2	.6	.7	.4	.7	.7	1.3	1.0	.0		7.6	
	11-21	3.5	1.2	1.2	.6	2.8	1.6	1.6	2.1	.0		14.4	
	22+	1.0	.2	.4	.7	.8	.2	.2	.4	.0		3.6	
	TOT %	6.9	2.1	2.2	1.7	4.5	2.5	3.4	3.6	.0	.8	27.8	
	0-3	.3	.1	.3	.1	.0	.0	.7	.2	.0	2.2	3.9	
10+	4-10	3.4	2.3	.7	.9	.7	1.3	1.2	2.1	.0		12.6	
	11-21	4.2	1.7	1.5	1.8	.8	2.1	2.9	3.4	.0		18.4	
	22+	1.1	.2	.1	.3	.8	.5	.4	*	.0		3.4	
	TOT %	8.9	4.3	2.6	3.2	2.3	3.8	5.2	5.8	.0	2.2	38.3	
	TOT OBS												713
	TOT PCT	19.9	8.9	7.9	9.3	13.4	9.9	11.7	13.4	.0	5.5	100.0	

APRIL

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

AREA 0021 OKHOTSK SEA SE
52.7N 154.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	9.3	1.0	2.4	11.2	16.1	19.5	7.8	1.0	2.4	.5	71.2	28.8	205
06&09	12.2	.8	1.7	10.9	20.6	15.5	5.5	1.7	1.7	.0	70.6	29.4	238
12&15	17.3	.5	1.6	10.3	11.9	7.6	4.3	.5	.0	.0	54.1	45.9	185
18&21	19.2	.0	1.7	12.4	17.5	9.6	5.6	.6	1.1	.0	67.8	32.2	177
TOT	114	5	15	90	135	108	47	8	11	1	534	271	805
PCT	14.2	.6	1.9	11.2	16.8	13.4	5.8	1.0	1.4	.1	66.3	33.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	9.3	3.5	4.4	13.7	27.9	41.2	226
06&09	10.0	5.0	3.8	10.0	26.2	45.0	260
12&15	9.3	5.3	5.3	15.0	27.3	37.9	227
18&21	14.4	3.5	4.0	16.3	24.8	37.1	202
TOT	97	40	40	124	243	371	915
PCT	10.6	4.4	4.4	13.6	26.6	40.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	9.5	16.4	33.3	38.8	27.9	201
06&09	12.4	18.0	33.9	38.6	27.5	233
12&15	18.6	23.8	40.7	18.6	40.7	172
18&21	20.1	25.4	44.4	26.0	29.6	169
TOT	114	159	291	244	240	775
PCT	14.7	20.5	37.5	31.5	31.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
40/44	.0	.0	.0	.4	.8	.0	.4	.0	4	1.5
35/39	.0	.0	.0	.8	1.1	2.6	1.5	9.1	40	15.1
30/34	.0	.0	.0	.0	.8	3.4	13.2	38.5	148	55.8
25/29	.0	.0	.0	.4	.8	.8	2.6	18.5	61	23.0
20/24	.0	.0	.0	.0	.4	.0	.4	3.0	10	3.8
15/19	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	0	0	4	11	18	48	184	265	100.0
PCT	.0	.0	.0	1.5	4.2	6.8	18.1	69.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
	.0	.2	.6	.0	.0	.0	.0	.4	.0	.4
	2.4	1.8	1.1	1.9	3.6	.3	1.3	.1	.0	2.6
	10.6	4.2	4.3	4.1	14.9	4.9	5.0	6.7	.0	1.1
	6.4	.4	.0	.9	1.3	1.6	5.4	6.6	.0	.4
	1.3	.0	.0	.0	.0	.8	.4	.9	.0	.4
	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0
	20.7	6.6	6.4	6.9	19.8	7.5	12.1	15.1	.0	4.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	50	45	41	32	24	18	15	32.1	224
06&09	45	43	39	32	25	21	11	31.5	250
12&15	48	41	36	30	19	17	14	29.3	224
18&21	48	41	36	30	21	12	12	29.2	198
TOT	50	43	38	30	23	18	11	30.6	896

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.5	4.6	16.9	13.8	63.1	88	65
06&09	.0	2.6	3.9	6.5	23.4	63.6	90	77
12&15	.0	1.4	4.2	4.2	19.4	70.8	92	72
18&21	.0	1.5	3.1	.0	12.3	83.1	93	65
TOT	0	5	11	19	49	195	91	279

APRIL

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1937-1974

AREA 0021 OKHOTSK SEA SE
52.7N 154.0E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	3	.0	.5
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	3	.0	.5
9/10	.0	.0	.0	.0	.0	.0	.0	.4	.5	.4	6	.0	1.1
7/8	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	5	..	.5
6	.0	.0	.0	.0	.0	.0	.4	.9	.4	.4	11	.0	2.0
5	.0	.0	.0	.0	.0	.0	3..	1.8	.0	.0	27	.5	4.4
4	.0	.0	.0	.0	.0	1.1	5.3	.2	.4	.0	38	.4	6.5
3	.0	.0	.0	.0	.0	2.5	3.4	.7	.2	.0	38	.9	6.0
2	.0	.0	.0	.0	.0	6.2	3.3	.0	.2	.0	53	2.2	7.4
1	.0	.0	.0	.0	.0	8.2	1.8	.7	.0	.0	59	2.7	8.0
0	.0	.0	.0	.0	1.5	8.5	1.1	.2	.0	.0	63	2.0	9.4
-1	.0	.0	.0	.0	1.3	4.2	.2	.2	.0	.0	32	.4	5.4
-2	.0	.0	.0	.0	4.0	5.6	1.3	.0	.0	.0	60	.5	10.3
-3	.0	.0	.0	.0	3.4	2.0	.4	.0	.0	.0	32	.4	5.4
-4	.0	.0	.0	.0	4.2	1.5	.4	.0	.0	.0	33	.0	6.0
-5	.0	.0	.0	.5	4.0	1.8	.0	.0	.0	.0	35	.5	5.8
-6	.0	.0	.0	.7	1.3	.5	.0	.0	.0	.0	14	.2	2.4
-7/-8	.0	.0	.0	1.3	1.1	.5	.0	.0	.0	.0	16	.7	2.2
-9/-10	.0	.0	.4	.9	.4	.4	.0	.0	.0	.0	11	.0	2.0
-11/-13	.0	.0	.7	.4	.4	.0	.0	.0	.0	.0	8	.2	1.3
-14/-16	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
-17/-19	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
-20/-22	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1		8		118		113		11			66	485
		1		21		237		33		8	551		
PCT	.2	.2	1.5	3.8	21.4	43.0	20.5	6.0	2.0	1.5	100.0	12.0	88.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.0	.8	.0	.0	.0	4.6
1-2	.5	2.6	2.6	.0	.0	.0	5.7
3-4	.0	.2	1.7	1.0	.0	.0	3.0
5-6	.0	.0	1.7	.9	.0	.0	2.7
7	.0	.0	1.5	.2	.0	.0	1.7
8-9	.0	.0	.7	.5	.2	.0	1.4
10-11	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.8	9.0	3.3	.2	.0	19.7

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.7	.7	.0	.0	.0	2.6
1-2	.1	1.2	2.1	.0	.0	.0	3.5
3-4	.0	.8	.7	.1	.0	.0	1.5
5-6	.0	.0	.4	.1	.0	.0	.5
7	.0	.0	.5	.0	.1	.0	.6
8-9	.0	.0	.2	.2	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	4.7	.4	.1	.0	9.2

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.5	.0	.0	.0	.7
1-2	.0	.9	1.2	.0	.0	.0	2.2
3-4	.2	.4	1.5	.2	.0	.0	2.4
5-6	.0	.0	.4	.2	.2	.0	.8
7	.0	.0	.4	.0	.2	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.2	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.3	4.3	.4	.5	.0	7.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.5	.0	.0	.0	1.5
1-2	.0	1.3	.8	.0	.0	.0	2.1
3-4	.0	.3	1.4	.5	.0	.0	2.3
5-6	.0	.1	1.1	.6	.1	.0	1.8
7	.0	.0	.2	.1	.0	.0	.4
8-9	.0	.0	.5	.5	.3	.0	1.2
10-11	.0	.0	.3	.7	.0	.0	1.0
12	.0	.0	.0	.2	.1	.0	.3
13-16	.0	.0	.0	.2	.2	.0	.5
17-19	.0	.0	.1	.2	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.4	4.9	3.1	.7	.0	11.4

PERIOD: (OVER-ALL) 1963-1974

APRIL

AREA 0021 OKHOTSK SEA SE
52.7N 154.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.7	.0	.0	.0	1.7	.2	1.1	.0	.0	.0	.0	1.3
1-2	.2	2.1	2.7	.0	.0	.0	5.0	.1	1.1	1.5	.0	.0	.0	2.7
3-4	.0	.5	1.6	1.3	.0	.0	3.4	.0	.2	1.2	.5	.0	.0	2.0
5-6	.0	.4	.6	.6	.0	.0	1.6	.0	.0	.6	.5	.0	.0	1.1
7	.0	.0	.2	.4	.0	.0	.6	.0	.0	.5	.0	.2	.0	.7
8-9	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.0	6.3	2.5	.2	.0	13.2	.3	2.4	3.8	1.2	.2	.0	7.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.7	1.1	.0	.0	.0	.0	1.8	.2	2.0	1.1	.0	.0	.0	3.3	
1-2	.7	.9	1.7	.0	.0	.0	3.3	.1	1.1	2.5	.0	.0	.0	3.7	
3-4	.0	.2	1.3	.0	.0	.0	1.5	.0	.0	1.2	.6	.0	.0	1.8	
5-6	.0	.3	1.4	.7	.0	.0	2.5	.0	.0	1.1	.5	.2	.0	1.9	
7	.0	.0	.5	.5	.0	.0	.9	.0	.2	.7	.2	.0	.0	1.1	
8-9	.0	.0	.4	.2	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.1	.2	.0	.3	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	2.8	5.5	1.8	.0	.0	11.5	.3	3.4	6.9	1.4	.5	.0	12.5	92.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	10.0	10.7	4.3	.0	.0	.0	24.9	
1-2	1.9	11.4	15.2	.0	.0	.0	28.4	
3-4	.2	2.6	10.7	4.3	.0	.0	17.8	
5-6	.0	.9	7.3	4.0	.5	.0	12.8	
7	.0	.2	4.5	1.4	.5	.0	6.6	
8-9	.0	.0	2.1	1.7	.7	.0	4.5	
10-11	.0	.0	.9	1.4	.2	.0	2.6	
12	.0	.0	.0	.7	.2	.0	.9	
13-16	.0	.0	.0	.5	.2	.0	.7	
17-19	.0	.0	.5	.2	.0	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	12.1	25.8	45.5	14.2	2.4	.0	100.0	422

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.0	16.5	9.2	6.2	1.8	.7	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	3
6-7	.3	1.5	6.8	4.5	4.5	2.7	2.5	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	6
8-9	.0	.2	2.0	3.0	1.0	.3	.7	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	6
10-11	.0	.5	.3	.3	.7	.0	.0	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	.3	.0	.2	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
>13	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
INDET	8.5	1.5	4.7	3.0	1.8	1.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	3
TOTAL	101	121	140	102	61	28	24	12	6	4	0	0	0	0	0	0	0	0	0	599	4
PCT	16.9	20.2	23.4	17.0	10.2	4.7	4.0	2.0	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

MAY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.6	.0	3.0	.0	4.9	.0	.0	9.4	.8	.0	25.9	.0	.0	.0		63.9
NE	15.2	1.9	.9	1.9	2.4	.0	.0	20.4	.5	.0	24.6	1.9	.0	.0		52.6
E	9.9	.0	3.1	.0	9.9	.0	.0	23.0	5.8	.0	12.0	2.1	.0	.0		57.1
SE	17.7	.0	2.4	.0	6.2	.0	.0	26.4	2.4	.0	21.9	.0	.2	.8		48.3
S	6.9	.0	6.0	.0	3.1	.0	.0	16.1	2.7	.0	27.0	1.8	.7	.0		51.8
SW	5.1	.0	3.8	.0	5.8	2.6	.0	17.3	.0	.0	42.3	.0	.0	.0		40.4
W	.0	.0	1.6	.0	11.6	.0	.0	13.2	2.1	.0	30.5	.0	.0	.0		54.2
NW	.0	.0	2.8	.0	3.1	.0	.0	5.9	1.6	.0	27.2	.0	.0	.0		65.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0	2.4	.0	.0	2.4	2.4	.0	35.7	.0	.0	.0		59.5
TOT PCT	7.2	.2	3.0	.2	5.2	.2	.0	15.7	2.0	.0	26.3	.6	.2	.2		55.0
TOT OBS:	638															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.0	.0	1.7	.0	2.3	.6	.0	8.7	1.2	.0	26.6	1.7	.6	.0		61.3
06&09	4.7	.0	1.2	.0	5.3	.0	.0	11.2	3.5	.0	25.9	.0	.0	.0		59.4
12&15	11.2	.5	3.7	.5	8.0	.0	.0	23.5	2.1	.0	26.2	.0	.0	.5		47.6
18&21	9.6	.0	4.8	.7	4.8	.0	.0	19.9	.7	.0	23.3	1.4	.0	.0		54.8
TOT PCT	7.4	.1	2.8	.3	5.2	.1	.0	15.8	1.9	.0	25.6	.7	.1	.1		55.6
TOT OBS:	676															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.1	5.9	5.4	1.0	.0	.0		13.5	11.5	14.9	7.8	20.1	17.7	9.1	1.7	15.4	16.1
NE	.8	4.0	2.8	.9	*	.0		8.5	11.8	5.9	6.4	8.2	12.2	8.9	10.2	11.7	6.0
E	.1	2.5	2.7	.5	.6	.0		6.4	14.7	5.7	5.4	9.6	4.9	6.7	6.3	4.2	3.0
SE	.7	5.1	5.3	4.8	1.7	.0		17.7	17.7	19.8	19.1	10.7	17.1	16.7	27.3	19.0	18.5
S	2.1	4.9	7.5	4.0	.3	.0		18.8	14.7	22.9	19.1	18.9	20.7	15.2	19.9	17.8	16.1
SW	1.1	3.2	2.6	.3	.0	.0		7.2	9.8	8.5	11.3	3.0	6.1	7.4	8.5	6.6	10.1
W	.7	3.5	2.1	.8	.3	.0		7.5	12.7	5.9	6.4	11.7	8.5	8.3	6.3	4.8	6.0
NW	.5	6.2	6.2	.8	.0	.0		13.7	11.9	11.8	12.7	13.1	10.4	18.9	13.1	12.0	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.8							6.8	.0	4.7	11.8	4.7	2.4	8.7	6.8	8.6	7.1
TOT OBS	82	208	204	77	18	0	589		12.7	106	51	107	41	115	44	83	42
TOT PCT	13.9	35.3	34.6	13.1	3.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	7.8	2.7	.2	.0		13.5	11.5	12.6	19.4	7.1	15.6
NE	2.0	4.2	2.3	*	*		8.5	11.8	6.1	9.3	9.2	9.8
E	1.0	3.6	1.0	.4	.3		6.4	14.7	5.8	8.3	6.6	4.8
SE	2.4	6.9	4.5	3.7	.2		17.7	17.7	19.6	12.5	19.7	18.8
S	3.6	6.8	7.0	1.4	.0		18.8	14.7	21.7	19.4	16.5	17.2
SW	2.7	3.2	1.3	*	.0		7.2	9.8	9.4	3.9	7.7	7.8
W	2.1	3.1	1.6	.7	.0		7.5	12.7	6.1	10.8	7.7	5.2
NW	3.9	6.0	3.7	.0	.0		13.7	11.9	12.1	12.3	17.3	12.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.8						6.8	.0	7.0	4.1	8.2	8.0
TOT OBS	161	245	142	38	3	589		12.7	157	148	159	125
TOT PCT	27.3	41.6	24.1	6.5	.5		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	7.0	7.6	34.4	31.8	15.3	3.8	.0	12.9	100.0	157
06&09	4.1	6.1	37.8	37.2	10.8	4.1	.0	13.3	100.0	148
12&15	8.2	6.3	34.6	35.6	12.6	2.5	.0	12.4	100.0	159
18&21	8.0	8.8	34.4	33.6	13.6	1.6	.0	12.0	100.0	125
TOT	40	42	208	204	77	18	0	12.7		589
PCT	6.8	7.1	35.3	34.6	13.1	3.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.2	4.5	8.9		6.4
NE	.6	.2	1.9	5.0		6.9
E	.4	.2	1.6	5.1		7.1
SE	.4	.6	1.1	16.9		7.6
S	2.1	.4	1.0	13.3		6.7
SW	.4	*	.4	5.1		7.3
W	1.0	.3	.5	6.3		6.8
NW	.8	1.3	2.7	6.7		6.5
VAR	.0	.0	.0	.0		.0
CALM	2.3	.2	.8	4.0		5.3
TOT OBS	52	23	77	376	528	6.8
TOT PCT	9.8	4.4	14.6	71.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.3	.0	.1	2.2	2.8	1.1	.9	.0	.2	.0	5.8	
NE	1.8	.2	.2	.5	2.0	1.0	.4	.0	.0	.2	1.4	
E	1.6	.0	.3	.6	1.9	1.3	.1	.2	.0	.0	1.1	
SE	5.8	.2	.4	5.1	3.4	1.4	.7	.2	.2	.2	1.4	
S	3.8	.8	.7	3.2	4.2	.6	.1	.2	.2	.1	2.8	
SW	.9	.0	.0	1.6	1.1	1.2	.2	.0	*	.0	.9	
W	2.1	.0	.1	.9	1.8	1.4	.0	.0	.1	.0	1.6	
NW	2.2	.2	.1	2.9	1.1	1.7	.4	.2	.2	.2	2.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7	.0	.0	1.1	.8	.6	.2	.0	.0	.0	2.8	
TOT OBS	123	7	11	96	101	54	16	4	5	4	107	528
TOT PCT	23.3	1.3	2.1	18.2	19.1	10.2	3.0	.8	.9	.8	20.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.6	1.5	1.7	1.7	1.7	1.7	1.7	1.7
* OR >5000	1.1	2.0	2.4	2.4	2.4	2.4	2.4	2.4
* OR >3500	2.6	4.1	5.2	5.3	5.3	5.7	5.7	5.7
* OR >2000	8.1	12.5	14.4	14.9	15.1	15.5	15.7	15.7
* OR >1000	13.3	24.5	30.8	33.1	33.9	34.8	35.0	35.0
* OR >600	16.4	32.6	45.1	48.8	50.3	51.7	52.5	52.5
* OR >300	16.9	33.7	46.4	50.6	52.1	53.8	54.5	54.5
* OR >150	16.9	34.3	47.1	51.6	53.0	54.7	55.8	55.8
* OR > 0	17.1	35.2	49.7	55.6	58.7	65.7	77.0	78.8
TOTAL	93	191	270	302	319	357	418	428

TOTAL NUMBER OF OBS: 543 PCT FREQ NH <5/8: 21.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.0	3.4	4.1	2.7	3.6	2.4	4.6	4.4	46.2	21.6	587

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.2	.3	.6	.8	.0	.0	.0	.0	.0	2.0	
	NO PCP	2.7	1.6	.7	3.1	2.7	1.5	1.6	3.0	.0	1.9	18.7	
	TOT %	2.8	1.7	1.0	3.7	3.5	1.5	1.6	3.0	.0	1.9	20.8	
1/2<1	PCP	.1	.3	.0	.3	.2	.0	.2	*	.0	.0	1.1	
	NO PCP	.0	.2	.2	.3	.6	.4	.3	.0	.0	.0	2.0	
	TOT %	.1	.6	.2	.6	.7	.4	.5	*	.0	.0	3.1	
1<2	PCP	.2	.7	.2	2.3	.7	*	.2	.2	.0	.2	4.6	
	NO PCP	.0	.2	.0	.5	.4	.0	.3	.4	.0	.2	1.9	
	TOT %	.2	.8	.2	2.8	1.1	*	.4	.5	.0	.3	6.5	
2<5	PCP	.4	.3	.6	1.7	1.1	.7	.6	.5	.0	.0	5.8	
	NO PCP	1.8	1.1	.4	2.8	2.1	.7	.1	1.8	.0	.8	11.7	
	TOT %	2.2	1.4	1.1	4.5	3.2	1.3	.7	2.3	.0	.8	17.5	
5<10	PCP	.4	.3	.4	.2	.2	.2	.1	*	.0	.0	1.7	
	NO PCP	3.8	2.0	1.9	5.0	5.1	1.0	1.0	2.8	.0	1.4	23.9	
	TOT %	4.3	2.2	2.2	5.1	5.2	1.2	1.1	2.8	.0	1.4	25.7	
10+	PCP	.2	.0	.2	.0	.1	.2	.0	.0	.0	.0	.6	
	NO PCP	4.7	1.5	2.4	2.6	3.7	1.5	3.2	3.9	.0	2.2	25.8	
	TOT %	4.9	1.5	2.6	2.6	3.8	1.8	3.2	3.9	.0	2.2	26.5	
	TOT OBS												635
	TOT PCT	14.5	8.3	7.4	19.4	17.6	6.2	7.5	12.6	.0	6.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.7	.0	.0	*	.1	.2	.2	.1	.0	2.1	3.5	
	4-10	1.4	1.8	.3	1.9	.8	.8	.9	2.6	.0		10.5	
	11-21	.8	.0	.3	1.6	1.4	.6	.2	.9	.0		5.9	
	22+	.0	.2	.5	.2	1.1	*	.0	.0	.0		2.0	
	TOT %	2.9	2.0	1.1	3.7	3.4	1.7	1.3	3.6	.0	2.1	21.8	
1/2<1	0-3	.0	.0	.0	.0	.4	.2	.0	.0	.0	.0	.5	
	4-10	.1	.1	.1	.2	.4	.3	.0	*	.0		1.2	
	11-21	.0	.5	.0	.0	.0	.2	.2	.0	.0		.9	
	22+	.0	.0	.2	.5	.2	.0	.4	.0	.0		1.2	
	TOT %	.1	.6	.3	.7	.9	.7	.5	*	.0	.0	3.9	
1<2	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.4	.5	
	4-10	.0	.0	.0	.1	.3	.0	.2	.2	.0		.7	
	11-21	.0	.6	.1	.4	.5	.0	.0	.4	.0		2.0	
	22+	.2	.2	.0	1.7	.6	*	.2	.0	.0		2.8	
	TOT %	.2	.8	.1	2.2	1.4	.1	.4	.5	.0	.4	6.0	
2<5	0-3	.2	.0	.0	.2	.6	.6	.0	.0	.0	.7	2.3	
	4-10	.9	.8	.5	.4	.4	.3	.6	1.2	.0		5.1	
	11-21	1.2	.4	.3	.6	1.6	.5	.3	1.8	.0		6.7	
	22+	.0	.2	.1	3.0	1.1	.0	.2	.2	.0		4.8	
	TOT %	2.3	1.4	.9	4.3	3.7	1.4	1.1	3.1	.0	.7	19.0	
5<10	0-3	.2	.5	.1	.3	.5	.0	.3	.3	.0	1.4	3.5	
	4-10	1.0	.8	.5	1.3	1.1	.5	.2	.9	.0		6.2	
	11-21	1.4	.6	1.2	1.9	2.8	.6	.3	1.0	.0		9.9	
	22+	.4	*	.1	1.3	1.2	.0	.0	.7	.0		3.7	
	TOT %	2.9	2.0	2.0	4.7	5.6	1.1	.8	2.9	.0	1.4	23.4	
10+	0-3	.1	.2	.0	.2	.4	.1	.3	.1	.0	2.1	3.5	
	4-10	2.6	.6	.7	1.2	2.0	1.1	1.6	1.5	.0		11.2	
	11-21	2.0	.5	.7	.9	1.4	.6	1.2	2.1	.0		9.4	
	22+	.4	.4	.2	*	.3	.2	.4	.0	.0		1.8	
	TOT %	5.0	1.7	1.6	2.3	4.1	2.0	3.5	3.7	.0	2.1	25.9	
	TOT OBS												564
	TOT PCT	13.5	8.5	6.0	17.9	19.1	7.0	7.5	13.9	.0	6.7	100.0	

MAY

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	18.8	.0	1.4	20.1	17.4	13.9	3.5	.7	.7	1.4	77.8	22.2	144
06&09	20.9	.7	2.0	14.9	23.0	7.4	4.1	1.4	2.0	.0	76.4	23.6	148
12&15	28.7	2.1	.7	14.7	18.2	10.5	1.4	.0	.7	.0	76.9	23.1	143
18&21	21.9	2.3	3.9	23.4	16.4	8.6	3.9	.8	.0	1.6	82.8	17.2	128
TOT	127	7	11	102	106	57	18	4	5	4	441	122	563
PCT	22.6	1.2	2.0	18.1	18.8	10.1	3.2	.7	.9	.7	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
00&03	19.9	3.4	4.5	18.8	26.7	26.7	176
06&09	18.8	2.3	6.3	16.5	25.6	30.7	176
12&15	24.0	3.1	7.8	20.8	22.9	21.4	192
18&21	18.4	5.3	8.6	15.8	25.0	27.0	152
TOT	142	24	47	126	174	183	696
PCT	20.4	3.4	6.8	18.1	25.0	26.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	19.3	27.9	55.0	28.6	16.4	140
06&09	20.1	26.4	51.4	29.2	19.4	144
12&15	30.1	37.5	64.7	16.9	18.4	136
18&21	22.8	31.7	62.6	22.8	14.6	123
TOT	125	167	316	133	96	543
PCT	23.0	30.8	58.2	24.5	17.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
45/49	.0	.0	.0	.0	.0	.5	.9	3.3	10	4.7
40/44	.0	.0	.0	.0	.5	.5	2.8	.9	10	4.7
35/39	.0	.0	.0	.9	.5	3.7	10.7	35.5	110	51.4
30/34	.0	.0	.0	.0	.0	.9	4.2	32.2	80	37.4
25/29	.0	.0	.0	.0	.0	.0	.0	1.9	4	1.9
TOTAL	0	0	0	2	2	12	40	158	214	100.0
PCT	.0	.0	.0	.9	.9	5.6	18.7	73.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.3	.5	.0	.0	.0	.0	.0	.1	.0	2.3
1.9	.5	.4	.7	.4	.0	.0	.0	.0	.9
8.9	4.8	4.7	16.0	8.4	2.8	1.5	.6	.0	3.7
2.9	1.4	1.8	11.1	6.8	2.7	2.5	6.0	.0	2.3
1.2	.0	.0	.0	.0	.0	.0	.2	.0	.5
16.1	7.1	6.8	27.8	15.5	5.5	4.0	6.9	.0	10.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	61	48	46	36	30	30	25	36.9	174
06&09	51	50	45	36	30	28	27	36.2	172
12&15	47	45	40	34	28	25	21	34.3	191
18&21	50	46	41	34	30	28	27	34.6	155
TOT	61	48	43	36	30	27	21	35.5	692

