

MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

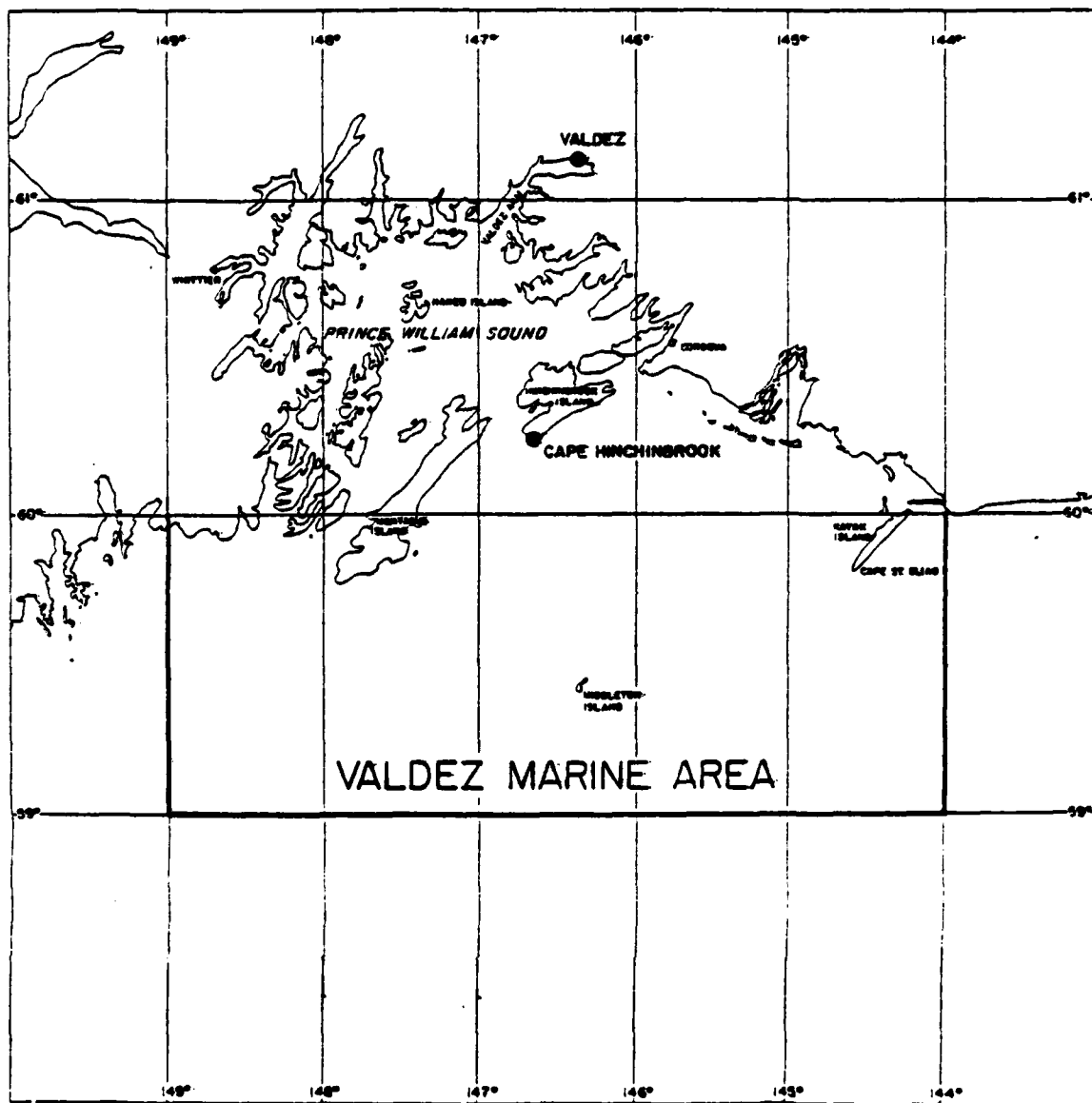
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LOCATIONS FOR VALDEZ MARINE AREA, VALDEZ, AND CAPE HINCHINBROOK SUMMARIES



(6) **SUMMARY OF
SYNOPTIC METEOROLOGICAL OBSERVATIONS
(SSMO)**

ALASKA COASTAL MARINE AREA,

**VALDEZ MARINE AREA,
VALDEZ,
CAPE HINCHINBROOK.**

National Climatic Center
Asheville, N.C.

11 JUN 1978



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409

12/1671

SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The data contained in these tables were obtained from Tape Data Family 14 (TDF-11), Marine Surface Observations, and Tape Data Family 14 (TDF-14), Land Surface Observations. Data for Valdez and Cape Hinchinbrook were edited and keyed to magnetic tape for a ten year period: Valdez hourly observations varied from 0800-1600 LST to 0500-2000 LST for the period July 1967-June 1977; Cape Hinchinbrook observations were three hourly observations from 0100-1900 LST (excluding 1600 LST) for the period July 1964-June 1974. The marine area in this volume is defined 59°N to Alaska's Coast, 144°-149°W. The marine data contains weather observations taken aboard vessels of varying registry over the period 1929-1977. An automated/visual quality control of the marine data was made and, where possible, missing psychrometric data were computed.

It should be noted that the marine area 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

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 but < .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

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 (Marine Area only). 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 17-20 are not available for Valdez and Cape Hinchinbrook, as sea-surface temperature, sea and swell waves were not recorded. In addition, Tables 5-7, 10, 12-14, 16 and 21 are not available for Cape Hinchinbrook; there were insufficient data for cloud tables, psychrometric temperatures and barometric pressures were not recorded, and Table 14 could not be produced as it depends on psychrometric temperatures used in Table 13.

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 TABLES

Accession No.	
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Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Air-Sea Temperature Difference is:

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

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

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

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

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

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

CONTENTS

NAME	PAGES
VALDEZ MARINE AREA	1-79
VALDEZ	80-132
CAPE HINCHINBROOK	133-158

Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

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 "observational counts" may not equal grand totals.

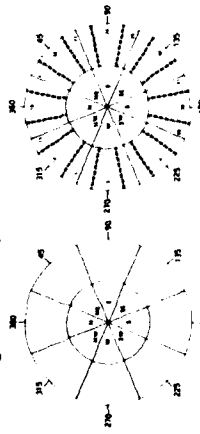


Fig 1. The 8 point direction system superimposed on the 8 point system.

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

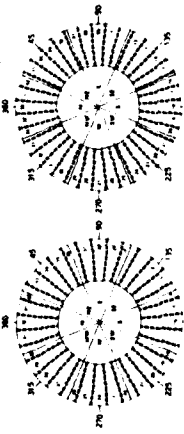


Fig 3. The 32 point direction system superimposed on the 8 point system.

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

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	90-93	58-59	FOG (WITHOUT PRECIPITATION)
	94	60-65	FOG (WITHOUT PRECIPITATION)
	95	91-94	RAIN
	96	(68-69, 95, 97 IF TEMP > 40°F)	FOG (WITHOUT PRECIPITATION) PAST HOUR
	97	80-82, (83-84 IF TEMP > 40°F)	SMOKE HAZE
	98	50-55, 58-59	SPRAY BLOWING DUST BLOWING SNOW
	99	56-57, 66-67	FREEZING PRECIPITATION
		70-75, 85-86 (68-69, 83-84, 95, 97 IF TEMP ≤ 40°F)	SNOW
		76-79	OTHER FROZEN PRECIPITATION
		87-90, 93-94, 96, 99	HAIL
		13, 17, 19, 29, 95-99	THUNDER LIGHTNING THUNDERSTORM

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

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

ACKNOWLEDGMENT

This project (Research Unit No. 496) was initiated for and supported in part by the Bureau of Land Management through the interagency agreement of the National Oceanic Atmospheric Administration. It is in response to needs of petroleum development of the Alaskan outer continental shelf which is managed by the Outer Continental Shelf Environmental Assessment Program (OCSEAP) office.

The funding for completion of this publication was made possible through the Marine Pilot Program of NOAA's National Oceanographic Data Center.

Data summaries were made possible through programs designed at the National Climatic Center (NCC) and funded primarily by the Director, Naval Oceanography and Meteorology (formerly Commander, Naval Weather Service Command) in support of the Marine Atlas Revision program. The Naval Weather Service also provided major support for acquisition of basic marine data.

Special acknowledgment is extended to members of the National Climatic Center's Data Translation Branch and Primary Data Branch for keying and editing land surface observations respectively, and Computer Support Branch for data processing of land and marine surface observations.

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1929-1977

JANUARY

VALDEZ MARINE AREA
59.8N 145.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	12.2	.0	.0	12.2	.0	.0	2.8	.0	.0	.0	85.0
NE	4.6	1.9	2.4	.0	8.2	.0	.0	16.1	4.1	.0	1.2	.0	.0	.0	78.7
E	23.1	2.7	1.5	.0	15.1	.0	.0	38.7	9.2	.0	2.7	.0	.0	.0	49.4
SE	21.9	.4	8.6	.0	3.9	.0	.0	34.8	9.0	.0	6.9	.0	.0	.0	49.4
S	24.6	.0	5.6	.0	7.0	.0	.0	34.3	11.3	.0	3.6	.0	.0	.0	48.6
SW	7.3	3.3	3.3	.0	6.6	.0	.0	19.9	2.6	.0	3.3	.0	2.6	.0	71.9
W	.0	2.2	2.2	.0	4.4	.0	.0	6.7	.0	.0	8.1	.0	.0	.0	85.2
NW	1.8	1.8	1.8	.0	4.5	.0	.0	10.0	5.5	.0	5.5	.0	.0	.0	79.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	3.3	3.3	.0	.0	.0	.0	6.7	.0	.0	3.3	.0	.0	.0	90.0
TOT PCT	10.2	1.7	2.8	.0	8.3	.0	.0	21.7	5.1	.0	3.8	.0	.2	.0	69.2
TOT OBS:	529														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	10.3	2.4	2.4	.0	7.9	.0	.0	20.6	7.3	.0	4.8	.0	.0	.0	67.3
0600	10.0	.8	4.6	.0	7.7	.0	.0	22.3	3.1	.0	3.1	.0	.8	.0	70.8
1201	9.0	1.5	1.5	.0	9.0	.0	.0	19.4	4.3	.0	4.3	.0	.0	.0	71.6
1801	13.3	1.7	2.5	.0	8.3	.0	.0	25.8	9.8	.0	2.5	.0	.0	.0	65.8
TOT PCT	10.6	1.6	2.7	.0	8.2	.0	.0	21.9	5.3	.0	3.8	.0	.2	.0	68.9
TOT OBS:	549														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.7	3.9	6.5	1.5	.6	.0	13.5	15.3	16.9	.0	13.3	.0	12.2	.0	10.9	.0
NE	.8	6.6	6.4	2.9	.8	.2	19.7	15.2	17.4	.0	19.0	.0	19.3	.0	24.8	.0
E	.7	4.5	5.9	5.3	2.8	.1	19.4	20.5	18.3	.0	15.7	79.0	28.7	50.0	19.6	.0
SE	.2	3.2	4.6	2.5	.5	.9	11.0	17.6	8.9	.0	10.1	25.0	8.7	.0	17.9	.0
S	.3	2.4	3.0	1.2	.0	.0	6.9	14.3	9.5	.0	7.1	.0	4.9	.0	4.7	75.0
SW	.2	2.8	2.9	.8	.4	.0	7.1	13.4	7.5	.0	10.1	.0	4.1	.0	6.7	25.0
W	.2	4.2	1.5	.3	.0	.0	6.4	10.4	7.3	.0	6.9	.0	8.3	25.0	2.0	.0
NW	.4	5.1	4.2	.2	.4	.0	10.4	11.9	7.5	.0	11.3	.0	9.1	25.0	15.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.7						5.7	.0	6.8	.0	6.3	.0	4.7	.0	4.5	.0
TOT OBS	49	173	196	81	29	2	590	14.8	161	0	126	1	127	2	112	1
TOT PCT	9.2	32.6	37.0	13.3	5.3	.4	100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18
N	2.1	6.5	3.4	1.5	.0	13.5	15.3	16.9	13.2	12.0	10.8				
NE	3.0	9.5	5.7	1.3	.2	19.7	15.2	17.4	18.9	19.0	24.6				
E	1.6	5.5	7.2	4.8	.3	19.4	20.5	18.3	10.1	29.1	13.5				
SE	1.1	4.3	3.7	1.4	.2	11.0	17.6	8.9	10.2	8.5	17.7				
S	1.2	3.3	1.9	.5	.0	6.9	14.3	9.5	7.1	4.8	5.3				
SW	2.1	3.3	1.1	.6	.0	7.1	13.4	7.5	10.0	4.1	6.9				
W	2.4	2.7	1.0	.2	.0	6.4	10.4	7.3	6.9	8.5	2.0				
NW	2.6	6.0	1.4	.2	.2	10.4	11.9	7.5	11.2	9.3	14.8				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	5.7					5.7	.0	6.8	6.3	4.7	4.4				
TOT OBS	116	219	195	55	5	590	14.8	161	127	129	113				
TOT PCT	21.9	41.3	23.3	10.4	.9	100.0		100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1929-1977

JANUARY

VALDEZ MARINE AREA
59.8N 145.9W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)					MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47			
0000	6.8	1.9	30.4	34.8	18.6	7.5	.0	15.4	161
0600	6.3	3.9	35.4	39.4	9.4	6.7	.8	14.2	127
1200	4.7	6.2	31.0	34.9	19.4	3.1	.8	14.5	129
1800	4.4	2.7	34.5	39.8	12.4	6.2	.0	15.0	113
TOT	30	19	173	196	81	29	2	14.8	530
PCT	5.7	3.6	32.6	37.0	15.3	5.5	.4	100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER	PCT FREQ										TOTAL OBS
							000	150	300	600	1000	2000	3500	5000	6500	8000+	
N	6.9	1.4	2.7	4.3		3.9	.4	.0	.0	.2	2.2	3.0	.5	.0	.0	.2	8.7
NE	5.6	2.2	5.1	5.4		4.7	.6	.0	.2	1.6	3.8	2.4	1.0	.0	.0	.0	8.8
E	1.8	1.3	2.5	14.6		6.8	4.2	.0	1.0	1.9	6.0	2.2	.4	.0	.2	.0	4.2
SE	.5	.3	2.4	6.8		6.9	1.0	1.0	1.1	.8	1.9	2.3	.1	.0	.0	.0	1.7
S	.7	.7	1.2	4.4		6.6	.2	.0	1.6	.4	2.0	.5	.6	.2	.0	.0	1.6
SW	.7	.4	2.4	1.9		6.0	.0	.2	.1	1.0	.9	1.6	.1	.5	.0	.0	1.1
W	1.8	1.5	1.3	1.5		4.1	.0	.0	.0	.8	.8	.7	.0	.0	.0	.0	3.7
NW	5.1	1.4	2.0	2.7		3.7	.2	.0	.0	.3	1.9	1.5	.0	.0	.0	.0	7.2
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	.7	.5	1.4		2.7	.2	.0	.5	.0	.7	.2	.0	.0	.0	.0	4.6
TOT OBS	110	41	83	180	414	5.2	2.9	5	19	29	84	60	11	3	1	1	172
TOT PCT	26.6	9.9	20.0	43.5	100.0		7.0	1.2	4.6	7.0	20.3	14.5	2.7	.7	.2	.2	41.5

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER	PCT FREQ										TOTAL OBS
							000	150	300	600	1000	2000	3500	5000	6500	8000+	
N	6.9	1.4	2.7	4.3		3.9	.4	.0	.0	.2	2.2	3.0	.5	.0	.0	.2	8.7
NE	5.6	2.2	5.1	5.4		4.7	.6	.0	.2	1.6	3.8	2.4	1.0	.0	.0	.0	8.8
E	1.8	1.3	2.5	14.6		6.8	4.2	.0	1.0	1.9	6.0	2.2	.4	.0	.2	.0	4.2
SE	.5	.3	2.4	6.8		6.9	1.0	1.0	1.1	.8	1.9	2.3	.1	.0	.0	.0	1.7
S	.7	.7	1.2	4.4		6.6	.2	.0	1.6	.4	2.0	.5	.6	.2	.0	.0	1.6
SW	.7	.4	2.4	1.9		6.0	.0	.2	.1	1.0	.9	1.6	.1	.5	.0	.0	1.1
W	1.8	1.5	1.3	1.5		4.1	.0	.0	.0	.8	.8	.7	.0	.0	.0	.0	3.7
NW	5.1	1.4	2.0	2.7		3.7	.2	.0	.0	.3	1.9	1.5	.0	.0	.0	.0	7.2
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	.7	.5	1.4		2.7	.2	.0	.5	.0	.7	.2	.0	.0	.0	.0	4.6
TOT OBS	110	41	83	180	414	5.2	2.9	5	19	29	84	60	11	3	1	1	172
TOT PCT	26.6	9.9	20.0	43.5	100.0		7.0	1.2	4.6	7.0	20.3	14.5	2.7	.7	.2	.2	41.5

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.5	.5	.5	.5	.5	.5	.5
>3500	.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>2000	2.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
>1000	14.8	16.6	17.8	18.0	18.7	18.7	18.7	18.7
>600	25.6	31.9	36.0	37.0	38.3	38.6	38.6	38.6
>300	29.3	37.6	42.7	44.1	45.7	46.0	46.0	46.0
>150	30.9	41.1	46.9	48.5	50.1	50.3	50.3	50.3
>0	31.4	42.0	48.0	49.7	51.3	51.5	51.5	51.5
TOTAL	32.3	43.9	51.5	54.0	59.7	59.2	59.4	59.4
	140	190	223	234	241	252	257	257

TOTAL NUMBER OF OBS: 433

PCT FREQ NH <5/8: 40.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
17.7	9.0	6.9	5.4	4.6	4.1	6.2	6.9	32.8	6.3
									463

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1929-1977

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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	.0	1.5	.4	.0	.0	.0	.2	.0	.0	2.3	
	NO PCP	.2	.0	.2	.0	.2	*	.1	.0	.0	.0	.2	.9
	TOT %	.4	.0	1.7	.4	.2	*	.1	.2	.0	.2	3.2	
1/2<1	PCP	.3	.2	.6	.2	.2	.4	.0	.0	.0	.0	1.9	
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2
	TOT %	.3	.2	.6	.2	.2	.6	.0	.0	.0	.0	2.1	
1<2	PCP	.3	.7	.7	.2	.0	.2	.1	*	.0	.0	2.3	
	NO PCP	.0	.2	.2	.4	.0	.0	.0	.0	.0	.0	.8	.8
	TOT %	.3	.9	.9	.6	.0	.2	.1	*	.0	.0	3.0	
2<5	PCP	.1	1.3	1.8	.8	.0	.0	.0	.2	.0	.2	4.4	
	NO PCP	.2	.4	1.6	.6	.4	.1	.5	.2	.0	.0	4.0	
	TOT %	.3	1.7	3.4	1.4	.4	.1	.5	.4	.0	.2	8.3	
5<10	PCP	.5	.7	1.9	1.3	1.6	.6	.1	.2	.0	.0	7.0	
	NO PCP	.5	2.9	2.2	1.7	.2	1.6	1.3	.9	.0	.8	12.1	
	TOT %	1.0	3.6	4.1	3.0	1.8	2.1	1.3	1.1	.0	.8	19.1	
10+	PCP	.1	.3	1.0	.9	.5	.3	.1	.4	.0	.2	4.0	
	NO PCP	11.0	19.0	7.8	4.3	3.6	3.8	4.0	8.2	.0	4.4	60.2	
	TOT %	11.2	19.3	8.8	5.3	4.2	4.1	4.2	8.7	.0	4.3	64.2	
TOT OBS												528	
TOT PCT		19.6	19.7	19.5	10.8	6.7	7.1	6.4	10.4	.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
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.2	.0	.2	*	.1	.2	.0	.0	.8	
	11-21	.2	.0	.4	.4	.2	.0	.0	.0	.0	.0	1.1	
	22+	.2	.0	1.1	*	.0	.0	.0	.0	.0	.0	1.3	
	TOT %	.4	.0	1.7	.4	.4	*	.1	.2	.0	.2	3.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	11-21	.3	*	.0	.2	.2	.2	.0	.0	.0	.0	.9	
	22+	.0	.2	.6	.0	.0	.2	.0	.0	.0	.0	.9	
	TOT %	.3	.2	.6	.2	.2	.6	.0	.0	.0	.0	2.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	.2	.0	.0	.1	*	.0	.0	.6	
	11-21	.3	.6	.6	.2	.0	.2	.0	.0	.0	.0	1.9	
	22+	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.3	.9	.9	.6	.0	.2	.1	*	.0	.0	3.0	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.2	1.1	.4	.2	.1	.3	.4	.0	.0	2.8	
	11-21	.3	.7	.7	.0	.0	.0	.0	.0	.0	.0	1.7	
	22+	.0	.6	1.6	1.0	.2	.0	.0	.0	.0	.0	3.4	
	TOT %	.3	1.7	3.4	1.4	.4	.1	.3	.4	.0	.2	8.3	
5<10	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.8	.9	
	4-10	.5	.7	.7	.6	.0	.4	.7	.4	.0	.0	4.0	
	11-21	.2	1.7	1.0	1.4	1.3	1.3	.2	.7	.0	.0	7.8	
	22+	.4	1.3	2.2	1.1	.5	.4	.3	*	.0	.0	6.4	
	TOT %	1.0	3.6	4.1	3.0	1.8	2.1	1.3	1.1	.0	.8	19.1	
10+	0-3	.7	.6	.5	.0	.3	.2	.2	.4	.0	4.3	7.6	
	4-10	3.4	5.7	2.4	2.1	2.0	2.0	2.7	4.1	.0	4.4	24.4	
	11-21	5.2	5.3	3.3	2.5	1.3	1.2	1.2	3.9	.0	4.4	23.9	
	22+	1.8	1.7	2.6	.7	.5	.0	.0	.0	.0	.0	8.3	
	TOT %	11.2	13.3	8.8	5.2	4.2	4.1	4.2	8.6	.0	4.3	64.1	
TOT OBS												529	
TOT PCT		13.6	19.7	19.4	10.8	6.9	7.1	6.4	10.4	.0	5.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	149	299	399	999	1999	3499	4999	6499	7999	.0	61.8	38.2	131
0600	7.5	.9	4.7	3.7	21.5	12.1	.9	1.9	.0	.9	34.2	45.8	107
1200	11.3	.0	3.8	5.7	12.3	16.0	1.9	.0	.0	.0	50.9	49.1	106
1800	6.1	2.0	4.1	6.1	26.5	15.3	5.1	.0	1.0	.0	66.3	33.7	98
TOT	34	5	19	32	86	65	12	3	1	1	258	184	442
PCT	7.7	1.1	4.3	7.2	19.5	14.7	2.7	.7	.2	.2	58.4	41.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
0000	4.2	1.8	3.0	6.0	21.0	64.1	167
0600	3.8	3.1	3.8	4.6	22.3	62.3	130
1200	3.7	2.2	1.5	13.3	12.6	66.7	135
1800	2.5	.8	3.4	11.0	19.5	62.7	118
TOT	20	11	16	47	104	352	550
PCT	3.6	2.0	2.9	8.3	18.9	64.0	100.0

TABLE 12

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

HR	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL
0000	6.3	14.2	31.5	32.3	36.2	127
0600	7.5	16.0	24.5	31.1	44.3	106
1200	11.4	17.1	29.5	29.8	46.7	105
1800	6.3	14.7	27.4	41.1	31.6	95
TOT	34	67	123	138	172	433
PCT	7.9	15.5	28.4	31.9	39.7	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	PCT
50/54	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
45/49	.0	.0	.0	.5	.0	.0	2.3	2.7	12	5.4
40/44	.0	.5	.0	.5	1.4	4.1	5.4	12.6	54	24.3
35/39	.0	.0	.0	1.8	1.8	4.3	9.5	23.0	90	40.5
30/34	.0	.0	.9	.5	1.8	2.3	5.4	9.0	44	19.8
25/29	.0	.0	.0	.0	.5	1.8	2.3	1.8	14	6.3
20/24	.0	.0	.0	.0	.0	.0	.9	.9	2	.9
15/19	.0	.0	.0	.0	.0	.5	1.8	.5	5	2.3
TOTAL	.0	1	2	7	13	28	56	115	222	100.0
PCT	.0	.5	.9	3.2	5.9	12.6	25.2	51.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
.5	1.4	.9	.9	.8	.1	.0	.9	.0	.0
.9	2.2	8.9	3.6	4.1	1.6	2.6	.9	.0	.5
2.3	3.7	11.1	7.9	5.3	4.3	3.6	4.6	.0	1.8
3.6	6.5	8	8	5	2.5	1.5	3.9	.0	.0
.0	4.6	8	.0	.0	.5	.5	.5	.0	.0
.0	.5	.0	.0	.0	.5	.0	.0	.0	.0
.0	.6	.3	.3	.0	.0	.0	.9	.0	.0
7.2	20.8	16.8	13.4	10.6	9.1	6.1	11.7	.0	2.3

TABLE 15

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

HR	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL
0000	52	46	43	37	23	20	19	33.9	162
0600	48	46	43	36	21	19	18	34.4	125
1200	48	46	43	36	22	18	18	34.8	128
1800	46	44	41	36	21	18	8	34.5	117
TOT	52	46	43	36	21	18	8	35.0	532

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000	.0	4.8	6.3	14.3	27.0	47.6	86	63		
0600	.0	8.6	1.7	13.8	27.6	48.3	86	58		
1200	.0	1.9	1.9	11.3	26.4	58.5	89	53		
1800	.0	1.9	13.0	9.3	18.5	57.4	88	54		
TOT	0	10	13	28	57	120	87	228		

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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	35 36	37 40	41 44	45 48	49 52	TOT	N FOG	MO FOG
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.0	.0	.0	.2	.0	.9	.2	.0	6	.2	1.1
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
4	.0	.0	.0	.0	.0	.0	.0	.7	.9	.0	.0	.0	7	.0	1.6
3	.0	.0	.0	.0	.0	.0	.0	.2	.7	.4	.0	.0	6	.0	1.3
2	.0	.0	.0	.0	.0	.2	.0	.0	2.4	.2	.0	.0	13	.0	2.9
1	.0	.0	.0	.0	.0	.0	.0	.9	.9	.2	.0	.0	9	.0	2.0
0	.0	.0	.0	.0	.2	.0	1.3	4.2	.9	.2	.0	.0	31	.2	6.7
-1	.0	.0	.0	.0	.0	.0	.2	4.7	.4	.0	.0	.0	24	.0	5.3
-2	.0	.0	.0	.0	.0	.0	.4	7.1	1.8	.0	.0	.0	42	.7	8.6
-3	.0	.0	.0	.0	.0	.0	.0	2.4	2.4	.7	.0	.0	25	.2	5.3
-4	.0	.0	.0	.0	.0	.0	.7	4.7	3.1	.4	.4	.0	42	.2	9.1
-5	.0	.0	.0	.0	.0	.0	1.1	3.5	3.1	1.1	.0	.0	40	.2	8.6
-6	.0	.0	.0	.0	.0	1.1	.0	1.6	2.4	.4	.0	.0	25	.2	5.3
-7/-8	.0	.0	.0	.0	.0	1.1	3.1	3.1	4.7	.2	.0	.0	55	.7	11.5
-9/-10	.0	.0	.0	.0	.0	.2	3.1	4.0	.9	.0	.0	.0	37	.7	7.5
-11/-13	.0	.0	.0	.0	.0	1.3	4.4	2.0	.2	.2	.0	.0	37	.0	8.2
-14/-16	.0	.0	.0	.9	1.1	2.0	1.3	.0	.0	.0	.0	.0	24	.0	5.3
-17/-19	.0	.0	.2	.9	.7	.7	.0	.0	.0	.0	.0	.0	11	.0	2.4
-20/-22	.0	.0	.0	.9	1.3	.0	.0	.0	.0	.0	.0	.0	10	.0	2.2
-23/-25	.2	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	4	.0	.9
-26/-30	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1		1	15	15	30	63	157	13	50	1	451	15	436	
PCT	.2	.0	.2	3.3	3.3	6.7	14.0	23.3	34.8	11.1	2.9	100.0	3.3	96.7	

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.7	.0	.0	.0	1.6	.0	1.6	.9	.0	.0	.0	.0	2.6
1-2	.3	1.7	4.4	.0	.0	.0	8.5	.1	2.3	3.7	.0	.0	.0	.0	9.0
3-6	.0	1.2	3.5	.3	.0	.0	5.0	.0	.1	1.7	1.0	.0	.0	.0	2.9
5-6	.0	.4	1.2	.4	.0	.0	2.0	.0	.4	.0	1.1	.0	.0	.0	1.5
7	.0	.0	.8	.4	.4	.0	1.6	.0	.0	.4	.8	.0	.0	.0	1.2
8-9	.0	.0	.8	.0	.4	.0	1.2	.0	.0	.0	.0	.1	.0	.0	1.1
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	11.3	1.5	.8	.0	16.4	.1	4.4	6.8	3.0	.1	.0	14.3	

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	3.9	.0	.0	.0	.0	3.9	.0	.8	.4	.0	.0	.0	.0	1.8
1-2	.0	2.7	1.3	.0	.0	.0	4.2	.0	.6	.4	.0	.0	.0	.0	1.0
3-6	.0	.6	1.9	1.1	.0	.0	3.7	.0	1.3	.3	.0	.0	.0	.0	1.8
5-6	.0	.0	.4	2.0	.4	.0	2.9	.0	.0	1.7	.1	.4	.0	.0	2.3
7	.0	.0	.7	.2	1.1	.0	2.2	.0	.0	.3	1.2	.1	.0	.0	1.9
8-9	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.8	.4	.1	.0	.0	1.3
10-11	.0	.0	.8	.8	.0	.0	1.6	.0	.0	.0	.8	.0	.0	.0	.8
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.4	.0	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.4	.1	.0	.0	.5
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	9.4	4.7	4.1	.0	21.4	.0	2.8	4.4	3.1	.7	.0	11.0	

PERIOD: (OVER-ALL) 1963-1977

JANUARY

VALDEZ MARINE AREA
59.8N 143.9W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	1.2	.0	.0	.0	.0	1.2
1-2	.4	.7	.0	.0	.0	.0	1.1	.0	.5	1.3	.0	.0	.0	1.8
3-4	.0	1.0	.8	.0	.0	.0	1.8	.0	.3	.1	.4	.0	.0	.8
5-6	.0	.0	1.0	.4	.0	.0	1.4	.0	.5	.9	.4	.0	.0	1.8
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.4	.0	.4	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	2.2	2.7	1.1	.0	.0	6.4	.0	3.0	2.4	.9	.4	.0	6.7

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	1.8	.0	.0	.0	.0	1.8	
1-2	.0	1.1	1.0	.0	.0	.0	2.2	.0	.6	.7	.0	.0	.0	1.3	
3-4	.0	.7	.3	.7	.0	.0	1.7	.0	.4	.9	.1	.0	.0	1.4	
5-6	.4	.3	.0	.0	.0	.0	.7	.0	.0	1.2	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2	
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	.4	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	4.1	1.3	.7	.0	.0	6.5	.0	2.9	4.1	.5	.0	.0	7.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.8	12.7	1.6	.0	.0	.0	22.1	
1-2	.8	10.2	13.1	.0	.0	.0	24.2	
3-4	.0	5.7	9.8	3.7	.0	.0	19.3	
5-6	.4	1.6	6.6	4.5	.8	.0	13.9	
7	.0	.0	4.1	3.3	1.6	.0	9.0	
8-9	.0	.0	2.0	.4	2.0	.0	4.5	
10-11	.0	.4	.8	2.5	.4	.0	4.1	
12	.0	.0	.4	.4	.4	.0	1.2	
13-16	.0	.0	.0	.4	.4	.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	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.0	30.7	38.5	15.6	6.1	.0	100.0	244

PERIOD: (OVER-ALL) 1950-1977

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	11.7	6.6	2.5	1.4	1.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	173	4
6-7	.2	1.1	2.5	4.3	4.1	3.2	2.5	.2	1.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	87	7
8-9	.0	.2	2.5	3.4	3.4	2.5	.7	.7	.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	64	7
10-11	.0	1.4	.7	.9	.9	.7	1.1	.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	8
12-13	.0	.0	1.1	.5	.0	.0	.2	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	10	7
>13	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	4	19
INDEX	10.1	1.4	1.4	.9	.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	1
TOTAL	57	73	87	73	51	35	27	11	13	3	1	4	0	2	0	0	0	0	0	0	437	5
PCT	13.0	16.7	19.9	16.7	11.7	8.0	6.2	2.5	3.0	.7	.2	.9	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1933-1977

VALDEZ MARINE AREA
59.7N 146.2W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	6.6	.0	.0	.0	6.6	.0	.0	13.1	.0	.0	2.5	.0	.0	.0	64.4
NE	9.2	2.6	1.6	.0	8.2	.0	.0	19.0	6.9	.0	.0	.0	.3	.0	73.8
E	15.2	.0	6.8	.9	12.6	1.8	.0	34.9	10.2	.7	2.4	.0	.7	.9	50.3
SE	22.1	1.4	10.0	.0	7.6	.0	.0	39.0	9.0	.3	3.1	.0	.0	.0	48.6
S	4.6	.0	3.1	.0	8.4	2.3	.0	18.3	5.3	.0	2.3	.0	.0	.0	74.0
SW	18.9	.0	.0	.0	5.6	1.1	.0	21.1	1.1	.0	1.1	.0	.0	4.4	72.2
W	6.8	.0	.0	.0	2.5	.0	.0	9.3	5.9	.0	2.5	.0	.0	.0	82.2
NW	3.5	3.5	.0	.0	4.3	.0	.0	7.8	.0	.0	1.7	.0	.0	.0	90.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.1	6.3	.0	2.1	.0	.0	10.4	.0	.0	.0	.0	.0	.0	89.6
TOT PCT	11.2	1.1	4.4	.2	7.7	.7	.0	23.6	5.9	.2	1.8	.0	.2	.4	67.8
TOT OBS:	454														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	10.2	.8	3.1	.0	3.1	.8	.0	16.5	7.9	.0	3.1	.0	.0	.0	72.4
0600	9.2	2.8	4.6	.0	13.8	.0	.0	27.5	1.8	.0	.9	.0	.0	.0	69.7
1200	13.1	.0	6.1	.0	7.1	1.0	.0	26.3	6.1	1.0	1.0	.0	.0	1.0	64.6
1800	11.6	.7	5.8	.7	7.2	.7	.0	25.4	8.0	.0	1.4	.0	.7	.7	63.8
TOT PCT	11.0	1.1	4.9	.2	7.6	.6	.0	23.7	6.1	.2	1.7	.0	.2	.4	67.7
TOT OBS:	473														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.9	2.3	1.9	1.0	.8	.0		6.9	13.4		8.3	.0	3.7	.0	7.1	.0	7.1	.0
NE	.5	6.8	5.6	2.0	1.6	.0		16.5	15.3		18.1	12.3	16.6	20.0	16.8	100.0	13.7	23.3
E	.6	5.7	5.7	7.7	4.7	.6		25.1	23.0		21.7	12.3	29.2	13.0	27.8	.0	23.9	33.3
SE	.2	2.2	3.9	3.2	1.7	.4		15.6	22.3		19.4	30.0	13.8	3.0	11.7	.0	14.8	.0
S	.6	2.1	3.2	1.3	.2	.0		7.5	14.3		5.8	23.0	7.7	20.0	8.2	.0	6.8	33.3
SW	.9	1.2	1.7	.7	.4	.0		4.8	14.3		4.4	.0	3.2	.0	4.8	.0	3.5	.0
W	.2	2.6	2.0	.9	.9	.0		6.6	16.3		5.0	.0	3.0	10.0	8.9	.0	9.2	.0
NW	.3	1.9	2.3	1.9	.2	.0		6.6	16.0		7.3	.0	3.0	30.0	8.4	.0	7.0	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3							10.3	.0		10.0	.0	13.9	.0	6.1	.0	12.0	.0
TOT OBS	68	115	132	96	49	5	465	100.0	16.8		120	4	101	5	98	1	133	3
TOT PCT	14.6	24.7	28.4	20.6	10.5	1.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40					00	03	06	09	12	15	18
N	1.8	2.5	1.8	.8	.0		6.9	13.4	8.1	5.4	7.1	7.0			
NE	1.7	9.2	3.3	1.9	.1		16.5	15.3	17.9	10.7	17.7	14.2			
E	1.7	6.9	7.8	5.8	2.9		23.1	23.0	21.4	23.3	27.5	24.1			
SE	.9	3.3	4.7	3.2	1.3		13.6	22.3	20.4	13.3	11.6	14.5			
S	1.0	4.4	1.4	.6	.0		7.5	14.3	6.3	9.3	8.1	7.4			
SW	1.4	1.6	1.4	.5	.0		4.8	14.3	4.2	3.0	4.8	3.3			
W	1.3	2.8	1.1	1.3	.0		6.6	16.3	4.8	3.3	8.8	9.0			
NW	1.7	2.4	1.8	1.5	.2		6.6	16.0	7.1	4.2	8.3	6.8			
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0			
CALM	10.3						10.3	.0	9.7	13.2	6.1	11.8			
TOT OBS	102	164	110	68	21	465	100.0	16.8	124	106	99	136			
TOT PCT	21.9	35.3	23.7	14.6	4.5		100.0		100.0	100.0	100.0	100.0			

FEBRUARY

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1933-1977

VALDEZ MARINE AREA
59.7N 146.2W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	9.7	4.8	22.6	34.7	17.7	10.5	.0	15.8	100.0	124	
04009	13.2	3.8	24.3	25.5	24.5	8.5	.0	16.2	100.0	106	
12015	6.1	4.0	30.3	29.3	13.2	12.1	3.0	17.8	100.0	99	
18021	11.8	4.4	22.8	24.3	24.3	11.0	1.3	17.4	100.0	136	
TOT	48	20	115	132	96	49	3	16.8		465	
PCT	10.3	4.3	24.7	28.4	20.6	10.5	1.1	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										
							000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT
N	2.6	1.3	1.9	1.5	4.4	4.4	.3	.0	.0	.3	1.7	.5	.0	.0	.0	.0	4.4
NE	3.7	1.7	4.3	7.7	5.6	5.6	.7	.1	.7	1.5	2.2	4.6	1.0	.0	.0	.0	6.6
E	1.7	.7	4.6	17.7	7.0	7.0	5.2	.8	1.3	3.1	4.3	6.0	.2	.0	.0	.0	3.7
SE	.3	.1	3.5	10.0	7.3	7.3	3.0	.0	1.9	1.7	2.9	2.4	.0	.0	.3	.0	1.7
S	.3	1.3	1.9	4.0	6.4	6.4	1.0	.2	.0	1.1	2.5	.5	.0	.0	.0	.0	2.2
SW	.3	.3	1.1	2.3	6.7	6.7	1.1	.1	.0	.6	.5	.9	.1	.0	.0	.0	.9
W	1.0	1.3	1.9	1.9	5.3	5.3	.7	.0	.3	.6	.5	.3	.4	.0	.3	.0	2.9
NH	2.7	.7	.9	1.3	3.5	3.5	.4	.0	.0	.3	1.2	.0	.3	.0	.0	.0	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4	.9	.3	6.6	4.6	4.6	.0	.0	.3	.6	1.2	4.2	.6	.0	.0	.0	6.3
TOT OBS	60	28	68	178	334	334	42	4	15	33	37	65	9	0	2	0	107
TOT PCT	18.0	8.4	20.4	33.3	100.0		12.6	1.2	4.5	9.9	17.1	19.5	2.7	.0	.6	.0	32.0

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										
							000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT
N	2.6	1.3	1.9	1.5	4.4	4.4	.3	.0	.0	.3	1.7	.5	.0	.0	.0	.0	4.4
NE	3.7	1.7	4.3	7.7	5.6	5.6	.7	.1	.7	1.5	2.2	4.6	1.0	.0	.0	.0	6.6
E	1.7	.7	4.6	17.7	7.0	7.0	5.2	.8	1.3	3.1	4.3	6.0	.2	.0	.0	.0	3.7
SE	.3	.1	3.5	10.0	7.3	7.3	3.0	.0	1.9	1.7	2.9	2.4	.0	.0	.3	.0	1.7
S	.3	1.3	1.9	4.0	6.4	6.4	1.0	.2	.0	1.1	2.5	.5	.0	.0	.0	.0	2.2
SW	.3	.3	1.1	2.3	6.7	6.7	1.1	.1	.0	.6	.5	.9	.1	.0	.0	.0	.9
W	1.0	1.3	1.9	1.9	5.3	5.3	.7	.0	.3	.6	.5	.3	.4	.0	.3	.0	2.9
NH	2.7	.7	.9	1.3	3.5	3.5	.4	.0	.0	.3	1.2	.0	.3	.0	.0	.0	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4	.9	.3	6.6	4.6	4.6	.0	.0	.3	.6	1.2	4.2	.6	.0	.0	.0	6.3
TOT OBS	60	28	68	178	334	334	42	4	15	33	37	65	9	0	2	0	107
TOT PCT	18.0	8.4	20.4	33.3	100.0		12.6	1.2	4.5	9.9	17.1	19.5	2.7	.0	.6	.0	32.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	.6	.6	.6	.6	.6	.6	.6	.6
>5000	.6	.6	.6	.6	.6	.6	.6	.6
>3500	2.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2
>2000	17.2	21.2	22.1	22.7	23.0	23.0	23.0	23.0
>1000	26.7	35.2	38.1	39.8	40.4	40.4	40.4	40.4
>600	32.3	42.4	47.7	49.4	50.0	50.0	50.0	50.0
>300	32.3	44.8	51.7	53.5	54.1	54.1	54.1	54.1
>150	32.3	45.1	52.0	54.1	54.7	54.7	54.7	54.7
>0	32.7	49.1	59.9	62.2	64.8	66.6	68.3	68.3
TOTAL	116	169	206	214	223	229	233	233

TOTAL NUMBER OF OBS: 344 PCT FREQ NH <5/8: 31.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.1	4.9	7.7	3.3	5.1	4.6	10.5	6.4	33.4	11.8	389