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.8	.0	12.3	24.6	61.4	90	57
06&09	.0	.0	1.8	9.1	16.4	72.7	92	55
12&15	.0	.0	1.7	.0	13.8	84.5	95	58
18&21	.0	1.8	.0	3.6	19.6	75.0	93	56
TOT	0	2	2	14	42	166	93	226

PERIOD: (PRIMARY) 1964-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
17/19	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
14/16	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
11/13	.0	.0	.0	.0	.2	1.5	.2	.0	.0	.0	10	.0	1.9
9/10	.0	.0	.0	.9	.4	.7	.2	.0	.0	.0	12	.0	2.2
7/8	.0	.0	.0	1.7	1.7	.4	.0	.0	.0	.0	20	.6	3.2
6	.0	.0	.8	3.0	.7	.0	.2	.0	.0	.0	24	.7	3.7
5	.0	.0	3.3	5.4	.6	.4	.0	.0	.0	.0	52	1.7	8.0
4	.0	.4	6.5	3.9	.6	.2	.0	.0	.0	.0	62	1.7	9.8
3	.0	.6	3.2	2.2	.6	.0	.0	.0	.0	.0	35	.6	5.9
2	.0	.6	8.0	2.8	.6	.4	.0	.0	.0	.0	66	4.1	8.2
1	.0	2.0	4.8	1.7	.4	.0	.0	.0	.0	.0	48	2.8	6.1
0	.2	5.8	6.3	1.3	.6	.2	.0	.0	.0	.0	77	4.8	9.5
-1	.2	2.0	2.4	.7	.0	.0	.0	.0	.0	.0	29	2.0	3.3
-2	.2	4.6	4.1	1.3	.0	.2	.0	.0	.0	.0	56	3.0	7.4
-3	.2	.7	.4	.4	.0	.0	.0	.0	.0	.0	9	.2	1.5
-4	.2	1.3	1.1	.4	.0	.0	.0	.0	.0	.0	16	1.5	1.5
-5	.2	.7	.9	.0	.0	.0	.0	.0	.0	.0	10	.9	1.0
-6	.0	.2	.6	.0	.0	.0	.0	.0	.0	.0	4	.0	.7
-7/-8	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.7
-9/-10	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.4	.0
TOTAL	8	104	229	138	33	22	3	1	0	1	539	134	405
PCT	1.5	19.3	42.5	25.6	6.1	4.1	.6	.2	.0	.2	100.0	24.9	75.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	2.9	.7	.0	.0	.0	4.8
1-2	.0	1.6	2.8	.0	.0	.0	4.4
3-4	.0	.4	1.6	.6	.0	.0	2.6
5-6	.0	.3	.4	.3	.0	.0	1.0
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.8	.0	.0	.8
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.3	6.4	1.7	.0	.0	14.5

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	1.3	.6	.0	.0	.0	2.5
1-2	.0	1.1	.6	.0	.0	.0	1.8
3-4	.3	.0	.8	.1	.0	.0	1.2
5-6	.0	.3	.4	.3	.0	.0	1.0
7	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.1	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	2.7	2.5	1.2	.1	.0	7.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.8	.0	.0	.0	1.8
1-2	.0	1.4	.4	.0	.0	.0	1.8
3-4	.0	.3	1.1	.8	.0	.0	2.1
5-6	.0	.0	.2	.0	.2	.0	.4
7	.0	.0	.4	.0	.6	.0	1.0
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	3.2	.8	1.0	.0	7.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.5	.3	.0	.0	.0	1.9
1-2	.0	1.8	2.8	.0	.0	.0	4.6
3-4	.0	1.1	1.8	1.5	.0	.0	4.4
5-6	.0	.0	.6	2.2	.1	.0	2.9
7	.0	.0	.4	.3	.3	.0	1.0
8-9	.0	.0	.0	.1	.3	.0	.4
10-11	.0	.0	.3	.8	.3	.0	1.4
12	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.3	.3	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.4	6.1	5.5	1.2	.0	17.3

PERIOD: (OVER-ALL) 1963-1974

MAY

AREA 0021 OKHOTSK SEA SE
52.9N 153.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.1	2.7	.3	.0	.0	.0	5.1
1-2	.3	.2	1.2	.0	.0	.0	1.7
3-4	.0	1.6	2.2	.2	.0	.0	4.1
5-6	.0	.0	2.5	1.4	.0	.0	3.9
7	.0	.0	1.1	.5	.3	.0	1.8
8-9	.0	.3	.3	.8	.3	.0	1.6
10-11	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	4.8	7.5	3.6	.6	.0	18.9

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.4	.3	.0	.0	.0	2.5
1-2	.0	.8	.6	.0	.0	.0	1.4
3-4	.0	1.1	1.2	.0	.0	.0	2.2
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.1	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	3.2	2.8	.4	.0	.0	7.2

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.0	.0	.0	.0	.0	1.4
1-2	.2	1.2	.8	.0	.0	.0	2.2
3-4	.0	.7	.9	.0	.0	.0	1.6
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.3	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.9	2.2	.8	.0	.0	6.6

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.8	.4	.0	.0	.0	2.2	
1-2	.1	.9	3.9	.0	.0	.0	4.9	
3-4	.0	1.0	2.2	.0	.0	.0	3.2	
5-6	.0	.6	1.5	.8	.0	.0	2.9	
7	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	4.3	8.8	1.1	.0	.0	14.3	93.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.2	13.8	3.4	.0	.0	.0	28.4	
1-2	.6	9.0	13.2	.0	.0	.0	22.8	
3-4	.3	6.2	11.8	3.1	.0	.0	21.3	
5-6	.0	1.1	6.5	5.1	.3	.0	12.9	
7	.0	.0	3.4	2.2	1.1	.0	6.7	
8-9	.0	.3	.8	1.7	.6	.0	3.4	
10-11	.0	.0	.6	1.7	.6	.0	2.8	
12	.0	.0	.0	.6	.0	.0	.6	
13-16	.0	.0	.0	.8	.3	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								356
TOT PCT	12.1	30.3	39.6	15.2	2.8	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.3	14.3	12.7	6.6	3.5	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	231	3
6-7	.0	1.2	4.8	5.6	1.7	1.7	1.2	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83	6
8-9	.0	.6	1.0	3.5	3.1	.2	1.7	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	7
10-11	.0	.4	.0	.2	.8	.8	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
12-13	.0	.0	.6	.2	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	18
INDET	5.0	2.1	4.4	3.1	2.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	3
TOTAL	69	90	113	93	55	24	23	7	5	3	0	0	0	0	0	0	0	0	0	482	4
PCT	14.3	18.7	23.4	19.3	11.4	5.0	4.8	1.5	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.6	.7	1.6	.0	.0	.0	.0	4.9	.9	.0	39.6	1.6	.7		.0	52.2
NE	9.8	.0	.0	.0	1.8	.0	.0	11.6	2.2	.0	36.2	.0	.0		.0	50.0
E	17.4	.0	3.3	.0	.0	.0	.0	20.7	1.4	.0	32.4	.0	.0		.0	45.5
SE	10.3	.0	4.6	.0	.0	.0	.0	13.7	2.7	.0	39.8	.0	.2		.2	43.2
S	10.2	.0	4.4	.0	.0	.0	.0	14.2	1.1	.0	51.1	.6	.5		.5	32.1
SW	3.0	2.4	3.6	.0	.0	.0	.0	9.0	1.5	1.2	43.3	.0	1.2		.0	43.9
W	.0	.0	5.6	.0	.0	.0	.0	5.6	.0	.0	36.3	1.4	.0		.0	56.7
NW	1.0	.3	2.3	.0	.0	.0	.0	3.7	.0	.0	53.0	2.3	.3		.0	40.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	.0	44.6	.0	.0		.0	53.6
TOT PCT	6.3	.4	3.1	.0	.1	.0	.0	9.7	1.1	.1	43.3	.8	.4		.1	44.5
TOT OBS:	796															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	5.0	.0	1.5	.0	.0	.0	.0	6.5	1.5	.5	41.5	.5	1.0		.0	48.5
06&09	6.9	.5	3.0	.0	.0	.0	.0	10.3	.5	.0	43.8	.5	.0		.0	44.8
12&15	7.7	.0	4.3	.0	.0	.0	.0	11.5	.5	.0	44.7	.5	.0		.5	42.3
18&21	4.9	1.0	3.4	.0	.5	.0	.0	9.3	2.4	.0	44.4	1.5	.5		.0	42.0
TOT PCT	6.1	.4	3.1	.0	.1	.0	.0	9.4	1.2	.1	43.6	.7	.4		.1	44.4
TOT OBS:	816															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.3	7.5	3.6	.2	.0	.0		12.7	8.8	18.0	7.8	15.6	10.2	14.0	9.0	14.8	10.2
NE	.9	3.9	1.7	.2	.0	.0		6.7	8.5	8.6	8.1	3.2	9.1	8.7	3.4	5.7	6.3
E	.6	4.5	1.8	.5	.0	.0		7.4	9.3	4.9	10.8	6.9	6.8	7.4	8.0	7.3	6.9
SE	.6	7.1	5.0	1.3	.0	.0		14.0	11.5	13.3	8.1	13.6	15.1	14.8	18.3	13.8	15.1
S	1.3	10.6	8.8	1.0	.0	.0		21.4	10.8	21.1	24.5	28.2	21.6	16.9	22.9	17.9	20.7
SW	1.5	6.2	3.3	.1	.0	.0		11.1	8.5	11.7	18.3	13.6	3.9	13.3	9.3	10.2	7.6
W	1.5	6.2	1.4	.0	.0	.0		9.1	7.2	7.0	7.3	4.5	11.2	9.3	10.3	14.2	7.2
NW	1.0	7.8	2.8	.0	.0	.0		11.6	8.3	9.1	12.1	8.4	11.7	11.9	15.7	13.0	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0							6.0	.0	6.3	3.2	5.9	10.4	3.8	3.1	3.1	15.8
TOT OBS	121	440	230	27	0	0	818		8.9	96	93	101	96	132	97	127	76
TOT PCT	14.8	53.8	28.1	3.3	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.2	6.5	.9	.1	.0		12.7	8.8	13.0	12.9	11.9	13.1
NE	3.1	3.0	.6	.0	.0		6.7	8.5	8.3	6.1	6.4	5.9
E	3.2	3.4	.8	.0	.0		7.4	9.3	7.8	6.9	7.6	7.1
SE	3.5	7.9	2.0	.6	.0		14.0	11.5	10.7	14.3	16.3	14.3
S	5.4	13.0	3.0	.0	.0		21.4	10.8	22.8	25.0	19.4	19.0
SW	5.1	4.9	1.1	.0	.0		11.1	8.5	14.9	8.9	11.6	9.2
W	4.6	4.3	.2	.0	.0		9.1	7.2	7.1	7.7	9.7	11.6
NW	3.9	7.7	*	.0	.0		11.6	8.3	10.6	10.0	13.5	11.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.0						6.0	.0	4.8	8.1	3.5	7.9
TOT OBS	328	414	70	6	0	818		8.9	189	197	229	203
TOT PCT	40.1	50.6	8.6	.7	.0		100.0		100.0	100.0	100.0	100.0

JUNE

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	4.8	9.5	54.5	27.0	4.2	.0	.0	9.0	100.0	189
06&09	8.1	9.1	48.7	31.5	2.5	.0	.0	8.8	100.0	197
12&15	3.5	9.2	56.3	27.9	3.1	.0	.0	8.9	100.0	229
18&21	7.9	7.4	55.2	26.1	3.4	.0	.0	8.6	100.0	203
TOT	49	72	440	230	27	0	0	8.9		818
PCT	6.0	8.8	53.8	28.1	3.3	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.5	1.5	1.6	9.7		6.5
NE	.4	.4	.5	5.7		7.2
E	.6	.6	1.1	4.9		6.9
SE	1.1	.5	2.1	9.9		7.1
S	1.0	.7	2.0	15.7		7.2
SW	.8	.4	1.1	5.5		6.9
W	1.1	.8	1.0	6.0		6.5
NW	1.1	.3	1.0	11.0		7.1
VAR	.0	.0	.0	.0		.0
CALM	.3	.3	.8	6.9		7.3
TOT OBS	47	33	67	449	596	7.0
TOT PCT	7.9	5.5	11.2	75.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
4.4	.0	.0	1.3	2.9	1.3	.2	.2	.1	.0	3.9	
2.3	.3	.0	.2	1.4	1.0	.3	.0	.4	.0	1.0	
1.1	.0	.1	.8	2.5	.8	.0	.0	.0	.2	1.9	
4.0	.0	.1	.8	2.9	2.4	1.0	.0	.2	.0	2.2	
7.8	.0	.1	3.0	3.4	2.1	.2	.0	.3	.2	2.2	
2.1	.0	.0	1.4	1.2	1.4	.3	.0	.0	.0	1.3	
2.8	.0	.0	1.2	1.8	.5	.2	.0	.1	.0	2.3	
7.1	.0	.0	.8	2.8	*	.2	.2	.2	.0	2.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3.4	.3	.7	.8	1.3	.5	.0	.0	.0	.2	1.2	
208	4	6	82	120	60	14	2	8	3	109	596
34.9	.7	1.0	10.4	20.1	10.1	2.3	.3	1.3	.5	18.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >5OYD	* OR >0
* OR >6500	1.4	1.4	1.7	1.7	1.7	1.9	1.9	1.9
* OR >5000	1.5	1.7	2.0	2.0	2.0	2.2	2.2	2.2
* OR >3500	2.9	3.6	4.3	4.3	4.3	4.4	4.4	4.4
* OR >2000	6.1	9.9	13.3	14.0	14.2	14.5	14.7	14.7
* OR >1000	9.6	20.6	29.9	32.3	32.6	33.6	33.8	33.8
* OR >600	10.6	23.7	36.3	40.8	42.3	43.9	44.0	44.0
* OR >300	10.9	24.1	36.9	41.5	43.0	44.5	44.9	44.9
* OR >150	11.1	24.4	37.5	42.2	43.7	45.2	45.6	45.6
* OR > 0	11.1	24.9	38.9	45.1	49.1	58.4	79.2	82.1
TOTAL	65	146	228	264	288	342	464	481

TOTAL NUMBER OF OBS: 586

PCT FREQ NH <5/8: 17.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
5.2	4.9	3.5	2.2	1.9	1.6	2.4	4.0	40.0 34.3	632

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.0	.0	.1	1.5	.2	.3	.0	.0	.0	2.2	
	NO PCP	3.9	2.4	1.5	3.1	7.9	3.2	2.3	5.3	.0	2.6	32.1	
	TOT %	4.0	2.4	1.5	3.3	9.4	3.4	2.5	5.3	.0	2.6	34.3	
1/2<1	PCP	.1	.2	.3	.7	.2	.0	.1	.0	.0	.0	1.7	
	NO PCP	.3	.0	.0	.6	.5	.4	.2	.6	.0	.1	2.8	
	TOT %	.4	.2	.3	1.3	.8	.4	.4	.6	.0	.1	4.5	
1<2	PCP	.1	.3	.4	.6	.3	.0	.0	.3	.0	.1	2.1	
	NO PCP	1.0	.2	.4	.2	.9	.3	.3	.4	.0	.3	4.0	
	TOT %	1.1	.4	.8	.8	1.2	.3	.3	.7	.0	.4	6.0	
2<5	PCP	.3	.2	.5	.3	.4	.1	.0	.1	.0	.0	1.9	
	NO PCP	1.8	.4	.4	2.2	2.2	.9	1.3	1.2	.0	.9	11.3	
	TOT %	2.1	.7	.9	2.5	2.6	1.0	1.3	1.3	.0	.9	13.2	
5<10	PCP	.0	.0	.3	.2	.6	.6	.1	.1	.0	.0	1.9	
	NO PCP	2.5	2.2	1.8	2.8	2.7	1.4	1.6	1.1	.0	.8	17.0	
	TOT %	2.5	2.2	2.1	2.9	3.3	2.3	1.7	1.2	.0	.8	18.9	
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	3.6	1.2	1.3	2.2	3.2	3.0	2.8	3.2	.0	2.3	22.9	
	TOT %	3.6	1.3	1.3	2.2	3.2	3.0	2.8	3.2	.0	2.3	23.0	
	TOT OBS												778
	TOT PCT	13.8	7.2	6.8	13.0	20.5	10.3	9.0	12.3	.0	7.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	1.0	.3	.0	.1	.2	.6	.2	.3	.0	2.4	5.2	
	4-10	1.8	1.3	1.3	2.6	7.1	2.3	1.9	3.7	.0		22.1	
	11-21	1.2	.6	.2	1.5	2.9	1.4	.4	1.4	.0		9.6	
	22+	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
	TOT %	4.0	2.2	1.6	4.2	10.6	4.3	2.5	5.5	.0	2.4	37.2	
1/2<1	0-3	.0	.0	.0	.0	.1	*	.1	.0	.0	.1	.4	
	4-10	.1	.0	.0	.7	.3	.4	.1	.4	.0		2.0	
	11-21	.3	.1	.3	.5	.4	.0	.1	.2	.0		1.9	
	22+	.0	.1	.0	.2	.1	.0	.0	.0	.0		.4	
	TOT %	.5	.2	.3	1.3	.8	.4	.4	.6	.0	.1	4.7	
1<2	0-3	.0	.0	.1	*	.1	.0	.0	.1	.0	.3	.7	
	4-10	.8	.1	.3	.4	.4	.1	.1	.5	.0		2.8	
	11-21	.2	.3	.2	.1	.8	.1	.1	.1	.0		2.0	
	22+	.1	*	.3	.1	.0	.0	.0	.0	.0		.5	
	TOT %	1.2	.5	1.0	.7	1.2	.3	.2	.7	.0	.3	6.0	
2<5	0-3	.1	.0	.1	*	.4	*	.4	.1	.0	.7	1.9	
	4-10	1.4	.6	.1	.6	.4	.7	1.0	1.0	.0		5.9	
	11-21	.7	.2	.6	1.4	1.4	.3	.4	.2	.0		5.3	
	22+	.0	*	.1	.5	.5	.1	.0	.0	.0		1.2	
	TOT %	2.2	.8	1.0	2.6	2.7	1.2	1.7	1.4	.0	.7	14.2	
5<10	0-3	.2	.6	.1	.1	.2	.2	.4	.2	.0	.5	2.4	
	4-10	1.4	1.2	1.4	.9	1.2	1.2	1.2	.7	.0		9.2	
	11-21	.7	.4	.4	1.5	1.9	.8	.1	.3	.0		6.1	
	22+	.0	.0	.1	.3	.0	.0	.0	.0	.0		.4	
	TOT %	2.2	2.2	2.0	2.8	3.3	2.2	1.7	1.2	.0	.5	18.1	
10+	0-3	.1	.1	.2	.3	.2	.6	.2	.3	.0	2.0	4.1	
	4-10	1.9	.8	.7	1.0	1.3	1.5	1.9	2.0	.0		11.0	
	11-21	.8	.3	.1	.4	1.5	.4	.4	.7	.0		4.5	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0		.1	
	TOT %	3.0	1.2	1.0	1.7	2.9	2.6	2.5	3.0	.0	2.0	19.8	
	TOT OBS												752
	TOT PCT	13.0	7.0	6.8	13.3	21.5	11.0	9.0	12.4	.0	6.0	100.0	

JUNE

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

TABLE 10

AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	25.0	1.4	.7	15.0	17.9	14.3	3.6	1.4	2.9	1.4	83.6	16.4	140
06&09	34.4	.6	3.1	9.4	25.0	8.8	1.3	.0	1.3	.6	84.4	15.6	160
12&15	42.1	.0	.0	6.6	18.4	10.5	2.6	.0	.7	.0	80.9	19.1	152
18&21	38.7	.6	.0	10.4	17.2	9.2	1.8	.0	.6	.0	78.5	21.5	168
TOT	217	4	6	63	121	65	14	2	8	3	503	112	615
PCT	35.3	.7	1.0	10.2	19.7	10.6	2.3	.3	1.3	.5	81.8	18.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	31.9	3.4	6.3	14.5	16.9	27.1	207
06&09	35.4	4.9	5.3	16.0	18.4	19.9	206
12&15	36.3	4.7	5.2	13.7	19.3	20.8	212
18&21	40.3	4.3	8.1	10.4	16.1	20.9	211
TOT	301	36	52	114	148	185	836
PCT	36.0	4.3	6.2	13.6	17.7	22.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	25.4	35.5	59.4	25.4	15.2	138
06&09	36.0	40.7	64.7	21.3	14.0	150
12&15	44.0	46.1	62.4	21.3	16.3	141
18&21	40.1	43.9	65.6	15.3	19.1	157
TOT	214	244	370	121	95	586
PCT	36.5	41.6	63.1	20.6	16.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.7	.0	.0	1	.7
50/54	.0	.0	.7	.7	.0	1.4	.7	1.4	7	5.0
45/49	.0	.0	.0	.0	.7	.7	9.3	35.7	65	46.4
40/44	.0	.0	.0	.0	.0	.0	3.6	39.3	60	42.9
35/39	.0	.0	.0	.0	.0	.0	.0	3.6	5	3.6
30/34	.0	.0	.0	.0	.0	.0	.0	1.4	2	1.4
TOTAL	0	0	1	1	1	4	19	114	140	100.0
PCT	.0	.0	.7	.7	.7	2.9	13.6	81.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.7	.0	.0	.7	.0	2.1	.7	.0	.7
10.2	2.0	1.1	1.6	3.4	5.0	3.0	17.3	.0	2.9
7.5	.0	.7	3.4	15.2	2.1	6.1	7.1	.0	.7
2.3	.0	.0	.0	.0	.0	.5	.7	.0	.0
.0	.0	.7	.7	.0	.0	.0	.0	.0	.0
20.7	2.7	2.5	5.7	19.3	7.1	11.8	25.9	.0	4.3

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	70	69	54	43	36	34	34	44.3	208
06&09	70	62	54	43	36	28	27	43.5	220
12&15	68	52	48	41	34	30	27	41.0	242
18&21	69	52	47	41	34	32	27	40.7	219
TOT	70	62	52	42	34	32	27	42.3	889

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	2.7	.0	5.4	18.9	73.0	93	37
06&09	.0	2.8	.0	2.8	19.4	75.0	93	36
12&15	.0	.0	.0	2.9	2.9	94.1	96	34
18&21	.0	.0	2.9	.0	11.4	85.7	94	35
TOT	0	2	1	4	19	116	94	142

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	3	.2	.4
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2	.4	4	.0	.8
20/22	.0	.0	.0	.0	.0	.0	.0	.2	.2	.4	.0	.2	5	.6	.4
17/19	.0	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.2	4	.0	.8
14/16	.0	.0	.0	.0	.0	.0	.6	.0	.2	.0	.0	.0	4	.0	.8
11/13	.0	.0	.0	.0	.0	.2	1.1	.9	.2	.0	.0	.0	13	.2	2.3
9/10	.0	.0	.0	.0	.6	1.1	.9	.2	.0	.0	.0	.0	15	.8	2.1
7/8	.0	.0	.0	.0	.0	1.1	.8	.2	.4	.0	.0	.0	13	.6	1.7
6	.0	.0	.0	.0	.2	.0	.6	.0	.0	.0	.0	.0	4	.6	.2
5	.0	.0	.0	.0	.2	4.5	1.5	.2	.0	.0	.0	.0	34	3.4	3.0
4	.0	.0	.2	.6	2.5	5.9	.8	.0	.0	.0	.0	.0	52	3.2	6.6
3	.0	.0	.0	.4	1.1	2.3	.8	.0	.0	.0	.0	.0	24	1.5	3.0
2	.0	.0	.6	2.7	6.4	6.6	.4	.0	.0	.0	.0	.0	88	6.3	10.4
1	.0	.0	.4	.2	4.0	1.1	.2	.0	.0	.0	.0	.0	31	1.9	4.0
0	.0	.6	4.0	5.1	7.8	7.2	.6	.0	.0	.0	.0	.0	133	12.5	12.7
-1	.0	.0	.0	.6	2.5	.6	.2	.0	.0	.0	.0	.0	20	1.7	2.1
-2	.0	.4	.8	1.7	4.2	.9	.0	.0	.0	.0	.0	.0	42	3.8	4.2
-3	.0	.0	.4	.6	.9	.0	.0	.0	.0	.0	.0	.0	10	1.1	.8
-4	.0	.0	.4	1.3	.8	.0	.0	.0	.0	.0	.0	.0	13	1.7	.8
-5	.0	.0	.2	.4	.8	.0	.0	.0	.0	.0	.0	.0	7	.9	.4
-7/-8	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	5	.4	.6
-9/-10	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3	.4	.2
-11/-13	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.2	.0
TOTAL	3	5	38	75	168	167	46	9	7	2	3	5	528	223	305
PCT	.6	.9	7.2	14.2	31.8	31.6	8.7	1.7	1.3	.4	.6	.9	100.0	42.2	57.8

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	3.8	.4	.0	.0	.0	5.0
1-2	.9	4.4	3.0	.0	.0	.0	8.3
3-4	.0	.5	.8	.5	.0	.0	1.8
5-6	.0	.4	1.7	.0	.0	.0	2.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	9.0	5.8	.5	.0	.0	17.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.8	.0	.0	.0	.0	1.4
1-2	.0	.8	1.8	.0	.0	.0	2.6
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.1	1.2	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.8	3.4	.5	.0	.0	6.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8
1-2	.0	.8	.4	.0	.0	.0	1.2
3-4	.0	.0	.5	.0	.0	.0	.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	1.3	.0	.0	.0	3.0

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.9	.9	.0	.0	.0	1.9
3-4	.0	.0	2.8	.0	.0	.0	2.8
5-6	.0	.0	1.1	.5	.0	.0	1.5
7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.9	5.0	.5	.0	.0	7.3

PERIOD: (OVER-ALL) 1963-1974

JUNE

TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
52.2N 153.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	1.9	.5	.0	.0	.0	3.3	.9	2.4	.0	.0	.0	.0	3.3
1-2	.0	1.2	5.7	.0	.0	.0	6.9	.0	1.2	1.4	.0	.0	.0	2.6
3-4	.0	.4	8.1	.5	.0	.0	8.9	.0	.6	1.9	.0	.0	.0	2.5
5-6	.0	.0	3.0	1.4	.0	.0	4.4	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.5	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	3.4	17.5	1.9	.0	.0	23.8	.9	4.1	5.5	.5	.0	.0	11.0