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1933-1977

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TABLE 8

VSBY (NM)		PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY											TOTAL OBS
		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	
<1/2	PCP	.0	.3	1.2	.3	.0	.0	.0	.0	.0	.0	.2	2.0
	NO PCP	.0	.0	.6	.3	.2	.1	.2	.1	.0	.0	.0	1.3
	TOT %	.0	.3	1.8	.6	.2	.1	.2	.1	.0	.2	.2	3.3
1/2<1	PCP	.2	.2	1.7	.3	.0	.0	.0	.0	.0	.0	.0	2.4
	NO PCP	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.2	.5	1.9	.3	.0	.0	.0	.0	.0	.0	.0	2.9
1<2	PCP	.4	.3	1.0	.7	.0	.0	.0	.0	.0	.0	.2	2.7
	NO PCP	.0	.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.4	.3	1.4	.8	.0	.0	.0	.0	.0	.0	.2	3.1
2<5	PCP	.2	1.3	1.5	1.3	.5	.6	.2	.4	.0	.0	.2	6.2
	NO PCP	.2	.8	1.9	1.3	.3	.0	.2	.2	.0	.0	.0	5.1
	TOT %	.4	2.1	3.4	2.6	.8	.6	.4	.7	.0	.2	.2	11.3
5<10	PCP	.2	.7	2.7	2.4	.6	.5	.4	.1	.0	.2	.7	7.7
	NO PCP	.6	1.2	3.0	2.0	2.0	1.3	1.7	.3	.0	.9	13.1	
	TOT %	.8	1.9	5.6	4.4	2.6	1.8	2.1	.3	.0	1.1	20.8	
10+	PCP	.0	.4	.4	1.1	.4	.0	.2	.0	.0	.0	.2	2.9
	NO PCP	4.9	11.3	9.8	6.1	3.4	2.3	3.8	3.3	.0	8.6	35.8	
	TOT %	4.9	11.6	10.2	7.2	3.9	2.5	4.0	3.3	.0	8.8	38.6	
TOT OBS													452
TOT PCT		6.8	16.9	24.4	15.8	7.5	5.0	6.7	6.3	.0	10.6	100.0	

TABLE 9

VSBY (NM)	SPD KTS	PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY											TOTAL OBS
		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.4
	11-21	.0	.2	.4	.0	.2	.1	.0	.0	.0	.0	.0	.9
	22+	.0	.1	1.4	.3	.0	.0	.0	.0	.0	.0	.0	1.8
	TOT %	.0	.3	1.8	.3	.2	.1	.2	.1	.0	.0	.2	3.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.2	1.3	.3	.0	.0	.0	.0	.0	.0	.0	2.0
	TOT %	.2	.5	2.0	.3	.0	.0	.0	.0	.0	.0	.0	3.1
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.2	.3	1.2	.3	.0	.0	.0	.0	.0	.0	.0	2.2
	TOT %	.4	.3	1.4	.8	.0	.0	.0	.0	.0	.0	.2	3.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.9
	11-21	.2	.3	.3	1.0	.3	.1	.2	.2	.0	.0	.0	3.1
	22+	.2	1.2	2.6	1.6	.5	.3	.2	.4	.0	.0	.0	7.2
	TOT %	.6	2.1	3.4	2.6	.8	.3	.4	.7	.0	.2	.2	11.4
5<10	0-3	.0	.2	.0	.0	.0	.2	.0	.0	.0	1.1	.0	1.5
	4-10	.4	.7	.9	.8	.3	.4	.6	.0	.0	.0	.0	4.4
	11-21	.2	.8	1.6	1.6	1.2	1.0	.9	.3	.0	.0	.0	7.7
	22+	.2	.3	3.2	2.0	.6	.2	.8	.0	.0	.0	.0	7.2
	TOT %	.8	2.0	5.8	4.4	2.6	1.8	2.1	.3	.0	1.1	.0	20.8
10+	0-3	.9	.3	.4	.2	.7	.7	.2	.3	.0	8.8	.0	12.3
	4-10	1.4	3.5	4.2	1.3	1.4	.8	2.1	1.6	.0	.0	.0	18.2
	11-21	1.4	4.2	2.2	3.1	1.6	.3	.9	1.8	.0	.0	.0	15.8
	22+	1.2	1.6	3.2	2.8	2.2	.3	.9	1.7	.0	.0	.0	11.8
	TOT %	4.8	11.7	10.1	7.1	3.8	2.3	4.0	3.4	.0	8.8	.0	38.3
TOT OBS													456
TOT PCT		6.9	16.8	24.3	15.7	7.4	4.9	6.7	6.3	.0	10.3	100.0	

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PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1933-1977

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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	6.7	1.9	5.8	10.6	19.2	14.4	4.8	.0	.0	.0	63.5	36.5	104
06009	19.5	.0	3.4	9.2	12.6	20.7	1.1	.0	2.3	.0	69.0	31.0	87
12015	17.6	.0	4.1	6.8	14.9	17.6	1.4	.0	.0	.0	62.2	37.8	74
18021	9.6	1.9	2.9	10.6	17.3	21.2	1.9	.0	.0	.0	65.4	34.6	104
TOT	47	4	15	35	40	68	9	0	2	0	240	129	369
PCT	12.7	1.1	4.1	9.3	16.3	18.4	2.4	.0	.3	.0	65.0	35.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL
(GMT)							OBS
00003	1.6	1.6	2.4	11.9	24.6	57.9	126
06009	4.4	3.5	3.5	11.5	23.0	54.0	119
12015	5.9	3.0	2.0	13.9	20.8	54.5	101
18021	2.2	3.7	3.1	11.0	16.9	61.0	136
TOT	16	14	16	57	101	272	476
PCT	3.4	2.9	3.4	12.0	21.2	57.1	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<5000	<1	<5	AND 5+	AND 5+	OBS
00003	7.2	14.4	30.9	37.1	32.0	97
06009	21.0	25.9	40.7	32.1	27.2	81
12015	18.1	23.6	33.3	31.9	34.7	72
18021	10.6	14.9	33.0	38.3	28.7	94
TOT	47	66	118	121	105	344
PCT	13.7	19.2	34.3	35.2	30.5	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	PCT
									OBS	FREQ
50/54	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
43/49	.0	.0	.0	.0	.5	1.0	1.5	2.5	11	5.4
40/44	.0	.5	.0	.0	2.5	6.4	8.8	8.3	54	26.5
33/39	.0	.5	.0	.0	2.0	3.9	11.3	24.0	85	41.7
30/34	.0	.0	.5	.5	1.0	4.9	4.4	2.5	28	13.7
23/29	.0	.0	.0	.5	1.0	3.4	1.0	3.4	19	9.3
20/24	.0	.0	.0	.5	1.5	1.0	.0	.0	8	2.9
TOTAL	0	2	1	2	14	43	37	83	204	100.0
PCT	.0	1.0	.5	1.0	7.8	21.1	27.9	40.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
43/49	1.0	.1	2.2	1.1	.4	.1	.0	.0	.0	.5
40/44	1.8	2.0	8.8	7.0	3.2	1.5	1.2	.5	.0	.5
33/39	3.6	8.3	11.4	7.1	4.3	1.8	1.0	2.2	.0	2.0
30/34	1.0	1.6	2.6	1.2	.9	1.8	2.0	1.2	.0	1.5
23/29	1.3	1.6	1.0	1.1	.4	.5	.0	2.5	.0	1.0
20/24	.5	.5	.5	.5	.0	.0	.0	.0	.0	1.0
TOTAL	9.2	14.6	26.5	18.0	9.1	5.8	4.2	6.4	.0	6.4

TABLE 15

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

HR	MAX	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)								OBS
00003	48	47	46	37	27	21	21	123
06009	51	50	45	37	25	18	18	111
12015	52	51	43	36	26	18	18	100
18021	48	46	44	37	27	22	22	136
TOT	52	48	43	37	26	21	18	470

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								OBS
00003	.0	1.6	8.2	27.9	16.4	45.9	84	61
06009	.0	3.8	5.8	19.2	30.8	40.4	83	52
12015	.0	2.2	11.1	17.8	28.9	40.0	84	45
18021	.0	1.9	3.6	16.7	35.2	40.7	86	54
TOT	0	5	16	44	58	89	85	212

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1939-1977

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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	TOT	N FOG	MD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	.0	1.4	.0	5	.0	1.4
4	.0	.0	.0	.0	.0	.3	.3	.8	.0	5	.0	1.4
3	.0	.0	.0	.0	.0	1.4	.8	.3	.0	9	.0	2.5
2	.0	.0	.0	.0	.0	1.4	.6	.3	.0	8	.0	2.2
1	.0	.0	.0	.0	.3	2.5	1.1	.6	.0	16	.0	4.4
0	.0	.0	.0	.0	1.1	8.3	2.2	.0	.0	42	.0	11.6
-1	.0	.0	.0	.0	2.2	9.9	1.7	.6	.0	30	.0	8.3
-2	.0	.0	.0	.0	3.3	9.9	1.1	.0	.0	30	.0	8.3
-3	.0	.0	.0	.0	4.7	3.3	.0	.3	.0	30	.3	8.0
-4	.0	.0	.0	.3	3.3	3.3	1.1	.0	.0	29	.0	8.0
-5	.0	.0	.0	.6	3.6	3.0	.0	.0	.0	26	.0	7.2
-6	.0	.0	.0	1.1	2.2	2.8	.3	.0	.0	23	.0	6.4
-7/-8	.0	.0	.0	3.0	3.0	1.1	.3	.0	.0	34	.0	9.4
-9/-10	.0	.0	1.4	1.7	2.5	.6	.3	.0	.0	23	.3	6.1
-11/-13	.0	.3	3.3	2.5	1.7	.0	.0	.0	.0	28	.0	7.7
-14/-16	.0	.3	1.7	.0	.8	.0	.0	.0	.0	10	.0	2.8
-17/-19	.6	1.1	.3	.0	.0	.0	.0	.0	.0	7	.0	1.9
-20/-22	.3	.3	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
TOTAL		7	24	33	111	129	17	3		362	2	360
PCT	.8	1.9	6.6	9.1	30.7	35.6	9.7	4.7	.8	100.0	.6	99.4

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

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

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.5	.5	.0	.0	.0	.0	1.0	.0	2.5	.0	.0	.0	.0	.0	2.5	
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	1.9	.3	.0	.0	.0	.0	2.4	
3-4	.0	.0	.9	.0	.0	.0	1.9	.0	1.9	1.1	.1	.0	.0	.0	2.8	
5-6	.0	.0	.4	1.0	.0	.0	1.4	.0	1.1	1.1	.9	.0	.0	.0	3.7	
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.1	.0	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.3	.1	.0	.0	1.6	
10-11	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	1.1	.0	.0	1.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.0	.0	.0	.0	1.3	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	1.8	1.3	1.4	.4	.0	5.3	.0	7.1	.9	2.2	2.9	.0	16.1		

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	3.2	.0	.0	.0	.0	3.2	.0	.8	.0	.0	.0	.0	.0	.8	
3-4	.0	1.5	2.3	1.4	.0	.0	3.2	.0	.3	2.3	.0	.0	.0	.0	2.8	
5-6	.0	.9	.3	2.4	1.5	.0	3.3	.0	.3	1.1	2.3	.3	.0	.0	4.9	
7	.0	.0	.4	.3	1.4	.0	2.3	.0	.0	1.0	2.0	.1	.3	.0	3.7	
8-9	.0	.0	.3	.4	.9	.0	1.8	.0	.0	.0	.1	.3	.0	.0	.6	
10-11	.0	.0	.3	1.4	.0	.0	1.9	.0	.0	.0	.6	.3	.0	.0	1.1	
12	.0	.0	.3	.3	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.0	.4	.3	1.9	.0	.0	.3	.1	.0	.3	.0	1.1	
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.3	.1	.0	.0	.6	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	7.6	4.2	7.6	3.1	.3	23.0	.0	2.3	4.9	6.2	2.3	1.0	16.8		

PERIOD: (OVER-ALL) 1963-1977

FEBRUARY

VALDEZ MARINE AREA
59.7M 146.2M

TABLE 18 (CONT)

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

MGT	S							PCT	SM							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.5	.9	.0	.0	.0	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.3
3-4	.0	.5	1.9	.0	.0	.0	2.4	.0	.5	.5	.0	.0	.0	.0	.0	1.0
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.6	.0	.1	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.5	.1	.0	.0	.0	1.3
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.4	3.2	.8	.0	.0	5.8	.0	.8	1.8	.6	.8	.0	.0	.0	3.9

MGT	M							PCT	MM							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.5	.5	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.5	2.0	.0	.0	.0	.0	.0	2.3	
3-4	.0	1.0	1.4	.4	.0	.0	2.8	.0	.0	1.8	1.1	.0	.0	.0	.0	2.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.4	.0	.4	.0	.8	.0	.0	.0	.5	.0	.0	.0	.0	.5	
12	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.4	3.3	.9	1.3	.0	7.9	.0	1.0	3.8	2.2	.0	.0	.0	.0	7.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.6	6.6	.5	.0	.0	.0	19.7	
1-2	.5	9.6	2.5	.0	.0	.0	12.6	
3-4	.0	9.8	12.1	3.0	.0	.0	20.7	
5-6	.0	2.5	4.0	7.6	2.5	.0	16.7	
7	.0	.0	1.5	3.5	2.0	.5	7.6	
8-9	.0	.0	2.5	1.5	2.5	.0	6.6	
10-11	.0	.0	1.5	3.0	2.5	.0	7.1	
12	.0	.0	1.0	1.5	1.5	.0	4.0	
13-16	.0	.0	.5	1.5	.5	1.0	3.5	
17-19	.0	.0	.0	.5	.5	.0	1.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
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	13.1	24.2	26.3	22.2	12.6	1.3	100.0	198

PERIOD: (OVER-ALL) 1949-1977

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 MGT
<6	3.0	8.8	11.9	10.1	3.4	1.8	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
6-7	.0	1.2	1.5	2.7	6.7	9.7	2.7	1.5	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	71	8
8-9	.0	.3	1.2	1.8	1.5	3.0	3.4	2.1	2.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	39	9
10-11	.0	.0	1.2	.9	.9	.3	1.2	.3	1.5	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	24	11
12-13	.0	.0	.6	.6	.0	.0	.3	.9	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	11	11
13-19	.0	.0	.0	.3	.3	.0	.9	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	11
INDEX	6.7	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	1
TOTAL	32	34	55	54	44	29	31	19	21	3	2	1	1	1	1	0	0	0	0	328	6
PCT	9.8	10.4	16.8	16.5	13.4	8.8	9.5	5.8	6.4	.9	.6	.3	.3	.3	.3	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1977
(OVER-ALL) 1942-1977

MARCH

VALDEZ MARINE AREA
59.7N 146.0W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG W/ PCPN	FOG W/ PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
N	5.0	.0	2.5	.0	2.5	.0	.0	7.5	4.4	.0	.0	.0	.0	.0	.0	88.1
NE	5.5	.4	6.3	.0	10.5	.0	1.6	20.3	13.3	.0	.0	.0	.4	.0	.0	66.0
E	19.2	.9	10.3	.0	10.2	.0	.0	42.6	11.1	.0	2.0	.0	.9	.0	.0	43.4
SE	11.7	3.8	6.7	.0	8.4	.0	.0	28.5	11.3	.0	.4	.0	.0	.0	.0	59.4
S	2.7	2.1	2.7	.0	12.3	.0	2.7	20.5	22.6	.0	.0	.0	.0	.0	.0	56.8
SW	.0	.0	.0	.0	7.6	.0	.0	7.6	21.2	.0	.0	.0	.0	3.4	.0	67.8
W	4.5	.0	.0	.0	6.4	.0	.0	8.9	7.0	.0	.0	.0	.0	5.1	.0	79.0
NW	3.1	.0	.0	.0	3.1	.0	.0	3.6	.6	.0	.0	.0	.0	.0	.0	93.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.8	.0	.0	.0	.0	4.8	4.8	.0	.0	.0	4.8	.0	.0	85.7
TOT PCT	7.9	1.0	6.0	.0	7.7	.0	.5	20.7	10.8	.0	.5	.0	.5	.7	.0	66.8
TOT OBS:	416															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG W/ PCPN	FOG W/ PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	NO SIG WEA
0600	8.7	.6	3.9	.0	11.0	.0	.0	22.0	11.8	.0	2.4	.0	.0	.0	.0	63.8
0609	14.0	.0	6.5	.0	3.4	.0	.0	22.6	3.4	.0	.0	.0	1.1	1.1	.0	69.9
1215	3.1	1.0	11.5	.0	6.3	.0	.0	20.8	9.4	.0	.0	.0	.0	2.1	.0	67.7
1821	6.8	1.7	3.4	.0	7.7	.0	1.7	18.8	14.5	.0	.0	.0	.9	.0	.0	65.8
TOT PCT	8.1	.9	6.0	.0	7.9	.0	.5	21.0	10.6	.0	.7	.0	.5	.7	.0	66.5
TOT OBS:	433															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	1.3	4.4	2.5	1.3	.0	.0	9.6	10.9	11.1	.0	12.4	.0	3.3	.0	9.6	.0
NE	.5	5.0	3.9	2.7	.6	.5	13.2	16.3	8.6	25.0	15.3	.0	12.1	.0	24.8	.0
E	.7	6.3	7.5	3.8	2.3	.2	20.8	18.3	20.3	75.0	22.3	.0	23.9	.0	17.5	.0
SE	.3	3.3	6.3	2.3	.6	.0	14.9	15.2	18.9	.0	11.3	.0	13.9	.0	14.0	50.0
S	.4	3.7	3.5	.9	.0	.0	8.5	12.6	11.3	.0	4.6	.0	6.8	.0	10.5	.0
SW	1.4	2.0	2.2	1.1	.2	.0	6.9	12.4	10.5	.0	2.4	.0	9.2	.0	5.0	.0
W	.4	4.2	2.9	1.1	.7	.0	9.2	13.6	6.6	.0	11.6	.0	9.5	.0	9.2	50.0
NW	.4	4.0	3.9	1.5	.0	.0	9.7	12.9	9.6	.0	12.6	.0	9.7	.0	7.5	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2	.0	.0	.0	.0	.0	3.2	.0	3.3	.0	7.5	.0	9.5	.0	1.8	.0
TOT OBS	43	149	148	63	19	3	427	14.0	122	1	93	0	95	0	114	2
TOT PCT	10.5	34.9	34.7	14.8	4.4	.7	100.0		100.0	100.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	3.7	3.9	1.4	.6	.0	9.6	10.9	11.0	12.4	3.3	9.5
NE	1.5	8.4	3.5	1.3	.3	13.2	16.3	8.7	15.3	12.1	24.4
E	2.9	8.0	4.9	4.4	.6	20.8	18.3	20.7	22.3	23.9	17.2
SE	2.3	3.6	4.4	1.5	.0	14.9	15.2	18.7	11.3	13.9	16.7
S	1.6	4.4	2.3	.2	.0	8.5	12.6	11.3	4.6	6.8	10.3
SW	2.4	2.9	.8	.7	.1	6.9	12.4	10.4	2.4	9.2	5.0
W	2.9	4.3	.9	.9	.1	9.2	13.6	6.3	11.6	9.5	9.9
NW	1.9	3.5	1.9	.4	.0	9.7	12.9	9.6	12.6	9.7	7.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.2	.0	.0	.0	.0	3.2	.0	3.3	7.5	9.5	1.7
TOT OBS	109	183	86	43	6	427	14.0	122	93	95	114
TOT PCT	23.5	42.9	20.1	10.1	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 (GHT)

HOUR	CALM	WIND SPEED (KNOTS)							MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+				
0000	3.3	5.7	34.1	35.8	14.6	6.5	.0	14.3	100.0	123	
0600	7.5	3.2	33.3	41.9	6.5	6.5	1.1	13.8	100.0	93	
1200	9.5	7.4	37.9	27.4	15.8	2.1	.0	12.0	100.0	95	
1800	1.7	5.2	34.5	33.6	20.7	2.6	1.7	13.8	100.0	116	
TOT	22	23	149	148	83	19	3	14.0		427	
PCT	5.2	5.4	34.9	34.7	14.8	4.4	.7	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	4.0	1.5	4.6	7.2	5.5	
E	1.2	1.0	4.3	14.9	7.0	
SE	.4	.8	3.2	8.8	7.1	
S	1.3	.5	2.0	4.8	6.3	
SW	.7	1.3	3.5	1.6	5.4	
W	3.4	2.0	2.3	1.1	3.4	
NW	4.8	1.1	1.8	.2	2.3	
VAR	.0	.0	.0	.0	.0	
CALM	1.6	.7	2.0	2.3	4.8	
TOT OBS	63	34	73	133	305	5.5
TOT PCT	20.7	11.1	24.6	43.6	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)										NH <3/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	149	299	599	999	1999	3499	4999	6499	7999		.0	5.8
NE	.7	.0	.0	.7	1.1	.6	.0	.0	.3	.0	.0	6.9
E	2.5	.0	1.1	1.1	2.6	2.1	.3	.7	.0	.0	.0	3.9
SE	4.8	.0	1.2	3.7	3.1	2.9	.7	1.0	.3	.0	.0	2.5
S	1.0	.0	.3	2.2	3.7	2.9	.3	.0	.3	.0	.0	2.8
SW	.2	.0	.0	1.5	2.1	1.9	.0	.0	.0	.0	.0	3.0
W	.4	.0	.0	.4	1.5	1.2	.7	.0	.0	.0	.0	6.7
NW	.6	.0	.0	.0	.4	.4	.3	.0	.3	.0	.0	5.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
CALM	.3	.3	.0	.7	.7	2.0	.0	.3	.0	.0	.0	121
TOT OBS	32	1	8	32	48	44	8	7	4	0	0	305
TOT PCT	10.5	.3	2.6	10.5	15.7	14.4	2.6	2.3	1.3	.0	.0	39.7

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>8	>2	>1	>1/2	>1/4	>50VD	>0	
>6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	
>5000	3.5	3.8	3.8	3.8	3.8	3.8	3.8	3.8	
>3500	6.3	7.0	7.3	7.3	7.3	7.3	7.3	7.3	
>2000	15.9	18.1	19.4	20.6	20.6	20.6	21.3	21.3	
>1000	23.8	30.5	35.0	35.2	36.2	36.2	36.8	36.8	
>400	29.2	38.7	42.5	45.1	46.0	46.0	46.7	46.7	
>300	30.2	40.0	45.1	48.3	49.2	49.2	49.8	49.8	
>150	30.2	40.3	45.4	48.6	49.3	49.3	50.2	50.2	
>0	30.3	42.3	51.1	56.5	58.1	58.4	60.0	60.0	
TOTAL	96	124	161	178	183	184	189	189	

TOTAL NUMBER OF OBS: 315

PCT FREQ NH <3/8: 40.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.0	4.8	6.3	7.2	5.1	9.0	6.3	8.7	27.9	9.6	333

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.4	.1	.0	.0	.2	.0	.0	.0	.7	
	NO PCP	.0	.0	.4	.1	.2	.2	.2	.0	.0	.0	1.2	
	TOT %	.0	.0	.8	.1	.2	.2	.5	.0	.0	.0	1.9	
1/2<1	PCP	.0	.7	.2	.0	.2	.1	.2	.0	.0	.0	1.4	
	NO PCP	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	1.2	.2	.0	.2	.1	.2	.0	.0	.0	1.9	
1<2	PCP	.2	.7	2.4	.6	.7	.0	.0	.0	.0	.0	4.6	
	NO PCP	.0	.1	.4	.2	.0	.1	.1	.0	.0	.2	1.2	
	TOT %	.2	.7	2.8	.8	.7	.1	.1	.0	.0	.2	5.8	
2<5	PCP	.2	1.0	2.5	1.1	.2	.2	.0	.0	.0	.2	5.5	
	NO PCP	.0	.5	.7	.4	.4	.5	.5	.0	.0	.0	2.9	
	TOT %	.2	1.4	3.2	1.5	.6	.7	.5	.0	.0	.2	8.4	
5<10	PCP	.2	.5	2.5	1.6	.4	.2	.0	.5	.0	.0	6.0	
	NO PCP	.7	.9	2.3	1.4	1.4	1.3	.7	.2	.0	.5	9.4	
	TOT %	.9	1.4	4.8	3.0	1.8	1.5	.7	.7	.0	.5	15.3	
10+	PCP	.0	.3	.7	1.0	.2	.0	.4	.1	.0	.0	2.6	
	NO PCP	8.2	10.3	8.0	8.2	5.0	4.4	7.0	8.9	.0	4.1	64.0	
	TOT %	8.2	10.6	8.6	9.1	5.2	4.4	7.4	8.9	.0	4.1	66.7	
TOT OBS													
TOT PCT		9.6	15.4	20.5	14.6	8.8	7.1	9.4	9.7	.0	5.0	100.0	417

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.4	.1	.2	.0	.2	.0	.0	.0	1.0	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.2	.0	.0	.2	.2	.0	.0	.0	.7	
	TOT %	.0	.0	.8	.1	.2	.2	.5	.0	.0	.0	1.9	
1/2<1	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.0	.0	.0	.1	.2	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.7	.2	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	1.2	.2	.0	.2	.1	.2	.0	.0	.0	1.9	
1<2	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.5	
	4-10	.2	.9	.2	.2	.2	.0	.0	.0	.0	.0	1.2	
	11-21	.0	.3	1.1	.1	.2	.0	.0	.0	.0	.0	1.7	
	22+	.0	.1	1.5	.8	.0	.1	.1	.0	.0	.0	2.6	
	TOT %	.2	.7	2.8	1.1	.7	.1	.1	.0	.0	.2	5.8	
2<5	0-3	.0	.0	.0	.1	.2	.0	.0	.0	.0	.2	.5	
	4-10	.0	.7	1.1	.5	.0	.5	.0	.0	.0	.0	2.9	
	11-21	.2	.5	1.0	.2	.2	.2	.3	.0	.0	.0	2.9	
	22+	.0	.3	1.2	.7	.2	.0	.0	.0	.0	.0	2.4	
	TOT %	.2	1.5	3.3	1.5	.6	.7	.5	.0	.0	.2	8.6	
5<10	0-3	.2	.0	.0	.2	.0	.5	.0	.0	.0	.5	1.4	
	4-10	.2	.1	1.5	1.0	.4	.1	.0	.2	.0	.0	3.6	
	11-21	.5	.2	1.4	1.5	.7	.5	.5	.5	.0	.0	5.7	
	22+	.0	1.1	1.8	.2	.7	.5	.2	.0	.0	.0	3.5	
	TOT %	.9	1.4	4.8	3.0	1.8	1.5	.7	.7	.0	.5	15.2	
10+	0-3	1.1	.3	.7	.0	.0	1.0	.4	.4	.0	4.3	8.1	
	4-10	3.9	3.7	3.1	3.2	2.9	1.5	3.8	3.8	.0		25.9	
	11-21	1.8	5.0	3.6	4.6	2.3	1.5	2.0	3.4	.0		24.2	
	22+	1.4	1.5	1.1	1.4	.0	.5	1.2	1.2	.0		8.3	
	TOT %	8.1	10.5	8.6	9.3	5.2	4.4	7.6	8.8	.0	4.3	66.5	
TOT OBS													
TOT PCT		9.5	15.3	20.5	14.9	8.7	7.0	9.3	9.6	.0	5.2	100.0	421

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	7.2	1.0	2.1	6.2	21.6	15.5	1.0	2.1	.0	.0	56.7	43.3	97
06609	11.6	.0	2.9	10.1	10.1	17.4	4.3	2.9	1.4	.0	60.9	39.1	69
12615	16.9	.0	1.3	13.0	9.1	10.4	3.9	1.3	3.2	.0	61.0	39.0	77
18621	5.3	.0	6.6	11.8	18.4	11.8	5.3	2.0	.0	.0	61.8	38.2	76
TOT	32	1	10	32	49	44	11	7	5	0	191	128	319
PCT	10.0	.3	3.1	10.0	15.4	13.8	3.4	2.2	1.6	.0	59.8	40.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	2.4	1.6	7.1	7.9	19.0	61.9	126
06609	1.1	.0	4.3	9.6	12.8	72.3	94
12615	2.0	1.0	7.0	11.0	14.0	65.0	100
18621	2.5	4.2	5.1	8.5	13.6	66.1	118
TOT	9	8	26	40	66	289	438
PCT	2.1	1.8	5.9	9.1	15.1	66.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <5	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	7.3	11.3	25.0	31.3	43.8	96
06609	11.8	16.2	32.4	29.4	38.2	68
12615	17.1	19.7	36.8	26.3	36.8	76
18621	4.0	14.7	26.7	34.7	38.7	75
TOT	31	48	94	96	125	315
PCT	9.8	15.2	29.8	30.5	39.7	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
45/49	.0	.0	.0	.0	.0	1.9	.6	.6	5	3.1
40/44	.0	.0	.0	.6	.6	5.0	5.0	8.7	32	19.9
35/39	.0	.6	1.2	2.5	4.3	9.3	11.8	22.4	84	52.2
30/36	.0	.0	.0	.6	1.2	.6	3.6	11.2	31	19.3
25/29	.0	.0	.0	.6	1.2	.0	.0	1.2	5	3.1
20/24	.0	.0	.0	.0	.0	.0	.0	1.9	3	1.9
15/19	.0	.0	.0	.0	.0	.0	.0	.6	1	1.6
TOTAL	0	1	2	7	12	27	37	75	161	100.0
PCT	.0	.6	1.2	4.3	7.5	16.8	23.0	46.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.5	.6	.6	.6	.0	.0	.0	.8	.0	.0
.6	2.6	3.3	4.3	4.3	2.6	.6	.6	.0	.6
5.6	7.0	8.1	11.2	5.3	1.4	6.1	5.1	.0	2.5
1.6	6.7	3.6	1.9	1.1	.8	2.6	1.1	.0	.0
.0	2.5	.0	.0	.0	.0	.0	.6	.0	.0
.0	.6	.0	.0	.0	.3	.3	.6	.0	.0
.3	.0	.0	.0	.0	.0	.0	.2	.0	.0
8.7	20.0	15.3	18.0	10.9	5.1	9.6	9.0	.0	3.1

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	58	54	45	38	30	21	16	37.8	126
06609	46	45	42	36	30	18	13	35.9	85
12615	43	44	41	37	27	13	13	35.0	95
18621	45	44	43	36	27	22	22	35.7	114
TOT	58	46	43	37	28	20	13	36.2	420

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	9.3	4.7	23.3	27.9	34.9	82	43
06609	.0	2.1	8.5	14.9	21.3	33.2	87	47
12615	.0	3.6	7.1	14.3	21.4	33.6	86	28
18621	.0	8.5	8.5	12.8	21.3	48.9	85	47
TOT	0	10	12	27	38	78	85	165

PERIOD: (PRIMARY) 1962-1977
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TABLE 17

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

AIR-SEA TMP DIF	13 16	17 20	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	57 60	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2	.0	.7
11/13	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	2	.0	.7
7/8	.0	.0	.0	.0	.0	2.3	.0	.3	.0	.0	.0	.0	8	.0	2.6
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.0	.0	.0	1.3	.3	.0	.0	.0	.0	6	.0	2.0
4	.0	.0	.0	.0	.0	.0	.3	2.0	.0	.0	.0	.0	7	.0	2.3
3	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	2	.0	.7
2	.0	.0	.0	.0	.0	.3	1.0	1.6	.0	.0	.0	.0	9	.0	3.0
1	.0	.0	.3	.0	1.0	1.3	1.0	.3	.0	.0	.0	.0	12	.0	3.9
0	.0	.0	.0	.0	.0	1.0	6.2	1.0	.3	.0	.0	.0	26	.0	8.5
-1	.0	.0	.0	.0	.0	.7	3.3	1.6	.0	.0	.0	.0	17	.3	5.2
-2	.0	.0	.0	.0	.0	1.6	5.6	1.0	.0	.0	.0	.0	25	.0	8.2
-3	.0	.0	.0	.0	.0	2.3	5.2	.3	.3	.0	.0	.0	25	.0	8.2
-4	.0	.0	.3	.7	3.6	3.3	1.0	.0	.0	.0	.0	.0	27	.0	8.9
-5	.0	.0	.0	.3	4.3	5.2	.3	.0	.0	.0	.0	.0	31	.0	10.2
-6	.0	.0	.3	1.6	4.3	2.3	.0	.0	.0	.0	.0	.0	26	.0	8.5
-7/-8	.0	.0	.0	.0	3.6	5.6	.7	.0	.0	.0	.0	.0	30	.0	9.8
-9/-10	.0	.0	.0	.7	1.6	3.6	.7	.0	.0	.0	.0	.0	20	.0	6.6
-11/-13	.0	.0	.0	.0	2.6	.7	1.3	.0	.0	.0	.0	.0	14	.0	4.6
-14/-16	.0	.0	.3	1.0	.7	.0	.0	.0	.0	.0	.0	.0	6	.0	2.0
-17/-19	.0	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.0	1.6
-20/-22	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	1	2	3	10	34	88	123	9	0	0	0	1	305	1	304
PCT	.3	.7	1.0	3.3	11.1	28.9	40.3	11.1	3.0	.0	.0	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

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

HGT	N						PCT	NE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	2.1	.3	.0	.0	.0	.0	2.6
1-2	.0	2.0	.9	.0	.0	.0	2.9	.0	2.8	3.1	.0	.0	.0	.0	6.4
3-4	.0	.0	1.4	.0	.0	.0	1.4	.0	1.5	2.1	.0	.0	.0	.0	3.6
5-6	.0	.3	.3	.9	.0	.0	1.9	.0	.0	1.3	1.1	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.3	.0	.0	.0	1.5
8-9	.0	.0	.3	.8	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	3.3	1.6	.0	.0	8.4	.5	6.5	8.0	.6	.0	.0	.0	15.7

HGT	E						PCT	SE						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	1.3	1.8	.0	.0	.0	.0	2.3	.0	1.1	.0	.0	.0	.0	.0	1.1
1-2	.0	3.8	1.3	.0	.0	.0	7.7	.0	3.9	1.5	.0	.0	.0	.0	5.4
3-4	.0	1.0	2.3	1.5	.0	.0	4.8	.0	.6	1.1	.0	.0	.0	.0	1.8
5-6	.0	.8	3.3	.9	.0	.0	5.2	.0	.3	1.9	.0	.0	.0	.0	2.1
7	.0	.0	.3	.4	.9	.0	1.8	.0	.0	.5	.1	.6	.0	.0	1.3
8-9	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.5	1.0	.0	.0	.0	1.3
10-11	.0	.0	.0	.3	.3	.0	1.0	.0	.0	.5	.0	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.4	.0	.3	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	9.7	8.2	3.8	2.4	.0	25.5	.0	3.9	6.5	1.1	.6	.0	.0	14.2

PERIOD: (OVER-ALL) 1963-1977

MARCH

TABLE 18 (CONT)

VALDEZ MARINE AREA
59.7N 146.0W

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

MGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.5		
1-2	.0	2.4	2.0	.0	.0	.0	4.4	.0	.0	.5	.0	.0	.0	.5		
3-4	.0	.4	.5	.0	.0	.0	.9	.5	.6	.5	.5	.0	.0	2.1		
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.1		
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	.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	3.8	3.8	.0	.0	.0	7.5	.5	1.1	1.6	1.0	.0	.0	4.3		

MGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.5	.5	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	1.0			
1-2	.0	3.4	2.0	.0	.0	.0	5.4	.0	2.4	2.1	.0	.0	4.5			
3-4	.0	.4	.5	.0	.0	.0	.9	.5	.5	.6	.0	.0	1.6			
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.6	.0	1.1			
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5			
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	1.3			
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.1			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.5	4.3	2.9	.5	.0	.0	8.2	.5	3.9	3.4	2.4	.0	10.2			

MIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.0	9.0	.5	.0	.0	.0	.0	17.6
1-2	.5	22.6	14.1	.0	.0	.0	.0	37.2
3-4	1.0	3.0	9.0	2.0	.0	.0	.0	17.1
5-6	.0	1.5	9.0	2.5	.0	.0	.0	13.1
7	.0	.0	2.5	1.5	1.5	.0	.0	5.5
8-9	.0	.0	1.0	3.0	1.0	.0	.0	5.0
10-11	.0	.0	.5	1.0	.5	.0	.0	2.0
12	.0	.0	.0	.5	.0	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.5	.0	.5	.0	.0	1.0
20-22	.0	.0	.5	.0	.0	.0	.0	.5
23-25	.0	.0	.5	.0	.0	.0	.0	.5
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	9.5	38.7	37.7	11.1	3.0	.0	100.0	199

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN MGT			
<6	3.0	12.5	11.3	5.7	1.8	1.5	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	3		
6-7	.0	1.2	6.9	6.3	3.0	3.6	3.3	1.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	6	
8-9	.0	.6	1.5	1.5	3.3	3.3	1.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	7
10-11	.0	3.0	1.8	.9	1.2	.3	.9	.0	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	6
12-13	.0	.0	2.1	1.5	.0	.9	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
>13	.0	.0	.0	.6	.3	.3	.0	.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	12
INDEX	6.0	.6	.0	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	1
TOTAL	30	60	79	57	33	34	22	8	8	2	1	1	0	0	0	0	0	0	0	0	0	335	5	
PCT	9.0	17.9	23.6	17.0	9.9	10.1	6.6	2.4	2.4	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0		

PERIOD: (PRIMARY) 1960-1976
(OVER-ALL) 1932-1976

APRIL

VALDEZ MARINE AREA
59.7N 146.4W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	.0	7.2	.0	7.2	.0	.0	14.4	3.1	.0	3.1	.0	.0	.0	.0	79.4
NE	11.1	4.7	5.3	.0	7.0	.0	2.3	25.7	8.8	.0	.0	.0	.0	.0	.0	65.3
E	17.2	1.0	6.0	.0	3.6	.0	1.9	27.8	9.1	.0	1.0	.0	1.7	.0	.0	60.3
SE	19.1	2.7	6.4	.0	4.4	1.3	1.3	33.9	4.0	.0	3.4	.0	.3	.0	.0	56.4
S	7.4	.0	9.3	.0	.0	.0	.0	16.7	7.4	.0	.0	.0	.0	.0	.0	75.9
SW	.0	.0	.7	.0	.0	.0	.0	.7	.7	.0	6.6	2.9	.0	.0	.0	89.0
W	2.1	2.1	2.1	.0	.0	.0	.0	6.3	7.8	.0	5.2	.0	.0	.0	.0	80.7
NW	.0	.0	7.1	.0	.6	.0	.0	7.6	4.7	.0	1.2	.0	.0	.0	.0	86.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.6	.0	.0	.0	.0	.0	2.6	2.6	.0	5.3	.0	.0	.0	.0	89.5
TOT PCT	9.1	1.6	5.1	.0	2.7	.2	.9	18.5	6.0	.0	2.9	.2	.4	.0	.0	71.9
TOT OBS:	449															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	MAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0000	9.3	1.6	3.1	.0	2.3	.0	1.6	16.3	4.7	.0	2.3	.0	.8	.0	.0	76.0
0600	9.4	2.6	4.3	.0	8.8	.0	.0	19.7	5.1	.0	3.4	.0	.0	.0	.0	71.8
1200	9.7	.0	4.3	.0	2.2	1.1	2.2	18.3	7.5	.0	5.4	1.1	.0	.0	.0	67.7
1800	8.9	3.2	8.9	.0	1.6	.0	.0	21.8	7.3	.0	3.2	.0	.8	.0	.0	66.9
TOT PCT	9.3	1.9	5.2	.0	3.2	.2	.9	19.0	6.0	.0	3.5	.2	.4	.0	.0	70.8
TOT OBS:	463															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.6	2.8	1.9	.3	.0	.0		5.6	10.9	4.0	.0	4.7	100.0	8.1	.0	5.5	.0
NE	1.2	4.2	2.0	1.4	.4	.2		9.4	13.8	9.7	.0	11.7	.0	6.7	.0	9.4	.0
E	1.3	6.7	7.3	3.4	2.0	.5		23.3	18.4	21.4	.0	19.6	.0	30.8	.0	23.8	.0
SE	.9	4.0	6.9	3.3	1.3	.2		16.4	17.9	19.6	.0	17.8	.0	14.2	.0	13.3	30.5
S	.4	4.6	3.7	.2	.0	.0		8.9	11.3	8.7	.0	10.1	.0	9.4	.0	8.0	.0
SW	.7	4.3	2.2	.2	.0	.0		7.5	9.5	11.5	.0	4.3	.0	6.1	.0	7.4	.0
W	.6	5.6	2.9	1.3	.2	.0		10.6	12.3	10.3	.0	10.1	.0	9.7	.0	12.3	.0
NW	.3	5.4	2.3	1.2	.0	.0		9.6	12.0	9.9	.0	8.8	.0	9.4	100.0	8.8	30.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.6							8.6	.0	4.8	.0	12.6	.0	5.6	.0	11.5	.0
TOT OBS	67	171	133	90	18	4	453		13.3	126	.0	111	1	90	1	122	2
TOT PCT	14.8	37.7	29.4	19.2	4.0	.9		100.0		100.0	.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	06	12	18	
N	1.6	2.9	.7	.3	.0		5.6	10.9	4.0	5.6	8.0	3.4
NE	2.8	4.1	1.4	.9	.2		9.4	13.8	9.7	11.6	6.8	9.3
E	3.1	10.1	6.4	4.7	.9		23.3	18.4	21.4	19.4	30.3	23.4
SE	1.9	7.5	3.6	2.8	.6		16.4	17.9	19.6	17.6	14.0	13.9
S	1.3	6.3	1.0	.0	.0		8.9	11.3	8.7	10.0	9.3	7.9
SW	2.8	4.1	.6	.0	.0		7.5	9.5	11.5	4.5	6.0	7.3
W	3.6	3.9	2.3	.8	.0		10.6	12.3	10.3	10.0	9.6	12.1
NW	2.3	5.1	1.6	.6	.0		9.6	12.0	9.9	8.7	10.4	9.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	8.6						8.6	.0	4.8	12.5	5.3	11.3
TOT OBS	128	200	71	46	8	433		13.3	126	112	91	124
TOT PCT	24.3	44.2	15.7	10.2	1.8		100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1960-1976
(OVER-ALL) 1932-1976

VALDEZ MARINE AREA
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00&03	4.8	7.1	35.7	32.5	15.1	4.8	.0	14.2	100.0	126
06&09	12.5	5.4	33.0	30.4	19.2	1.8	1.8	13.1	100.0	112
12&15	5.5	8.8	40.7	30.8	11.0	2.2	1.1	12.7	100.0	91
18&21	11.3	4.0	41.9	24.2	11.8	8.9	.8	13.1	100.0	124
TOT	39	28	171	193	60	18	4	13.3		459
PCT	8.6	6.2	37.7	29.4	13.2	4.0	.9	100.0		

TABLE 5

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

WIND DIR	TOTAL CLOUD OBS				MEAN CLOUD COVER
	0-2	3-4	5-7	8 & 9	
N	3.5	.2	.2	1.0	2.7
NE	1.0	1.0	1.8	4.4	3.6
E	1.1	1.6	5.8	14.1	6.8
SE	1.0	1.0	3.2	12.5	6.9
S	.0	1.0	3.0	4.9	6.8
SW	2.0	1.8	2.1	3.0	5.1
W	3.9	1.0	1.6	2.3	3.9
NW	5.6	.3	1.5	1.9	3.1
VAR	.0	.0	.0	.0	.0
CALM	3.3	1.8	3.3	1.5	3.8
TOT OBS	75	33	76	154	338
TOT PCT	22.2	9.8	22.5	45.6	100.0