	W							NW						TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	5.3	3.0	.0	.0	.0	8.3	
1-2	.0	2.4	.8	.0	.0	.0	3.2	.0	5.3	2.6	.0	.0	.0	7.9	
3-4	.0	.4	.5	.0	.0	.0	.8	.0	.1	1.1	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	5.2	1.3	.0	.0	.0	6.5	.0	11.3	7.1	.0	.0	.0	18.4	93.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	18.0	3.8	.0	.0	.0	31.3	
1-2	1.4	17.1	16.6	.0	.0	.0	35.1	
3-4	.0	1.9	16.1	.9	.0	.0	19.0	
5-6	.0	.9	8.1	1.9	.0	.0	10.9	
7	.0	.0	.9	.0	.0	.0	.9	
8-9	.0	.0	.9	.9	.0	.0	1.9	
10-11	.0	.0	.5	.0	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.5	.0	.0	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								211
TOT PCT	10.9	38.4	46.9	3.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1955-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.2	23.4	13.6	5.2	1.7	.0	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	3
6-7	.0	3.8	6.3	3.8	.3	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	4
8-9	.0	.0	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
10-11	.0	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	3
12-13	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	3	10
INDET	6.6	4.5	5.2	3.8	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	2
TOTAL	91	94	79	41	9	6	3	0	0	2	1	0	0	0	0	0	0	0	0	286	3
PCT	17.8	32.9	27.6	14.3	3.1	2.1	1.0	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1956-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.4N 153.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.3	.0	1.2	.0	.0	.0	.0	3.5	.8	.0	29.8	1.9	.0		.0	63.9
NE	11.2	1.0	7.8	.0	.0	.0	.0	17.1	1.0	.0	27.6	.0	.2		.0	54.1
E	15.3	.8	9.6	.0	.0	.0	.0	25.8	.6	.0	20.8	.6	.6		.0	51.6
SE	16.7	.6	11.2	.0	.0	.0	.0	27.1	2.0	.0	23.9	1.5	.6		.0	44.8
S	9.9	.0	10.3	.0	.0	.0	.0	19.6	1.5	.0	32.7	2.2	.0		.0	44.0
SW	2.1	.0	3.6	.0	.0	.0	.0	5.7	.9	.0	45.7	.9	.0		.0	46.7
W	1.0	.0	3.1	.0	.0	.0	.0	4.1	1.9	.0	41.8	3.1	.0		.0	49.2
NW	.8	.0	1.8	.0	.0	.0	.0	2.6	1.6	.0	33.5	1.8	.0		.0	60.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	1.8	.0	3.7	.0	.0	.0	.0	5.5	.9	.0	45.9	1.8	.0		.0	45.9
TOT PCT	6.5	.2	5.8	.0	.0	.0	.0	12.0	1.3	.0	33.7	1.7	.1		.0	51.1
TOT OBS:	1533															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	4.9	.2	4.4	.0	.0	.0	.0	8.9	1.6	.0	30.9	3.0	.2		.0	55.3
06&09	7.3	.0	4.1	.0	.0	.0	.0	11.2	.5	.0	31.3	1.7	.0		.0	55.3
12&15	7.6	.3	7.1	.0	.0	.0	.0	14.7	1.8	.0	35.4	1.0	.3		.0	46.8
18&21	5.6	.3	7.8	.0	.0	.0	.0	13.1	1.3	.0	39.1	.9	.0		.0	45.6
TOT PCT	6.4	.2	5.7	.0	.0	.0	.0	11.8	1.3	.0	33.8	1.7	.1		.0	51.2
TOT OBS:	1554															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	7.3	3.9	.1	.0	.0		12.8	8.5	16.4	11.7	15.7	13.4	9.9	5.4	14.8	11.3
NE	.9	4.3	1.8	.2	.0	.0		7.2	9.0	9.0	7.4	6.2	5.3	7.1	7.0	7.6	7.6
E	1.6	4.5	1.9	.2	.0	.0		8.1	8.5	7.4	8.9	6.9	7.1	9.6	9.3	10.0	3.0
SE	.9	5.5	3.6	1.1	.1	.0		11.2	11.6	14.3	9.1	12.1	8.1	11.1	10.9	8.5	15.8
S	1.7	9.4	5.9	.6	.1	.0		17.6	10.0	18.8	14.2	17.1	21.3	16.5	20.3	17.8	14.6
SW	1.3	6.6	4.3	.1	.0	.0		12.2	9.3	9.9	17.4	9.7	12.6	12.3	14.1	13.7	10.1
W	2.1	6.8	2.1	.1	.0	.0		11.1	7.6	8.8	14.2	11.2	12.2	11.6	10.1	9.4	9.5
NW	2.1	7.6	3.0	*	.0	.0		12.6	7.7	10.7	14.8	12.4	13.8	11.1	13.6	10.0	23.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.0							7.0	.0	4.6	2.3	6.5	6.3	10.8	9.3	8.5	4.8
TOT OBS	276	745	380	35	2	0	1438		8.4	239	132	245	127	259	129	223	84
TOT PCT	19.2	51.8	26.4	2.4	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	5.8	6.1	.9	.0	.0		12.8	8.5	14.8	14.9	8.4	13.6
NE	3.3	2.8	1.2	.0	.0		7.2	9.0	8.4	5.9	7.1	7.6
E	3.8	3.7	.6	.1	.0		8.1	8.5	8.0	7.0	9.5	8.1
SE	3.3	5.4	2.0	.5	.0		11.2	11.6	12.5	10.8	11.0	10.3
S	4.7	10.8	1.9	.2	.0		17.6	10.0	17.2	18.5	17.8	16.9
SW	3.9	7.2	1.1	.0	.0		12.2	9.3	12.6	10.7	12.9	12.7
W	5.7	4.8	.6	.1	.0		11.1	7.6	10.7	12.8	11.1	9.4
NW	5.9	6.4	.3	*	.0		12.6	7.7	12.1	12.9	11.9	13.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	7.0						7.0	.0	3.8	6.5	10.3	7.5
TOT OBS	623	678	122	15	0	1438		8.4	371	372	388	307
TOT PCT	43.3	47.1	8.5	1.0	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.8	12.7	55.5	25.1	2.7	.3	.0	8.7	100.0	371
06&09	6.5	12.6	50.3	26.9	3.5	.3	.0	8.7	100.0	372
12&15	10.3	15.2	47.9	24.7	1.8	.0	.0	7.6	100.0	388
18&21	7.5	7.2	54.1	29.6	1.6	.0	.0	8.8	100.0	307
TOT	101	175	745	380	35	2	0	8.4		1438
PCT	7.0	12.2	51.8	26.4	2.4	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.3	2.9	7.9		6.2
NE	.1	.5	.8	5.3		7.2
E	.5	.3	.8	6.4		7.2
SE	.3	.2	.6	9.6		7.6
S	.9	.5	2.2	15.5		7.3
SW	1.7	.4	1.0	8.7		6.7
W	1.5	.2	.8	8.3		6.7
NW	2.5	.9	1.8	7.0		5.9
VAR	.0	.0	.0	.0		.0
CALM	.1	.5	.8	6.1		7.4
TOT OBS	139	53	153	1018	1363	6.9
TOT PCT	10.2	3.9	11.2	74.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.5	.0	.1	.5	2.5	2.3	.3	.1	.0	.0	3.8	
NE	2.0	.1	.1	.9	1.0	1.4	.3	.2	.0	.1	.7	
E	2.0	.0	.2	.7	2.0	1.6	.4	.1	.1	.0	1.1	
SE	3.5	.0	.2	.9	2.6	2.1	.2	.3	.1	.1	.7	
S	7.6	.0	.0	1.9	3.9	2.1	1.2	.1	.3	.1	2.0	
SW	4.9	.0	.1	.6	1.5	1.4	.6	.2	.3	*	2.3	
W	4.4	.0	.1	.4	1.4	1.5	.2	.2	.4	.0	2.1	
NW	3.1	.0	.1	.7	1.8	1.7	.2	.3	.1	.0	4.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1	.0	.1	.2	1.7	1.2	.4	.0	.0	.1	.9	
TOT OBS	464	1	13	92	249	209	52	18	18	5	242	1363
TOT PCT	34.0	.1	1.0	6.7	18.3	15.3	3.8	1.3	1.3	.4	17.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) ▪ OR >10	▪ OR >5	▪ OR >2	▪ OR >1	▪ OR >1/2	▪ OR >1/4	▪ OR >50YD	▪ OR >0
▪ OR >6500	1.3	1.6	1.7	1.7	1.8	1.8	1.9	1.9
▪ OR >5000	2.1	2.6	3.1	3.1	3.1	3.1	3.2	3.2
▪ OR >3500	4.0	6.0	6.8	6.9	6.9	6.9	7.0	7.0
▪ OR >2000	10.3	18.3	21.3	21.4	21.6	21.6	21.8	21.8
▪ OR >1000	12.4	29.2	36.3	37.9	38.4	38.9	39.4	39.4
▪ OR >600	13.6	32.1	41.2	43.8	44.7	45.4	46.1	46.1
▪ OR >300	13.6	32.3	41.7	44.6	45.4	46.3	47.0	47.0
▪ OR >150	13.6	32.4	41.8	44.7	45.5	46.4	47.1	47.1
▪ OR > 0	13.9	33.0	43.7	48.6	52.0	62.1	80.8	82.0
TOTAL	186	442	586	652	697	833	1083	1099

TOTAL NUMBER OF OBS: 1341

PCT FREQ NH <5/8: 18.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.9	5.7	3.2	2.0	2.1	1.8	3.0	5.9	38.8	32.8	1418

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.2	.1	.2	.4	.6	.1	.1	*	.0	.0	1.8	
<1/2	NO PCP	3.4	1.7	1.1	2.2	4.8	4.9	4.2	3.7	.0	2.7	28.7	
	TOT %	3.6	1.8	1.3	2.6	5.4	5.1	4.3	3.7	.0	2.7	30.6	
	PCP	.0	.2	.3	.6	.7	.2	.1	.0	.0	.0	2.0	
1/2<1	NO PCP	.2	*	.2	*	.5	.2	.2	.1	.0	.2	1.6	
	TOT %	.2	.2	.4	.6	1.2	.3	.3	.1	.0	.2	3.7	
	PCP	.1	.3	.4	.9	.7	.1	.2	.0	.0	.0	2.8	
1<2	NO PCP	*	.1	.3	.3	.5	.2	.3	.1	.0	.4	2.4	
	TOT %	.1	.4	.7	1.2	1.2	.4	.5	.1	.0	.4	5.1	
	PCP	.1	.2	.7	.7	.9	.1	*	.2	.0	.0	3.0	
2<5	NO PCP	1.1	.7	.7	1.6	2.4	1.0	.9	.5	.0	.5	9.4	
	TOT %	1.2	1.0	1.5	2.3	3.3	1.0	1.0	.6	.0	.5	12.3	
	PCP	.1	.3	.2	.3	.7	.2	.0	.1	.0	.3	2.2	
5<10	NO PCP	3.6	1.2	2.0	1.7	3.8	2.5	2.5	2.5	.0	1.8	21.5	
	TOT %	3.7	1.4	2.2	2.0	4.5	2.7	2.5	2.6	.0	2.1	23.7	
	PCP	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	.3	
10+	NO PCP	4.7	1.9	1.6	2.0	2.8	2.5	2.6	5.0	.0	1.2	24.3	
	TOT %	4.7	1.9	1.7	2.0	2.8	2.5	2.6	5.1	.0	1.3	24.6	
	TOT OBS												1525
	TOT PCT	13.5	6.7	7.8	10.8	18.4	12.0	11.2	12.9	.0	7.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.6	.3	.7	.4	.5	.5	1.0	.8	.0	3.0	7.8	
<1/2	4-10	2.4	1.5	.7	1.0	3.0	2.8	2.8	2.7	.0		17.0	
	11-21	1.1	.3	.1	.9	1.7	2.1	.9	.7	.0		7.8	
	22+	.0	.0	.0	.2	.1	.0	.1	.0	.0		.3	
	TOT %	4.2	2.0	1.5	2.5	5.3	5.3	4.8	4.2	.0	3.0	32.9	
	0-3	.0	.1	.1	.1	.0	.1	.0	.2	.0	.1	.6	
1/2<1	4-10	.1	.0	.1	.1	.5	.2	.2	*	.0		1.2	
	11-21	.1	.2	.2	.2	.5	.1	.0	.0	.0		1.3	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0		.3	
	TOT %	.1	.3	.4	.6	1.2	.4	.2	.2	.0	.1	3.4	
	0-3	*	*	.1	*	.1	.1	.1	.1	.0	.3	.8	
1<2	4-10	.0	.2	.3	.9	.7	*	.2	.1	.0		2.4	
	11-21	.1	.2	.4	.2	.5	*	.1	.0	.0		1.4	
	22+	.0	.1	.1	.1	.0	.1	.0	.0	.0		.4	
	TOT %	.2	.5	.9	1.2	1.3	.2	.3	.2	.0	.3	5.1	
	0-3	.1	.2	.1	.2	.4	.2	.3	.2	.0	.4	2.1	
2<5	4-10	1.0	.6	1.1	1.0	1.6	.4	.6	.4	.0		6.8	
	11-21	.2	.2	.4	.9	1.2	.4	*	.2	.0		3.5	
	22+	.0	.1	.0	.4	.2	.0	.0	.0	.0		.7	
	TOT %	1.3	1.1	1.6	2.6	3.3	1.0	.9	.7	.0	.4	13.1	
	0-3	.6	.1	.3	*	.2	.2	.4	.4	.0	2.0	4.2	
5<10	4-10	2.0	.9	1.4	1.2	2.2	1.4	1.4	1.5	.0		12.0	
	11-21	1.0	.6	.4	.7	1.5	1.0	.3	.3	.0		5.7	
	22+	.0	*	.1	.1	.1	*	*	*	.0		.4	
	TOT %	3.6	1.5	2.0	2.1	4.0	2.6	2.1	2.3	.0	2.0	22.3	
	0-3	.4	.2	.4	.2	.3	.2	.5	.2	.0	1.1	3.4	
10+	4-10	2.1	1.1	.7	1.1	1.5	1.7	1.4	2.8	.0		12.4	
	11-21	1.5	.5	.3	.6	.7	.8	.8	1.8	.0		7.0	
	22+	.1	.0	.0	.1	.2	*	.0	.0	.0		.4	
	TOT %	4.0	1.8	1.5	1.9	2.7	2.7	2.7	4.9	.0	1.1	23.2	
	TOT OBS												1349
	TOT PCT	13.4	7.3	7.9	11.0	17.8	12.2	10.9	12.5	.0	6.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	26.4	.0	.8	8.1	21.7	17.5	2.6	2.6	1.6	.5	81.7	18.3	383
06&09	29.2	.3	.8	5.9	19.2	17.4	4.6	1.3	1.8	.0	80.3	19.7	391
12&15	43.8	.0	.6	5.2	13.4	13.7	3.0	.0	1.5	.6	81.8	18.2	329
18&21	39.1	.0	1.8	7.7	16.9	11.3	4.9	1.1	.7	.4	83.8	16.2	284
TOT	470	1	13	93	250	212	52	18	20	5	1134	253	1387
PCT	33.9	.1	.9	6.7	18.0	15.3	3.7	1.3	1.4	.4	81.8	18.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	27.4	3.0	4.6	12.1	25.8	27.2	438
06&09	28.1	4.0	5.2	12.9	24.5	25.2	420
12&15	35.9	3.9	6.1	14.9	18.3	21.0	410
18&21	38.0	3.3	5.2	8.5	23.1	21.9	329
TOT	510	57	84	196	367	383	1597
PCT	31.9	3.6	5.3	12.3	23.0	24.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	26.7	29.9	48.7	34.2	17.1	374
06&09	30.6	34.1	51.6	31.2	17.2	372
12&15	45.1	48.3	62.4	21.9	15.7	319
18&21	39.9	44.2	57.2	27.9	14.9	276
TOT	468	515	731	391	219	1341
PCT	34.9	38.4	54.5	29.2	16.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
55/59	.0	.0	.0	.0	.0	.7	1.3	.4	13	2.4
50/54	.0	.0	.0	.0	.2	1.1	3.1	18.2	124	22.5
45/49	.0	.0	.0	.0	.2	.5	5.3	46.5	289	52.5
40/44	.0	.0	.0	.0	.0	.2	1.5	20.2	120	21.8
35/39	.0	.0	.0	.0	.0	.0	.0	.5	3	.5
TOTAL	0	0	1	0	2	14	61	472	550	100.0
PCT	.0	.0	.2	.0	.4	2.5	11.1	85.8		

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
.3	.2	.2	.0	.2	.2	.4	.2	.0	.7
2.7	1.0	1.5	3.8	3.2	2.4	2.8	4.0	.0	1.3
8.1	2.4	3.2	5.9	8.4	5.0	6.6	10.3	.0	2.7
3.4	.9	2.9	1.5	3.0	3.2	3.4	1.3	.0	2.2
.0	.0	.0	.0	.5	.0	.0	.0	.0	.0
14.6	4.5	7.8	11.2	15.3	10.8	13.2	15.8	.0	6.9

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	64	57	48	42	39	36	48.9	442
06&09	63	59	55	49	42	40	39	49.0	436
12&15	75	58	54	47	41	37	32	47.2	451
18&21	75	59	52	46	41	37	36	46.7	341
TOT	75	59	55	48	41	39	32	48.0	1670

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.6	2.8	12.4	84.2	94	177
06&09	.0	.0	.0	4.4	15.0	80.6	94	160
12&15	.0	.7	.7	.7	4.9	93.0	96	143
18&21	.0	.0	.0	1.4	11.1	87.5	94	72
TOT	0	1	2	14	61	474	94	552

PERIOD: (PRIMARY) 1954-1974
(OVER-ALL) 1908-1974

AREA 0021 OKHOTSK SEA SE
52.4N 153.4E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
17/19	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	3	.1	.2
14/16	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.1	5	.1	.3
11/13	.0	.0	.0	.1	.2	.3	.3	.2	.2	.0	.0	14	.8	.4
9/10	.0	.0	.0	.2	.3	.5	.4	.1	.0	.0	.0	14	.2	1.0
7/8	.0	.0	.0	.1	.7	1.7	.7	.1	.0	.0	.0	38	.9	2.4
6	.0	.0	.0	.1	.5	1.0	.1	.0	.0	.0	.0	20	.3	1.4
5	.0	.0	.0	1.6	1.8	1.6	.3	.3	.0	.0	.0	67	1.5	4.3
4	.0	.0	.3	1.6	3.6	1.2	.3	.0	.1	.0	.0	80	2.2	4.7
3	.0	.0	.2	1.8	2.5	.4	.0	.0	.0	.0	.0	57	1.0	3.9
2	.0	.0	.9	6.6	5.3	1.0	.0	.0	.0	.0	.0	100	4.4	9.4
1	.0	.1	1.9	5.1	4.4	.3	.0	.0	.0	.0	.0	136	3.0	8.7
0	.1	.2	2.6	12.0	6.2	.5	.0	.0	.0	.0	.0	250	8.1	13.5
-1	.0	.3	1.6	3.5	3.4	.6	.0	.0	.0	.0	.0	109	3.5	5.9
-2	.0	.7	1.6	5.6	1.0	.1	.0	.0	.0	.0	.0	104	3.9	5.1
-3	.0	.3	.9	1.1	.6	.0	.0	.0	.0	.0	.0	34	1.2	1.7
-4	.1	.3	.9	.9	.5	.0	.0	.0	.0	.0	.0	32	1.6	1.2
-5	.0	.0	.7	.5	.1	.0	.0	.0	.0	.0	.0	15	.6	.7
-6	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.0	6	.3	.2
-7/-8	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	4	.1	.3
-9/-10	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	4	.1	.3
-11/-13	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	3	.1	.2
TOTAL	2	23	140	477	365	106	28	9	3	2	4	1159	394	765
PCT	.2	2.0	12.1	41.2	31.5	9.1	2.4	.8	.3	.2	.3	100.0	34.0	66.0

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	3.1	.3	.0	.0	.0	3.9
1-2	.2	4.5	2.4	.0	.0	.0	7.1
3-4	.0	.6	2.8	.3	.0	.0	3.6
5-6	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	8.1	6.0	.3	.0	.0	15.2

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.6	.0	.0	.0	.0	2.6
1-2	.6	.8	.6	.0	.0	.0	2.0
3-4	.0	.3	1.4	.0	.0	.0	1.7
5-6	.0	.0	.6	.1	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	3.6	2.8	.1	.0	.0	7.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.0	.0	.0	.0	.0	1.3
1-2	.5	1.5	1.4	.0	.0	.0	3.4
3-4	.0	.6	.5	.0	.0	.0	1.0
5-6	.0	.3	.2	.2	.0	.0	.7
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	3.4	2.3	.2	.0	.0	6.6

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.5	.0	.0	.0	.0	1.8
1-2	.0	1.7	.4	.0	.0	.0	2.1
3-4	.0	.3	2.0	.0	.0	.0	2.3
5-6	.0	.0	1.5	.3	.1	.0	1.9
7	.0	.0	1.5	.3	.0	.0	1.8
8-9	.0	.0	.3	.3	.0	.0	.8
10-11	.0	.0	.3	.3	.0	.0	.6
12	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	6.0	1.3	.1	.0	11.4

PERIOD: (OVER-ALL) 1963-1974

JULY

TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
52.4N 153.4E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.6	.0	.0	.0	2.9
1-2	.3	2.4	1.8	.0	.0	.0	4.5
3-4	.0	.0	2.0	.2	.0	.0	2.2
5-6	.0	.0	1.6	.5	.2	.0	2.3
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.7	6.9	.9	.2	.0	13.1

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9
1-2	.3	1.2	1.1	.0	.0	.0	2.6
3-4	.0	.6	2.1	.3	.0	.0	3.0
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.6	5.4	.3	.0	.0	9.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.7	.0	.0	.0	.0	1.5
1-2	.3	3.4	.8	.0	.0	.0	4.5
3-4	.0	1.1	1.4	.0	.0	.0	2.5
5-6	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.6	.0	.0	.0	.6
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.2	4.1	.0	.0	.0	10.5

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	3.4	.6	.0	.0	.0	4.5	
1-2	.3	5.0	2.4	.0	.0	.0	7.7	
3-4	.0	.0	1.8	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	8.4	5.0	.0	.0	.0	14.3	87.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.8	16.5	1.4	.0	.0	.0	32.7	
1-2	2.5	20.4	10.9	.0	.0	.0	33.8	
3-4	.0	3.4	14.0	.8	.0	.0	18.2	
5-6	.0	.3	6.4	1.1	.3	.0	8.1	
7	.0	.0	3.9	.3	.0	.0	4.2	
8-9	.0	.3	1.4	.3	.0	.0	2.0	
10-11	.0	.0	.6	.3	.0	.0	.8	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.3	40.8	38.5	3.1	.3	.0	100.0	358

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.6	24.5	14.2	5.7	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	355	3
6-7	.1	2.7	6.6	9.1	4.3	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	163	5
8-9	.0	.4	.1	.7	1.2	.7	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	7
10-11	.0	.6	.1	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
12-13	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
>13	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDET	7.5	2.5	3.0	1.2	.6	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	2
TOTAL	95	206	164	121	53	16	8	2	4	0	1	0	0	0	0	0	0	0	0	670	3
PCT	14.2	30.7	24.5	18.1	7.9	2.4	1.2	.3	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
N	.0	.0	5.0	.0	.0	.0	.0	5.0	.0	.0	31.3	.0	1.1	.0		62.6
NE	12.6	.0	7.4	.0	.0	.0	.0	20.0	2.6	.0	14.8	3.5	1.7	.0		57.4
E	21.6	.0	12.2	.0	.0	.0	.0	32.2	3.5	.0	18.4	.0	.0	.0		45.9
SE	15.5	.0	13.5	.0	.0	.0	.0	29.0	.9	.0	36.5	.0	.0	1.1		32.5
S	14.2	.8	9.1	.0	.0	.0	.0	24.0	1.1	.0	38.1	.8	.0	.0		36.0
SW	4.6	.0	3.1	.0	.0	.0	.0	7.7	1.9	.0	35.6	.0	.0	.0		54.7
W	6.4	.0	9.1	.0	.0	.0	.0	13.5	.0	.0	38.0	.0	.0	.0		50.5
NW	7.4	.0	1.2	.0	.0	.0	.0	8.6	.0	.0	40.8	.9	.0	.0		49.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	3.8	.0	.0	.0	.0	3.8	1.9	.0	47.2	1.9	.0	.0		45.3
TOT PCT	9.0	.1	6.9	.0	.0	.0	.0	16.0	1.2	.0	34.2	.7	.3	.1		47.6
TOT OBS:	763															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW BLWG	NO SIG WEA
00&03	9.1	.0	3.9	.0	.0	.0	.0	13.0	.4	.0	34.3	.4	.0	.0		51.7
06&09	9.0	.5	3.7	.0	.0	.0	.0	13.2	.5	.0	34.9	1.1	1.1	.5		48.7
12&15	8.9	.0	10.5	.0	.0	.0	.0	19.5	1.1	.0	30.5	1.1	.0	.0		47.9
18&21	8.6	.0	10.4	.0	.0	.0	.0	18.4	3.1	.0	36.8	.0	.0	.0		41.7
TOT PCT	8.9	.1	6.9	.0	.0	.0	.0	15.8	1.3	.0	34.1	.6	.3	.1		47.9
TOT OBS:	772															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	1.6	6.4	4.7	.4	.0	.0		13.1	9.5	16.0	15.0	11.9	16.7	7.0	12.3	11.8	17.9
NE	.5	5.1	1.6	.3	.0	.0		7.5	8.4	8.8	7.3	7.8	6.2	11.8	5.7	5.6	2.0
E	.5	3.6	1.8	.6	.0	.0		6.6	10.6	4.3	9.2	5.7	5.4	6.8	9.2	8.1	1.0
SE	.5	5.0	4.2	1.5	.0	.0		11.1	12.4	13.3	12.7	9.9	12.3	10.5	12.3	10.2	6.1
S	2.5	7.1	7.2	1.0	.0	.0		17.8	10.6	16.6	20.0	18.3	18.1	17.5	16.7	17.8	18.4
SW	2.0	6.9	4.3	1.1	.0	.0		14.2	9.6	14.6	11.2	20.2	12.7	12.9	13.6	13.0	12.8
W	.7	4.7	3.3	.4	.1	.0		9.2	10.5	8.4	5.4	7.3	9.8	8.6	11.0	9.5	18.9
NW	1.6	6.8	5.2	.1	.1	.0		13.7	9.9	10.4	13.1	14.2	11.6	16.9	14.0	13.9	16.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.7							6.7	.0	5.5	6.2	4.6	7.2	7.9	5.3	10.2	6.1
TOT OBS	117	318	226	37	1	0	699		9.5	128	65	109	69	114	57	108	49
TOT PCT	16.7	45.5	32.3	5.3	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	4.4	7.2	1.4	.0	.0		13.1	9.5	15.7	13.8	8.8	13.7
NE	3.4	3.5	.6	.0	.0		7.5	8.4	8.3	7.2	9.8	4.5
E	2.3	3.1	1.1	.1	.0		6.6	10.6	7.3	5.6	7.6	5.9
SE	3.2	4.7	2.9	.3	.0		11.1	12.4	13.2	10.8	11.1	8.9
S	6.9	7.2	3.5	.2	.0		17.8	10.6	17.7	18.3	17.3	18.0
SW	5.9	6.5	1.8	.1	.0		14.2	9.6	13.5	17.3	13.2	12.9
W	3.0	4.7	1.5	.1	.0		9.2	10.5	7.4	8.3	9.6	12.4
NW	3.4	9.2	1.1	.1	.0		13.7	9.9	11.3	13.2	15.9	14.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.7						6.7	.0	5.7	5.6	7.0	8.9
TOT OBS	274	322	97	6	0	699		9.5	193	178	171	137
TOT PCT	39.2	46.1	13.9	.9	.0		100.0		100.0	100.0	100.0	100.0