TABLE 6

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

WIND DIR	TOTAL CLOUD OBS											NH <3/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	MEAN NH <3/8		
N	149	299	599	999	1999	3499	4999	6499	7999			3.7	126
NE	.0	.0	.2	.2	.6	.0	.2	.0	.0	.0	.0	3.6	112
E	.0	.6	.1	.4	1.8	2.0	.1	.3	.0	.0	.0	4.9	91
SE	1.6	.8	.6	3.1	3.8	5.9	1.2	.3	.3	.0	.0	2.4	124
S	.7	1.3	.6	1.6	5.1	5.1	.6	.0	.3	.0	.0	1.6	459
SW	.6	.0	.2	1.1	2.2	2.7	.2	.0	.3	.0	.0	4.7	
W	.4	.6	.1	.4	1.4	.6	.7	.0	.1	.0	.0	3.8	
NW	.2	.2	.0	.3	1.0	.5	.0	.3	.2	.0	.0	6.8	
VAR	.0	.1	.0	1.0	1.2	.3	.0	.0	.0	.0	.0	5.3	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	137	338
TOT OBS	12	12	6	29	62	46	11	4	4	0	0	39.1	100.0
TOT PCT	3.6	3.6	1.8	8.6	18.3	19.5	3.3	1.2	1.2	.0	.0	100.0	

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	4.9	5.2	5.5	5.5	5.5	5.5	5.5	5.5
>2000	19.3	23.6	24.2	24.5	24.5	24.5	24.5	24.5
>1000	30.0	39.2	41.8	42.4	42.7	42.7	42.7	42.7
>600	33.7	45.8	49.6	50.7	51.0	51.0	51.0	51.0
>300	34.0	47.3	51.6	52.7	53.0	53.0	53.0	53.0
>150	34.9	48.7	54.2	55.6	56.5	56.5	56.5	56.5
>0	35.4	49.3	55.3	57.9	60.3	60.8	61.4	61.4
TOTAL	123	171	192	201	210	211	213	213

TOTAL NUMBER OF OBS: 347

PCT FREQ NH <3/8: 38.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
16.9	9.1	4.6	4.8	6.7	6.7	9.4	7.3	34.9	372

PERIOD: (PRIMARY) 1960-1976
(OVER-ALL) 1932-1976

APRIL

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.6	.1	.0	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.4	.2	.2	.0	.0	.2	.1	.0	.0	1.1	
	TOT %	.0	.4	.8	.3	.0	.0	.2	.1	.0	.0	1.8	
1<2	PCP	.0	.4	.6	1.2	.4	.0	.0	.0	.0	.0	2.7	
	NO PCP	.0	.2	.2	.2	.0	.0	.2	.0	.0	.0	1.1	
	TOT %	.0	.7	.8	1.4	.4	.0	.2	.0	.0	.0	3.8	
2<5	PCP	.2	.5	2.3	1.4	.4	.1	.2	.3	.0	.0	5.3	
	NO PCP	.2	.5	.6	.7	.2	.2	.4	.1	.0	.0	3.1	
	TOT %	.3	1.0	2.8	2.2	.6	.3	.7	.3	.0	.0	8.5	
5<10	PCP	.4	.8	2.3	1.6	.4	.0	.4	.2	.0	.0	6.2	
	NO PCP	.3	1.1	4.2	1.2	.8	.3	.4	.2	.0	.0	9.1	
	TOT %	.7	1.9	6.5	2.8	1.3	.3	.9	.4	.0	.0	15.4	
10+	PCP	.2	.7	.8	1.3	.2	.0	.0	.2	.0	.0	3.8	
	NO PCP	4.1	4.8	11.6	8.4	6.5	7.0	8.6	8.4	.0	7.1	66.4	
	TOT %	4.3	5.5	12.4	9.7	6.7	7.0	8.6	8.6	.0	7.3	70.2	
TOT OBS													449
TOT PCT		5.4	9.5	23.5	16.6	9.0	7.6	10.7	9.5	.0	8.2	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.1	.2	.0	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.2	
	4-10	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.4	.8	.3	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.4	.8	.3	.0	.0	.2	.1	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	
	11-21	.0	.2	.2	.2	.2	.0	.0	.0	.0	.0	.9	
	22+	.0	.4	.6	.9	.2	.0	.0	.0	.0	.0	2.2	
	TOT %	.0	.7	.8	1.4	.4	.0	.2	.0	.0	.0	3.8	
2<5	0-3	.0	.0	.4	.0	.0	.0	.2	.0	.0	.2	.9	
	4-10	.0	.5	.4	.2	.0	.0	.4	.0	.0	.0	1.6	
	11-21	.2	.2	.4	1.1	.6	.3	.6	.3	.0	.0	3.1	
	22+	.2	.3	1.6	.8	.0	.0	.0	.1	.0	.0	2.9	
	TOT %	.3	1.0	2.8	2.2	.6	.3	.7	.3	.0	.2	8.4	
5<10	0-3	.0	.4	.0	.0	.0	.0	.0	.4	.0	.4	1.3	
	4-10	.3	.6	.8	.1	.6	.3	.2	.0	.0	.0	2.9	
	11-21	.2	.2	2.5	1.1	.7	.0	.4	.0	.0	.0	5.1	
	22+	.2	.6	3.3	1.7	.0	.0	.2	.0	.0	.0	6.0	
	TOT %	.7	1.9	6.3	2.8	1.3	.3	.9	.4	.0	.4	15.3	
10+	0-3	.6	.8	.9	.9	.4	.7	.2	.0	.0	7.3	11.8	
	4-10	2.3	2.7	5.6	3.3	4.0	4.2	4.9	3.4	.0		32.4	
	11-21	1.5	1.3	4.2	4.3	2.2	1.9	2.4	2.3	.0		20.2	
	22+	.0	.7	1.7	.9	.0	.2	1.3	1.2	.0		6.0	
	TOT %	4.5	5.5	12.4	9.6	6.7	6.9	8.3	8.6	.0	7.3	70.3	
TOT OBS													451
TOT PCT		5.6	9.5	23.4	16.3	9.0	7.5	10.6	9.6	.0	8.2	100.0	

APRIL

PERIOD: (PRIMARY) 1960-1976
(OVER-ALL) 1932-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8	TOTAL
(GMT)	149	289	599	999	1999	3499	4999	6499	7999			ANY HGT	OBS
00603	2.1	4.2	1.1	7.4	16.8	22.1	3.2	.0	1.1	.0	97.9	42.1	95
06609	6.3	3.1	2.1	5.2	17.7	18.6	4.2	.0	1.0	.0	98.3	41.7	96
12615	5.6	7.0	2.8	9.9	18.3	12.7	2.8	.0	.0	.0	99.2	40.8	71
18621	5.4	.0	2.2	10.8	18.3	19.4	2.2	4.3	2.2	.0	64.5	39.5	93
TOT	17	12	7	29	63	66	11	4	4	0	213	142	355
PCT	4.8	3.4	2.0	8.2	17.7	18.6	3.1	1.1	1.1	.0	60.0	40.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL
(GMT)							OBS
00603	.8	.0	3.1	10.8	19.4	70.0	130
06609	.9	3.4	5.1	7.7	19.7	69.2	117
12615	1.1	4.3	3.2	8.6	12.9	69.9	93
18621	.8	2.4	4.0	7.2	17.6	68.0	125
TOT	4	11	18	40	70	322	465
PCT	.9	2.4	3.9	8.6	15.1	69.2	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NH <3/8	TOTAL
(GMT)	<5000	<1	<3	AND 5+	AND 5+	OBS
00603	2.1	7.4	16.8	41.1	42.1	95
06609	6.3	12.6	23.2	35.8	41.1	95
12615	6.0	16.4	29.9	32.8	37.3	67
18621	5.6	7.8	21.1	45.6	33.3	90
TOT	17	37	77	136	134	347
PCT	4.9	10.7	22.2	39.2	38.6	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	PCT
									OBS	FREQ
50/54	.0	.0	.0	.5	.5	1.5	.0	.0	5	2.5
49/49	.5	.0	.0	.5	.5	5.4	3.5	1.5	24	11.9
40/44	.0	.5	.5	.5	3.5	8.4	11.9	11.9	75	37.1
39/39	.0	.5	.0	.5	3.5	7.9	13.9	18.3	90	44.6
30/34	.0	.0	.5	.5	.5	.0	.5	2.0	8	4.0
TOTAL	1	2	2	5	17	47	60	68	202	100.0
PCT	.5	1.0	1.0	2.5	8.4	23.3	29.7	33.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.5	.5	.5	.0	.0	.5	.5	.0	.0	.0
.5	.0	1.5	2.5	1.0	1.1	2.7	.1	.0	2.5	.0
1.4	3.3	7.7	6.9	4.0	2.7	3.5	4.2	.0	3.5	.0
3.1	5.8	12.5	3.7	4.3	5.3	3.6	4.7	.0	1.5	.0
.0	1.0	.0	.0	.0	.5	.5	1.5	.0	.5	.0
5.0	10.6	22.2	13.6	9.3	9.7	10.8	11.0	.0	7.9	.0

TABLE 15

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

HR	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00603	52	51	48	41	35	30	30	41.4	109
06609	50	46	45	39	34	33	33	39.2	103
12615	46	45	43	38	33	32	32	38.1	80
18621	58	52	46	40	35	30	30	40.4	112
TOT	58	51	46	40	34	32	30	39.9	404

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00603	2.2	6.7	13.3	31.1	15.6	31.1	78	45		
06609	.0	3.4	8.6	24.1	32.8	31.0	82	58		
12615	.0	2.4	9.5	21.4	21.4	45.2	84	42		
18621	.0	6.2	3.1	16.9	38.5	35.4	84	65		
TOT	1	10	17	48	60	74	82	210		

PERIOD: (PRIMARY) 1960-1976
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TABLE 17

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

AIR-SEA TMP DIF	29	33	37	41	45	49	TOT	N	NO
	32	36	40	44	48	52		FOG	FOG
11/13	.0	.0	.0	.0	.3	.3	2	.0	.7
7/8	.0	.0	.0	.0	.7	.7	4	.0	1.4
6	.0	.0	.0	.0	.3	.3	2	.0	.7
5	.0	.0	.0	.7	2.4	.7	11	.0	3.7
4	.0	.0	.3	2.4	1.0	.0	11	.0	3.7
3	.0	.0	2.0	1.7	.3	.0	6	.0	2.0
2	.0	.0	3.1	4.4	1.0	.0	21	.0	7.1
1	.0	.3	3.1	5.4	.3	.0	26	.3	8.5
0	.0	.3	5.1	5.4	.3	.0	23	.3	10.0
-1	.0	.3	3.4	4.1	.0	.0	23	1.0	6.0
-2	.0	1.7	8.1	2.0	.0	.0	35	.7	11.2
-3	.0	1.7	10.2	1.4	.0	.0	39	.3	12.9
-4	.0	.7	5.4	.0	.0	.0	18	.7	5.4
-5	.0	2.0	2.0	.3	.0	.0	13	.7	3.7
-6	.3	4.4	2.4	.0	.0	.0	21	.0	7.1
-7/-8	.0	2.7	3.4	.0	.0	.0	4	.0	1.4
-9/-10	.0	1.0	.3	.0	.0	.0	8	.0	2.7
-11/-13	.7	1.4	.0	.3	.3	.0	8	.0	2.7
TOTAL	3	49	135	75	27	6	295	12	289
PCT	1.0	16.6	45.8	25.4	9.2	2.0	100.0	4.1	99.9

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	1.3	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.9	.4	.0	.0	.0	.9	.0	1.1	.5	.1	.0	.0	1.7
3-4	.0	.0	.9	.0	.0	.0	.0	.0	.5	.0	.1	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
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
71-80	.0	.0	.0	.0	.0	.0	.0	.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	1.3	.4	.0	.0	2.7	1.1	3.9	1.3	.4	.3	.0	9.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.2	5.0	.0	.0	.0	8.2	.0	1.5	.1	.0	.0	.0	1.6
3-4	.0	2.2	2.4	1.5	.0	.0	6.0	.0	1.2	4.6	.5	.0	.0	6.3
5-6	.0	.3	.9	.9	.0	.0	1.9	.0	.0	1.9	2.2	.0	.0	4.0
7	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.7	.5	1.1	.0	2.3
8-9	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	.5	.0	.0	.8
10-11	.0	.0	1.1	.5	.0	.0	1.6	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	1.1	.0	.0	1.2
13-16	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.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
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	9.4	6.9	.4	.4	24.3	.0	3.9	8.3	3.1	1.7	.1	19.2

PERIOD: (OVER-ALL) 1962-1976

APRIL

VALDEZ MARINE AREA
59.7N 146.4W

TABLE 18 (CONT)

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.5	1.1	.0	.0	.0	.0	1.6	.0	1.2	.0	.0	.0	.0	.0	1.2	
1-2	.0	2.3	2.2	.0	.0	.0	4.4	.0	.8	1.1	.0	.0	.0	.0	1.9	
3-4	.0	.0	2.0	.0	.0	.0	2.4	.0	.0	1.3	.0	.0	.0	.0	1.3	
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.1	.0	.0	.0	.0	.1	
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.8	6.5	.0	.0	.0	10.8	.0	2.0	2.6	.0	.0	.0	4.6		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	2.2	.0	.0	.0	.0	.0	2.2		
1-2	.0	1.1	.8	.0	.0	.0	1.9	.0	3.2	.8	.0	.0	.0	.0	4.0		
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	1.1	1.9	.0	.0	.0	.0	3.0		
5-6	.0	.0	.5	.5	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	1.1		
7	.0	.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	.5	.0	.0	.0	.5		
10-11	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1		
13-16	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	2.6	3.2	1.1	.5	.0	7.4	.0	6.5	2.7	1.7	.0	.0	10.9	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	11.3	10.2	.0	.0	.0	.0	21.3	
1-2	.5	16.1	11.3	.0	.0	.0	28.0	
3-4	.0	5.9	15.1	2.2	.0	.0	23.1	
5-6	.0	.5	4.8	4.8	.0	.0	10.2	
7	.0	.0	1.6	2.2	1.1	.0	4.8	
8-9	.5	.0	.0	4.3	.0	.0	4.8	
10-11	.0	.0	2.2	.5	.5	.0	3.2	
12	.0	.0	.0	1.6	.0	.5	2.2	
13-16	.0	.0	.5	.0	1.1	.0	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.5	.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	12.4	32.8	35.5	15.6	3.2	.5	100.0	186

PERIOD: (OVER-ALL) 1950-1976

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	3.9	11.2	13.5	7.9	3.4	1.4	.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
6-7	.3	1.7	3.4	7.6	5.9	3.4	2.0	1.4	.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	94	6
8-9	.0	1.4	1.4	3.1	2.8	1.1	1.7	.8	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	1.4	.8	.6	.0	.3	.6	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	1.1	1.4	.0	.3	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	7
3-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDEP	6.5	.6	.3	.6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	1
TOTAL	38	38	73	75	43	23	18	12	12	1	3	0	0	0	0	0	0	0	0	356	5
PCT	10.7	16.3	20.5	21.1	12.1	6.5	5.1	3.4	3.4	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

MAY

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRSN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	.0	.0	.0	.0	.0	.0	6.8	2.7	.0	2.0	.0	.0	.0	88.4
NE	19.7	.0	6.6	.0	2.4	.0	1.2	28.7	8.7	.0	1.5	.0	.0	.0	61.2
E	19.1	2.3	13.6	.0	1.8	.0	.0	35.0	8.0	.0	1.5	.6	.6	.0	54.2
SE	13.6	2.8	11.3	.0	.0	.0	.0	26.0	18.0	.0	1.9	.0	1.7	.0	52.4
S	8.6	.0	3.9	.0	.0	.0	.0	12.5	7.3	.0	.0	.0	.0	.0	80.2
SW	7.0	.0	2.1	.0	.0	.0	.0	9.1	6.2	.0	3.3	.0	.0	.0	81.4
W	.0	.0	.0	.0	.0	.0	.0	.0	2.6	.0	2.9	.0	.0	.0	94.5
NW	3.3	.0	.0	.0	.0	.0	.0	3.3	.8	.0	.8	.0	6.6	.0	88.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0	.0	4.5	.0	.0	.0	.0	7.5	.0	.0	9.0	.0	3.0	.0	80.6
TOT PCT	11.4	1.0	6.9	.0	.7	.0	.1	19.4	7.6	.0	2.5	.1	1.0	.0	69.4
TOT OBS:	682														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER PRSN PCPN	HAIL	PCPN AT OBS TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	12.8	.5	5.3	.0	1.1	.0	.0	19.1	8.0	.0	3.7	.5	1.6	.0	67.0
0600	11.7	.6	8.0	.0	.6	.0	.0	19.1	3.6	.0	1.2	.0	.6	.6	72.8
1200	10.9	1.1	6.0	.0	.0	.0	.5	17.9	4.9	.0	1.8	.0	1.6	.0	73.9
1800	9.5	1.9	8.2	.0	1.3	.0	.0	20.3	12.0	.0	3.8	.0	.0	.0	63.9
TOT PCT	11.3	1.0	6.8	.0	.7	.0	.1	19.1	7.5	.0	2.6	.1	1.0	.1	69.3
TOT OBS:	692														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.9	2.9	1.3	.1	.0	.1		3.4	9.1	3.0	.0	6.0	.0	8.1	.0	4.5	.0
NE	1.1	5.9	3.9	1.3	.8	.0		12.2	12.2	9.2	.0	11.6	.0	14.7	.0	14.0	16.7
E	1.3	7.3	9.9	3.8	1.3	.1		23.8	15.8	23.8	16.7	26.8	.0	20.2	.0	26.0	16.7
SE	.8	6.1	6.7	2.7	.6	.0		16.9	14.3	18.6	30.0	18.8	.0	11.7	.0	19.0	.0
S	.9	4.4	2.8	.3	.2	.0		8.6	10.4	8.1	.0	9.7	.0	12.1	37.3	7.8	16.7
SW	.7	5.5	2.6	.2	.0	.0		9.0	9.0	10.1	33.3	7.1	.0	8.9	12.5	8.3	50.0
W	.8	5.8	2.9	.4	.0	.0		9.9	9.6	10.1	.0	8.8	75.0	10.6	37.5	9.8	.0
NW	.6	2.4	1.0	.3	.1	.0		4.6	10.4	6.8	.0	4.8	25.0	3.8	12.5	2.6	.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.8							9.8	.0	10.4	.0	10.8	.0	9.9	.0	8.4	.0
TOT OBS	116	277	213	92	18	2	686		11.3	193	3	158	1	182	2	154	3
TOT PCT	16.9	40.4	31.0	9.0	2.3	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				03	06	09	12	15
N	2.2	2.7	.4	.0	.1		3.4	9.1	3.0	6.0	8.0	4.5	
NE	2.5	6.6	2.4	.7	.0		12.2	12.2	9.2	.0	11.6	.0	14.0
E	4.2	9.9	6.3	2.6	.5		23.8	15.8	23.8	16.7	26.8	.0	26.0
SE	3.2	8.4	4.1	.9	.3		16.9	14.3	18.6	30.0	18.8	.0	11.7
S	3.0	4.9	.4	.3	.1		8.6	10.4	8.1	.0	9.7	.0	12.1
SW	4.2	4.0	.7	.0	.0		9.0	9.0	10.1	33.3	7.1	.0	8.9
W	3.1	3.3	1.3	.0	.0		9.9	9.6	10.1	.0	8.8	75.0	10.6
NW	2.0	1.7	.7	.1	.0		4.6	10.4	6.8	.0	4.8	25.0	3.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	9.8						9.8	.0	10.4	.0	10.8	.0	9.9
TOT OBS	239	300	111	33	7	686		11.3	193	3	158	1	182
TOT PCT	34.3	43.7	16.2	4.8	1.0		100.0		100.0	100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

MAY

VALDEZ MARINE AREA
59.6N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0603	10.2	5.9	36.0	32.8	11.8	2.7	.9	11.9	100.0	186
0609	10.7	6.3	44.0	28.9	6.9	3.1	.0	10.8	100.0	139
1215	9.8	9.2	44.0	28.3	6.5	1.6	.9	10.7	100.0	184
1821	8.3	7.0	37.6	34.4	10.8	1.9	.0	11.7	100.0	137
TOT	67	49	277	213	62	16	2	11.3		686
PCT	9.8	7.1	40.4	31.0	9.0	2.3	.9	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION									
							000	150	300	600	1000	2000	3500	5000	6500	8000+
N	1.6	.9	1.2	1.7		4.6	.0	.0	.3	.8	.9	.0	.0	.3	.0	3.0
NE	1.4	1.3	2.0	8.1		6.5	.5	4	.9	1.6	3.5	1.3	.9	.3	.2	3.5
E	1.0	.9	4.8	16.9		7.2	.9	-1	2.5	4.4	4.7	4.7	.6	.9	.3	4.5
SE	.6	.9	2.6	12.1		7.2	.5	-2	.9	2.0	4.8	3.5	.9	.5	.2	2.7
S	1.3	1.0	1.8	4.9		6.0	.0	.0	.3	.9	2.2	1.6	.2	.5	.1	3.3
SW	2.2	.4	3.5	2.7		5.3	.0	.0	-1	.5	1.6	1.6	.5	.4	.0	4.0
W	3.5	1.3	1.8	3.1		4.3	.5	.0	.3	.3	.9	.9	.4	.2	.3	5.5
NH	2.0	.9	.8	.9		3.7	.0	.2	.0	.0	.7	.4	.0	.1	.0	3.2
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.2	2.7	4.3		5.1	.5	.0	.2	.9	2.3	.0	.4	.5	.2	5.4
TOT OBS	92	42	117	303	355	6.0	17	3	30	65	120	77	21	18	10	194
TOT PCT	16.8	7.6	21.1	54.6	100.0		3.1	.9	5.4	11.7	21.6	19.9	3.8	3.2	1.8	35.0