AUGUST

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.7	8.8	50.3	29.5	5.7	.0	.0	9.7	100.0	193
06&09	5.6	9.0	47.2	33.1	5.1	.0	.0	9.6	100.0	178
12&15	7.0	13.5	42.7	32.2	4.1	.6	.0	9.1	100.0	171
18&21	8.9	8.9	40.8	35.0	6.4	.0	.0	9.7	100.0	157
TOT	47	70	318	226	37	1	0	9.5		699
PCT	6.7	10.0	45.5	32.3	5.3	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.0	.6	1.9	7.1		6.7
NE	1.0	.7	1.0	4.7		6.4
E	.3	.2	1.0	7.2		7.4
SE	*	*	1.3	10.5		7.7
S	.1	.3	1.4	10.3		7.7
SW	.3	.2	2.8	9.2		7.4
W	.4	.3	1.4	7.0		7.3
NW	.6	.9	1.3	10.9		7.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	.2	.3	6.3		6.8
TOT OBS	29	20	74	469	592	7.3
TOT PCT	4.9	3.4	12.5	79.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.2	.0	.3	1.6	1.7	2.3	.2	.3	.2	.0	1.9	
NE	1.4	.0	.2	.2	1.0	1.3	.4	.8	.0	.0	2.2	
E	1.8	.0	.1	2.3	1.4	1.3	.8	.4	.0	.0	.6	
SE	4.9	.2	.4	1.4	2.0	1.3	.7	.3	.2	*	.3	
S	8.4	.1	.3	1.3	3.5	2.5	.5	.3	.3	.1	.8	
SW	4.7	.0	*	.7	1.9	1.9	.4	.5	.7	.0	1.5	
W	2.7	.0	.3	1.4	1.2	1.7	.3	.0	.3	.0	1.1	
NW	4.1	.0	.2	1.0	1.4	4.1	.9	.3	.0	.0	1.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5	.0	.2	.3	.7	1.2	.7	.0	.0	.0	1.4	
TOT OBS	200	2	12	60	87	104	29	18	10	1	69	592
TOT PCT	33.8	.3	2.0	10.1	14.7	17.6	4.9	3.0	1.7	.2	11.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
* OR >5000	3.3	4.5	4.9	5.1	5.1	5.1	5.1	5.1
* OR >3500	6.1	8.9	9.9	10.1	10.1	10.1	10.1	10.1
* OR >2000	15.5	23.5	26.7	27.2	27.4	27.4	27.7	27.7
* OR >1000	17.9	31.4	38.9	40.2	40.9	41.6	42.2	42.2
* OR >600	19.2	35.4	46.0	48.6	50.2	51.2	51.9	51.9
* OR >300	19.3	35.7	46.9	49.7	51.7	53.0	53.7	53.7
* OR >150	19.3	35.7	47.0	50.0	52.1	53.3	54.0	54.0
* OR > 0	19.3	36.6	49.1	55.1	58.7	66.7	86.8	88.2
TOTAL	111	210	282	316	337	383	498	506

TOTAL NUMBER OF OBS: 574

PCT FREQ NH <5/8: 11.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
3.9	1.1	3.2	1.8	1.4	1.6	4.8	5.8	44.1	32.3	622

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.1	.1	.3	.8	.9	.6	.7	.0	.1	3.3	
<1/2	NO PCP	2.5	.8	1.2	3.8	5.6	4.0	2.0	4.9	.0	2.4	27.2	
	TOT %	2.9	.9	1.4	4.1	6.5	4.9	2.6	5.5	.0	2.5	30.5	
	PCP	.0	.0	.4	.7	.6	.3	.0	.0	.0	.0	2.0	
1/2<1	NO PCP	.3	.3	.3	*	.2	.4	.3	.6	.0	.3	2.7	
	TOT %	.3	.3	.7	.7	.9	.7	.3	.6	.0	.3	4.7	
	PCP	.0	*	1.0	1.1	1.3	.1	.1	.0	.0	.0	3.7	
1<2	NO PCP	.9	.2	.1	.0	.5	.1	.7	.0	.0	.7	3.2	
	TOT %	.9	.2	1.1	1.1	1.9	.2	.8	.0	.0	.7	6.9	
	PCP	.3	.6	.9	.9	1.0	*	.1	.2	.0	.1	4.1	
2<5	NO PCP	.7	.5	.9	.7	2.1	.5	1.1	.8	.0	.7	8.0	
	TOT %	1.0	1.1	1.8	1.6	3.1	.6	1.2	1.0	.0	.8	12.1	
	PCP	.2	.4	.1	.2	.5	.2	.3	.4	.0	.0	2.3	
5<10	NO PCP	1.9	1.3	1.8	1.9	2.0	2.9	1.0	2.4	.0	1.3	16.5	
	TOT %	2.1	1.7	1.9	2.1	2.4	3.1	1.3	2.8	.0	1.3	18.8	
	PCP	.1	.3	.1	.1	.0	.0	.1	.0	.0	.0	.7	
10+	NO PCP	5.1	3.0	1.6	1.5	2.8	4.1	2.7	4.2	.0	1.5	26.4	
	TOT %	5.1	3.4	1.6	1.6	2.8	4.1	2.8	4.2	.0	1.5	27.0	
	TOT OBS												751
	TOT PCT	11.9	7.7	8.5	11.2	17.4	13.1	9.1	14.1	.0	7.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	1.1	.1	.3	.5	1.4	1.0	.4	1.2	.0	2.6	8.7	
<1/2	4-10	2.2	.9	.7	2.2	2.1	2.1	1.2	3.3	.0		14.7	
	11-21	1.0	.3	.2	.7	1.9	1.4	1.0	1.9	.0		8.4	
	22+	.0	.0	.0	.1	.3	.9	.1	.0	.0		1.4	
	TOT %	4.3	1.3	1.2	3.5	5.7	5.4	2.6	6.3	.0	2.6	33.1	
	0-3	.2	.0	.2	.0	.0	.0	.0	.2	.0	.2	.6	
1/2<1	4-10	.2	.3	.3	.5	.2	.4	.5	.5	.0		2.8	
	11-21	.2	.0	.2	.4	.3	.2	.0	.0	.0		1.2	
	22+	.0	.0	.0	.3	.3	.0	.0	.0	.0		.6	
	TOT %	.5	.3	.7	1.2	.7	.5	.5	.6	.0	.2	5.3	
	0-3	.2	.2	.0	.0	.4	*	.0	.0	.0	.8	1.4	
1<2	4-10	.9	.1	.3	.2	.3	.2	.5	.0	.0		2.5	
	11-21	.3	*	.2	.8	.8	.1	.5	.0	.0		2.8	
	22+	.0	.0	.4	.3	.1	.0	.0	.0	.0		.8	
	TOT %	1.4	.3	1.0	1.3	1.6	.3	1.0	.0	.0	.8	7.4	
	0-3	.0	.0	.0	.0	.3	*	.0	.0	.0	.6	.9	
2<5	4-10	.7	.6	.6	.2	1.4	.5	.5	.6	.0		5.1	
	11-21	.5	.5	.7	1.2	1.3	.2	.8	.5	.0		5.7	
	22+	.0	.0	.1	.1	.1	.1	.3	.1	.0		.8	
	TOT %	1.2	1.0	1.4	1.5	3.1	.9	1.6	1.2	.0	.6	12.5	
	0-3	.0	.0	.0	.0	.1	.5	.0	.2	.0	1.1	1.9	
5<10	4-10	.9	1.0	.6	.5	1.1	1.1	.3	.3	.0		5.7	
	11-21	.5	.3	.1	.7	1.0	.8	.4	1.4	.0		5.3	
	22+	.0	.2	.0	.4	.1	.2	.0	.0	.0		.8	
	TOT %	1.3	1.5	.7	1.5	2.3	2.5	.7	1.9	.0	1.1	13.6	
	0-3	.3	.3	.2	.0	.5	.3	.2	.3	.0	1.7	3.7	
10+	4-10	2.1	2.4	1.1	1.2	1.7	2.4	1.9	2.2	.0		14.9	
	11-21	2.6	.5	.4	.5	.9	1.4	.8	1.6	.0		8.7	
	22+	.4	.2	.0	.0	.0	.0	.2	.1	.0		.8	
	TOT %	5.3	3.4	1.6	1.7	3.1	4.0	3.1	4.1	.0	1.7	28.0	
	TOT OBS												646
	TOT PCT	14.0	7.8	6.7	10.8	16.6	13.6	9.6	14.2	.0	6.8	100.0	

AUGUST

PERIOD: (PRIMARY) 1960-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET;NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	26.8	1.1	1.6	11.6	16.3	20.5	6.8	4.2	1.6	.5	91.1	8.9	190
06&09	34.1	.0	.6	10.4	16.5	15.2	3.7	4.3	1.2	.0	86.0	14.0	164
12&15	35.5	.0	4.0	8.9	11.3	16.1	4.0	.8	2.4	.0	83.1	16.9	124
18&21	41.8	.0	2.5	8.2	13.9	17.2	4.9	1.6	1.6	.0	91.8	8.2	122
TOT	202	2	12	60	89	105	30	18	10	1	529	71	600
PCT	33.7	.3	2.0	10.0	14.8	17.5	5.0	3.0	1.7	.2	88.2	11.8	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
00&03	28.8	6.2	8.6	7.4	18.9	30.0	243
06&09	35.8	2.5	5.9	14.7	16.2	25.0	204
12&15	32.8	6.2	6.2	10.3	16.9	27.7	195
18&21	33.1	5.9	7.1	18.3	18.3	17.2	169
TOT	263	42	57	99	143	207	811
PCT	32.4	5.2	7.0	12.2	17.6	25.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET;NH >4/8),BY HOUR

HOUR (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	27.0	34.6	50.3	41.1	8.6	185
06&09	36.4	39.6	59.7	27.9	12.3	154
12&15	35.9	45.3	62.4	24.8	12.8	117
18&21	41.5	45.8	65.3	27.1	7.6	118
TOT	197	232	335	180	59	574
PCT	34.3	40.4	58.4	31.4	10.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/69	.0	.0	.0	.0	.0	.6	.0	.0	1	.6
60/64	.0	.0	.0	.0	.0	.0	.0	.6	1	.6
55/59	.0	.0	.0	.0	.6	.0	4.5	6.5	18	11.6
50/54	.0	.0	.0	.0	.0	.0	11.6	62.6	115	74.2
45/49	.0	.0	.0	.0	.0	.0	.6	11.0	18	11.6
40/44	.0	.0	.0	.0	.0	.0	.0	1.3	2	1.3
TOTAL	0	0	0	0	1	1	26	127	155	100.0
PCT	.0	.0	.0	.0	.6	.6	16.8	81.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.6	.0	.0	.0	.0
1.8	.0	.6	1.3	2.6	1.3	1.1	1.0	.0	1.9
3.9	1.6	8.7	9.4	22.7	8.5	5.2	11.6	.0	2.6
2.1	.0	.6	2.6	.6	.6	.0	4.4	.0	.6
.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
7.7	1.6	10.6	13.2	26.0	11.1	6.3	16.9	.0	6.5

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	73	68	61	53	48	45	43	53.4	246
06&09	73	72	63	54	48	46	45	54.0	214
12&15	66	61	57	52	46	45	45	51.8	211
18&21	75	68	57	52	46	43	42	51.5	181
TOT	75	68	60	52	48	45	42	52.7	852

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	1.8	.0	18.2	80.0	94	55
06&09	.0	.0	.0	2.3	22.7	75.0	94	44
12&15	.0	.0	.0	.0	8.6	91.4	96	35
18&21	.0	.0	.0	.0	14.3	85.7	96	21
TOT	0	0	1	1	26	127	95	155

AUGUST

PERIOD: (PRIMARY) 1940-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.0	.5	.2	4	.0	.6
11/13	.0	.0	.0	.0	.3	.2	.9	.0	6	.5	.5
9/10	.0	.0	.0	.0	.3	.3	.5	.0	7	.0	1.1
7/8	.0	.0	.0	.3	1.1	1.1	.0	.0	16	1.0	1.6
6	.0	.2	.2	.2	.8	.4	.0	.0	10	.5	1.1
5	.0	.0	.6	1.3	1.8	.8	.0	.0	27	1.5	2.9
4	.0	.0	1.0	7.1	2.4	.5	.0	.0	68	3.7	7.3
3	.0	.0	1.1	2.8	.3	.0	.0	.0	26	1.1	3.1
2	.0	.3	8.1	6.2	1.5	.0	.0	.0	99	5.7	10.4
1	.0	.2	4.2	4.7	.0	.0	.0	.0	56	2.1	7.0
0	.2	3.1	14.1	6.7	1.0	.0	.0	.0	154	7.6	17.6
-1	.0	.0	6.7	2.9	.0	.0	.0	.0	59	3.4	6.2
-2	.2	.8	3.9	1.1	.2	.0	.0	.0	38	1.6	4.5
-3	.2	.0	1.6	.2	.0	.0	.0	.0	12	.8	1.1
-4	.0	1.3	.3	.3	.2	.0	.0	.0	13	1.0	1.1
-5	.0	.5	.8	.3	.0	.0	.0	.0	10	.2	1.5
-7/-8	.0	.3	.5	.0	.0	.0	.0	.0	5	.2	.6
-9/-10	.0	.6	.2	.2	.0	.0	.0	.0	6	.6	.3
TOTAL	3		267		61		9			194	422
		45		211		19		1	616		
PCT	.5	7.3	43.3	34.3	9.9	3.1	1.5	.2	100.0	31.5	68.5

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.0	.4	.0	.0	.0	3.0
1-2	.6	1.4	2.3	.0	.0	.0	4.3
3-4	.0	.4	.6	.0	.0	.0	1.0
5-6	.0	.6	2.3	.0	.0	.0	2.9
7	.0	.6	.4	.4	.0	.0	1.4
8-9	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.0	6.0	.9	.0	.0	13.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.6	.0	.0	.0	.0	3.6
1-2	.0	2.4	1.3	.0	.0	.0	3.7
3-4	.0	.0	.1	.0	.0	.0	.1
5-6	.0	.6	1.1	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.6	2.6	.0	.0	.0	9.1

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	1.6	.0	.0	.0	3.7
3-4	.0	.0	2.1	.0	.0	.0	2.1
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	3.7	.0	.0	.0	5.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.3	.6	.0	.0	.0	2.9
1-2	.0	.7	.0	.0	.0	.0	.7
3-4	.0	1.1	1.4	.0	.0	.0	2.6
5-6	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.6	.6	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.1	2.9	.6	.0	.0	7.6

PERIOD: (OVER-ALL) 1963-1974

AUGUST

AREA 0021 OKHOTSK SEA SE
52.3N 152.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	2.1	1.1	.0	.0	.0	3.3
3-4	.0	.6	3.1	.0	.0	.0	3.7
5-6	.0	.0	2.3	.0	.0	.0	2.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	6.6	.0	.0	.0	9.7

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.9	4.3	.0	.0	.0	6.1
3-4	.0	3.6	.0	.0	.0	.0	3.6
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.7	5.7	.0	.0	.0	12.4

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	1.4	1.3	.0	.0	.0	2.7
3-4	.0	1.0	1.7	.0	.0	.0	2.7
5-6	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.6	.0	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.6	5.3	.0	.0	.0	9.9

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.1	.9	.7	.0	.0	.0	2.7	
1-2	.0	5.0	4.1	.0	.0	.0	9.1	
3-4	.0	3.0	3.4	.0	.0	.0	6.4	
5-6	.0	.6	1.1	.0	.0	.0	1.7	
7	.0	.0	.7	.1	.0	.0	.9	
8-9	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	9.4	10.1	.3	.0	.0	21.0	88.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	13.1	12.6	1.7	.0	.0	.0	27.4	
1-2	.6	17.1	16.0	.0	.0	.0	33.7	
3-4	.0	9.7	12.6	.0	.0	.0	22.3	
5-6	.0	1.7	9.7	.0	.0	.0	11.4	
7	.0	.6	2.3	.6	.0	.0	3.4	
8-9	.0	.0	.0	.6	.0	.0	.6	
10-11	.0	.0	.6	.6	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	13.7	41.7	42.9	1.7	.0	.0	100.0	175

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.7	20.4	13.7	8.7	3.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	152	3
6-7	.3	1.0	2.3	5.7	5.4	1.0	.3	.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	6
8-9	.0	.7	.7	.3	.7	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
10-11	.0	1.0	.0	.3	.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	6
12-13	.0	.0	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
>13	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
INDET	8.0	3.3	6.4	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	2
TOTAL	39	79	69	59	32	8	7	1	4	1	0	0	0	0	0	0	0	0	0	299	4
PCT	13.0	26.4	23.1	19.7	10.7	2.7	2.3	.3	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	.0	.0	4.7	.0	.0	.0	.0	4.7	.0	.0	.0	.0	6.2	.0		89.1
NE	5.9	.0	2.9	.0	.0	.0	.0	8.8	.0	.0	5.9	5.9	5.9	.0		73.5
E	41.8	.0	.0	.0	.0	.0	.0	41.8	.0	.0	.0	.0	.0	.0		58.2
SE	42.7	.0	4.8	.0	.0	.0	.0	47.6	.0	.0	3.2	.0	.0	.0		49.2
S	5.6	.0	6.0	.0	.0	.0	.0	11.6	.0	.0	13.9	1.9	.0	.0		72.7
SW	.0	.0	.7	.0	.0	.0	.0	.7	5.2	.0	17.0	.0	2.6	2.6		71.9
W	1.2	.0	.0	.0	.0	.0	.0	1.2	.0	.0	11.5	.0	.0	.0		87.3
NW	4.3	.0	.0	.0	.0	.0	.0	4.3	1.7	.0	2.2	.0	.0	.0		91.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	.0	.0	4.3	.0	.0	.0	.0	4.3	.0	.0	4.3	.0	4.3	4.3		82.6
TOT PCT	8.4	.0	2.6	.0	.0	.0	.0	11.0	1.0	.0	7.5	.6	1.6	.6		77.6
TOT OBS:	308															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA				
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	7.7	.0	4.4	.0	.0	.0	.0	12.1	.0	.0	9.9	1.1	1.1	2.2		73.6
06&09	9.7	.0	2.8	.0	.0	.0	.0	12.5	1.4	.0	2.8	.0	2.8	.0		80.6
12&15	8.4	.0	1.2	.0	.0	.0	.0	9.6	1.2	.0	6.0	1.2	2.4	1.2		78.3
18&21	6.2	.0	2.5	.0	.0	.0	.0	8.6	1.2	.0	8.6	.0	.0	.0		81.5
TOT PCT	8.0	.0	2.8	.0	.0	.0	.0	10.7	.9	.0	7.0	.6	1.5	.9		78.3
TOT OBS:	327															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.3	3.3	5.4	1.6	.0	.0		10.5	14.3	13.3	10.0	8.8	17.9	10.5	5.9	8.9	10.5
NE	.7	2.7	.8	1.5	.0	.0		5.7	12.5	5.5	10.0	7.9	2.6	.9	5.9	6.7	7.9
E	.4	1.9	2.0	.3	.2	.3		5.1	14.5	9.1	12.5	1.9	14.3	3.2	8.8	4.0	5.3
SE	1.0	3.9	5.9	1.5	.6	.0		13.0	14.6	5.9	17.5	11.1	25.0	9.1	26.5	12.3	28.9
S	.6	5.6	7.9	3.8	.3	.0		18.1	14.8	12.9	18.8	19.0	21.4	23.6	26.5	12.3	23.7
SW	.8	4.6	6.4	.9	.0	.0		12.6	12.3	20.7	16.3	8.8	.0	7.3	8.6	17.9	5.3
W	.3	6.5	5.3	1.7	.0	.0		13.7	12.4	15.2	10.0	13.9	3.6	16.4	5.9	15.6	13.2
NW	1.1	4.6	8.1	1.1	.3	.0		15.2	13.3	16.8	5.0	21.3	14.3	20.0	11.8	11.2	5.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.0							6.0	.0	4.7	.0	7.4	.0	9.1	.0	10.7	.0
TOT OBS	33	99	125	37	4	1	299		12.8	64	20	54	14	55	17	56	19
TOT PCT	11.0	33.1	41.8	12.4	1.3	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	5.2	3.3	.6	.0		10.5	14.3	12.5	10.7	9.4	9.3
NE	2.4	1.7	.9	.7	.0		5.7	12.5	6.5	7.0	2.1	7.0
E	1.7	1.8	1.2	.2	.3		5.1	14.5	6.8	4.4	4.5	4.3
SE	2.1	5.9	3.3	1.7	.0		13.0	14.6	8.6	14.0	13.2	16.7
S	3.8	7.4	5.4	1.5	.0		18.1	14.8	14.3	19.5	24.3	15.3
SW	2.3	8.0	2.0	.3	.0		12.6	12.3	19.6	7.0	7.6	14.7
W	2.5	8.4	2.2	.6	.0		13.7	12.4	14.0	11.8	13.9	15.0
NW	2.4	9.4	2.8	.5	.0		15.2	13.3	14.0	19.9	18.1	9.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	6.0						6.0	.0				
TOT OBS	74	143	63	18	1	299		12.8	84	68	72	75
TOT PCT	24.7	47.8	21.1	6.0	.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.6	7.1	34.5	35.7	16.7	1.2	1.2	13.9	100.0	84
06&09	5.9	1.5	36.8	38.2	17.6	.0	.0	13.3	100.0	68
12&15	6.9	4.2	29.2	50.0	6.9	2.8	.0	12.6	100.0	72
18&21	8.0	6.7	32.0	44.0	8.0	1.3	.0	11.4	100.0	75
TOT	18	15	99	125	37	4	1	12.8		299
PCT	6.0	5.0	33.1	41.8	12.4	1.3	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.3	.7	5.2	3.7		5.1
NE	.7	.0	1.5	2.2		6.2
E	.0	.0	.5	1.7		7.5
SE	.5	.5	1.1	1.9		6.3
S	4.2	.0	3.7	7.7		5.4
SW	2.6	2.9	1.5	5.3		5.1
W	4.7	1.8	4.2	5.1		4.9
NW	4.2	4.0	7.8	7.0		5.2
VAR	.0	.0	.0	.0		.0
CALM	3.3	1.4	1.4	3.8		4.4
TOT OBS	50	24	57	81	212	5.2
TOT PCT	23.6	11.3	26.9	38.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.9	2.4	1.2	1.5	.9	.4	.4	4.8	
NE	.9	.0	.0	.0	.6	.9	.8	.0	.0	.0	1.2	
E	.0	.0	.0	.4	.9	.8	.0	.0	.0	.0	.0	
SE	.0	.0	.1	.1	.0	1.8	.9	.0	.0	.0	.9	
S	1.3	.0	.4	.8	.5	5.3	.7	.0	.9	.0	5.7	
SW	.6	.0	.5	.1	.0	4.0	.7	.0	.0	.0	6.5	
W	1.3	.0	.0	.0	2.0	4.4	.7	.0	.5	.0	7.0	
NW	.1	.0	.6	.0	4.5	4.7	1.7	.9	.6	.1	9.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.5	.0	.0	2.4	.0	.0	.9	.5	4.7	
TOT OBS	11	0	5	5	23	54	15	4	7	2	86	212
TOT PCT	5.2	.0	2.4	2.4	10.8	25.5	7.1	1.9	3.3	.9	40.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >9500	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5
* OR >9000	4.1	5.9	6.3	6.3	6.3	6.3	6.3	6.3
* OR >3500	8.1	12.2	13.5	13.5	13.5	13.5	13.5	13.5
* OR >2000	27.0	36.9	39.6	39.6	39.6	39.6	39.6	39.6
* OR >1000	32.9	47.7	50.9	50.9	50.9	50.9	50.9	50.9
* OR >600	34.2	49.1	52.7	52.7	53.2	53.2	53.2	53.6
* OR >300	35.1	50.9	55.0	55.0	55.4	55.4	55.4	55.9
* OR >150	35.1	50.9	55.0	55.0	55.4	55.4	55.4	55.9
* OR > 0	35.6	51.4	56.3	56.8	57.7	58.1	59.0	59.9
TOTAL	79	114	125	126	128	129	131	133

TOTAL NUMBER OF OBS: 222

PCT FREQ NH <5/8: 40.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
16.8	3.8	7.6	4.2	5.9	4.2	11.3	7.6	34.5	4.2	238