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	PCT FREQ OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION									
							000	150	300	600	1000	2000	3500	5000	6500	8000+
N	1.6	.9	1.2	1.7		4.6	.0	.0	.3	.8	.9	.0	.0	.3	.0	3.0
NE	1.4	1.3	2.0	8.1		6.5	.5	4	.9	1.6	3.5	1.3	.9	.3	.2	3.5
E	1.0	.9	4.8	16.9		7.2	.9	-1	2.5	4.4	4.7	4.7	.6	.9	.3	4.5
SE	.6	.9	2.6	12.1		7.2	.5	-2	.9	2.0	4.8	3.5	.9	.5	.2	2.7
S	1.3	1.0	1.8	4.9		6.0	.0	.0	.3	.9	2.2	1.6	.2	.5	.1	3.3
SW	2.2	.4	3.5	2.7		5.3	.0	.0	-1	.5	1.6	1.6	.5	.4	.0	4.0
W	3.5	1.3	1.8	3.1		4.3	.5	.0	.3	.3	.9	.9	.4	.2	.3	5.5
NH	2.0	.9	.8	.9		3.7	.0	.2	.0	.0	.7	.4	.0	.1	.0	3.2
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2	.2	2.7	4.3		5.1	.5	.0	.2	.9	2.3	.0	.4	.5	.2	5.4
TOT OBS	92	42	117	303	355	6.0	17	3	30	65	120	77	21	18	10	194
TOT PCT	16.8	7.6	21.1	54.6	100.0		3.1	.9	5.4	11.7	21.6	19.9	3.8	3.2	1.8	35.0

TABLE 7

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

CEILING (FEET)	OR			VSBY (NH)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
>6500	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	
>5000	2.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
>3500	3.9	8.8	9.0	9.0	9.0	9.0	9.0	9.0	
>2000	15.1	20.1	22.3	22.5	22.5	22.7	22.7	22.7	
>1000	30.6	40.6	44.2	44.4	44.8	44.8	44.8	44.8	
>600	34.4	50.2	55.8	56.1	56.3	56.5	56.5	56.5	
>300	36.5	53.4	61.2	61.5	61.7	61.9	61.9	61.9	
>150	36.5	53.4	61.3	61.7	61.9	62.1	62.2	62.2	
>0	36.7	54.5	62.3	63.8	64.6	64.8	64.8	64.7	
TOTAL	204	303	352	355	356	358	359	360	

TOTAL NUMBER OF OBS: 356

PCT FREQ NH <5/8: 33.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.4	4.3	5.3	6.8	6.6	4.8	9.2	7.1	40.8	2.8	606

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

MAY

VALDEZ MARINE AREA
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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	.2	.4	.2	.1	.4	.0	.0	.0	.0	1.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.3
	TOT %	.0	.2	.4	.2	.1	.4	.1	.0	.0	.0	.1	1.6
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.1	.3	.4	.0	.0	.0	.0	.0	.0	.9	.9
2<5	PCP	.1	1.0	2.3	1.5	.3	.1	.0	.0	.0	.0	3.3	3.3
	NO PCP	.0	.2	1.1	.9	.1	.2	.1	.0	.0	.0	3.2	3.2
	TOT %	.1	1.1	3.4	2.4	.4	.3	.1	.0	.0	.0	6.5	6.5
5<10	PCP	.1	1.5	4.2	1.4	.4	.2	.0	.0	.0	.3	8.1	8.1
	NO PCP	.4	1.0	3.3	2.3	1.2	1.2	1.0	.2	.0	.7	11.3	11.3
	TOT %	.5	2.5	7.4	3.9	1.5	1.4	1.0	.2	.0	1.0	19.4	19.4
10+	PCP	.1	.8	1.3	.9	.2	.0	.0	.1	.0	.4	4.0	4.0
	NO PCP	4.7	7.5	11.2	8.8	6.2	6.5	8.7	4.1	.0	7.4	63.0	63.0
	TOT %	4.8	8.3	12.4	9.8	6.4	6.5	8.7	4.2	.0	7.8	67.0	67.0
TOT OBS												678	
TOT PCT		3.4	12.4	23.9	16.7	8.6	8.9	10.0	4.3	.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	.1	.0	.0	.1	.3	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.2	.3	.1	.1	.4	.0	.0	.0	.0	1.2	1.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.4	.2	.1	.4	.1	.0	.0	.0	.1	1.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.1	.3	.4	.0	.0	.0	.0	.0	.0	.9	.9
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.7	.7
	4-10	.0	.3	.0	.2	.2	.0	.0	.0	.0	.0	.9	.9
	11-21	.1	.3	1.8	1.1	.0	.1	.1	.0	.0	.0	3.5	3.5
	22+	.0	.8	1.6	1.0	.3	.0	.0	.0	.0	.0	3.5	3.5
	TOT %	.1	1.1	3.4	2.4	.6	.3	.1	.0	.0	.0	6.7	6.7
5<10	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.0	1.2	1.2
	4-10	.3	1.2	1.3	1.1	.8	1.2	.7	.2	.0	.0	6.8	6.8
	11-21	.1	1.0	3.6	1.6	.8	.2	.3	.0	.0	.0	7.6	7.6
	22+	.1	.3	2.2	1.2	.1	.0	.0	.0	.0	.0	4.0	4.0
	TOT %	.5	2.5	7.4	3.9	1.5	1.4	1.0	.2	.0	1.0	19.6	19.6
10+	0-3	1.0	1.1	1.2	.7	.9	.7	.7	.3	.0	7.8	14.4	14.4
	4-10	2.6	4.3	3.7	4.7	3.7	3.9	3.2	2.2	.0	.0	32.3	32.3
	11-21	1.1	2.4	4.2	3.6	1.8	1.7	2.3	1.0	.0	.0	18.4	18.4
	22+	.1	.3	1.4	.8	.0	.2	.4	.3	.0	.0	3.7	3.7
	TOT %	4.8	8.3	12.5	9.7	6.4	6.4	6.7	4.2	.0	7.8	67.0	67.0
TOT OBS												680	
TOT PCT		3.4	12.3	24.0	16.7	8.6	8.9	10.0	4.4	.0	9.6	100.0	

MAY

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00603	3.3	.7	6.0	10.0	18.7	16.7	3.3	3.3	2.7	.0	64.7	35.3	150
06609	2.2	.0	5.1	10.9	23.4	9.5	2.9	2.9	.0	.0	56.9	43.1	137
12615	3.1	.6	5.7	8.2	24.5	11.3	3.8	3.8	2.3	.0	63.5	36.5	159
18621	3.7	.7	3.7	16.4	17.9	15.7	5.2	2.2	1.5	.0	67.2	32.8	134
TOT	18	3	30	65	123	77	22	18	10	0	366	214	580
PCT	3.1	.5	5.2	11.2	21.2	13.3	3.8	3.1	1.7	.0	63.1	36.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	2.7	.5	1.1	9.7	22.0	64.0	186
06609	.6	.0	.6	6.2	22.4	70.2	161
12615	2.2	.0	1.1	5.4	17.9	73.4	184
18621	.6	.6	.6	13.9	14.6	69.6	158
TOT	11	2	6	60	133	477	689
PCT	1.6	.3	.9	8.7	19.3	69.2	100.0

TABLE 12

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

HOUR (GMT)	<150 <3000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	2.8	10.3	28.3	37.2	34.5	145
06609	1.5	6.9	20.8	38.5	40.8	130
12615	2.6	9.2	20.4	46.1	39.6	152
18621	3.1	7.8	28.7	40.3	31.0	129
TOT	14	48	136	226	194	556
PCT	2.5	8.6	24.5	40.6	34.9	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	.2	.0	.0	.0	.0	1	.2
59/59	.0	.0	.0	.2	1.1	.9	.5	.0	12	2.7
50/54	.0	.0	.2	2.1	1.4	5.3	1.6	.0	48	11.0
45/49	.0	.5	.0	.0	1.6	5.5	11.4	13.5	142	32.5
40/44	.0	.0	.0	.7	1.8	7.1	15.3	17.8	187	42.8
35/39	.0	.0	.0	.0	.2	.7	2.3	6.4	42	9.6
30/34	.0	.0	.0	.0	.0	.5	.2	.5	5	1.1
TOTAL	0	2	1	7	30	70	153	174	457	100.0
PCT	.0	.5	.2	1.6	6.9	16.0	35.0	39.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
.2	.1	.6	.1	.0	.2	.9	.1	.0	.7
.9	1.3	2.1	1.7	.2	1.4	1.3	.8	.0	1.4
1.1	3.5	6.6	6.0	3.5	3.0	2.6	1.1	.0	3.0
2.1	6.4	13.2	6.6	5.5	1.5	3.5	1.7	.0	2.3
.8	2.1	3.0	2.4	.5	.1	.0	.0	.0	.7
.2	.3	.4	.1	.0	.2	.0	.0	.0	.0
5.3	13.7	26.1	16.8	9.8	6.4	8.2	3.7	.0	10.1

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	61	58	55	45	37	35	33	45.7	151
06609	58	57	51	44	38	36	35	44.7	156
12615	55	53	50	42	36	34	33	42.8	181
18621	59	54	50	45	37	34	32	44.5	157
TOT	61	57	52	44	37	34	32	44.4	675

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	3.1	16.3	24.5	29.6	26.5	81	98
06609	.0	.8	3.3	12.5	37.3	43.8	88	120
12615	.0	2.6	5.3	13.2	42.1	36.8	86	114
18621	.0	2.8	3.7	14.7	31.2	47.7	87	109
TOT	0	10	30	70	156	175	85	441

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

MAY

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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	TOT	% FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
14/16	.0	.0	.0	.0	.0	.0	.4	.2	3	.0	.6
11/13	.0	.0	.0	.4	.8	1.0	.2	.0	12	.0	2.4
9/10	.0	.0	.2	.0	1.2	.4	.0	.0	9	.0	1.8
7/8	.0	.4	.0	1.2	.4	.6	.6	.0	16	.6	2.6
6	.0	.0	.2	.6	.2	.0	.0	.0	5	.0	1.0
5	.0	.0	.6	2.2	1.6	.2	.2	.0	24	.2	4.6
4	.0	.2	1.8	2.2	1.2	.2	.0	.0	28	.0	5.6
3	.0	.0	2.2	2.2	1.2	.2	.0	.0	29	.2	5.8
2	.0	.4	3.4	4.8	.8	.2	.0	.0	48	.2	9.3
1	.0	1.0	3.6	2.2	.4	.0	.0	.0	41	.0	8.1
0	.0	1.0	3.8	4.0	1.0	.2	.0	.0	59	.4	11.5
-1	.0	2.0	3.5	1.6	.2	.2	.0	.0	60	.4	11.5
-2	.2	2.6	5.6	2.6	.0	.0	.0	.0	35	.2	10.5
-3	.2	2.2	3.6	.8	.0	.0	.0	.0	34	.0	6.7
-4	.2	3.2	1.8	1.8	.2	.0	.0	.0	36	.0	7.1
-5	1.2	1.6	.6	1.0	.0	.0	.0	.0	22	.4	4.0
-6	.8	.8	.4	.0	.0	.0	.0	.0	9	.0	1.8
-7/-8	.4	1.0	1.0	.0	.2	.0	.0	.0	13	.0	2.6
-9/-10	.4	.0	.2	.2	.0	.0	.0	.0	5	.2	.8
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	17	83	193	47	17	7	1	1	304	2.4	49.2
PCT	3.4	16.5	30.3	27.6	9.3	3.4	1.4	.2	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.5	.5	.3	.0	.0	.0	1.3	.2	1.4	.0	.0	.0	.0	.0	1.6	
1-2	.0	.2	.0	.0	.0	.0	.2	.0	2.8	2.3	.0	.0	.0	.0	5.1	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	1.3	1.4	.3	.0	.0	.0	3.0	
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.7	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	1.1	.3	.2	.0	.0	2.1	.2	5.5	4.4	.7	.0	.0	.0	10.8	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	2.3	.0	.0	.0	.0	2.5	.0	2.5	.3	.0	.0	.0	.0	2.8	
1-2	.2	3.8	4.3	.0	.0	.0	8.5	.4	1.5	1.7	.0	.0	.0	.0	3.6	
3-4	.0	.9	3.6	1.1	.0	.0	5.7	.1	2.2	3.9	.6	.0	.0	.0	6.8	
5-6	.0	.2	2.0	.6	.3	.0	3.2	.0	.9	.6	.4	.1	.0	.0	2.0	
7	.0	.3	.9	1.3	.0	.0	1.9	.0	.3	.7	.3	.3	.0	.0	1.6	
8-9	.0	.3	.9	.7	.3	.0	2.2	.0	.3	.1	.7	.0	.0	.0	1.1	
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.7	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	6.0	11.3	5.2	1.6	.3	26.7	.5	7.7	7.8	2.0	.5	.0	.0	18.0	

PERIOD: (OVER-ALL) 1963-1976

MAY
TABLE 18 (CONT)

VALDEZ MARINE AREA
59.8N 146.3W

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	2.2	.0	.0	.0	.0	2.5	.0	1.6	.0	.0	.0	.0	.0
1-2	.0	1.1	1.0	.0	.0	.0	2.6	.3	2.0	.8	.0	.0	.0	.0
3-4	.2	.8	.8	.2	.0	.0	2.1	.0	.7	.4	.0	.0	.0	.0
5-6	.0	.7	.0	.2	.2	.0	1.0	.0	.7	1.0	.0	.0	.0	.0
7	.0	.0	.2	.3	.0	.0	.6	.0	.0	.4	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.3	.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	.3	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	4.8	2.6	.6	.2	.0	8.9	.3	3.4	2.6	.3	.0	.0	8.7

HGT	W						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.2	.0	.0	.0	.0	.2
1-2	.0	3.1	1.1	.0	.0	.0	4.2	.3	1.9	.7	.0	.0	.0	3.0
3-4	.0	.2	2.0	.0	.0	.0	2.2	.0	.7	2.0	.0	.0	.0	1.0
5-6	.0	.2	.3	.0	.0	.0	.5	.0	.1	.7	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	3.9	.0	.0	.0	8.8	.3	2.9	1.6	.0	.3	.0	5.2 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	11.8	12.1	.7	.0	.0	.0	24.6	
1-2	1.3	16.4	12.8	.0	.0	.0	30.5	
3-4	.3	7.2	12.5	2.3	.0	.0	22.3	
5-6	.0	3.0	4.6	1.6	.7	.0	9.8	
7	.0	.7	1.6	2.0	.8	.0	4.6	
8-9	.0	1.0	2.0	1.3	.7	.0	4.9	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.0	.7	.7	.0	1.3	
13-16	.0	.0	.0	.3	.0	.3	.7	
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	13.4	40.3	34.1	9.2	2.6	.3	100.0	305

PERIOD: (OVER-ALL) 1952-1976

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	14.3	12.1	7.2	1.3	1.3	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	3
6-7	.8	3.6	7.6	4.8	2.9	3.0	1.0	.6	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	131	5
8-9	.2	1.0	4.6	2.5	1.5	.4	.2	.8	.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	62	5
10-11	.0	.8	.6	.6	.4	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	7
12-13	.0	.0	1.1	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
>13	.0	.0	.0	.4	.0	.4	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4	11
INDBT	8.0	1.9	1.5	.8	.0	.2	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	2
TOTAL	75	113	150	89	33	32	9	7	9	1	7	0	0	0	0	0	0	0	0	525	4
PCT	14.2	21.5	28.6	17.0	6.3	6.1	1.7	1.3	1.7	.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1962-1976

JUNE

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	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	NO SIG MEA
N	15.8	.0	3.3	.0	.0	.0	.0	21.1	3.9	.0	.0	.0	.0	.0	75.0
NE	10.0	.5	10.0	.0	.0	.0	.0	17.5	13.3	.0	5.7	.0	.0	.0	62.5
E	11.3	3.4	9.5	.0	.0	.0	.0	20.8	20.8	.8	4.8	1.3	.0	.0	51.5
SE	5.5	.3	8.5	.0	.0	.0	.0	14.2	14.5	.0	6.3	1.4	1.1	.0	62.6
S	8.6	.0	7.9	.0	.0	.0	.0	14.5	9.6	.0	1.8	.0	1.8	.0	72.4
SW	7.6	.0	2.9	.0	.0	.0	.0	10.5	1.8	.0	4.4	1.5	.4	.0	81.3
W	.0	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.7	.0	.7	2.0	94.8
NW	.0	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	1.4	.0	.0	.0	97.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.7	.0	5.6	.0	.0	.0	.0	7.4	3.7	.0	7.4	.0	1.9	.0	79.6
TOT PCT	6.6	.8	6.4	.0	.0	.0	.0	12.6	9.6	.2	4.0	.7	.7	.3	71.8
TOT OBS:	593														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	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	NO SIG MEA
0000Z	3.0	1.5	3.0	.0	.0	.0	.0	7.4	8.9	.0	2.2	.0	1.5	.0	80.0
0620Z	7.6	1.4	7.6	.0	.0	.0	.0	15.9	7.6	.0	6.2	.0	.0	.0	70.3
1261Z	7.1	.0	5.1	.0	.0	.0	.0	11.5	11.5	.6	2.6	1.3	.6	.6	71.2
1862Z	8.0	.6	9.8	.0	.0	.0	.0	13.3	9.8	.0	5.5	1.2	.6	.6	66.9
TOT PCT	6.5	.8	6.5	.0	.0	.0	.0	12.7	9.5	.2	4.2	.7	.7	.3	71.8
TOT OBS:	599														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	2.2	.3	.0	.0	.0	.0	3.2	6.4	3.5	.0	2.2	.0	3.8	.0	2.5	50.0
NE	.5	4.5	2.6	1.0	.2	.0	.0	8.8	11.9	6.2	.0	6.5	.0	9.9	.0	12.4	.0
E	1.7	6.8	9.1	3.6	.8	.0	.0	21.9	14.7	17.9	.0	22.6	.0	21.8	.0	23.2	.0
SE	.3	8.5	6.4	.3	.0	.0	.0	13.5	10.7	17.7	.0	14.5	.0	18.2	.0	12.1	.0
S	1.7	6.1	1.8	.2	.0	.0	.0	9.7	8.1	10.1	.0	10.2	.0	8.0	.0	10.8	.0
SW	.7	7.0	3.6	.2	.0	.0	.0	11.6	9.9	17.2	.0	14.5	.0	8.9	.0	6.8	.0
W	1.9	8.9	5.9	.3	.2	.0	.0	17.3	10.3	14.2	.0	19.7	.0	15.1	.0	19.9	.0
NW	.5	1.7	.8	.0	.0	.0	.0	3.0	8.6	1.3	.0	4.4	.0	2.9	.0	2.5	50.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.0							9.0	.0	11.9	.0	3.4	.0	11.3	.0	7.6	.0
TOT OBS	102	273	182	33	7	0	597	10.1		134	0	147	0	157	0	157	2
TOT PCT	17.1	45.7	30.5	3.5	1.2	.0	100.0			100.0	.0	100.0	.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	18
N	2.1	.9	.1	.0	.0	.0	3.2	6.4	3.5	2.2	3.8	3.1		
NE	2.6	4.3	1.3	.5	.0	.0	8.8	11.9	6.2	6.5	9.9	12.3		
E	3.6	10.3	5.4	2.5	.0	.0	21.9	14.7	17.9	22.6	21.8	24.8		
SE	3.4	10.3	1.6	.2	.0	.0	13.5	10.7	17.7	14.5	18.2	11.9		
S	3.9	5.4	.3	.2	.0	.0	9.7	8.1	10.1	10.2	8.0	10.7		
SW	3.8	6.2	1.4	.2	.0	.0	11.6	9.9	17.2	14.5	8.9	6.8		
W	3.2	9.7	2.1	.3	.0	.0	17.3	10.3	14.2	19.7	15.1	19.7		
NW	1.3	1.5	.3	.0	.0	.0	3.0	8.6	1.3	4.4	2.9	3.1		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	9.0						9.0	.0	11.9	3.4	11.3	7.3		
TOT OBS	208	290	76	23	0	597	10.1		134	147	157	159		
TOT PCT	34.8	48.6	12.7	3.9	.0	100.0			100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1962-1976
(COVER-ALL) 1942-1976

JUNE

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	11.9	8.2	41.8	30.6	7.5	.0	.0	10.0	100.0	134
06009	5.4	7.5	49.7	32.0	4.1	1.4	.0	10.4	100.0	147
12015	11.5	8.3	44.6	30.6	3.8	1.3	.0	9.4	100.0	157
18021	7.5	8.2	46.5	28.9	6.9	1.9	.0	10.6	100.0	159
TOT	94	48	273	192	33	7	0	10.1		397
PCT	9.0	8.0	45.7	30.5	5.5	1.2	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	1.6	1.7		7.1
NE	.6	.6	2.6	4.7		6.6
E	.5	.6	4.3	15.8		7.4
SE	.2	.0	1.8	12.6		7.7
S	.4	1.2	2.1	6.2		6.7
SW	1.8	.8	3.0	6.4		6.2
W	2.5	2.5	3.6	9.3		5.9
NW	.9	.3	.8	.8		5.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	1.1	3.4	4.2	524	6.2
TOT OBS	42	37	122	323		6.7
TOT PCT	8.0	7.1	23.3	61.6	100.0	

TABLE 6

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

DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.2	.6	.5	.4	.5	.2	.0	.0	.0	.9	
NE	.2	.2	.4	1.8	1.6	1.9	.0	.0	.0	.0	2.3	
E	1.0	.4	.8	4.0	5.3	5.7	.6	.3	.0	.0	3.1	
SE	.8	.6	.2	2.9	4.5	3.5	.7	.5	.0	.0	.9	
S	.2	.2	.1	1.3	3.1	.9	1.0	.6	.1	.0	2.4	
SW	.6	.2	.6	1.2	2.9	1.7	1.0	.1	.1	.0	3.7	
W	.2	.2	.2	2.2	3.2	3.6	1.0	.2	.3	.5	6.3	
NW	.0	.0	.0	.2	.4	.1	.0	.2	.6	.1	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.2	.2	1.7	1.3	1.3	.8	.4	.0	.0	3.6	
TOT OBS	17	11	16	83	119	102	27	12	4	3	190	524
TOT PCT	3.2	2.1	3.1	15.8	22.7	19.3	3.2	2.3	.8	.6	24.8	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	< DR >10	= DR >5	= DR >2	= DR >1	= DR >1/2	= DR >1/4	= DR >50YD	= DR >0
= DR >6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= DR >5000	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.6
= DR >3500	8.0	8.7	8.7	8.7	8.7	8.7	8.7	8.7
= DR >2000	21.6	27.1	27.8	28.0	28.0	28.0	28.0	28.0
= DR >1000	37.9	48.3	50.2	50.4	50.6	50.6	50.6	50.6
= DR >600	46.2	61.2	65.3	66.1	66.3	66.3	66.7	66.7
= DR >300	47.5	64.0	68.4	69.1	69.3	69.3	69.7	69.7
= DR >150	48.1	65.9	70.6	71.4	71.6	71.6	72.0	72.0
= DR >0	48.3	67.0	72.3	73.7	74.4	74.8	75.4	75.4
TOTAL	255	334	382	389	393	395	398	398

TOTAL NUMBER OF OBS: 528

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	
4.3	3.1	5.8	5.8	6.0	3.4	8.2	10.9	49.3	1.3	552

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1942-1976

JUNE

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.3	.8
	TOT %	.0	.0	.0	.0	.0	.2	.3	.0	.0	.0	.3	.8
1/2<1	PCP	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.2	.1	.4	.0	.0	.0	.0	.0	.0	.0	.7
1<2	PCP	.0	.2	.1	.2	.1	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.2	.8
	TOT %	.0	.2	.1	.5	.1	.3	.0	.0	.0	.0	.2	1.5
2<5	PCP	.2	.5	2.0	.4	.3	.0	.0	.0	.0	.0	.3	3.3
	NO PCP	.2	.2	.8	.9	.1	.1	.3	.0	.0	.3	.3	2.9
	TOT %	.3	.7	2.7	1.5	.4	.1	.3	.0	.0	.3	.6	6.4
5<10	PCP	.3	.3	2.1	.5	.5	.5	.0	.0	.0	.3	.3	4.7
	NO PCP	.2	2.4	6.2	2.8	1.3	1.0	1.4	.0	.0	.8	.8	16.2
	TOT %	.3	2.9	8.3	3.3	1.8	1.5	1.4	.0	.0	1.2	.3	20.9
10+	PCP	.2	.2	.6	.7	.5	.7	.3	.0	.0	.3	.3	3.3
	NO PCP	2.2	4.8	10.2	9.0	6.7	8.8	14.8	2.9	.0	6.7	66.1	
	TOT %	2.4	5.0	10.8	9.7	7.3	9.5	15.1	3.0	.0	7.1	69.6	
TOT OBS		3.2	6.9	22.1	15.4	9.6	11.6	17.1	3.0	.0	9.1	100.0	593
TOT PCT													

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	.2	.0	.0	.3	.7	
	4-10	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.2	.3	.0	.0	.0	.3	1.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.1	.4	.0	.0	.0	.0	.0	.0	.0	.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.0	.1	.2	.1	.2	.0	.0	.0	.0	.7	
	11-21	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.3	
	22+	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.1	.5	.1	.3	.0	.0	.0	.0	.2	1.3
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.3	.2	.4	.5	.1	.0	.0	.0	.0	.0	1.7	
	11-21	.0	.4	1.8	.8	.1	.0	.3	.0	.0	.0	3.2	
	22+	.0	.0	.7	.2	.2	.0	.0	.0	.0	.0	1.0	
	TOT %	.3	.7	2.7	1.5	.4	.1	.3	.0	.0	.0	.3	6.4
5<10	0-3	.0	.2	.2	.0	.2	.0	.1	.0	.0	1.2	1.9	
	4-10	.5	1.3	1.8	1.3	1.0	1.0	.8	.0	.0	.0	7.4	
	11-21	.0	.5	4.0	1.9	.7	.5	.7	.0	.0	.0	8.2	
	22+	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	3.4	
	TOT %	.5	2.9	8.3	3.3	1.8	1.5	1.4	.0	.0	.0	1.2	20.9
10+	0-3	.7	.3	1.4	.3	1.3	.7	1.6	.3	.0	7.1	14.0	
	4-10	1.4	2.9	4.3	6.0	4.9	5.6	7.9	1.7	.0	.0	33.0	
	11-21	.3	1.4	3.7	3.2	1.0	2.9	3.1	.7	.0	.0	18.4	
	22+	.0	.3	1.2	.1	.0	.2	.3	.0	.0	.0	2.2	
	TOT %	2.4	5.0	10.8	9.7	7.2	9.5	13.0	2.9	.0	.0	7.1	69.3
TOT OBS		3.2	6.9	22.1	15.4	9.8	11.6	17.0	3.0	.0	9.1	100.0	594
TOT PCT													

JUNE

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1942-1976

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00&03	2.4	.8	3.3	10.6	29.3	14.6	5.7	3.3	.8	.0	70.7	29.3	123
06&09	3.0	1.5	2.2	13.4	20.1	18.7	4.5	1.3	.7	.7	66.4	33.6	134
12&15	2.1	3.6	4.3	20.7	23.6	17.9	5.0	2.9	.7	1.4	82.1	17.9	140
18&21	5.8	2.9	2.2	18.0	16.5	24.5	5.0	1.4	.7	.0	77.0	23.0	139
TOT	18	12	16	85	119	102	27	12	4	3	398	138	536
PCT	3.4	2.2	3.0	15.9	22.2	19.0	5.0	2.2	.7	.6	74.3	25.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
00&03	.0	1.5	3.7	3.0	15.6	76.3	133
06&09	.7	.7	.7	4.8	17.9	73.2	145
12&15	1.9	.0	1.3	6.4	28.0	62.4	157
18&21	1.8	.6	.6	10.4	20.9	65.6	163
TOT	7	4	9	38	125	417	600
PCT	1.2	.7	1.5	6.3	20.8	69.5	100.0

TABLE 12

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

HR	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <3/8 AND 5+	TOTAL
00&03	2.5	7.4	19.7	51.6	28.7	122
06&09	3.0	6.8	22.0	45.5	32.6	132
12&15	2.1	10.7	33.6	49.3	17.1	140
18&21	6.0	11.9	33.6	47.0	19.4	134
TOT	18	49	145	255	128	528
PCT	3.4	9.3	27.5	48.3	24.2	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	PCT
70/74	.0	.0	.0	.5	.0	.0	.0	.0	2	.5
63/69	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
60/64	.0	.0	.0	.0	.5	.7	.2	.0	6	1.4
53/59	.0	.0	.0	.0	2.2	2.4	6.3	1.4	51	12.3
50/54	.0	.0	.0	.0	1.0	6.7	18.6	12.5	161	38.8
43/49	.0	.0	.0	.2	.2	3.1	14.2	20.2	158	38.1
40/44	.0	.0	.0	.0	.0	.7	1.2	6.3	34	8.2
33/39	.0	.0	.0	.0	.0	.0	.0	.5	2	.5
TOTAL	0	0	0	3	16	58	168	170	415	100.0
PCT	.0	.0	.0	.7	3.9	14.0	40.5	41.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0
63/69	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
60/64	.0	.0	.0	.0	.0	.5	.0	.7	.0	.2
53/59	.5	1.2	1.4	1.1	1.6	1.6	2.7	.6	.0	1.7
50/54	1.0	2.3	3.2	6.5	3.6	4.0	7.7	1.3	.0	4.3
43/49	2.0	4.0	9.0	5.8	4.3	4.1	5.5	.5	.0	2.7
40/44	.2	.4	2.1	1.9	1.0	.7	1.1	.0	.0	.7
33/39	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0
TOTAL	3.7	8.2	20.7	15.8	10.5	11.0	17.0	3.4	.0	9.6

TABLE 15

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

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
00&03	70	61	60	50	45	42	41	51.3	134
06&09	70	65	56	50	44	42	39	49.9	141
12&15	59	58	53	48	43	41	39	48.3	153
18&21	62	61	56	50	45	41	40	50.0	164
TOT	70	61	57	50	44	41	39	49.8	592

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
00&03	.0	2.2	9.9	22.0	33.0	33.0	83	91		
06&09	.0	.9	2.7	11.8	45.5	39.1	87	110		
12&15	.0	.9	.0	9.3	36.4	33.3	90	107		
18&21	.0	.0	4.5	13.4	45.5	36.6	87	112		
TOT	0	4	17	58	170	171	87	420		

JUNE

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1942-1976

TABLE 17

VALDEZ MARINE AREA
59.8N 146.2W

PCT 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	TOT	W FOG	MO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.5	2	.0	.5
14/16	.0	.0	.0	.0	.0	.2	.0	.0	.0	1	.0	1.2
11/13	.0	.0	.0	.0	.0	1.0	.2	.0	.0	5	.0	1.2
9/10	.0	.0	.0	1.0	1.7	.2	.2	.0	.0	11	.0	2.6
7/8	.0	.0	1.0	1.7	1.2	.2	.0	.0	.0	17	.0	4.0
6	.0	.0	.2	.7	1.9	.2	.0	.0	.0	18	.5	2.6
5	.0	.0	2.6	2.1	2.1	1.0	.0	.0	.0	33	1.0	6.9
4	.0	.0	.7	2.9	.7	.0	.0	.0	.0	18	.7	3.6
3	.0	.0	1.0	1.9	2.9	.0	.0	.0	.0	24	.2	5.3
2	.0	.7	3.3	3.6	1.9	.2	.0	.0	.0	41	.7	9.0
1	.0	.7	3.1	3.6	1.4	.0	.0	.0	.0	37	1.0	7.9
0	.0	.0	3.3	3.3	.5	.5	.0	.0	.0	32	.5	7.1
-1	.0	1.7	5.2	3.1	.2	.5	.0	.0	.0	45	.5	10.2
-2	.0	1.4	3.8	4.0	1.4	.2	.0	.0	.0	46	.2	10.7
-3	.0	1.7	1.9	3.1	.5	.2	.0	.0	.0	31	.2	7.1
-4	.2	.2	2.1	1.7	1.4	.0	.0	.0	.0	24	.0	5.7
-5	.0	.5	1.2	.2	1.4	.0	.0	.0	.0	14	.2	3.1
-6	.0	.0	1.4	1.0	.2	.0	.0	.0	.0	11	.0	2.6
-7/-8	.0	.2	.7	1.0	.2	.0	.0	.0	.0	9	.0	2.1
-9/-10	.0	.3	.2	.3	.0	.0	.0	.0	.0	5	.0	1.2
-11/-13	.0	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	32	133	152	77	19	2	0	2	420	24	396
PCT	.2	7.6	32.1	36.2	18.3	4.5	.5	.0	.5	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47
<1	.4	.4	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0
1-2	.8	1.9	.0	.0	.0	2.7	.0	2.1	1.1	.0	.0	.0	3.2
3-4	.0	.0	.0	.0	.0	.0	.1	1.9	2.0	.6	.0	.0	4.5
5-6	.0	.0	.3	.0	.0	.3	.0	.4	.4	.1	.0	.0	.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	2.3	.3	.0	.0	3.8	.5	4.7	3.6	1.8	.1	.0	10.7

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47
<1	.7	.0	.0	.0	.0	.7	.1	1.6	.4	.0	.0	.0	2.1
1-2	.6	3.3	2.9	.0	.0	6.9	.2	3.4	1.2	.0	.0	.0	4.7
3-4	.7	2.0	4.5	1.4	.0	8.6	.0	1.4	1.0	.0	.0	.0	2.4
5-6	.0	.4	3.1	1.8	.0	5.1	.1	1.0	2.6	.1	.0	.0	3.8
7	.0	.0	1.1	.3	.4	2.2	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.8	.7	.0	1.5	.0	.0	.8	.0	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.4	.7	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	6.1	12.4	5.2	1.1	20.8	.4	7.3	6.7	.1	.0	.0	14.3

PERIOD: (OVER-ALL) 1963-1976

JUNE
TABLE 18 (CONT)

VALDEZ MARINE AREA
59.8M 146.2M

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

HGT	S						PCT	SW						PCT		
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5
1-2	.4	4.3	.4	.0	.0	.0	9.1	.4	2.8	.2	.0	.0	.0	.0	.0	3.4
3-4	1.1	.9	.8	.0	.0	.0	2.8	.1	1.5	2.0	.0	.0	.0	.0	.0	3.6
5-6	.3	.3	.7	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.8	5.5	2.3	.0	.0	.0	9.6	.6	9.0	2.2	.0	.0	.0	.0	.0	7.8

HGT	M						PCT	NW						PCT	TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	1.2	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.7	1.6	.0	.0	.0	6.3	.0	.3	.2	.0	.0	.0	.0	.0	.5
3-4	.8	2.3	2.3	.0	.0	.0	5.3	.0	.8	.1	.0	.0	.0	.0	.0	.9
5-6	.0	.7	.4	.0	.0	.0	1.1	.0	.1	.1	.0	.0	.0	.0	.0	.2
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-80	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	8.9	4.6	.0	.0	.0	14.6	.0	1.2	.4	.0	.0	.0	.0	1.6	89.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	12.6	4.0	.4	.0	.0	.0	17.0	
1-2	2.4	22.9	7.5	.0	.0	.0	32.8	
3-4	2.8	10.7	12.6	2.0	.0	.0	28.1	
5-6	.4	3.2	7.5	2.0	.0	.0	13.0	
7	.0	.4	2.0	.8	.4	.0	3.6	
8-9	.0	.0	1.0	1.2	.0	.0	2.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.8	.4	.4	.0	1.6	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.4	.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	
71-80	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.2	41.1	32.4	7.1	1.2	.0	100.0	293

PERIOD: (OVER-ALL) 1952-1976

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	3.0	16.0	18.5	7.8	2.5	1.4	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	218	3	
6-7	.0	1.6	5.0	5.5	2.1	2.5	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	5
8-9	.0	1.4	5.9	1.4	.2	1.4	.7	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	5
10-11	.0	1.4	.2	1.1	.5	.5	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	6
12-13	.0	.0	2.3	1.6	.9	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
>13	.0	.0	.0	.0	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDEX	10.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	0
TOTAL	37	91	139	76	30	26	5	9	1	3	1	0	0	0	0	0	0	0	0	0	0	438	4
PCT	13.0	20.8	31.7	17.4	6.8	5.9	1.1	2.1	.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1963-1976
(OVER-ALL) 1933-1976

VALDEZ MARINE AREA
59.8N 146.5W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	11.7	2.3	6.3	.0	.0	.0	.0	20.3	.0	.0	7.0	.0	.0	.0	72.7
NE	10.6	.3	7.7	.0	.0	.0	.0	17.5	6.2	.0	9.3	.0	.0	.0	67.0
E	14.2	.5	10.8	.0	.0	.0	.0	23.0	5.2	.0	7.3	.0	.5	.0	61.8
SE	6.3	1.1	8.6	.0	.0	.0	.0	16.0	6.0	.0	7.7	.0	1.1	.0	69.1
S	3.6	2.8	1.8	.0	.0	.0	.0	8.2	6.8	.0	7.1	.0	.0	.0	77.9
SW	2.0	.0	2.3	.0	.0	.0	.0	4.1	1.7	.0	6.1	.0	3.5	.0	84.6
W	1.5	.0	3.4	.0	.0	.0	.0	6.2	1.7	.0	11.6	.0	.0	.0	80.4
NW	.0	.0	2.4	.0	.0	.0	.0	2.4	.0	2.4	4.8	.0	2.4	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1	.7	7.5	.0	.0	.0	.0	12.2	.0	.7	10.2	.7	.7	.0	75.3
TOT PCT	6.8	.7	6.8	.0	.0	.0	.0	14.0	3.4	.2	8.4	.1	.8	.0	73.1
TOT OBS:	850														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	7.3	.9	3.0	.0	.0	.0	.0	12.8	3.2	.5	8.3	.0	.9	.0	74.3
0609	4.9	.0	6.4	.0	.0	.0	.0	10.8	4.9	.5	7.8	.5	2.0	.0	73.5
1215	8.5	.4	8.9	.0	.0	.0	.0	17.9	4.9	.0	8.0	.0	.4	.0	68.8
1821	6.5	1.4	6.5	.0	.0	.0	.0	14.0	.9	.0	8.9	.0	.0	.0	76.6
TOT PCT	6.9	.7	6.7	.0	.0	.0	.0	14.0	3.4	.2	8.3	.1	.8	.0	73.3
TOT OBS:	860														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	12	15	18	21	
N	1.2	1.6	.7	.1	.0	.0		3.7	7.6	1.8	.0	6.7	.0	4.5	.0	4.2	.0
NE	1.4	6.1	3.5	.4	.0	.0		11.5	9.6	8.9	25.0	9.9	.0	13.2	.0	14.1	.0
E	1.2	9.7	8.6	2.6	.0	.0		22.1	12.6	20.8	30.0	28.5	.0	22.7	.0	21.5	34.4
SE	1.0	6.2	2.7	.4	.1	.0		10.4	9.4	11.2	25.0	10.6	.0	8.6	.0	10.9	15.6
S	1.4	3.3	1.3	.1	.0	.0		8.3	7.3	9.2	.0	9.0	.0	7.3	.0	8.3	.0
SW	1.4	6.6	1.9	.1	.0	.0		10.1	8.1	14.6	.0	11.0	.0	6.3	.0	8.3	25.0
W	1.5	6.7	3.6	.0	.0	.0		11.8	8.8	11.6	.0	12.5	100.0	12.3	.0	10.0	12.3
NW	.6	3.2	1.0	.0	.0	.0		4.8	7.6	6.1	.0	3.8	.0	3.9	.0	3.3	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	17.4							17.4	.0	16.0	.0	15.8	.0	21.2	.0	17.3	.0
TOT OBS	232	391	200	32	2	0	857		8.0	213	4	202	2	226	0	202	8
TOT PCT	27.1	45.6	23.3	3.7	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.4	1.1	.1	.2	.0		3.7	7.6	1.7	4.7	4.5	4.0
NE	4.1	6.4	.9	.1	.0		11.5	9.6	9.2	9.8	13.2	13.6
E	4.0	12.3	3.0	.7	.0		22.1	12.6	21.3	22.3	22.7	22.0
SE	4.0	3.3	1.0	.1	.0		10.4	9.4	11.4	10.5	8.6	11.1
S	4.3	3.6	.4	.0	.0		8.3	7.3	9.0	8.9	7.3	8.0
SW	4.2	3.5	.4	.0	.0		10.1	8.1	14.3	10.9	6.3	8.9
W	4.9	3.9	1.0	.0	.0		11.8	8.8	11.4	13.4	12.3	10.1
NW	2.6	2.0	.3	.0	.0		4.8	7.6	6.0	3.8	3.9	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	17.4						17.4	.0	15.7	15.7	21.2	16.7
TOT OBS	409	300	78	10	0	857		8.0	217	204	226	210
TOT PCT	47.7	42.0	9.1	1.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1963-1976
(COVER-ALL) 1939-1976

JULY

VALDEZ MARINE AREA
59.8N 146.5W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	15.7	6.0	44.7	30.0	3.7	.0	.0	8.6	100.0	217
0600	15.7	12.3	46.4	23.5	2.0	.0	.0	7.5	100.0	204
1200	21.2	9.7	45.6	19.9	3.5	.0	.0	7.9	100.0	226
1800	16.7	11.0	45.7	20.0	5.7	1.0	.0	8.5	100.0	210
TOT	149	83	391	200	32	2	0	8.0		857
PCT	17.4	9.7	45.6	23.3	3.7	.2	.0	100.0		

TABLE 5

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

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS		
N	.5	.0	.8	2.1	6.7	
NE	1.0	.8	3.1	6.9	6.6	
E	.3	.6	5.8	15.6	7.3	
SE	.4	.4	2.2	7.0	7.1	
S	.6	.6	1.7	4.8	6.6	
SW	2.1	1.0	2.9	4.2	5.6	
W	1.2	2.3	2.9	4.6	5.7	
NW	1.4	.4	1.9	1.4	4.9	
VAR	.0	.0	.0	.0	.0	
CALM	2.8	1.1	3.9	10.5	6.3	
TOT OBS	77	55	188	424	744	6.5
TOT PCT	10.3	7.4	25.3	57.0	100.0	

TABLE 6

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

WIND DIR	PCT FREQ										TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	
N	.3	.0	.6	.7	.8	.0	.0	.0	.2	.0	.7
NE	.8	.5	1.6	2.1	2.1	.4	.5	.0	.0	.1	3.6
E	2.2	.9	2.8	4.7	4.6	2.2	1.2	.0	.3	.0	3.5
SE	.3	.1	1.0	2.7	2.3	.8	.5	.0	.0	.1	2.0
S	.5	.1	.4	1.7	1.8	1.1	.1	.0	.1	.0	1.8
SW	.4	.0	.8	1.2	2.1	.9	.1	.1	.0	.1	4.5
W	.8	.2	1.1	1.0	1.2	1.3	.3	.1	.0	.0	3.1
NW	.0	.0	.7	.4	.4	.3	.0	.0	.0	.0	2.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.4	1.3	2.7	2.3	2.8	1.7	.0	.1	.0	5.1
TOT OBS	53	17	77	128	131	73	36	2	6	3	216
TOT PCT	7.1	2.3	10.3	17.2	17.6	10.1	4.8	.3	.8	.4	29.0