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.0	.0	1.1	2.7	.2	.0	.0	.0	.0	.0	3.9	
<1/2	NO PCP	.0	.3	.0	.3	1.3	1.3	1.6	.4	.0	.3	5.6	
	TOT %	.0	.3	1.1	3.0	1.5	1.3	1.6	.4	.0	.3	9.5	
	PCP	.0	.3	.0	1.2	.2	.0	.0	.0	.0	.0	1.6	
1/2<1	NO PCP	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	1.6	
	TOT %	.0	.3	.0	1.2	1.0	.8	.0	.0	.0	.0	3.3	
	PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	PCP	.0	.0	.7	.7	1.2	.1	.0	.3	.0	.3	3.3	
2<5	NO PCP	.9	.4	.2	1.2	.9	.7	.7	.0	.0	.0	4.9	
	TOT %	.9	.4	.9	1.9	2.1	.7	.7	.3	.0	.3	8.2	
	PCP	.5	.2	.0	.0	.3	.0	.2	.2	.0	.0	1.3	
5<10	NO PCP	3.1	1.5	1.5	.4	3.9	2.2	2.8	6.6	.0	1.6	23.7	
	TOT %	3.6	1.6	1.5	.4	4.3	2.2	3.0	6.7	.0	1.6	25.0	
	PCP	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
10+	NO PCP	5.8	2.3	.9	3.3	8.4	7.5	8.4	11.0	.0	5.3	53.3	
	TOT %	5.8	2.3	.9	3.3	8.4	7.5	8.4	11.3	.0	5.3	53.6	
	TOT OBS												304
	TOT PCT	10.4	5.3	4.3	10.1	1.2	12.6	13.6	18.8	.0	7.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
<1/2	4-10	.0	.0	.5	2.9	2.4	.3	2.1	.3	.0		8.7	
	11-21	.0	.0	.8	2.5	.9	1.9	.8	.4	.0		7.3	
	22+	.0	.0	.0	.0	.0	.2	.5	.3	.0		1.0	
	TOT %	.0	.0	1.3	5.4	3.3	2.4	3.4	1.1	.0	.3	17.3	
	0-3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
1/2<1	4-10	.0	.0	.0	.0	.3	.0	.0	.0	.0		.3	
	11-21	.0	.0	.0	.0	.5	.5	.0	.0	.0		1.0	
	22+	.0	.3	.0	1.0	.0	.0	.0	.0	.0		1.4	
	TOT %	.0	.3	.0	1.2	1.0	.5	.0	.0	.0	.0	3.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.3	.0	.0	.0	.0	.3	.0	.0		.7	
	11-21	.0	.0	.2	.2	.0	.3	.0	.0	.0		.7	
	22+	.0	.0	.0	.2	.2	.0	.0	.0	.0		.3	
	TOT %	.0	.3	.2	.3	.2	.3	.3	.0	.0	.0	1.7	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	.3	.1	.3	.3	.3	.3	.0	.3	.0		2.1	
	11-21	1.4	.0	.8	1.6	.7	.0	.3	.0	.0		4.8	
	22+	.0	.3	.2	.3	.9	.4	.3	.0	.0		2.4	
	TOT %	1.6	.4	1.3	2.2	1.9	.8	.7	.3	.0	.0	9.3	
	0-3	.3	.3	.4	.0	.0	.0	.0	.0	.0	1.4	2.4	
5<10	4-10	.9	.4	.6	.1	1.2	1.2	1.0	1.5	.0		6.9	
	11-21	1.2	.1	.2	.2	1.7	.4	1.1	2.7	.0		7.6	
	22+	.5	.9	.0	.2	.9	.0	.0	.7	.0		3.1	
	TOT %	2.9	1.7	1.2	.4	3.8	1.6	2.2	4.8	.0	1.4	20.1	
	0-3	.0	.3	.0	.9	.4	.8	.3	1.1	.0	4.5	8.3	
10+	4-10	2.2	1.9	.5	.7	1.3	2.7	3.3	2.6	.0		15.2	
	11-21	2.8	.4	.2	1.6	3.6	3.0	3.2	5.2	.0		20.1	
	22+	.8	.0	.3	.4	2.1	.0	.9	.4	.0		4.8	
	TOT %	5.8	2.7	1.0	3.6	7.4	6.5	7.6	9.3	.0	4.5	48.4	
	TOT OBS												289
	TOT PCT	10.3	5.5	4.9	13.3	17.6	12.2	14.2	15.7	.0	6.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	3.0	.0	3.0	3.0	16.7	27.3	3.0	1.5	1.5	3.0	62.1	37.9	66
06&09	5.5	.0	3.6	.0	9.1	32.7	10.9	1.8	3.6	.0	67.3	32.7	55
12&15	5.4	.0	3.6	1.8	3.6	21.4	8.9	1.8	5.4	.0	51.8	48.2	56
18&21	6.0	.0	.0	6.0	14.0	20.0	6.0	2.0	4.0	.0	58.0	42.0	50
TOT	11	0	6	6	25	58	16	4	8	2	136	91	227
PCT	4.8	.0	2.6	2.6	11.0	25.6	7.0	1.8	3.5	.9	59.9	40.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	13.4	3.1	2.1	8.2	19.6	53.6	97
06&09	13.6	2.5	1.2	9.9	14.8	58.0	81
12&15	13.5	2.2	2.2	9.0	34.8	38.2	89
18&21	16.9	4.5	.0	9.0	23.6	46.1	89
TOT	51	11	9	32	83	174	356
PCT	14.3	3.1	1.4	9.0	23.3	48.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	3.0	7.6	13.6	51.5	34.8	66
06&09	5.5	9.1	12.7	54.5	32.7	55
12&15	5.7	7.5	15.1	37.7	47.2	53
18&21	4.2	4.2	12.5	45.8	41.7	48
TOT	10	16	30	106	86	222
PCT	4.5	7.2	13.5	47.7	38.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	8.0	36.0	11	44.0
45/49	.0	.0	.0	.0	4.0	4.0	12.0	36.0	14	56.0
TOTAL	0	0	0	0	1	1	5	18	25	100.0
PCT	.0	.0	.0	.0	4.0	4.0	20.0	72.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	12.0	.0	.0	4.0	.0	14.0	14.0	.0	.0
	15.0	1.0	11.0	.0	.0	8.0	11.0	10.0	.0	.0
	15.0	13.0	11.0	.0	4.0	8.0	25.0	24.0	.0	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	64	61	60	52	45	39	39	52.0	93
06&09	64	63	58	52	45	37	37	51.8	80
12&15	73	68	55	50	46	45	45	50.7	87
18&21	61	59	55	50	45	41	41	49.6	88
TOT	73	61	58	50	45	41	37	51.0	348

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	66.7	33.3	87	6
06&09	.0	.0	.0	.0	33.3	66.7	93	3
12&15	.0	.0	.0	.0	.0	100.0	98	2
18&21	.0	.0	7.1	7.1	.0	85.7	91	14
TOT	0	0	1	1	5	18	91	25

SEPTEMBER

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.4N 152.6E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	37 40	41 44	45 48	49 52	53 56	57 60	61 64	TOT	W FOG	WO FOG
17/19	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
14/16	.0	.0	.0	.0	.4	.0	.0	1	.0	.4
11/13	.0	.0	.0	.4	.4	.4	.0	3	.0	1.2
9/10	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.0	.4	.0	1.6	.4	6	.0	2.4
6	.0	.0	.4	.4	.4	.4	.0	4	.0	1.6
5	.0	.0	.8	.4	1.2	.8	.8	10	.0	4.0.
4	.0	.0	.4	2.0	1.6	.4	.4	12	1.2	3.6
3	.0	.0	.0	2.4	1.6	.4	.0	11	.0	4.4
2	.0	.0	.4	5.2	4.4	.8	.0	27	.8	10.0
1	.0	.0	2.0	2.0	4.0	.0	.0	20	.0	8.0
0	.0	.0	8.4	13.3	5.6	2.0	.0	73	3.2	26.1
-1	.0	1.2	4.0	3.6	.8	.0	.0	24	.0	9.6
-2	.0	.0	4.4	3.6	.8	.4	.0	23	2.4	6.8
-3	.0	.0	.8	1.6	.0	.0	.0	6	.0	2.4
-4	.0	.0	1.6	1.2	.8	.0	.0	9	.0	3.6
-5	.0	.0	2.0	1.2	.4	.0	.0	9	.0	3.6
-6	.0	.0	.0	.4	.0	.0	.0	1	.0	.4
-7/-8	.0	.0	1.6	.0	.0	.0	.0	4	.0	1.6
-9/-10	.0	.0	1.2	.0	.0	.0	.0	3	.0	1.2
-11/-13	.4	.0	.0	.0	.0	.0	.0	1	.0	.4
TOTAL	1		70		56		5		19	230
		3		95		19		249		
PCT	.4	1.2	28.1	38.2	22.5	7.6	2.0	100.0	7.6	92.4

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.2	2.0	.0	.0	.0	3.1
3-4	.0	1.6	1.4	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.6	.6	.0	.0	1.2
8-9	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.9	1.8	.0	.0	9.0

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8
1-2	.2	1.8	.0	.0	.0	.0	2.0
3-4	.0	.0	.8	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.8	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	1.8	.8	.8	.0	.0	4.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4
1-2	.6	.0	.0	.0	.0	.0	.6
3-4	.0	.8	.6	.0	.0	.0	1.4
5-6	.0	.0	.0	.6	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.1	.6	.6	.0	.0	3.9

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.0	.0	.0	.0	.0	1.8
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.8	1.0	.0	.0	.0	1.8
5-6	.0	.0	.0	.2	.0	.0	.2
7	.0	.0	.2	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	1.8	1.2	.2	.0	.0	3.9

PERIOD: (OVER-ALL) 1963-1974 SEPTEMBER AREA 0021 OKHOTSK SEA SE

TABLE 18 (CONT) 52.4N 152.6E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	.0	1.6
1-2	.0	2.1	2.9	.0	.0	.0	5.1	.8	1.8	1.2	.0	.0	.0	3.7
3-4	.0	.6	6.3	.8	.0	.0	7.6	.0	1.8	1.8	.0	.0	.0	3.5
5-6	.0	.0	.8	1.6	.0	.0	2.3	.0	.8	2.3	.0	.0	.0	3.1
7	.0	.0	1.4	1.6	.0	.0	2.9	.0	.0	.0	.8	.0	.0	.8
8-9	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.7	11.3	5.3	.0	.0	19.3	1.6	5.1	5.3	1.0	.0	.0	12.9

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.6	1.6	.0	.0	.0	.0	2.1	.2	1.8	.0	.0	.0	.0	2.0	
1-2	.0	3.1	3.5	.0	.0	.0	6.6	.8	3.3	2.1	.0	.0	.0	6.3	
3-4	.0	1.6	2.5	.0	.0	.0	4.1	.0	1.6	3.7	.0	.0	.0	5.3	
5-6	.0	.0	.0	.8	.0	.0	.8	.0	.0	2.3	.0	.0	.0	2.3	
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.0	.2	.0	.0	1.2	
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.8	.6	.8	.0	2.1	
10-11	.0	.0	.6	.0	.0	.0	.6	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.2	.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	
TOT PCT	.6	6.3	7.4	2.0	.0	.0	16.2	1.0	6.6	10.2	1.0	.8	.0	19.5	89.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.1	7.0	.0	.0	.0	.0	21.1	
1-2	2.3	13.3	11.7	.0	.0	.0	27.3	
3-4	.0	8.6	18.0	.8	.0	.0	27.3	
5-6	.0	.8	5.5	3.1	.0	.0	9.4	
7	.0	.0	3.9	3.1	.0	.0	7.0	
8-9	.0	.0	.8	3.9	.8	.0	5.5	
10-11	.0	.0	.8	.0	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.6	.0	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								128
TOT PCT	16.4	29.7	40.6	12.5	.8	.0	100.0	

PERIOD: (OVER-ALL) 1957-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	7.6	17.9	15.7	2.7	1.3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	4
6-7	.0	.0	3.6	3.6	4.5	3.1	2.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	39	6
8-9	.0	.0	.9	.4	1.3	1.8	1.8	.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	9
10-11	.0	.0	.4	.4	.4	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
12-13	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INBET	3.1	1.8	8.1	4.5	4.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	4
TOTAL	8	21	70	56	29	21	13	1	4	0	0	0	0	0	0	0	0	0	0	223	5
PCT	3.6	9.4	31.4	25.1	13.0	9.4	5.8	.4	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1907-1974

AREA 0021 OKHOTSK SEA SE
52.4N 152.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.2	3.0	4.4	.0	2.2	.0	2.2	14.1	2.2	.0	.0	.0	2.2		.0	81.5
NE	15.0	.0	2.5	.0	.0	.0	.0	17.5	.0	.0	2.5	.0	2.5		.0	77.5
E	25.9	7.4	7.4	.0	.0	.0	.0	40.7	.0	.0	5.6	.0	.0		.0	53.7
SE	9.9	.0	.0	.0	.0	.0	.0	9.9	11.9	.0	4.0	.0	7.9		.0	66.3
S	16.3	3.3	3.3	.0	.0	.0	.0	22.8	.0	.0	3.3	.0	.0		.0	74.0
SW	1.5	.0	6.1	.0	.0	.0	.0	7.6	3.8	.0	6.1	3.1	3.1		.0	76.3
W	1.2	.0	3.3	.0	7.4	.0	.0	11.9	12.3	.0	1.6	.0	.0		.0	74.2
NW	2.5	1.7	5.4	.0	4.6	.0	.4	12.9	2.5	.0	.0	.0	.0		.0	84.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
TOT PCT	5.9	1.5	4.1	.0	3.0	.0	.4	14.5	5.2	.0	2.2	.4	1.5		.0	76.2
TOT OBS:	269															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	8.1	2.3	2.3	.0	1.2	.0	.0	14.0	4.7	.0	.0	.0	.0		.0	81.4
06&09	4.1	.0	5.4	.0	2.7	.0	1.4	13.5	4.1	.0	2.7	.0	1.4		.0	78.4
12&15	6.8	1.7	5.1	.0	5.1	.0	.0	18.6	5.1	.0	1.7	1.7	.0		.0	72.9
18&21	8.2	1.6	3.3	.0	3.3	.0	.0	14.8	8.2	.0	6.6	.0	4.9		.0	65.6
TOT PCT	6.8	1.4	3.9	.0	2.9	.0	.4	15.0	5.4	.0	2.5	.4	1.4		.0	75.4
TOT OBS:	280															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	3.6	5.8	1.1	.4	.0		10.7	15.6	15.9	14.3	10.3	.0	10.3	.0	4.3	15.9
NE	.0	1.6	3.3	.3	.0	.0		5.4	14.3	7.5	.0	4.4	15.6	2.7	.0	6.1	4.5
E	.0	1.6	2.9	.7	.0	.0		5.2	15.8	6.0	.0	3.9	21.9	4.3	.0	4.3	6.8
SE	.4	1.1	4.0	.7	.0	.0		6.2	15.1	7.1	.0	4.4	.0	10.9	.0	3.7	9.1
S	.3	2.6	3.6	2.3	.4	.0		9.2	17.7	13.9	14.3	8.8	.0	3.8	.0	12.8	.0
SW	.5	4.1	4.1	2.7	.4	.0		12.0	15.3	12.3	.0	10.3	.0	17.4	33.3	13.4	.0
W	.0	6.3	9.7	5.7	5.1	.8		27.5	21.6	17.5	50.0	33.8	25.0	22.8	58.3	34.1	29.5
NW	.0	4.2	11.0	7.1	.5	.1		22.9	18.4	19.8	21.4	22.1	37.5	27.7	8.3	18.9	34.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9							.9	.0	.0	.0	2.0	.0	.0	.0	2.4	.0
TOT OBS	5	38	102	47	16	2	230		17.8	63	7	51	8	46	3	41	11
TOT PCT	2.2	25.2	44.3	20.4	7.0	.9		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.5	5.0	2.6	1.5	.0		10.7	15.6	15.7	8.9	9.7	6.7
NE	.7	2.7	1.8	.2	.0		5.4	14.3	6.8	5.9	2.6	5.8
E	.4	2.3	2.2	.3	.0		5.2	15.8	5.4	6.4	4.1	4.8
SE	.5	2.8	2.8	.0	.0		6.2	15.1	6.4	3.8	10.2	4.8
S	1.5	2.2	4.7	.9	.0		9.2	17.7	13.9	7.6	3.6	10.1
SW	2.3	5.1	3.3	1.3	.0		12.0	15.3	11.1	8.9	18.4	10.6
W	4.1	6.7	8.0	5.2	3.4		27.5	21.6	20.7	32.6	25.0	33.2
NW	1.1	10.1	7.2	4.0	.5		22.9	18.4	20.0	24.2	26.5	22.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.9						.9	.0	.0	1.7	.0	1.9
TOT OBS	30	85	75	31	9	230		17.8	70	59	49	53
TOT PCT	13.0	37.0	32.6	13.5	3.9		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	1.4	17.1	52.9	18.6	8.6	1.4	19.5	100.0	70
06&09	1.7	.0	32.2	42.4	20.3	3.4	.0	16.2	100.0	59
12&15	.0	.0	20.4	53.1	20.4	6.1	.0	17.8	100.0	49
18&21	1.9	3.8	32.7	26.9	23.1	9.6	1.9	17.5	100.0	52
TOT	2	3	58	102	47	16	2	17.8		230
PCT	.9	1.3	25.2	44.3	20.4	7.0	.9		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.5	.8	5.3	5.3		6.6
NE	.0	.5	1.1	2.6		7.2
E	.5	.5	.5	3.7		6.7
SE	.0	.5	2.8	6.2		7.4
S	.5	.5	5.7	6.3		6.7
SW	2.3	.6	2.3	7.7		6.2
W	3.2	3.9	7.5	8.1		5.7
NW	2.3	.7	9.1	8.7		6.4
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.5	.0		5.0
TOT OBS	20	17	75	106	218	6.4
TOT PCT	9.2	7.8	34.4	48.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT;NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.0	.0	.0	.0	1.9	4.8	.8	.0	.3	.3	2.5	
NE	.3	.5	.0	.0	.8	1.5	.5	.0	.0	.1	.6	
E	.3	.0	.0	.5	2.1	1.3	.0	.0	.0	.0	.9	
SE	2.3	.0	.2	.0	1.1	1.4	.5	.5	2.8	.0	.5	
S	.5	.0	.7	.8	3.2	5.3	.0	.0	.5	.3	1.7	
SW	.9	.0	.0	1.9	2.5	3.4	.0	.0	.0	.1	3.9	
W	1.4	.0	.0	.9	3.1	6.2	3.1	.0	.0	.0	8.0	
NW	.6	.0	.0	.9	3.6	8.7	2.1	.0	.1	.5	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
TOT OBS	16	1	2	11	40	71	15	1	8	3	50	218
TOT PCT	7.3	.5	.9	5.0	18.3	32.6	6.9	.5	3.7	1.4	22.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >3OYD	* OR >0
* OR >6500	4.4	4.4	4.9	4.9	4.9	4.9	4.9	4.9
* OR >5000	4.9	4.9	5.3	5.3	5.3	5.3	5.3	5.3
* OR >3500	8.4	11.6	12.0	12.0	12.0	12.0	12.0	12.0
* OR >2000	26.7	40.4	44.0	44.4	44.4	44.4	44.4	44.4
* OR >1000	32.4	53.8	60.9	62.2	62.2	62.2	62.2	62.2
* OR >600	32.4	56.4	65.8	67.1	67.1	67.1	67.1	67.1
* OR >300	33.3	57.3	67.1	68.4	68.4	68.4	68.4	68.4
* OR >150	33.8	57.8	67.6	68.9	69.3	69.3	69.3	69.3
* OR > 0	35.1	59.6	70.7	73.3	74.2	75.1	77.3	77.3
TOTAL	79	134	159	165	167	169	174	174

TOTAL NUMBER OF OBS: 225 PCT FREQ NH <5/8: 22.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
4.4	3.6	5.6	4.0	4.8	4.8	9.1	15.9	40.5	7.5	252

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.4	.0	.0	.0	.0	.0	.4	.4	.0	.0	1.1	
	NO PCP	.0	.0	.0	.7	.0	.7	.4	.0	.0	.0	1.9	
	TOT %	.4	.0	.0	.7	.0	.7	.7	.4	.0	.0	3.0	
1/2<1	PCP	.3	.0	.0	.0	.4	.0	.3	.2	.0	.0	1.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.4	.0	.3	.2	.0	.0	1.1	
1<2	PCP	.3	.0	.4	.0	.0	.4	.4	.3	.0	.0	1.9	
	NO PCP	.3	.1	.0	.0	.4	.5	.3	.0	.0	.0	1.5	
	TOT %	.6	.1	.4	.0	.4	.8	.7	.5	.0	.0	3.3	
2<5	PCP	.3	.5	.3	.0	1.7	.2	1.0	.9	.0	.0	4.8	
	NO PCP	1.3	.3	.9	1.9	.0	.7	1.8	2.0	.0	.0	8.9	
	TOT %	1.6	.7	1.2	1.9	1.7	.9	2.8	3.0	.0	.0	13.8	
5<10	PCP	.3	.1	1.4	.1	.3	.4	1.4	.9	.0	.0	4.8	
	NO PCP	2.3	.9	.6	.5	2.4	5.1	7.5	5.9	.0	.4	25.7	
	TOT %	2.6	1.0	2.0	.6	2.7	5.5	8.9	6.9	.0	.4	30.5	
10+	PCP	.3	.1	.0	.7	.0	.0	.0	.0	.0	.0	1.1	
	NO PCP	6.5	1.8	1.5	5.4	6.0	4.2	10.0	11.4	.0	.4	47.2	
	TOT %	6.8	1.9	1.5	6.1	6.0	4.2	10.0	11.4	.0	.4	48.3	
	TOT OBS												269
	TOT PCT	12.2	3.7	5.0	9.3	11.2	12.2	23.4	22.3	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.5	.5	.5	.0		1.4	
	11-21	.5	.0	.0	.0	.0	.5	.0	.0	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.5	.0	.0	.0	.0	.9	.5	.5	.0	.0	2.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.5	.0	.0	.0	.0		.5	
	11-21	.4	.0	.0	.0	.0	.0	.4	.2	.0		.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	TOT %	.4	.0	.0	.0	.5	.0	.4	.2	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.5	.0	.5	.0	.0	.0	.0		.9	
	11-21	.0	.0	.0	.0	.0	.9	.5	.0	.0		1.4	
	22+	.4	.1	.0	.0	.0	.0	.0	.0	.0		.5	
	TOT %	.4	.1	.5	.0	.5	.9	.5	.0	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.4	.0	.0	.0	.0	.5	.0	.6	.0		1.4	
	11-21	.0	.5	.5	.0	.5	.0	.4	1.1	.0		2.8	
	22+	.0	.2	.7	.0	.8	.6	3.2	1.1	.0		6.5	
	TOT %	.4	.7	1.2	.0	1.3	1.1	3.5	2.7	.0	.0	10.7	
5<10	0-3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	.9	
	4-10	.0	1.1	.8	.0	.0	1.4	.9	.5	.0		4.7	
	11-21	1.3	.1	1.6	.2	1.3	1.1	5.0	2.0	.0		12.6	
	22+	.0	.0	.0	.5	.9	1.9	4.3	3.6	.0		11.2	
	TOT %	1.3	1.2	2.5	.7	2.2	4.8	10.3	6.1	.0	.5	29.4	
10+	0-3	.0	.0	.0	.0	.4	.1	.0	.0	.0	.5	.9	
	4-10	3.5	.7	.5	1.2	1.9	2.1	4.0	2.6	.0		16.4	
	11-21	3.4	1.6	.5	3.9	2.1	2.0	3.3	7.6	.0		24.3	
	22+	1.3	.0	.0	.1	.8	.9	4.9	3.6	.0		11.7	
	TOT %	8.2	2.3	.9	5.1	5.1	5.1	12.1	13.8	.0	.5	53.3	
	TOT OBS												214
	TOT PCT	11.0	4.3	5.0	5.8	9.6	12.9	27.2	23.2	.0	.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	1.2	1.2	.0	3.7	28.4	32.1	7.4	1.2	1.2	2.5	79.0	21.0	81
06&09	9.1	1.5	.0	.0	13.6	37.9	6.1	.0	3.0	1.5	72.7	27.3	66
12&15	12.2	.0	2.4	7.3	12.2	26.8	2.4	.0	9.8	.0	73.2	26.8	41
18&21	15.6	.0	4.4	11.1	8.9	26.7	8.9	.0	2.2	.0	77.8	22.2	45
TOT	19	2	3	11	41	74	15	1	8	3	177	56	233
PCT	8.2	.9	1.3	4.7	17.6	31.8	6.4	.4	3.4	1.3	76.0	24.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	.0	1.1	1.1	17.2	27.6	52.9	87
06&09	4.1	1.4	2.7	9.5	24.3	58.1	74
12&15	3.4	1.7	5.1	18.6	28.8	42.4	59
18&21	6.7	1.7	5.0	10.0	41.7	35.0	60
TOT	9	4	9	39	84	135	280
PCT	3.2	1.4	3.2	13.9	30.0	48.2	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 3+	TOTAL OBS
00&03	1.3	2.5	20.0	60.0	20.0	80
06&09	9.4	10.9	15.6	57.8	26.6	64
12&15	10.3	12.8	33.3	43.6	23.1	39
18&21	16.7	21.4	38.1	45.2	16.7	42
TOT	18	23	55	121	49	225
PCT	8.0	10.2	24.4	53.8	21.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/54	.0	.0	.0	.0	.0	.0	2.9	.0	1	2.9
45/49	.0	.0	.0	.0	2.9	2.9	.0	2.9	3	8.6
40/44	.0	.0	.0	.0	5.7	2.9	31.4	17.1	20	57.1
35/39	.0	.0	.0	.0	2.9	.0	20.0	8.6	11	31.4
TOTAL	0	0	0	0	4	2	19	10	35	100.0
PCT	.0	.0	.0	.0	11.4	5.7	54.3	28.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.1	.7	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.7	2.1	.0	.0	5.7	.0	.0
7.1	15.7	2.1	.0	.0	.7	19.3	12.1	.0	.0
6.4	.7	.0	.0	.0	.0	2.9	21.4	.0	.0
15.7	17.1	2.1	.7	2.1	.7	22.1	39.3	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	60	59	51	42	34	27	27	42.9	82
06&09	56	55	52	42	36	32	32	43.1	74
12&15	54	53	49	42	36	32	32	42.1	64
18&21	55	54	48	41	36	32	32	41.3	63
TOT	60	54	50	42	36	32	27	42.4	283

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	20.0	10.0	50.0	20.0	82	10
06&09	.0	.0	10.0	10.0	60.0	20.0	85	10
12&15	.0	.0	20.0	.0	40.0	40.0	84	5
18&21	.0	.0	9.1	.0	54.5	36.4	86	11
TOT	0	0	5	2	19	10	84	36

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1907-1974

AREA 0021 OKHOTSK SEA SE
52.4N 152.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.5	.0	.0	.0	1	.0	.5
5	.0	.0	.0	.0	.5	.0	.0	1.0	.5	4	.5	1.4
4	.0	.0	.0	.0	1.0	.0	.0	.5	.0	3	.0	1.4
3	.0	.0	.0	.0	.0	.5	1.0	.0	.0	3	.0	1.4
2	.0	.0	.0	.5	1.4	3.3	1.0	.0	.0	13	.5	5.7
1	.0	.0	.0	1.0	1.9	1.9	.5	.0	.0	11	.0	5.3
0	.0	.0	.0	1.0	4.8	1.4	1.4	.0	.0	18	.0	8.6
-1	.0	.0	.0	1.4	8.1	3.8	1.0	.5	.0	31	.0	14.8
-2	.0	.0	.0	2.4	8.1	3.8	.5	.0	.0	31	.0	14.8
-3	.0	.0	.0	2.4	3.3	2.4	.5	.0	.0	18	.5	8.1
-4	.0	.0	1.0	2.4	5.3	3.4	.0	.0	.0	25	.0	12.0
-5	.0	.0	.5	5.7	2.4	1.0	.0	.0	.0	20	.0	9.6
-6	.0	.0	.5	3.3	.0	.0	.0	.0	.0	8	.0	3.8
-7/-8	.0	.0	3.3	2.9	1.4	.0	.0	.0	.0	16	.5	7.2
-9/-10	.0	.5	1.0	.0	.0	.0	.0	.0	.0	3	.0	1.4
-11/-13	.0	.0	.0	.5	.0	.0	.0	.0	.0	1	.0	.5
-14/-16	.0	.0	.5	.5	.0	.0	.0	.0	.0	2	.0	1.0
-17/-19	.5	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	1		14		80		12		1		4	205
		1		50		46		4		209		
PCT	.5	.5	6.7	23.9	38.3	22.0	5.7	1.9	.5	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.9	.0	.0	.0	3.0
1-2	.0	.0	2.8	.0	.0	.0	2.8
3-4	.0	.7	4.3	2.2	.0	.0	7.2
5-6	.0	.0	.7	.0	.9	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	9.6	2.2	.9	.0	15.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.0	1.1	.0	.0	.0	1.1
3-4	.0	.0	.2	.4	.0	.0	.7
5-6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.9	.2	.0	.0	1.1
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	5.0	.7	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.9	.9	.7	.0	.0	2.4
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.9	.7	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	3.0	1.3	.0	.0	6.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	1.7	.0	.0	.0	3.0
3-4	.0	.9	1.1	.0	.0	.0	2.0
5-6	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.9	.0	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	6.5	.2	.0	.0	8.9

OCTOBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1907-1974

AREA 0021 OKHOTSK SEA SE
52.4N 152.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	W FOG	WO FOG
6	.0	.0	.0	.0	.0	.5	.0	.0	.0	1	.0	.5
5	.0	.0	.0	.0	.5	.0	.0	1.0	.5	4	.5	1.4
4	.0	.0	.0	.0	1.0	.0	.0	.5	.0	3	.0	1.4
3	.0	.0	.0	.0	.0	.5	1.0	.0	.0	3	.0	1.4
2	.0	.0	.0	.5	1.4	3.3	1.0	.0	.0	13	.5	5.7
1	.0	.0	.0	1.0	1.9	1.9	.5	.0	.0	11	.0	5.3
0	.0	.0	.0	1.0	4.8	1.4	1.4	.0	.0	18	.0	8.6
-1	.0	.0	.0	1.4	8.1	3.8	1.0	.5	.0	31	.0	14.8
-2	.0	.0	.0	2.4	8.1	3.8	.5	.0	.0	31	.0	14.8
-3	.0	.0	.0	2.4	3.3	2.4	.5	.0	.0	18	.5	8.1
-4	.0	.0	1.0	2.4	5.3	3.4	.0	.0	.0	25	.0	12.0
-5	.0	.0	.5	5.7	2.4	1.0	.0	.0	.0	20	.0	9.6
-6	.0	.0	.5	3.3	.0	.0	.0	.0	.0	8	.0	3.8
-7/-8	.0	.0	3.3	2.9	1.4	.0	.0	.0	.0	16	.5	7.2
-9/-10	.0	.5	1.0	.0	.0	.0	.0	.0	.0	3	.0	1.4
-11/-13	.0	.0	.0	.5	.0	.0	.0	.0	.0	1	.0	.5
-14/-16	.0	.0	.5	.5	.0	.0	.0	.0	.0	2	.0	1.0
-17/-19	.5	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.5
TOTAL	1	1	14	50	80	46	12	4	1	209	4	205
PCT	.5	.5	6.7	23.9	38.3	22.0	5.7	1.9	.5	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.2	.9	.0	.0	.0	3.0
1-2	.0	.0	2.8	.0	.0	.0	2.8
3-4	.0	.7	4.3	2.2	.0	.0	7.2
5-6	.0	.0	.7	.0	.9	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.8	9.6	2.2	.9	.0	15.4

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	.0	1.1	.0	.0	.0	1.1
3-4	.0	.0	.2	.4	.0	.0	.7
5-6	.0	.0	2.0	.0	.0	.0	2.0
7	.0	.0	.9	.2	.0	.0	1.1
8-9	.0	.0	.9	.0	.0	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	5.0	.7	.0	.0	7.0

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.9	.9	.7	.0	.0	2.4
5-6	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.9	.7	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.7	3.0	1.3	.0	.0	6.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	1.7	.0	.0	.0	3.0
3-4	.0	.9	1.1	.0	.0	.0	2.0
5-6	.0	.0	2.8	.0	.0	.0	2.8
7	.0	.0	.0	.2	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.9	.0	.0	.0	.9
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	6.5	.2	.0	.0	8.9

PERIOD: (OVER-ALL) 1963-1974 OCTOBER AREA 0021 OKHOTSK SEA SE

TABLE 18 (CONT) 52.4N 152.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.5	.0	.0	.0	.0	2.2	.2	2.0	.0	.0	.0	.0	2.2
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	.2	.9	.0	.0	.0	1.1
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.9	.0	.0	1.1
5-6	.0	.0	1.5	.7	.0	.0	2.2	.0	.9	1.1	.2	.0	.0	2.2
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.9	.9	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.3	3.0	2.2	.9	.0	11.1	.2	3.0	3.0	2.0	.0	.0	8.3

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.7	.0	.0	.0	.0	1.7	
1-2	.0	1.5	.9	.0	.0	.0	2.4	.0	2.0	1.3	.0	.0	.0	3.3	
3-4	.0	.9	5.0	.9	.0	.0	6.7	.0	1.1	4.1	.2	.0	.0	5.4	
5-6	.0	.7	.9	.0	.0	.0	1.5	.0	.2	4.6	.0	.0	.0	4.8	
7	.0	.0	2.6	.7	.9	.0	4.1	.0	.0	.9	1.1	.9	.0	2.8	
8-9	.0	.0	.0	2.6	.0	.0	2.6	.0	.0	.0	.9	.0	.0	.9	
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	1.1	.0	.0	1.1	
17-19	.0	.0	.7	.0	.0	.0	.7	.0	.0	.2	.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	
TOT PCT	.0	3.9	10.0	5.7	.9	.0	20.4	.0	5.0	11.1	4.1	.9	.0	21.1	98.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	10.4	.9	.0	.0	.0	13.9	
1-2	.0	7.8	8.7	.0	.0	.0	16.5	
3-4	.0	4.3	16.5	5.2	.0	.0	26.1	
5-6	.0	1.7	14.8	.9	.9	.0	18.3	
7	.0	.0	6.1	5.2	1.7	.0	13.0	
8-9	.0	.0	1.7	3.5	.0	.0	5.2	
10-11	.0	.0	.9	1.7	.0	.0	2.6	
12	.0	.0	.9	.0	.0	.0	.9	
13-16	.0	.0	.0	1.7	.0	.0	1.7	
17-19	.0	.0	.9	.0	.0	.0	.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.9	.0	.9	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.6	24.3	51.3	18.3	3.5	.0	100.0	115

PERIOD: (OVER-ALL) 1957-1974 TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	7.2	9.8	5.7	3.6	.5	1.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	4
6-7	1.5	1.5	2.1	6.2	3.6	2.6	2.1	2.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	44	6
8-9	.0	.0	.0	1.5	1.5	1.5	2.6	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	8
10-11	.0	.5	.0	.0	.0	.5	.5	2.1	1.0	1.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	13	13
12-13	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	12
INDET	3.1	1.5	6.2	3.6	7.2	6.7	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	5
TOTAL	12	21	35	34	31	24	16	11	4	4	0	1	1	0	0	0	0	0	0	194	6
PCT	6.2	10.8	18.0	17.5	16.0	12.4	8.2	5.7	2.1	2.1	.0	.5	.5	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1944-1974

AREA 0021 OKHOTSK SEA SE
52.8N 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	2.0	.0	.0	.0	22.4	.0	.0	24.3	.0	.0	.0	.0	.0	.0	.0	75.7
NE	2.3	.0	.0	.0	9.3	.0	.0	11.6	.0	.0	.0	.0	.0	.0	.0	88.4
E	.0	12.5	.0	.0	25.0	.0	.0	25.0	.0	.0	.0	.0	.0	.0	.0	75.0
SE	.0	3.7	.0	.0	29.6	.0	.0	33.3	14.8	.0	.0	.0	.0	.0	.0	51.9
S	.0	6.0	.0	.0	.0	.0	.0	6.0	8.0	.0	.0	.0	.0	.0	.0	86.0
SW	11.6	.0	.0	.0	7.2	.0	.0	18.8	18.8	.0	.0	.0	.0	.0	.0	62.3
W	5.4	.0	.0	.0	29.3	.0	.0	32.0	16.3	.0	2.7	.0	.0	2.7		46.3
NW	.0	.0	.0	.0	21.0	.0	.0	21.0	12.1	.0	.0	.0	.0	.0	.0	66.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.1	1.2	.0	.0	19.6	.0	.0	22.7	9.2	.0	.6	.0	.0	.6		66.9
TOT OBS:	163															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	1.8	.0	.0	.0	10.9	.0	.0	12.7	7.3	.0	.0	.0	.0	.0	.0	80.0
06&09	2.8	.0	.0	.0	27.8	.0	.0	30.6	8.3	.0	.0	.0	.0	.0	.0	61.1
12&15	2.5	5.0	.0	.0	30.0	.0	.0	35.0	15.0	.0	2.5	.0	.0	.0	.0	47.5
18&21	5.1	.0	.0	.0	15.4	.0	.0	17.9	10.3	.0	.0	.0	.0	2.6		69.2
TOT PCT	2.9	1.2	.0	.0	20.0	.0	.0	22.9	10.0	.0	.6	.0	.0	.6		65.9
TOT OBS:	170															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.5	4.5	8.2	8.6	.0	.0		21.9	17.6	20.6	50.0	16.3	91.7	14.1	.0	23.4	66.7
NE	.0	2.4	3.0	1.2	.7	.0		7.3	16.1	12.2	.0	1.0	.0	2.3	.0	12.5	.0
E	.0	1.2	2.6	1.2	.0	.0		5.1	15.5	9.4	.0	.0	.0	6.3	.0	3.1	.0
SE	.0	.3	1.6	.2	.2	.0		2.3	17.3	1.7	.0	7.7	.0	.8	.0	.8	.0
S	.0	2.6	4.6	.7	.5	.0		8.2	15.0	7.2	.0	7.7	.0	5.5	.0	14.8	.0
SW	.3	1.4	.7	4.5	2.1	.2		9.3	25.4	7.2	.0	6.7	.0	16.4	.0	9.4	.0
W	1.0	5.4	7.5	7.0	3.5	.5		25.0	21.0	22.2	37.5	38.5	.0	23.4	.0	20.3	33.3
NW	.9	2.3	11.9	3.8	.7	.0		19.6	16.8	19.4	12.5	14.4	8.3	31.3	.0	15.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	.0	.0	7.7	.0	.0	.0	.0	.0
TOT OBS	6	29	57	39	11	1	143		18.3	45	2	26	3	32	0	32	3
TOT PCT	4.2	20.3	39.9	27.3	7.7	.7		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	1.7	8.0	11.4	.7	.0		21.9	17.6	21.8	24.1	14.1	27.1
NE	1.6	2.6	2.4	.7	.0		7.3	16.1	11.7	.9	2.3	11.4
E	.0	1.9	3.1	.0	.0		5.1	15.5	9.0	.0	6.3	2.9
SE	.0	1.2	.9	.2	.0		2.3	17.3	1.6	6.9	.8	.7
S	.7	4.4	2.6	.5	.0		8.2	15.0	6.9	6.9	5.5	13.6
SW	1.0	1.0	3.5	2.1	1.6		9.3	25.4	6.9	6.0	16.4	8.6
W	2.4	7.7	6.8	6.1	1.9		25.0	21.0	22.9	34.5	23.4	21.4
NW	1.6	8.0	9.1	.9	.0		19.6	16.8	19.1	13.0	31.3	14.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.0	6.9	.0	.0
TOT OBS	15	50	57	16	5	143		18.3	47	29	32	35
TOT PCT	10.5	35.0	39.9	11.2	3.5		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1944-1974

AREA 0021 OKHOTSK SEA SE
52.0N 153.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

	WIND SPEED (KNOTS)									
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	.0	.0	23.4	42.6	27.7	4.3	2.1	18.4	100.0	47
06&09	6.9	6.9	10.3	31.0	34.5	10.3	.0	19.3	100.0	29
12&15	.0	6.3	18.8	34.4	31.3	9.4	.0	18.6	100.0	32
18&21	.0	.0	25.7	48.6	17.1	8.6	.0	17.2	100.0	35
TOT	2	4	29	57	39	11	1	18.3		143
PCT	1.4	2.8	20.3	39.9	27.3	7.7	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	2.3	6.1	11.1		6.7
NE	1.2	1.6	1.8	1.0		4.3
E	.0	.0	1.4	3.3		7.7
SE	.0	.0	1.6	3.5		7.5
S	1.6	.8	3.9	2.3		5.4
SW	.0	.4	5.3	4.5		7.1
W	.6	2.7	8.4	10.0		6.7
NW	3.3	.8	10.7	7.2		5.8
VAR	.0	.0	.0	.0		.0
CALM	.0	.8	.8	.0		5.0
TOT OBS	10	12	51	55	128	6.3
TOT PCT	7.8	9.4	39.8	43.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	2.7	.0	1.4	.0	2.5	7.0	1.4	.0	1.4	.0	4.3	
NE	.0	.0	.2	.8	.4	1.2	.2	.0	.0	.0	2.7	
E	.0	.0	.0	.8	1.4	.6	1.2	.0	.8	.0	.0	
SE	.0	.0	.0	.0	2.3	1.2	1.6	.0	.0	.0	.0	
S	.0	.0	.0	.0	.6	2.1	2.0	.0	.0	.0	3.9	
SW	1.0	.0	.0	.0	3.3	1.6	2.7	.0	.2	.0	1.4	
W	.6	.0	.0	2.7	6.8	5.1	2.0	.0	.6	.0	3.9	
NW	1.2	.0	.0	1.2	3.7	6.3	1.6	1.6	.2	.0	6.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
TOT OBS	7	0	2	7	27	32	16	2	4	0	31	128
TOT PCT	5.5	.0	1.6	5.5	21.1	25.0	12.5	1.6	3.1	.0	24.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1
* OR >5000	2.3	3.1	4.7	4.7	4.7	4.7	4.7	4.7
* OR >3500	11.7	14.1	18.0	18.0	18.0	18.0	18.0	18.0
* OR >2000	22.7	30.5	39.8	41.4	42.2	43.0	43.0	43.0
* OR >1000	41.3	45.3	55.5	59.4	62.5	63.3	63.3	63.3
* OR >600	32.8	49.2	60.9	64.8	68.0	68.8	68.8	68.8
* OR >300	33.6	50.0	61.7	65.6	69.5	70.3	70.3	70.3
* OR >150	33.6	50.0	61.7	65.6	69.5	70.3	70.3	70.3
* OR > 0	33.6	50.0	61.7	66.4	71.1	74.2	75.8	75.8
TOTAL	43	64	79	85	91	95	97	97

TOTAL NUMBER OF OBS: 128

PCT FREQ NH <5/8: 24.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
6.8	1.4	4.7	1.4	8.8	3.4	16.2	12.8	40.5	4.1	148

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PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1944-1974

AREA 0021 OKHOTSK SEA SE
52.8N 153.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	2.2	.2	.0	.0	.0	.2	1.1	.8	.0	.0	4.4	
<1/2	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	2.2	.2	.0	.0	.0	.2	1.1	.8	.0	.0	4.4	
	PCP	1.6	.2	.0	.0	.0	.0	.6	.8	.0	.0	3.1	
1/2<1	NO PCP	.5	.0	.0	.0	.0	.0	.6	.2	.0	.0	1.3	
	TOT %	2.0	.2	.0	.0	.0	.0	1.3	.9	.0	.0	4.4	
	PCP	.0	.0	.0	.6	.0	.0	2.5	.0	.0	.0	3.1	
1<2	NO PCP	.0	.0	.0	.6	.0	1.9	.6	.6	.0	.0	3.8	
	TOT %	.0	.0	.0	1.3	.0	1.9	3.1	.6	.0	.0	6.9	
	PCP	1.6	.3	.6	.8	.5	.6	1.3	.6	.0	.0	6.3	
2<5	NO PCP	2.8	.0	.0	.0	.0	2.0	3.0	1.6	.0	.0	9.4	
	TOT %	4.4	.3	.6	.8	.5	2.7	4.2	2.2	.0	.0	15.6	
	PCP	.5	.2	.6	.0	.0	.6	.6	.6	.0	.0	3.1	
5<10	NO PCP	2.8	.2	.6	.0	1.9	.8	5.2	3.0	.0	.6	15.0	
	TOT %	3.3	.3	1.3	.0	1.9	1.4	5.8	3.6	.0	.6	18.1	
	PCP	.0	.0	.0	.0	.0	.0	1.3	.6	.0	.0	1.9	
10+	NO PCP	11.9	5.8	3.1	2.2	5.5	3.4	6.3	10.0	.0	.6	48.8	
	TOT %	11.9	5.8	3.1	2.2	5.5	3.4	7.5	10.6	.0	.6	50.6	
	TOT OBS												160
	TOT PCT	23.8	6.7	5.0	4.2	7.8	9.5	23.0	18.8	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.7	
<1/2	4-10	.7	.0	.0	.0	.0	.0	.0	.0	.0		.7	
	11-21	.0	.0	.0	.0	.0	.0	.0	.7	.0		.7	
	22+	1.3	.2	.0	.0	.0	.0	.0	.0	.0		1.4	
	TOT %	2.0	.2	.0	.0	.0	.2	.5	.7	.0	.0	3.6	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.7	.0	.0		.7	
	11-21	1.1	.2	.0	.0	.0	.0	.0	.9	.0		2.2	
	22+	.7	.0	.0	.0	.0	.0	.7	.0	.0		1.4	
	TOT %	1.8	.2	.0	.0	.0	.0	1.4	.9	.0	.0	4.3	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.0	.0	.0	.7	.0	.0	.0	.0	.0		.7	
	22+	.0	.0	.0	.0	.0	1.4	3.6	.7	.0		5.8	
	TOT %	.0	.0	.0	.7	.0	1.4	3.6	.7	.0	.0	6.5	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	1.4	.0	.7	.0	.0	.0	1.4	.0	.0		3.6	
	11-21	1.1	.4	.0	.7	.0	.0	.0	2.2	.0		4.3	
	22+	1.4	.0	.0	.2	.5	1.6	3.4	.0	.0		7.2	
	TOT %	4.0	.4	.7	.9	.5	1.6	4.9	2.2	.0	.0	15.1	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
5<10	4-10	.5	.2	.0	.0	.7	.0	2.9	.7	.0		5.0	
	11-21	1.3	.2	.7	.0	1.4	.2	1.8	2.3	.0		7.9	
	22+	1.3	.0	.7	.0	.0	1.4	2.0	1.1	.0		6.5	
	TOT %	3.1	.4	1.4	.0	2.2	1.6	6.7	4.1	.0	.7	20.1	
	0-3	.5	.0	.0	.0	.0	.2	.5	.9	.0	.7	2.9	
10+	4-10	2.0	2.3	.5	.4	2.0	1.4	.5	1.6	.0		10.8	
	11-21	5.0	2.3	2.0	.2	3.1	.5	5.9	4.7	.0		23.7	
	22+	4.1	1.8	.5	.2	.7	1.1	1.6	2.9	.0		12.9	
	TOT %	11.7	6.5	3.1	.7	5.8	3.2	8.6	10.1	.0	.7	50.4	
	TOT OBS												139
	TOT PCT	22.5	7.6	5.2	2.3	8.5	8.1	25.7	18.7	.0	1.4	100.0	

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PERIOD: (PRIMARY) 1958-1974
(OVER-ALL) 1944-1974

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	4.7	4.7	23.3	20.9	11.6	2.3	2.3	.0	69.8	30.2	43
06&09	6.5	.0	.0	6.5	12.9	25.8	16.1	3.2	6.5	.0	77.4	22.6	31
12&15	12.1	.0	.0	3.0	27.3	33.3	9.1	.0	3.0	.0	87.9	12.1	33
18&21	3.8	.0	.0	7.7	19.2	15.4	15.4	.0	.0	.0	61.5	33.5	26
TOT	7	0	2	7	28	32	17	2	4	0	99	34	133
PCT	5.3	.0	1.5	5.3	21.1	24.1	12.8	1.5	3.0	.0	74.4	25.6	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
00&03	.0	1.8	5.5	9.1	23.6	60.0	55
06&09	2.9	2.9	11.4	28.6	11.4	42.9	35
12&15	12.8	10.3	7.7	12.8	23.1	33.3	39
18&21	2.6	5.3	5.3	13.2	13.2	60.5	38
TOT	7	8	12	25	31	84	167
PCT	4.2	4.8	7.2	15.0	18.6	50.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8),BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	4.8	14.3	57.1	28.6	42
06&09	6.7	6.7	46.7	33.3	20.0	30
12&15	12.9	25.8	45.2	45.2	9.7	31
18&21	4.0	12.0	24.0	40.0	36.0	25
TOT	7	15	40	58	30	128
PCT	5.5	11.7	31.3	45.3	23.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	.0	37.5	12.5	4	50.0
35/39	.0	.0	.0	.0	.0	.0	12.5	37.5	4	50.0
TOTAL	0	0	0	0	0	0	4	4	8	100.0
PCT	.0	.0	.0	.0	.0	.0	50.0	50.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	.0	.0	3.1	9.4	12.5	9.4	15.6	.0	.0
	.0	.0	12.5	.0	.0	12.5	25.0	.0	.0	.0
	.0	.0	12.5	3.1	9.4	25.0	34.4	15.6	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	42	41	41	30	19	12	12	31.1	52
06&09	47	46	42	32	21	14	14	31.6	36
12&15	40	39	38	32	23	16	16	31.4	41
18&21	38	37	37	31	24	23	23	31.5	38
TOT	47	42	40	31	29	14	12	31.4	167

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	.0	.0	.0	100.0	.0	85	2
06&09	.0	.0	.0	.0	50.0	50.0	90	2
12&15	.0	.0	.0	.0	100.0	.0	87	1
18&21	.0	.0	.0	.0	.0	100.0	95	3
TOT	0	0	0	0	4	4	90	8

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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 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	TOT	W FOG	WO FOG
5	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	1	.0	.8
2	.0	.0	.0	.0	.0	.0	.0	1.6	.8	.0	3	.0	2.4
1	.0	.0	.0	.0	.0	.0	.0	1.6	.8	.0	3	.0	2.4
0	.0	.0	.0	.0	.0	.8	.0	2.4	.0	.0	4	.0	3.2
-1	.0	.0	.0	.0	.0	.0	4.0	.8	.0	.0	6	.0	4.8
-2	.0	.0	.0	.0	.0	.0	3.2	.8	.8	.0	6	.0	4.8
-3	.0	.0	.0	.0	.0	1.6	1.6	.0	.0	.8	5	.0	4.0
-4	.0	.0	.0	.0	.0	1.6	3.2	3.2	.8	.0	11	.0	8.8
-5	.0	.0	.0	.0	1.6	6.4	4.0	.8	.0	.0	16	.0	12.8
-6	.0	.0	.0	.0	3.2	3.2	.0	1.6	.0	.0	10	.0	8.0
-7/-8	.0	.0	.0	.0	4.0	6.4	3.2	2.4	.0	.0	20	.0	16.0
-9/-10	.0	.0	.0	1.6	7.2	2.4	.0	1.6	.0	.0	16	.8	12.0
-11/-13	.0	.0	.0	2.4	4.0	1.6	.0	.0	.0	.0	10	.0	8.0
-14/-16	.0	.0	.8	1.6	2.4	.8	.0	.0	.0	.0	7	.0	5.6
-17/-19	.8	.8	.0	.0	.8	.0	.0	.0	.0	.0	3	.0	2.4
-20/-22	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	2	.0	1.6
-23/-25	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	2	.0	1.6
TOTAL	1	3	1	7	31	31	24	21	5	1	125	1	124
PCT	.8	2.4	.8	5.6	24.8	24.8	19.2	16.8	4.0	.8	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.9	1.2	.0	.0	.0	2.1
3-4	.0	.0	2.7	1.2	.0	.0	3.9
5-6	.0	.0	1.8	1.8	.0	.0	3.6
7	.0	.0	1.2	3.6	.0	.0	4.8
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	2.1	.0	.0	2.1
12	.0	.0	2.1	.0	.0	.0	2.1
13-16	.0	.0	.0	1.2	.0	.0	1.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.1	9.0	9.9	.0	.0	21.1

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.7	2.7	.0	.0	.0	5.4
3-4	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	.3	1.8	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.9	3.6	1.8	.0	.0	9.3

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	.0	.9	.0	.0	.0	.9
3-4	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	.0	2.1	.0	.0	2.1
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	2.1	2.1	.0	.0	5.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.6	.0	.0	.0	.6
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.3	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.2	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.6	1.2	.3	.3	.0	2.4

PERIOD: (OVER-ALL) 1963-1974

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TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9
1-2	.0	2.4	1.2	.0	.0	.0	3.6
3-4	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.0	.9	.0	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.9	.0	.9
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.0	1.2	.9	.0	8.4

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3
1-2	.3	.0	.0	.0	.0	.0	.3
3-4	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.3	1.2	.0	.0	1.5
7	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	1.2	.0	.0	1.2	.3	2.7
13-16	.0	.0	.0	.0	1.2	.0	1.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.2	.9	1.5	2.4	.3	6.9

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	2.4	.0	.0	.0	.0	3.3
1-2	.9	4.5	.9	.0	.0	.0	6.3
3-4	.0	.0	.0	2.4	.0	.0	2.4
5-6	.0	.0	2.1	.0	.0	.0	2.1
7	.0	.0	3.0	1.2	.0	.0	4.2
8-9	.0	.0	1.2	.9	.0	.0	2.1
10-11	.0	.0	2.4	.0	.0	.0	2.4
12	.0	.0	.0	.0	1.2	.9	2.1
13-16	.0	.0	.0	.0	1.2	.0	1.2
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	1.2	.0	.0	1.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	2.4	.0	2.4
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
TOT PCT	1.8	6.9	9.6	5.7	4.8	.9	29.8

NW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.2	.0	.0	.0	.0	.0	1.2	
1-2	.0	1.5	2.7	.0	.0	.0	4.2	
3-4	.0	.0	1.5	1.2	.0	.0	2.7	
5-6	.0	.0	3.0	.0	.0	.0	3.0	
7	.0	1.2	1.5	.0	.0	.0	2.7	
8-9	.0	.0	1.2	.0	.0	.0	1.2	
10-11	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.3	.0	.0	.0	.3	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.2	2.7	10.2	1.5	.0	.0	15.7	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.6	7.2	.0	.0	.0	.0	10.8	
1-2	1.2	12.0	9.6	.0	.0	.0	22.9	
3-4	.0	.0	7.2	4.8	.0	.0	12.0	
5-6	.0	.0	8.4	7.2	.0	.0	15.7	
7	.0	1.2	6.0	4.8	.0	.0	12.0	
8-9	.0	.0	3.6	2.4	.0	.0	6.0	
10-11	.0	.0	2.4	2.4	.0	.0	4.8	
12	.0	1.2	2.4	.0	2.4	1.2	7.2	
13-16	.0	.0	.0	1.2	2.4	.0	3.6	
17-19	.0	.0	.0	.0	1.2	.0	1.2	
20-22	.0	.0	.0	1.2	.0	.0	1.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	2.4	.0	2.4	
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	
TOT PCT	4.8	21.7	39.8	24.1	8.4	1.2	100.0	83

PERIOD: (OVER-ALL) 1957-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.6	6.3	6.9	2.1	2.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	5
6-7	.0	3.5	1.4	6.9	5.6	1.4	.7	4.2	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	7
8-9	.0	.7	.7	.7	2.8	.7	.0	.7	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	9
10-11	.0	.0	.7	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
12-13	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	11
>13	.0	.0	.0	.0	.0	.7	.0	.0	.7	.0	.7	.0	2.1	.0	.0	.0	.0	.0	.0	6	22
INDET	1.4	1.4	1.4	4.9	5.6	9.7	4.2	2.1	1.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	7
TOTAL	2	16	15	28	23	22	8	15	8	3	1	0	3	0	0	0	0	0	0	144	7
PCT	1.4	11.1	10.4	19.4	16.0	15.3	5.6	10.4	5.6	2.1	.7	.0	2.1	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
N	.0	.0	3.6	.0	23.8	.0	.0	27.4	3.6	.0	4.8	.0	3.6		.0	60.7
NE	.0	.0	.0	.0	17.6	.0	.0	17.6	.0	.0	5.4	.0	.0		.0	77.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	100.0
SE	.0	.0	.0	.0	10.0	.0	.0	10.0	.0	.0	10.0	.0	.0		.0	80.0
S	19.0	.0	.0	.0	19.0	.0	.0	19.0	.0	.0	.0	.0	.0		.0	81.0
SW	.0	.0	.0	.0	18.4	.0	.0	18.4	10.2	.0	.0	.0	.0		2.0	69.4
W	.0	.0	.0	.0	41.7	.0	.0	41.7	8.3	.0	.0	.0	.0		3.6	46.4
NW	3.7	.0	.9	.0	32.1	.0	.0	33.0	.9	.0	.0	.0	4.6		.0	61.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.0	.0	.0	.0	11.1	.0	.0	11.1	11.1	.0	.0	.0	.0		.0	77.8
TOT PCT	1.6	.0	.8	.0	24.6	.0	.0	25.4	4.0	.0	2.4	.0	1.6		.8	65.9
TOT OBS:	126															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE									OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W0 PCPN	FOG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST BLWG SNOW	NO SIG WEA
00&03	2.1	.0	.0	.0	17.0	.0	.0	17.0	.0	.0	.0	.0	2.1		2.1	78.7
06&09	.0	.0	.0	.0	20.7	.0	.0	20.7	6.9	.0	6.9	.0	.0		.0	65.5
12&15	.0	.0	.0	.0	41.0	.0	.0	41.0	5.1	.0	.0	.0	.0		2.6	51.3
18&21	4.2	.0	4.2	.0	20.8	.0	.0	25.0	12.5	.0	4.2	.0	4.2		.0	54.2
TOT PCT	1.4	.0	.7	.0	25.2	.0	.0	25.9	5.0	.0	2.2	.0	1.4		1.4	64.0
TOT OBS:	139															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.0	1.9	7.9	.7	1.7	.0		12.3	19.9	11.0	33.3	11.5	.0	13.4	.0	11.5	.0
NE	1.0	2.9	5.8	1.9	1.0	.0		12.0	16.9	10.3	.0	20.8	.0	10.7	.0	7.7	.0
E	.0	1.0	.7	.0	.0	.0		1.7	11.8	5.1	.0	.0	.0	.0	.0	.0	.0
SE	.0	1.0	3.8	1.9	3.8	.0		10.6	26.0	11.8	.0	4.2	.0	14.3	.0	15.4	.0
S	.0	.7	3.8	1.7	.0	.0		6.0	19.2	5.1	.0	11.5	.0	2.7	.0	7.7	.0
SW	.0	1.2	9.1	.7	1.9	.0		13.0	19.3	7.4	.0	16.7	100.0	19.6	.0	3.8	.0
W	.0	2.9	9.4	5.3	.7	.7		19.0	20.7	22.8	.0	13.5	.0	19.6	.0	25.0	.0
NW	.0	6.7	9.1	3.1	1.4	.2		20.7	17.4	20.6	66.7	21.9	.0	12.5	.0	21.2	100.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8							4.8	.0	5.9	.0	.0	.0	7.1	.0	7.7	.0
TOT OBS	6	19	51	16	11	1	104		18.6	34	3	24	1	28	0	13	1
TOT PCT	5.8	18.3	49.0	15.4	10.6	1.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	.0	3.8	6.7	1.7	.0		12.3	19.9	12.8	11.0	13.4	10.7
NE	1.9	3.8	4.3	1.9	.0		12.0	16.9	9.5	20.0	10.7	7.1
E	.0	1.0	.7	.0	.0		1.7	11.8	4.7	.0	.0	.0
SE	1.0	1.9	3.8	1.9	1.9		10.6	26.0	10.8	4.0	14.3	14.3
S	.0	2.6	2.6	.7	.0		6.0	19.2	4.7	11.0	2.7	7.1
SW	1.0	6.3	3.4	2.4	.0		13.0	19.3	6.8	20.0	19.6	3.6
W	1.0	4.6	10.3	1.7	1.4		19.0	20.7	20.9	13.0	19.6	23.2
NW	3.8	5.8	7.5	2.2	1.4		20.7	17.4	24.3	21.0	12.5	26.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.8						4.8	.0	5.4	.0	7.1	7.1
TOT OBS	14	31	41	13	5	104		18.6	37	25	28	14
TOT PCT	13.5	29.8	39.4	12.5	4.8		100.0		100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	5.4	.0	10.8	48.6	24.3	10.8	.0	20.6	100.0	37
06&09	.0	4.0	32.0	56.0	.0	8.0	.0	15.4	100.0	25
12&15	7.1	.0	21.4	42.9	17.9	10.7	.0	17.0	100.0	28
18&21	7.1	.0	7.1	50.0	14.3	14.3	7.1	22.2	100.0	14
TOT	5	1	19	51	16	11	1	18.6		104
PCT	4.8	1.0	18.3	49.0	15.4	10.6	1.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	1.0	5.4	9.2		7.2
NE	1.0	.0	1.5	11.2		7.2
E	.0	1.0	.8	.0		4.7
SE	1.0	.0	.0	8.2		7.1
S	.0	1.8	1.8	2.8		6.0
SW	1.0	1.5	5.9	.9		5.5
W	1.0	1.8	3.6	7.7		6.6
NW	1.0	2.0	6.6	11.5		6.6
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	3.1	4.1		6.2
TOT OBS	6	10	28	54	98	6.6
TOT PCT	6.1	10.2	28.6	55.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	1.8	.0	.0	1.0	5.4	4.6	.0	.0	.0	.0	2.8	
NE	1.0	.0	.0	.0	5.1	3.6	1.0	.0	.0	.0	3.1	
E	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	1.0	
SE	2.0	.0	.0	.0	1.0	3.1	1.0	.0	1.0	.0	1.0	
S	.0	.0	.0	1.0	.0	1.8	.8	.0	.0	.0	2.8	
SW	.0	.0	.0	.0	.0	3.3	.8	.0	.0	.0	4.8	
W	1.0	.0	.0	.0	5.1	2.8	1.5	.0	.0	.0	3.6	
NW	1.3	.0	.0	2.0	6.9	6.6	.0	.0	.0	.0	4.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.0	.0	.0	.0	.0	4.1	1.0	.0	.0	.0	3.1	
TOT OBS	8	0	0	4	23	30	6	0	1	0	26	98
TOT PCT	8.2	.0	.0	4.1	23.5	30.6	6.1	.0	1.0	.0	26.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >5000	.0	.0	1.0	1.0	1.0	1.0	1.0	1.0
* OR >3500	3.9	5.8	6.8	6.8	6.8	6.8	6.8	6.8
* OR >2000	15.5	26.2	33.0	33.0	35.9	35.9	35.9	35.9
* OR >1000	26.2	41.7	52.4	54.4	58.3	58.3	58.3	58.3
* OR >600	27.2	43.7	55.3	57.3	62.1	62.1	62.1	62.1
* OR >300	27.2	43.7	55.3	57.3	62.1	62.1	62.1	62.1
* OR >150	27.2	43.7	55.3	57.3	62.1	62.1	62.1	62.1
* OR > 0	28.2	44.7	58.3	62.1	67.0	69.9	70.9	70.9
TOTAL	29	46	60	64	69	72	73	73

TOTAL NUMBER OF OBS: 103 PCT FREQ NH <5/8: 29.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.7	2.5	5.8	5.8	9.2	3.3	7.5	10.0	46.7	7.5	120

DECEMBER

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	1.2	.0	.0	.0	.0	.8	.0	.4	.0	.8	3.2	
<1/2	NO PCP	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	1.2	.8	.0	.8	.0	.8	.0	.4	.0	.8	4.8	
	PCP	.6	1.0	.0	.0	.0	.0	.0	2.4	.0	.0	4.0	
1/2<1	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	1.0	.0	.0	.0	.0	.0	2.4	.0	.0	4.0	
	PCP	.0	.0	.0	.0	.0	.2	3.8	1.6	.0	.0	5.6	
1<2	NO PCP	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	
	TOT %	.0	.0	.0	.0	.0	.2	4.6	1.6	.0	.0	6.3	
	PCP	2.8	1.6	.0	.8	1.6	.0	1.6	2.8	.0	.0	11.1	
2<5	NO PCP	2.4	1.6	.0	.0	.6	1.8	.0	1.6	.0	.8	8.7	
	TOT %	5.2	3.2	.0	.8	2.2	1.8	1.6	4.4	.0	.8	19.8	
	PCP	.0	.0	.0	.0	.0	.8	.8	.0	.0	.0	1.6	
5<10	NO PCP	4.2	1.6	.0	2.4	.8	3.0	3.8	6.5	.0	.8	23.0	
	TOT %	4.2	1.6	.0	2.4	.8	3.8	4.6	6.5	.0	.8	24.6	
	PCP	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8	
10+	NO PCP	5.6	7.9	.8	4.0	2.0	3.2	5.2	6.3	.0	4.8	39.7	
	TOT %	5.6	7.9	.8	4.0	2.0	3.2	6.0	6.3	.0	4.8	40.5	
	TOT OBS												126
	TOT PCT	16.7	14.5	.8	7.9	5.0	9.7	16.7	21.6	.0	7.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
<1/2	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.7	.0	.0	.0	.0	1.0	.0	.2	.0		2.0	
	22+	.7	.0	.0	1.0	.0	.0	.0	.2	.0		2.0	
	TOT %	1.5	.0	.0	1.0	.0	1.0	.0	.5	.0	1.0	5.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
	11-21	.7	.2	.0	.0	.0	.0	.0	2.0	.0		3.0	
	22+	.0	1.0	.0	.0	.0	.0	.0	1.0	.0		2.0	
	TOT %	.7	1.2	.0	.0	.0	.0	.0	3.0	.0	.0	5.0	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	4-10	.0	.0	.0	.0	.0	.0	1.0	2.0	.0		3.0	
	11-21	.0	.0	.0	.0	.0	.2	1.7	.0	.0		2.0	
	22+	.0	.0	.0	.0	.0	.0	3.0	.0	.0		3.0	
	TOT %	.0	.0	.0	.0	.0	.2	5.7	2.0	.0	.0	7.9	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	4-10	1.0	.0	.0	.0	.7	.2	.0	2.0	.0		4.0	
	11-21	2.7	2.0	.0	1.0	1.0	2.0	2.0	2.2	.0		12.9	
	22+	1.7	.0	.0	1.0	1.0	.0	.0	1.2	.0		5.0	
	TOT %	5.4	2.0	.0	2.0	2.7	2.2	2.0	5.4	.0	.0	21.8	
	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	1.0	
5<10	4-10	1.0	1.0	.0	1.0	.0	1.0	.0	1.0	.0		5.0	
	11-21	1.0	.0	.0	.0	1.0	1.5	2.5	3.0	.0		8.9	
	22+	.0	.0	.0	2.0	.0	2.2	3.2	2.5	.0		9.9	
	TOT %	2.0	1.0	.0	3.0	1.0	4.7	5.7	6.4	.0	1.0	24.8	
	0-3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.0	
10+	4-10	.0	2.0	1.0	.0	.0	.0	2.0	2.0	.0		6.9	
	11-21	3.0	3.0	.0	3.0	1.7	3.7	3.5	2.0	.0		19.8	
	22+	.0	2.0	.0	2.0	.7	.2	.0	.0	.0		5.0	
	TOT %	3.0	7.9	1.0	5.0	2.5	4.0	5.4	4.0	.0	3.0	35.6	
	TOT OBS												101
	TOT PCT	12.6	12.1	1.0	10.9	6.2	12.1	18.8	21.3	.0	5.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET,NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	.0	.0	.0	7.5	20.0	32.5	5.0	.0	2.5	.0	67.5	32.5	40
06&09	4.2	.0	.0	.0	29.2	25.0	4.2	.0	.0	.0	62.5	37.5	24
12&15	25.0	.0	.0	4.2	16.7	29.2	8.3	.0	.0	.0	83.3	16.7	24
18&21	12.5	.0	.0	.0	25.0	31.3	6.3	.0	.0	.0	75.0	25.0	16
TOT	9	0	0	4	23	31	6	0	1	0	74	30	104
PCT	8.7	.0	.0	3.8	22.1	29.8	5.8	.0	1.0	.0	71.2	28.8	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
00&03	2.1	6.3	4.2	10.4	20.8	56.3	48
06&09	3.4	3.4	3.4	17.2	31.0	41.4	29
12&15	5.1	5.1	15.4	23.1	20.5	30.8	39
18&21	12.0	.0	4.0	28.0	40.0	16.0	25
TOT	7	6	10	26	37	55	141
PCT	5.0	4.3	7.1	18.4	26.2	39.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET,NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	.0	7.7	23.1	46.2	30.8	39
06&09	4.2	8.3	29.2	37.5	33.3	24
12&15	25.0	29.2	45.8	37.5	16.7	24
18&21	12.5	18.8	43.8	43.8	12.5	16
TOT	9	15	34	43	26	103
PCT	8.7	14.6	33.0	41.7	25.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/44	.0	.0	.0	.0	.0	33.3	33.3	.0	2	66.7
35/39	.0	.0	.0	.0	.0	.0	.0	33.3	1	33.3
TOTAL	0	0	0	0	0	1	1	1	3	100.0
PCT	.0	.0	.0	.0	.0	33.3	33.3	33.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
	.0	33.3	.0	.0	.0	.0	.0	33.3	.0	.0
	.0	33.3	.0	.0	.0	.0	.0	.0	.0	.0
	.0	66.7	.0	.0	.0	.0	.0	33.3	.0	.0

TABLE 15

MEANS,EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	36	35	33	27	18	16	16	26.4	49
06&09	37	36	36	27	16	15	15	25.9	29
12&15	41	40	37	28	16	12	12	27.3	38
18&21	44	43	37	25	14	10	10	25.8	24
TOT	44	41	36	27	16	12	10	26.5	140

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03								
06&09	.0	.0	.0	.0	.0	100.0	97	1
12&15	.0	.0	.0	50.0	.0	50.0	89	2
18&21	.0	.0	.0	.0	100.0	.0	88	1
TOT	0	0	0	1	1	2	91	4

DECEMBER

PERIOD: (PRIMARY) 1958-1973
(OVER-ALL) 1944-1973

AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	TOT	W FOG	WO FOG
4	.0	.0	.0	.0	.0	1.0	.0	1.0	2	.0	1.9
3	.0	.0	.0	.0	.0	.0	.0	1.0	1	1.0	.0
2	.0	.0	.0	.0	.0	.0	1.9	.0	2	.0	1.9
1	.0	.0	.0	.0	1.0	.0	1.0	.0	2	.0	1.9
0	.0	.0	.0	.0	1.9	1.0	.0	.0	3	.0	2.9
-1	.0	.0	.0	.0	1.0	2.9	.0	.0	4	.0	3.8
-2	.0	.0	.0	.0	1.9	1.0	.0	.0	3	.0	2.9
-3	.0	.0	.0	1.9	3.8	2.9	.0	.0	9	1.0	7.6
-4	.0	.0	.0	3.8	3.8	.0	.0	.0	8	.0	7.6
-5	.0	.0	.0	4.8	4.8	.0	.0	.0	10	.0	9.5
-6	.0	.0	.0	4.8	1.0	.0	.0	.0	6	.0	5.7
-7/-8	.0	.0	.0	7.6	1.9	.0	.0	.0	10	.0	9.5
-9/-10	.0	.0	6.7	6.7	1.0	.0	.0	.0	15	.0	14.3
-11/-13	.0	1.0	4.8	3.8	.0	.0	.0	.0	10	.0	9.5
-14/-16	2.9	1.9	.0	.0	1.0	.0	.0	.0	6	.0	5.7
-17/-19	3.8	1.0	2.9	1.0	.0	.0	.0	.0	9	.0	8.6
-20/-22	1.9	1.9	1.0	.0	.0	.0	.0	.0	5	.0	4.8
TOTAL	9		16		24		3			2	103
		6		36		9		2	105		
PCT	8.6	5.7	15.2	34.3	22.9	8.6	2.9	1.9	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1979

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	2.7	.0	.0	.0	2.7
3-4	.0	1.5	3.8	.0	.0	.0	5.3
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	3.0	.0	.0	.0	3.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.1	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	11.0	1.1	.0	.0	13.6

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	3.0	1.9	.0	.0	.0	4.9
3-4	.0	.0	.4	.0	.0	.0	.4
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	1.5	1.5	.0	.0	3.0
8-9	.0	.0	.0	.0	1.5	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	1.5	.0	.0	1.5
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	3.3	3.0	1.5	.0	14.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.1	.0	.0	.0	1.1
3-4	.0	1.5	.0	.0	.0	.0	1.5
5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	1.1	.0	.0	.0	2.7

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	1.5	.0	.0	.0	1.5
7	.0	.0	.0	1.5	.0	.0	1.5
8-9	.0	.0	.0	1.5	.0	.0	1.5
10-11	.0	.0	.0	.0	1.5	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	1.5	.0	3.0	.0	4.5
17-19	.0	.0	.0	.0	1.5	.0	1.5
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	4.5	3.0	6.1	.0	13.6

PERIOD: (OVER-ALL) 1963-1979

DECEMBER

TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
52.7N 152.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW						
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.5	1.9	.0	.0	.0	3.4
3-4	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.8	.0	.0	.0	.8
7	.0	1.1	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	1.5	.4	.0	.0	1.9
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	4.2	2.7	.0	.0	8.0	.0	1.9	5.7	.4	1.5	.0	9.5

	W							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.5	2.7	.0	.0	.0	4.2	.0	1.5	1.9	.0	.0	.0	3.4	
3-4	.0	3.0	.0	.0	.0	.0	3.0	.0	3.0	.4	.0	.0	.0	3.4	
5-6	.0	.0	4.2	.0	.0	.0	4.2	.0	.0	3.0	.0	.0	.0	3.0	
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	1.5	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	1.1	1.1	.0	.0	.0	.0	.0	.4	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.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	1.1	.0	1.1	.0	.0	.0	1.5	.4	.0	1.9	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.5	.0	3.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.5	6.8	1.5	1.1	1.1	15.2	.0	4.5	8.3	3.4	1.9	.4	18.6	95.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	1.5	.0	.0	.0	.0	6.1	
1-2	.0	7.6	12.1	.0	.0	.0	19.7	
3-4	.0	9.1	7.6	.0	.0	.0	16.7	
5-6	.0	.0	15.2	.0	.0	.0	15.2	
7	.0	1.5	6.1	4.5	.0	.0	12.1	
8-9	.0	.0	.0	1.5	1.5	.0	3.0	
10-11	.0	.0	1.5	1.5	1.5	1.5	6.1	
12	.0	.0	.0	1.5	.0	.0	1.5	
13-16	.0	.0	3.0	3.0	3.0	.0	9.1	
17-19	.0	.0	.0	1.5	1.5	.0	3.0	
20-22	.0	.0	.0	1.5	1.5	.0	3.0	
23-25	.0	.0	1.5	.0	3.0	.0	4.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								66
TOT PCT	4.5	19.7	47.0	15.2	12.1	1.5	100.0	

PERIOD: (OVER-ALL) 1957-1979

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	5.2	7.8	2.6	6.0	.9	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	5
6-7	.0	.0	1.7	6.9	2.6	.0	.9	.0	1.7	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	19	9
8-9	.0	.0	.0	1.7	2.6	5.2	.9	.9	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	9
10-11	.0	.9	.0	1.7	.9	.0	.0	.0	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	7	11
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	.9	3.4	3.4	3.4	3.4	7.8	6.0	3.4	.9	1.7	1.7	.9	.9	.0	.0	.0	.0	.0	.0	44	9
TOTAL	1	11	15	19	18	17	11	5	7	5	3	3	1	0	0	0	0	0	0	116	8
PCT	.9	9.5	12.9	16.4	15.5	14.7	9.5	4.2	6.0	4.3	2.6	2.6	.9	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.6N 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
N	1.0	.5	2.0	.0	12.0	.1	.2	15.6	1.8	.0	12.2	.5	1.2		.1	68.6
NE	6.0	.4	1.8	.2	8.4	.2	.0	16.5	1.1	.0	10.6	.9	.9		.0	70.0
E	11.1	1.7	3.2	.0	10.4	.0	.0	25.2	2.2	.0	9.3	.3	.1		.0	62.9
SE	10.2	.5	3.1	.0	12.3	.1	.0	25.6	4.0	.0	14.5	.1	1.2		.6	54.0
S	7.9	.8	3.8	.0	8.0	.2	.1	18.8	2.0	.0	16.6	.6	.1		.2	61.8
SW	2.9	.5	2.4	.0	9.1	.2	*	14.7	4.9	.1	17.0	.3	.7		.4	61.9
W	1.3	.0	2.2	.0	17.8	.1	.0	21.2	5.0	.0	14.7	.4	.1		.7	57.9
NW	1.9	.2	1.2	.0	14.7	.0	*	17.4	3.1	.0	14.7	.5	.5		.1	63.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0
CALM	.3	.0	1.2	.0	3.6	.0	.0	5.0	1.8	.0	16.8	.3	.4		.4	75.9
TOT PCT	4.3	.4	2.3	*	12.3	.1	*	19.0	3.3	*	14.3	.5	.6		.3	62.1
TOT OBS:	6893															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

	PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00&03	3.9	.2	1.7	.0	9.6	.2	.0	15.2	2.5	*	13.9	.6	.5		.5	66.7
06&09	4.0	.2	1.8	.0	12.2	.1	.1	18.3	3.6	.0	14.0	.3	.6		.2	63.0
12&15	4.6	.8	2.7	*	15.8	.1	.0	23.4	4.0	.0	13.7	.5	.3		.6	57.5
18&21	4.6	.3	3.3	.1	12.1	*	.0	19.6	4.2	.0	15.5	.4	.9		.3	59.2
TOT PCT	4.3	.4	2.3	*	12.3	.1	*	18.9	3.5	*	14.2	.5	.5		.4	62.0
TOT OBS:	7271															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

	WIND SPEED (KNOTS)									HOUR (GMT)							
WND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
N	.6	5.7	6.9	2.5	.3	*		16.1	14.0	17.1	18.4	16.5	21.7	14.9	9.6	15.7	15.4
NE	.5	3.9	3.4	1.2	.2	.0		9.1	12.7	9.9	4.8	9.8	6.1	8.2	3.9	8.9	6.3
E	.4	2.8	2.6	.8	.3	.1		6.8	13.7	7.8	6.6	5.7	6.1	6.8	5.4	6.7	2.8
SE	.4	3.0	3.7	1.6	.7	.0		9.4	16.5	9.7	11.2	8.0	7.4	9.5	8.6	8.9	11.4
S	.8	4.3	5.1	1.8	.2	.0		12.1	14.7	12.3	17.1	13.1	11.9	10.7	9.6	12.7	9.1
SW	.7	3.7	4.0	1.4	.4	*		10.2	14.2	10.3	9.6	9.9	13.6	11.2	8.7	10.1	7.1
W	.7	4.3	5.8	3.0	1.0	.2		14.9	15.5	13.4	14.2	16.0	8.9	15.4	12.8	15.3	14.8
NW	.7	5.1	7.9	2.4	.5	*		16.7	14.2	15.3	16.1	16.7	13.3	18.0	13.7	19.9	21.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.6							4.6	.0	4.2	2.0	4.3	2.6	5.3	2.7	5.9	3.2
TOT OBS							6345		14.1	1279	443	1202	423	1211	399	1041	347
TOT PCT	9.3	32.7	39.4	14.6	3.6	.3		100.0		100.0	100.0	100.0	91.7	100.0	75.0	100.0	91.7

TABLE 3A

	WIND SPEED (KNOTS)								HOUR (GMT)			
WND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21
N	2.8	7.5	4.7	1.0	*		16.1	14.0	16.5	17.2	14.5	15.9
NE	2.3	4.1	2.1	.6	*		9.1	12.7	9.5	9.9	7.9	8.6
E	1.5	3.1	1.6	.4	.2		6.8	13.7	8.0	5.8	6.9	6.2
SE	1.6	3.9	2.6	1.1	.2		9.4	16.5	9.6	8.2	10.2	9.5
S	2.5	5.6	3.4	.6	*		12.1	14.7	12.4	12.9	11.0	12.4
SW	2.4	4.6	2.4	.7	.1		10.2	14.2	10.7	9.4	11.3	9.5
W	2.5	5.2	4.6	2.0	.6		14.9	15.5	13.6	15.6	15.5	15.5
NW	2.7	7.9	4.6	1.3	.2		16.7	14.2	15.7	16.7	17.9	16.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	4.6						4.6	.0	3.9	4.3	5.0	5.5
TOT OBS						6345		14.1	1722	1625	1610	1388
TOT PCT	23.0	42.0	26.0	7.6	1.4		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS) 1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00&03	3.9	4.9	33.4	38.2	15.6	3.7	.4	14.5	100.0	1722
06&09	4.3	4.5	33.3	40.5	14.0	3.4	.0	14.0	100.0	1625
12&15	5.0	5.2	31.7	39.8	14.7	3.3	.3	13.9	100.0	1610
18&21	5.5	4.4	32.0	38.9	14.1	4.4	.8	14.2	100.0	1388
TOT								14.1		6345
PCT	4.6	4.7	32.7	39.4	14.6	3.6	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION

WND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.9	1.5	4.7	8.6		6.3
NE	1.2	.8	1.8	4.7		6.2
E	.5	.4	1.6	4.3		6.7
SE	.5	.3	1.4	6.9		7.0
S	1.0	.5	2.6	8.1		6.6
SW	1.0	.7	2.5	5.2		6.5
W	1.6	1.3	4.0	6.8		6.3
NW	2.1	1.6	5.3	8.8		6.2
VAR	.0	.0	.0	.0		.0
CALM	1.1	.5	1.0	3.0		5.4
TOT OBS					5661	6.4
TOT PCT	11.0	7.7	24.9	56.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
2.3	.0	.3	1.1	3.1	3.7	.9	.2	.4	.2	4.6	
1.1	.1	.1	.4	1.6	1.7	.5	.1	.1	.1	2.6	
.9	*	.1	.7	1.3	1.5	.4	.1	.1	.2	1.3	
2.2	*	.2	.9	1.6	1.9	.7	.2	.4	.1	1.0	
3.0	.1	.2	1.1	2.1	2.3	.7	.1	.3	.1	2.2	
1.5	.0	.1	.7	1.4	2.2	.6	.1	.1	.1	2.5	
1.7	*	.1	.8	3.3	3.3	.7	.1	.3	*	3.5	
2.3	*	.2	1.2	3.5	4.3	.8	.3	.2	.1	4.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1.3	*	.1	.3	.5	1.0	.3	.0	.1	.1	2.0	
											5661
16.3	.3	1.4	7.2	18.8	21.9	5.6	1.1	1.9	1.0	24.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM) * OR >10	* OR >5	* OR >2	* OR >1	* OR >1/2	* OR >1/4	* OR >50YD	* OR >0
* OR >6500	1.9	2.3	2.8	2.9	2.9	2.9	2.9	2.9
* OR >5000	2.4	3.2	3.9	4.0	4.0	4.0	4.0	4.0
* OR >3500	5.7	8.0	9.4	9.6	9.6	9.7	9.7	9.7
* OR >2000	16.1	24.8	29.7	30.7	31.2	31.3	31.4	31.4
* OR >1000	21.0	35.9	44.5	47.5	49.0	49.4	49.8	49.8
* OR >600	22.1	39.1	49.9	53.6	55.8	56.3	56.9	56.9
* OR >300	22.4	39.8	50.8	54.7	57.0	57.7	58.3	58.3
* OR >150	22.5	39.9	51.0	55.0	57.3	58.0	58.6	58.7
* OR > 0	22.8	40.7	53.3	58.9	62.8	66.9	74.6	75.3

TOTAL NUMBER OF OBS: 5798

PCT FREQ NH <5/8: 24.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
7.3	3.0	4.8	3.7	4.8	4.1	8.7	8.9	39.2	15.4	6309

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	PCP	.9	.1	.3	.5	.4	.2	.6	.5	.0	.1	3.3	
<1/2	NO PCP	1.2	.7	.5	1.3	2.2	1.4	1.1	1.5	.0	.9	10.6	
	TOT %	1.7	.8	.8	1.8	2.6	1.6	1.6	2.0	.0	1.0	13.9	
	PCP	.4	.4	.2	.4	.3	.1	.4	.6	.0	.0	2.9	
1/2<1	NO PCP	.2	.1	.1	.1	.2	.2	.2	.2	.0	.1	1.3	
	TOT %	.6	.4	.3	.5	.5	.3	.6	.8	.0	.1	4.1	
	PCP	.6	.3	.4	.6	.4	.3	1.0	.8	.0	.1	4.5	
1<2	NO PCP	.3	.1	.1	.2	.3	.3	.3	.3	.0	.1	1.9	
	TOT %	.9	.4	.5	.8	.6	.6	1.3	1.1	.0	.2	6.3	
	PCP	1.1	.5	.6	.7	.9	.3	.8	1.0	.0	.1	5.9	
2<5	NO PCP	1.5	.7	.5	1.0	1.1	.9	1.1	1.5	.0	.4	8.8	
	TOT %	2.6	1.3	1.1	1.7	2.0	1.2	2.0	2.4	.0	.4	14.6	
	PCP	.4	.2	.3	.1	.2	.3	.4	.4	.0	*	2.3	
5<10	NO PCP	3.8	1.8	1.6	1.5	2.6	2.3	3.3	3.8	.0	.9	21.7	
	TOT %	4.2	2.0	1.9	1.6	2.8	2.7	3.7	4.2	.0	.9	24.0	
	PCP	*	.1	*	.1	*	*	.2	.1	.0	*	.5	
10+	NO PCP	6.9	4.1	2.3	2.9	3.4	3.3	4.7	6.5	.0	2.3	36.4	
	TOT %	6.9	4.2	2.4	2.9	3.4	3.4	4.9	6.6	.0	2.3	37.0	
	TOT OBS												6857
	TOT PCT	16.9	9.1	6.9	9.3	12.0	9.7	14.1	17.1	.0	5.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
	0-3	.3	.1	.1	.1	.2	.2	.2	.2	.0	1.1	2.5	
<1/2	4-10	.8	.5	.3	.9	1.4	.8	.8	1.2	.0		6.7	
	11-21	.5	.1	.2	.7	.9	.8	.4	.6	.0		4.1	
	22+	.3	.1	.2	.2	.2	.1	.4	.3	.0		1.6	
	TOT %	1.9	.8	.8	1.9	2.6	1.9	1.8	2.3	.0	1.1	14.9	
	0-3	*	*	*	*	.1	*	*	*	.0	*	.2	
1/2<1	4-10	.1	.1	*	.1	.2	.1	.2	.1	.0		1.0	
	11-21	.3	.1	.1	.1	.2	.1	.3	.4	.0		1.7	
	22+	.1	.2	.1	.3	.1	.1	.1	.2	.0		1.2	
	TOT %	.6	.4	.3	.6	.6	.3	.6	.7	.0	*	4.1	
	0-3	*	*	*	*	.1	*	*	*	.0	.2	.6	
1<2	4-10	.3	.1	.2	.2	.2	.1	.2	.3	.0		1.7	
	11-21	.4	.2	.2	.3	.3	.2	.5	.5	.0		2.5	
	22+	.3	.1	.1	.3	.1	.2	.8	.3	.0		2.1	
	TOT %	.9	.5	.5	.7	.7	.6	1.5	1.1	.0	.2	6.7	
	0-3	*	*	*	.1	.1	.1	.1	.1	.0	.3	.8	
2<5	4-10	.9	.3	.4	.3	.5	.4	.4	.8	.0		4.0	
	11-21	1.2	.6	.5	.8	.8	.4	.8	1.2	.0		6.4	
	22+	.5	.2	.2	.6	.5	.3	.8	.5	.0		3.6	
	TOT %	2.6	1.2	1.1	1.7	2.0	1.2	2.1	2.6	.0	.3	14.8	
	0-3	.1	.1	.1	*	.1	.1	.1	.1	.0	.9	1.7	
5<10	4-10	1.1	.9	.7	.5	.8	.8	.9	.8	.0		6.5	
	11-21	1.6	.5	.6	.6	1.5	1.0	1.7	1.9	.0		9.4	
	22+	.6	.3	.3	.5	.4	.6	1.1	.9	.0		4.9	
	TOT %	3.5	1.9	1.7	1.6	2.8	2.6	3.8	3.8	.0	.9	22.5	
	0-3	.2	.2	.2	.1	.2	.2	.2	.3	.0	2.1	3.8	
10+	4-10	2.6	2.1	1.0	.9	1.2	1.4	1.7	2.0	.0		12.9	
	11-21	3.0	1.6	.9	1.4	1.5	1.4	2.3	3.3	.0		15.2	
	22+	1.1	.5	.2	.4	.6	.4	1.0	.8	.0		4.9	
	TOT %	6.8	4.4	2.3	2.8	3.4	3.4	5.1	6.4	.0	2.1	36.9	
	TOT OBS												6023
	TOT PCT	16.4	9.1	6.7	9.3	12.1	10.0	15.0	16.8	.0	4.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00&03	11.1	.4	1.6	8.3	19.9	23.6	5.6	1.5	1.6	1.6	75.3	24.7	1714
06&09	14.8	.3	1.3	6.0	19.0	23.1	6.2	1.4	2.1	.9	75.1	24.9	1650
12&15	21.4	.2	1.4	5.8	16.6	20.1	4.6	.3	2.7	.3	73.4	26.6	1375
18&21	20.7	.2	1.5	8.3	17.1	18.5	5.7	.6	1.3	.9	74.9	25.1	1268
TOT													6007
PCT	16.4	.3	1.4	7.1	18.4	21.6	5.5	1.0	1.9	1.0	74.7	25.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00&03	12.4	4.6	5.7	12.2	22.9	42.2	2065
06&09	14.1	3.4	6.1	16.2	21.7	38.5	1917
12&15	15.5	5.1	8.1	16.7	24.4	30.2	1861
18&21	16.9	4.0	6.8	15.3	26.1	30.9	1612
TOT							7455
PCT	14.5	4.3	6.6	14.8	23.5	36.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00&03	11.2	17.6	35.3	42.1	22.7	1675
06&09	15.1	19.0	39.7	37.7	22.6	1591
12&15	22.0	27.6	47.4	29.0	23.6	1307
18&21	21.1	26.7	46.5	31.7	21.7	1225
TOT						5798
PCT	16.7	22.1	41.3	35.9	22.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	*	.0	.0	.0	.0	.0		*
65/69	.0	.0	.0	.0	.0	.1	.0	.0		.1
60/64	.0	.0	.0	.0	.0	.0	.0	.1		.1
55/59	.0	.0	.0	.0	.1	.1	.5	.6		1.2
50/54	.0	.0	.1	.1	*	.2	2.3	9.8		12.5
45/49	.0	.0	.0	.0	.7	.7	2.3	11.3		15.1
40/44	.0	.0	.0	.1	.6	3.1	9.3	7.9		21.0
35/39	.0	.0	.0	.1	.4	1.0	3.7	11.0		16.2
30/34	.0	.0	.0	.1	.6	.8	2.1	6.9		10.5
25/29	.0	.0	.0	.3	.5	1.0	1.5	3.7		7.0
20/24	.0	.0	.0	.1	.4	.5	1.5	4.7		7.2
15/19	.0	.0	.0	.0	.0	.4	.7	3.5		4.6
10/14	.0	.0	.0	.0	.0	.0	.5	2.4		2.9
5/9	.0	.0	.0	.0	.0	.0	.1	1.6		1.7
TOTAL									1661	100.0
PCT	.0	.0	.1	.8	3.3	7.9	24.5	63.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	.0	.0	.0	.0	*	.0	.0
.1	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
.2	*	.1	.1	.2	.1	.1	.1	.0	.2
.7	1.3	.8	1.1	2.6	.9	2.1	2.5	.0	.4
3.1	.5	1.4	.9	1.2	1.5	1.7	4.0	.0	.8
1.7	4.3	.9	.7	2.5	1.5	3.2	5.8	.0	.5
1.7	3.7	1.6	1.6	1.1	1.4	2.6	1.9	.0	.5
1.5	1.2	1.2	1.8	2.0	.8	.6	1.1	.0	.4
1.3	.5	.5	.7	.7	.9	1.0	1.3	.0	.1
1.3	.6	1.3	.2	.5	1.4	.9	1.0	.0	*
1.1	1.1	.8	.2	*	.2	.5	.8	.0	.0
.9	.1	.2	.0	.0	.1	.9	.7	.0	.0
.3	.4	.1	.0	.0	.0	.3	.7	.0	.0
13.7	13.7	8.9	7.3	10.8	9.0	13.9	19.9	.0	2.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	75	51	46	36	26	22	-9	38.5	2042
06&09	73	51	46	36	27	22	-3	38.7	1927
12&15	75	48	43	34	26	22	-4	37.2	1943
18&21	75	48	42	34	26	21	-3	37.0	1631
TOT	75	50	44	35	26	22	-9	37.9	7543

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	1.7	4.0	7.6	31.6	46.9	91	487
06&09	.0	1.2	2.5	4.9	25.6	65.7	91	463
12&15	.0	.2	3.4	8.4	19.0	69.0	94	410
18&21	.0	.3	3.5	2.7	21.6	71.9	93	333
TOT	0	18	43	92	285	1295	92	1693

ANNUAL

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.6N 153.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	01 04	05 08	09 12	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
26/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	4	*	.1
23/25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	5	.0	.1
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	.0	*	.0	7	*	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	*	*	*	.0	*	*	11	*	.2
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	*	*	.0	*	*	*	19	*	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.2	.1	.1	*	.1	.0	.0	49	.1	.6
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2	.1	*	.1	*	.1	.0	.0	59	.1	.7
7/8	.0	.0	.0	.0	.0	.0	.0	.0	*	.2	.2	.1	.2	.2	.3	.1	.0	.0	.0	103	.3	1.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.1	.1	.2	.1	.1	*	.0	.0	.0	75	.2	.9
5	.0	.0	.0	.0	.0	.0	.0	.0	.6	.7	.2	.6	.4	.4	.3	.1	.0	.0	.0	230	.8	2.6
4	.0	.0	.0	.0	.0	.0	.0	.2	1.2	.5	.4	.7	.6	.8	.3	.1	*	.0	.0	329	1.1	3.6
3	.0	.0	.0	.0	.0	.0	.0	.4	.7	.3	.2	.4	.6	.4	.1	.0	.0	.0	.0	211	.5	2.6
2	.0	.0	.0	.0	.0	.0	.0	.7	1.2	.8	.9	1.5	1.6	1.0	.2	.0	.0	.0	.0	534	2.0	5.9
1	.0	.0	.0	.0	.0	.0	.0	1.2	.8	.4	.8	.9	.9	.7	.0	.0	.0	.0	.0	393	1.1	4.7
0	.0	.0	.0	.0	.0	.0	.2	2.1	1.2	.9	1.3	2.7	3.0	1.1	.2	.0	.0	.0	.0	823	3.2	9.5
-1	.0	.0	.0	.0	.0	.0	.4	1.0	.8	.4	1.1	1.0	1.2	.4	.0	.0	.0	.0	.0	352	.9	5.4
-2	.0	.0	.0	.0	.0	.0	.8	1.4	.9	.6	1.2	1.3	.8	.2	*	.0	.0	.0	.0	413	1.3	5.9
-3	.0	.0	.0	.0	.0	.0	.8	.8	.5	.3	.5	.4	.4	*	.0	.0	.0	.0	.0	164	.5	3.3
-4	.0	.0	.0	.0	.0	*	1.3	.9	.5	.6	.6	.4	.2	.1	*	.0	.0	.0	.0	211	.6	4.2
-5	.0	.0	.0	.0	.0	.3	1.4	1.5	.5	.6	.3	.3	.2	.1	.0	.0	.0	.0	.0	191	.3	4.9
-6	.0	.0	.0	.0	.0	.5	1.1	.6	.1	.5	*	*	*	.0	.0	.0	.0	.0	.0	98	*	2.7
-7/-8	.0	.0	.0	.0	*	1.2	1.7	.9	.6	.5	.1	.2	.1	.0	.0	.0	.0	.0	.0	180	.2	5.1
-9/-10	.0	.0	.0	.0	.5	1.6	1.7	.4	.2	.2	*	.2	*	*	.0	.0	.0	.0	.0	161	.3	4.5
-11/-13	.0	.0	.0	.2	1.3	2.1	.8	.2	.0	.1	*	*	*	.0	.0	.0	.0	.0	.0	185	.1	4.8
-14/-16	.0	.0	.1	1.4	1.3	.4	.3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	158	.1	3.8
-17/-19	.0	.0	.9	1.3	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	.1	2.9
-20/-22	.0	.3	1.0	.9	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	.1	2.5
-23/-25	.1	.8	.9	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	*	1.9
-26/-30	.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	60	.1	1.2
<-30	.4	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	*	.6
TOTAL																				5372		
PCT	.8	1.9	3.2	4.0	3.7	6.5	10.7	12.4	9.9	8.1	8.3	11.5	10.7	5.8	1.8	.5	.2	.1	.1	100.0	13.8	86.2

PERIOD: (OVER-ALL) 1963-1974

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	2.4	.4	.0	.0	.0	3.2
1-2	.2	1.8	2.4	.0	.0	.0	4.4
3-4	.0	.6	2.3	.7	.0	.0	3.6
5-6	.0	.1	1.4	.3	.1	.0	1.9
7	.0	.1	1.0	.9	.0	.0	1.9
8-9	.0	*	.3	.3	*	.0	.7
10-11	.0	.0	.1	.4	.0	.0	.4
12	.0	.0	.2	.2	*	.0	.4
13-16	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.1	8.0	3.1	.1	.0	16.9

NE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	2.1	.2	.0	.0	.0	2.5
1-2	.1	1.3	1.6	.0	.0	.0	3.0
3-4	*	.1	.8	.1	.0	.0	1.1
5-6	.0	.1	.8	.3	.0	.0	1.2
7	.0	.0	.3	.4	*	.0	.7
8-9	.0	*	.2	.2	.1	.0	.5
10-11	.0	.0	*	*	*	.0	*
12	.0	.0	*	*	*	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	*	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.6	3.9	1.3	.1	.0	9.4

E

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	.8	.1	.0	.0	.0	1.1
1-2	.1	.8	.8	.0	.0	.0	1.6
3-4	*	.4	1.1	.2	.0	.0	1.7
5-6	.0	*	.2	.5	.1	.0	.8
7	.0	*	.2	.1	.1	.0	.4
8-9	.0	*	*	*	*	.0	.1
10-11	.0	.0	.1	.0	.1	.0	.2
12	.0	.0	*	.0	*	.0	*
13-16	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	2.1	2.6	.8	.3	.0	6.1

SE

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.1	1.1	.1	.0	.0	.0	1.3
1-2	.0	.8	.7	.0	.0	.0	1.5
3-4	.0	.4	1.3	.3	.0	.0	1.9
5-6	.0	*	.8	.4	*	.0	1.2
7	.0	.0	.2	.3	*	.0	.5
8-9	.0	*	.2	.3	*	.0	.6
10-11	.0	.0	.2	.2	.2	.0	.5
12	.0	.0	.1	.1	*	.0	.2
13-16	.0	.0	.1	*	.4	.0	.6
17-19	.0	.0	*	*	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	2.2	3.7	1.6	.8	.0	8.5

PERIOD: (OVER-ALL) 1963-1974

ANNUAL

TABLE 18 (CONT)

AREA 0021 OKHOTSK SEA SE
52.6N 153.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.2	.0	.0	.0	1.5
1-2	.1	1.4	1.5	.0	.0	.0	3.0
3-4	.0	.4	2.4	.3	.0	.0	3.1
5-6	.0	*	1.4	.6	*	.0	2.1
7	.0	.1	.4	.5	*	.0	1.0
8-9	.0	*	.1	.3	*	.0	.5
10-11	.0	.0	.1	.1	.0	.0	.3
12	.0	.0	*	*	.0	.0	.1
13-16	.0	.0	.0	.1	*	.0	.1
17-19	.0	.0	*	*	.1	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	6.1	2.0	.3	.0	11.8

SW

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	*	.0	.0	.0	1.3
1-2	.1	1.0	1.2	.0	.0	.0	2.2
3-4	.0	.7	.8	.2	.0	.0	1.8
5-6	.0	.1	.9	.2	.0	.0	1.2
7	.0	.1	.3	.3	*	.0	.7
8-9	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.1	.0	.0	.2
12	.0	.1	.0	.0	.1	*	.2
13-16	.0	.0	.2	.1	.1	.0	.4
17-19	.0	.0	.0	*	*	.0	*
20-22	.0	.0	.0	*	.0	.0	*
23-25	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.0	3.6	1.2	.4	*	8.6

W

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.2	.1	.0	.0	.0	1.6
1-2	.2	1.8	1.4	.0	.0	.0	3.5
3-4	.0	.9	1.6	.4	.0	.0	2.9
5-6	.0	.1	1.5	.3	.0	.0	1.9
7	.0	.0	1.0	.6	.1	.0	1.6
8-9	.0	.0	.4	.7	*	.0	1.1
10-11	.0	.0	.3	.3	.0	.1	.7
12	.0	.0	.1	.1	.2	.1	.4
13-16	.0	.0	.1	.2	.1	.0	.4
17-19	.0	*	.1	*	.1	.0	.2
20-22	.0	.0	*	.1	.1	.0	.2
23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.2	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	4.1	6.5	2.7	.8	.2	14.8

NW

HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.9	.6	.0	.0	.0	2.9	
1-2	.1	2.4	2.5	.0	.0	.0	5.0	
3-4	.0	1.0	2.4	.2	.0	.0	3.5	
5-6	.0	.2	2.0	.3	.1	.0	2.6	
7	.0	.1	.9	.5	.1	.0	1.6	
8-9	.0	.0	.3	.3	.1	.0	.6	
10-11	.0	.0	.1	.2	*	*	.3	
12	.0	.0	*	.3	*	.0	.3	
13-16	.0	.0	*	.3	*	.0	.4	
17-19	.0	.0	*	*	*	.0	.1	
20-22	.0	.0	*	.1	*	.0	.2	
23-25	.0	.0	.1	.0	.1	.0	.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	
TOT PCT	.5	5.4	9.0	2.1	.6	*	17.6	93.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	11.4	1.7	.0	.0	.0	21.4	
1-2	.9	11.2	12.1	.0	.0	.0	24.2	
3-4	*	4.6	12.8	2.4	.0	.0	19.8	
5-6	.0	.7	8.9	2.8	.3	.0	12.8	
7	.0	.4	4.1	3.6	.3	.0	8.5	
8-9	.0	.1	1.7	2.3	.4	.0	4.5	
10-11	*	.0	.9	1.4	.3	.1	2.8	
12	.0	.1	.5	.7	.4	.1	1.8	
13-16	.0	.0	.4	1.2	.8	.0	2.3	
17-19	.0	.1	.1	.3	.4	.0	.9	
20-22	.0	.0	*	.3	.1	.0	.4	
23-25	.0	.0	.1	.0	.3	.0	.4	
26-32	.0	.0	.0	.0	.3	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
								2696
TOT PCT	9.3	28.6	43.5	14.8	3.5	.2	100.0	

PERIOD: (OVER-ALL) 1949-1974

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.3	12.3	11.4	7.0	3.1	1.0	.6	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1760	3
6-7	.2	1.5	3.4	5.2	4.1	2.2	1.1	1.0	.8	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	822	6
8-9	.0	.2	.6	1.3	1.6	1.3	1.0	.4	.8	.3	.1	.0	*	.0	.0	.0	.0	.0	.0	296	8
10-11	.0	.6	.2	.4	.4	.3	.5	.4	.3	.3	*	.1	*	.0	.0	.0	.0	.0	.0	133	8
12-13	.0	.0	.4	.1	*	.1	.1	.2	*	*	.1	.0	*	.0	.0	.0	.0	.0	.0	46	8
>13	.0	.0	.0	.3	.1	.2	*	.1	.2	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	44	12
INDET	7.6	2.5	4.5	3.2	2.8	3.0	1.3	.5	.4	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	982	3
TOTAL																				4083	4
PCT	12.1	17.2	20.4	17.4	12.1	8.1	4.7	2.8	2.7	1.2	.6	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1939-1974
(OVER-ALL) 1879-1974

AREA 0021 OKHOTSK SEA SE
52.6N 153.3E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA THP 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	.1	.0	.0	.0	.0	1	*
65/66	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	*
63/64	.0	.0	.0	.0	.0	.0	.1	.6	.0	.0	.0	.0	5	.1
61/62	.0	.0	.0	.0	.0	.0	.2	.3	.3	.0	.0	.0	6	.1
59/60	.0	.0	.0	.0	.0	.0	.5	1.0	.3	2.1	.0	.0	19	.3
57/58	.0	.0	.0	.0	.0	.0	.2	3.3	3.1	.4	.0	.0	35	.6
55/56	.0	.0	.0	.0	.0	.0	1.3	10.1	7.1	1.3	.0	.0	112	1.9
53/54	.0	.0	.0	.0	.0	.2	2.3	20.5	15.3	2.1	.0	.0	224	3.9
51/52	.0	.0	.0	.0	.0	.9	8.3	29.8	26.1	3.9	.8	.0	407	7.0
49/50	.6	.4	.0	.0	.2	1.6	17.8	20.9	22.0	10.7	.8	.0	478	8.3
47/48	.3	.4	.2	.2	.2	3.5	22.2	8.7	12.5	9.0	1.6	.0	428	7.4
45/46	.3	.2	.2	.2	.7	15.6	27.9	3.7	9.5	19.3	6.3	1.9	560	9.7
43/44	.3	.6	.4	.2	.7	23.7	8.7	.5	1.7	31.3	4.7	3.7	349	6.0
41/42	1.9	1.2	.6	.4	2.3	21.3	7.3	.1	1.4	12.9	11.0	5.6	298	5.2
39/40	1.3	1.2	1.2	.9	5.2	13.3	2.1	.0	.7	6.0	11.8	2.8	188	3.3
37/38	3.2	2.3	2.4	3.2	7.1	7.1	.6	.0	.0	.9	27.6	9.3	188	3.3
35/36	19.6	20.7	8.5	6.3	19.2	5.9	.2	.0	.0	.0	22.0	26.2	450	7.8
33/34	23.5	19.2	9.3	11.4	25.3	5.7	.2	.0	.0	.0	9.4	25.2	503	8.7
31/32	30.9	14.0	24.0	32.4	26.7	1.2	.2	.0	.0	.0	3.1	20.6	661	11.4
29/30	17.4	38.8	50.3	35.2	11.6	.2	.0	.0	.0	.0	.8	4.7	778	13.5
27/28	.6	1.2	2.8	9.8	.9	.0	.0	.0	.0	.0	.0	.0	83	1.4
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	311	516	495	571	577	578	1263	702	295	233	127	107	5775	100.0
MEAN	33.2	32.4	31.3	31.5	33.9	41.4	47.0	51.8	50.6	45.4	38.2	35.1	39.3	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1003	1004	1004		1004		1004	1015	1004	372
FEB	1002	1003	1003	1009	1003	1000	1003	1013	1003	605
MAR	1007	1003	1007	1004	1007	1004	1006	1006	1007	576
APR	1013	1010	1012	1011	1013	1011	1012	1011	1012	920
MAY	1013	1013	1013	1014	1013	1014	1011	1011	1013	705
JUN	1014	1012	1014	1011	1014	1012	1013	1012	1013	872
JUL	1011	1010	1011	1009	1011	1010	1011	1010	1010	1665
AUG	1011	1008	1010	1010	1011	1009	1011	1009	1010	829
SEP	1012	1005	1011	1010	1012	1010	1012	1014	1012	348
OCT	1012	1016	1015	1018	1013	1016	1013	1014	1013	276
NOV	1006	1012	1004		1004		1009	1012	1004	157
DEC	1004		1002	1017	1005		1002		1004	135
ANN	1009	1009	1009	1011	1009	1010	1008	1012	1010	7460
OBS	1538	470	1456	460	1482	438	1243	373		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	968	977	987	997	1004	1011	1020	1025	1032
FEB	967	976	981	996	1004	1010	1022	1030	1035
MAR	957	971	983	1000	1008	1015	1023	1026	1029
APR	968	984	995	1006	1012	1018	1027	1031	1037
MAY	975	980	997	1007	1013	1019	1026	1031	1036
JUN	987	997	1002	1009	1013	1018	1022	1026	1031
JUL	989	993	999	1006	1011	1015	1020	1025	1031
AUG	980	988	995	1006	1011	1015	1022	1026	1031
SEP	984	988	997	1005	1012	1018	1025	1030	1037
OCT	978	986	998	1007	1014	1018	1028	1035	1036
NOV	973	973	976	999	1007	1013	1020	1024	1027
DEC	960	964	984	996	1004	1012	1023	1026	1027

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