TABLE 7

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

CEILING (FEET)	VSBY (NN)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
>3500	3.5	6.3	6.3	6.3	6.3	6.3	6.3	6.3
>2000	14.6	16.2	16.6	16.6	16.7	16.7	16.7	16.7
>1000	27.4	32.2	34.2	34.3	34.3	34.3	34.3	34.3
>600	35.9	47.7	51.0	51.3	51.3	51.3	51.3	51.3
>300	39.1	55.3	61.0	61.4	61.4	61.4	61.4	61.4
>150	39.4	56.3	62.9	63.7	63.7	63.7	63.7	63.7
>0	39.5	56.6	64.8	66.5	67.8	68.5	70.0	70.8
TOTAL	296	424	485	498	508	513	524	530

TOTAL NUMBER OF OBS: 749

PCT FREQ NH <5/8: 29.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	6.0	6.0	6.1	5.2	6.0	4.2	9.6	8.8	42.1	5.9	783

PERIOD: (PRIMARY) 1963-1976
(OVER-ALL) 1933-1976

JULY

VALDEZ MARINE AREA
59.8N 146.5W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.1	.3	.0	.0	.4	.5	.0	.0	1.2	2.3	
	TOT %	.0	.1	.6	.1	.0	.4	.5	.0	.0	1.2	2.8	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.3	.1	.3	.1	.4	.0	.2	.0	.0	.1	1.4	
	TOT %	.3	.1	.3	.2	.4	.0	.2	.0	.0	.1	1.5	
1<2	PCP	.0	.0	.6	.1	.0	.0	.1	.0	.0	.1	.9	
	NO PCP	.0	.1	.2	.1	.0	.0	.1	.0	.0	.1	.7	
	TOT %	.0	.1	.8	.2	.0	.0	.2	.0	.0	.2	1.6	
2<5	PCP	.3	1.1	2.1	.5	.0	.1	.1	.0	.0	.9	5.2	
	NO PCP	.1	.5	1.4	.7	.8	.1	.6	.0	.0	.1	4.2	
	TOT %	.4	1.6	3.5	1.2	.8	.2	.7	.0	.0	1.1	9.4	
5<10	PCP	.4	.8	2.1	.7	.1	.2	.3	.1	.0	.8	5.6	
	NO PCP	.0	2.5	3.8	1.3	1.1	1.1	1.2	.9	.0	1.8	14.2	
	TOT %	1.0	3.3	5.9	2.0	1.2	1.3	1.6	1.0	.0	2.6	19.9	
10+	PCP	.1	.0	.5	.2	.5	.1	.2	.1	.0	.4	2.0	
	NO PCP	2.0	6.1	10.5	6.4	5.4	8.3	8.5	3.7	.0	11.8	62.7	
	TOT %	2.1	6.1	11.0	6.6	5.9	8.3	8.7	3.9	.0	12.1	64.7	
TOT OBS												850	
TOT PCT		3.8	11.4	22.1	10.3	8.3	10.1	11.9	4.9	.0	17.3	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	.1	.0	.0	.0	.0	.0	.0	.0	1.3	
	4-10	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0	1.1	
	11-21	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.6	.1	.0	.4	.5	.0	.0	.0	1.2	2.8
1/2<1	0-3	.3	.1	.0	.0	.1	.0	.0	.0	.0	.1	.6	
	4-10	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	.3	.1	.3	.2	.4	.0	.2	.0	.0	.1	1.5	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.4	
	4-10	.0	.0	.3	.1	.0	.0	.1	.0	.0	.0	.6	
	11-21	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.1	.8	.2	.0	.0	.2	.0	.0	.2	1.6	
2<5	0-3	.1	.1	.1	.1	.1	.0	.0	.0	.0	1.1	1.6	
	4-10	.1	.9	.6	.6	.4	.1	.6	.0	.0	.0	3.8	
	11-21	.2	.5	1.9	.3	.2	.0	.1	.0	.0	.0	3.3	
	22+	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.4	1.6	3.5	1.3	.8	.2	.7	.0	.0	1.1	9.6	
5<10	0-3	.2	.2	.2	.0	.2	.1	.1	.1	.0	2.6	3.9	
	4-10	.4	1.7	2.1	1.1	.8	1.1	.8	.8	.0	.0	8.4	
	11-21	.2	1.0	2.5	.9	.2	.1	.8	.2	.0	.0	6.0	
	22+	.1	.4	1.0	.0	.0	.0	.0	.0	.0	.0	1.5	
	TOT %	1.0	3.3	5.9	2.0	1.2	1.3	1.6	1.0	.0	2.6	19.8	
10+	0-3	.6	.9	.8	.8	.9	1.3	1.3	.5	.0	12.2	19.3	
	4-10	1.1	3.4	3.9	4.4	4.0	5.0	3.1	2.6	.0	.0	31.4	
	11-21	.3	1.8	4.1	1.3	.8	1.8	2.2	.8	.0	.0	13.1	
	22+	.1	.0	.2	.1	.1	.1	.0	.0	.0	.0	.7	
	TOT %	2.1	6.1	11.0	6.6	5.9	8.3	8.7	3.8	.0	12.2	64.6	
TOT OBS												850	
TOT PCT		3.8	11.4	22.1	10.4	8.2	10.1	11.8	4.8	.0	17.4	100.0	

JULY

PERIOD: (PRIMARY) 1963-1976
(OVER-ALL) 1935-1976

VALDEZ MARINE AREA
59.8N 146.5W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00403	5.6	1.3	10.3	17.4	19.5	8.2	5.1	.0	.0	.5	68.2	31.8	195
06409	6.1	3.4	8.4	16.8	14.3	10.1	4.5	1.1	1.1	.0	69.9	34.1	179
12415	9.3	2.4	9.8	17.6	17.6	9.8	5.4	.0	1.0	.5	79.2	26.8	205
18421	6.6	1.6	12.0	15.3	17.5	13.1	3.8	.0	1.1	.5	71.6	28.4	183
TOT	53	17	77	128	132	78	36	2	6	3	532	230	762
PCT	7.0	2.2	10.1	16.8	17.3	10.2	4.7	.3	.8	.4	69.8	36.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00403	2.3	2.3	1.4	8.3	15.6	70.2	218
06409	2.5	1.5	2.0	7.8	22.1	64.2	204
12415	3.6	1.3	1.8	13.3	22.7	97.3	225
18421	2.8	.9	1.4	8.3	19.0	67.6	216
TOT	24	13	14	82	171	559	863
PCT	2.8	1.5	1.6	9.5	19.8	64.8	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <5/8	TOTAL
(GMT)	<5000	<1	<5	AND5+	AND 5+	OBS
00403	9.6	17.4	36.4	32.3	31.3	195
06409	6.3	17.8	36.8	30.3	32.8	174
12415	9.5	21.9	43.3	31.3	25.4	201
18421	6.7	20.7	38.5	34.6	26.8	179
TOT	53	146	291	241	217	749
PCT	7.1	19.5	38.9	32.2	29.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
70/74	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
65/69	.0	.0	.3	.2	.5	.7	.2	.3	13	2.1
60/64	.0	.0	.0	.2	1.5	5.6	5.3	1.5	85	14.0
55/59	.0	.0	.0	.3	1.6	9.6	24.2	7.7	264	43.5
50/56	.0	.0	.0	.0	.0	2.0	12.4	21.7	219	36.1
45/49	.0	.0	.0	.0	.0	.2	.5	3.3	24	4.0
40/44	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	2	4	23	109	258	211	607	100.0
PCT	.0	.0	.3	.7	3.8	18.0	42.5	34.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP									
	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
65/69	.0	.2	.0	.2	.3	.9	.3	.3	.0	.0
60/64	.3	1.1	1.5	.9	1.2	1.8	1.9	1.2	.0	4.1
55/59	2.3	3.9	8.9	4.9	4.3	5.1	4.0	2.5	.0	7.4
50/56	2.0	5.8	9.2	4.8	3.1	2.0	3.6	1.2	.0	4.4
45/49	.0	.9	1.5	.4	.4	.2	.3	.0	.0	.2
40/44	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
TOTAL	4.6	11.9	21.1	11.4	9.3	10.1	10.3	5.1	.0	16.1

TABLE 15

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

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00403	73	68	64	56	50	48	46	56.8	214
06409	72	69	62	55	50	47	46	55.4	201
12415	74	62	59	54	49	45	43	53.7	226
18421	67	63	62	55	49	46	43	55.6	215
TOT	74	67	62	55	49	46	43	55.4	856

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00403	.0	1.3	4.4	27.7	42.1	24.5	84	159		
06409	.0	.0	6.6	13.2	45.7	34.4	86	151		
12415	.0	1.3	.7	9.2	41.2	47.7	89	153		
18421	.0	1.3	3.3	20.9	42.5	32.0	85	153		
TOT	0	6	23	110	264	213	86	616		

PERIOD: (PRIMARY) 1963-1976
(OVER-ALL) 1939-1976

JULY

VALDEZ MARINE AREA
59.8N 146.2W

TABLE 17

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

AIR-SEA TMP DIF	45 48	49 92	53 56	57 60	61 64	65 68	69 72	73 76	TOT	N FOG	NO FOG
20/22	.0	.0	.0	.0	.2	.2	.0	.0	2	.0	.3
17/19	.0	.0	.0	.0	.0	.0	.3	.2	7	.0	1.1
14/16	.0	.0	.0	.0	.3	.2	.0	.0	3	.0	.5
11/13	.0	.0	.0	.2	.6	.2	.0	.0	6	.0	.9
9/10	.0	.0	.0	.8	.9	.5	.2	.0	15	.0	2.4
7/8	.2	.0	.3	1.4	.9	.0	.0	.0	19	.3	2.7
6	.0	.0	.5	1.6	.9	.2	.0	.0	20	.2	3.0
5	.0	.0	1.4	1.4	.6	.0	.0	.0	22	.3	3.0
4	.0	.2	1.3	3.0	.3	.0	.0	.0	30	.6	4.1
3	.0	.3	3.3	2.2	.9	.0	.0	.0	43	.3	6.5
2	.0	2.2	5.7	2.5	.9	.0	.0	.0	72	1.9	9.4
1	.0	2.2	5.0	2.7	.2	.0	.0	.0	64	1.1	9.0
0	.6	3.8	6.3	1.9	.3	.0	.0	.0	83	.9	12.1
-1	.3	3.6	3.8	2.0	.0	.0	.0	.0	76	.5	11.5
-2	.3	2.2	3.5	1.4	.0	.0	.0	.0	47	.5	6.9
-3	.6	2.8	1.9	1.4	.0	.0	.0	.0	42	.9	5.8
-4	.3	2.4	2.8	.0	.0	.0	.0	.0	35	.6	4.9
-5	.2	1.9	1.7	.0	.0	.0	.0	.0	24	.2	3.6
-6	.0	.8	.8	.2	.0	.0	.0	.0	11	.0	1.7
-7/-8	.0	1.1	.3	.0	.0	.0	.0	.0	9	.2	1.3
-9/-10	.3	.2	.0	.0	.0	.0	.0	.0	3	.2	.3
-11/-13	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	19	150	260	145	46	11	3	1	685	56	379
PCT	3.0	23.6	40.9	22.8	7.2	1.7	.5	.2	100.0	8.8	91.2

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.2	.6	.0	.0	.0	.0	1.7	1.5	2.5	.0	.0	.0	.0	3.9
1-2	.0	.6	.0	.0	.0	.0	.6	.5	3.6	.8	.0	.0	.0	4.9
3-4	.2	.2	.2	.0	.0	.0	.5	.1	1.3	2.2	.0	.0	.0	2.3
5-6	.0	.0	.0	.2	.0	.0	.2	.0	.0	1.0	.2	.0	.0	1.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.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	.1	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	1.3	.2	.2	.0	.0	2.9	2.0	7.4	4.4	.7	.0	.0	14.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	2.7	.4	.0	.0	.0	3.5	.3	1.4	.0	.0	.0	.0	1.7
1-2	.2	4.9	3.2	.0	.0	.0	8.2	.3	2.4	1.1	.0	.0	.0	3.7
3-4	.0	.8	3.6	1.0	.0	.0	4.4	.0	1.7	1.8	.3	.0	.0	3.7
5-6	.0	.2	2.0	1.1	.0	.0	3.2	.0	.3	.3	.0	.0	.0	.6
7	.0	.2	.5	1.0	.0	.0	1.7	.0	.0	.1	.0	.2	.0	.3
8-9	.0	.0	.6	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.2	.2	.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	.4	.0	.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	.7	9.1	9.7	3.3	.0	.0	22.8	.6	3.7	3.3	.3	.2	.0	10.0

PERIOD: (OVER-ALL) 1963-1976

JULY

VALDEZ MARINE AREA
59.0M 146.5M

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.9	2.2	.6	.0	.0	.0	2.1	.3	1.8	.0	.0	.0	.0	.0	2.1
1-2	.2	2.2	.6	.0	.0	.0	2.9	.2	3.0	.5	.0	.0	.0	.0	3.7
3-4	.0	.2	1.1	.0	.0	.0	1.2	.0	.6	.7	.0	.0	.0	.0	1.3
5-6	.0	.2	.2	.0	.0	.0	1.4	.0	.0	.3	.2	.0	.0	.0	1.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.8	1.8	.0	.0	.0	7.6	.5	5.4	1.6	.2	.0	.0	.0	7.7

HGT	W						PCT	NW						PCT	TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+			
<1	1.0	1.2	.0	.0	.0	.0	2.2	.3	1.1	.0	.0	.0	.0	.0	1.3	
1-2	.4	2.9	1.2	.0	.0	.0	4.5	.2	1.9	.2	.0	.0	.0	.0	2.3	
3-4	.0	1.2	2.5	.0	.0	.0	3.6	.0	.1	.0	.0	.0	.0	.0	.1	
5-6	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	5.3	3.8	.0	.0	.0	10.4	.5	3.0	.4	.0	.0	.0	.0	3.8	79.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	25.9	13.4	.4	.0	.0	.0	.0	39.7
1-2	2.0	21.9	7.3	.0	.0	.0	.0	31.0
3-4	.2	3.9	10.9	1.2	.0	.0	.0	18.2
5-6	.0	.6	4.0	1.4	.0	.0	.0	6.3
7	.0	.2	1.2	1.0	.2	.0	.0	2.6
8-9	.0	.0	.8	.0	.0	.0	.0	.8
10-11	.0	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.2	.2	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.4	.0	.4	.0	.0	.0	.8
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	28.1	41.9	25.1	4.7	.2	.0	100.0	494

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	7.2	21.0	18.8	8.6	1.4	.8	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	374	3
6-7	.0	2.5	8.7	5.0	.9	.3	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	4
8-9	.0	1.9	.9	1.1	.3	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34	5
10-11	.0	1.7	.3	.3	.3	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	4
12-13	.0	.0	.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	4
>13	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
INDENT	12.1	.5	.2	.0	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	1
TOTAL	124	177	192	100	26	10	3	3	2	4	0	0	0	0	0	0	0	0	0	0	643	3
PCT	19.3	27.5	29.9	15.6	4.0	1.6	.5	.8	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

AUGUST

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	15.6	2.0	7.5	.0	.0	.0	.0	23.1	2.7	.0	5.4	.0	.0	.0	68.7
NE	20.4	.0	10.0	.0	.0	.0	.0	30.0	4.2	.0	8.8	.0	1.5	.0	55.4
E	14.3	2.9	11.5	.0	.0	.0	.0	27.5	6.7	.0	8.2	.0	.8	.0	56.9
SE	11.2	1.7	10.3	.0	.0	.0	.0	27.2	7.8	.0	5.1	.3	1.4	.0	58.2
S	6.2	.0	5.2	.0	.0	.0	.0	11.4	9.3	.0	6.6	1.0	1.0	.0	70.6
SW	1.7	.0	3.1	.0	.0	.0	.0	3.4	2.8	.0	5.3	.0	.7	.3	87.2
W	4.0	.0	6.5	.0	.0	.0	.0	10.5	.0	1.4	5.4	.0	2.5	1.1	79.0
NW	12.1	.9	4.3	.0	.0	.0	.0	17.2	6.9	.0	11.2	.0	.0	.0	64.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.4	1.5	4.5	.0	.0	.0	.0	13.4	.0	.0	13.4	1.5	.0	.0	71.6
TOT PCT	10.6	1.1	8.3	.0	.0	.0	.0	18.8	4.7	.2	7.6	.3	1.0	.2	67.2
TOT OBS:	816														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
0603	12.7	.6	6.0	.0	.0	.0	.0	18.1	5.4	.6	6.6	.6	2.4	.0	66.3
0609	5.5	1.6	11.0	.0	.0	.0	.0	18.1	4.7	.0	6.3	.8	.0	.0	70.1
1205	13.6	1.7	7.9	.0	.0	.0	.0	20.9	4.0	.0	7.9	.0	.6	.0	66.7
1821	8.3	1.3	8.3	.0	.0	.0	.0	17.2	4.5	.0	10.2	.0	.6	.6	66.9
TOT PCT	10.4	1.3	8.1	.0	.0	.0	.0	18.7	4.6	.2	7.8	.3	1.0	.2	67.3
TOT OBS:	627														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.7	4.8	.5	.0	.0	.0	.0	6.1	6.7	4.9	.0	5.5	.0	5.6	.0	8.8	.0
NE	1.0	4.8	3.5	1.1	.8	.0	.0	10.5	11.0	8.2	.0	7.6	.0	15.5	.0	8.8	28.6
E	.4	8.2	8.2	3.8	.6	.0	.0	21.2	14.9	19.1	.0	17.8	.0	21.3	.0	26.9	10.7
SE	1.2	6.7	3.4	.6	.2	.0	.0	12.2	10.6	15.0	.0	14.1	.0	10.9	.0	8.8	17.9
S	1.7	6.9	2.8	.2	.0	.0	.0	11.7	8.7	13.7	.0	14.3	.0	10.8	.0	8.8	.0
SW	1.2	7.2	2.9	.4	.0	.0	.0	11.7	9.2	13.4	.0	15.4	.0	6.0	100.0	12.6	14.3
W	.9	6.7	3.5	.1	.0	.0	.0	11.1	9.1	11.1	.0	11.5	.0	10.8	.0	11.2	14.3
NW	1.3	2.3	1.1	.0	.0	.0	.0	4.7	6.9	3.4	.0	1.4	.0	8.2	.0	4.4	14.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8	.0	.0	.0	.0	.0	.0	10.8	.0	11.1	.0	12.5	.0	10.9	.0	9.5	.0
TOT OBS	119	296	160	39	5	0	619	10.8	9.4	102	0	128	0	174	1	147	7
TOT PCT	19.2	47.8	25.8	6.3	.8	.0	100.0			100.0	.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	12
N	2.5	2.6	.0	.0	.0	.0	6.1	6.7	4.9	5.5	5.6	8.4
NE	3.0	6.1	1.2	.2	.8	.0	10.5	11.0	8.2	7.6	15.4	9.7
E	3.8	9.9	3.1	2.1	.2	.0	21.2	14.9	19.1	17.8	21.1	26.1
SE	2.6	6.7	1.8	.2	.8	.0	12.2	10.6	15.0	14.1	10.9	9.3
S	4.6	3.9	1.1	.0	.0	.0	11.7	8.7	13.7	14.3	10.7	8.4
SW	3.8	9.8	1.1	.0	.0	.0	11.7	9.2	13.4	15.4	6.6	12.7
W	4.5	3.8	.8	.0	.0	.0	11.1	9.1	11.1	11.5	10.7	11.4
NW	2.5	2.1	.0	.0	.0	.0	4.7	6.9	3.4	1.4	8.1	4.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8	.0	.0	.0	.0	.0	10.8	.0	11.1	12.5	10.9	9.1
TOT OBS	249	284	68	16	2	619	10.8	9.4	102	128	173	154
TOT PCT	40.2	45.9	11.0	2.6	.3	100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

AUGUST

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL DBS
		1-3	4-10	11-21	22-33	34-47				
00603	11.1	5.6	49.4	26.5	6.8	.6	.0	9.7	100.0	162
06609	12.5	7.0	51.0	23.4	5.5	.0	.0	8.9	100.0	128
12615	10.9	13.1	45.1	25.7	4.6	.6	.0	8.7	100.0	175
18621	9.1	7.1	46.1	27.3	8.4	1.9	.0	10.4	100.0	154
TOT	67	52	296	180	39	5	0	9.4		619
PCT	10.8	8.4	47.8	25.8	6.3	.8	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL DBS	MEAN CLOUD COVER
NE	1.1	.7	2.3	3.7	6.5	6.5
E	.9	.7	3.4	15.3	7.2	7.2
SE	.4	.8	2.5	9.3	7.1	7.1
S	1.2	.5	2.3	7.8	6.7	6.7
SW	1.1	1.1	2.9	6.1	6.5	6.5
W	2.3	1.7	3.6	3.7	5.3	5.3
NW	1.3	.7	.9	2.0	5.2	5.2
VAR	.0	.0	.0	.0	.0	.0
CALM	1.9	1.8	2.3	5.8	9.9	9.9
TOT DBS	55	43	109	308	515	6.5
TOT PCT	10.7	8.3	21.2	59.8	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL DBS
N	.3	.3	.9	1.4	1.1	.8	.0	.0	.0	.0	1.3	
NE	1.7	.6	.5	1.1	1.6	.9	.0	.2	.2	.0	3.0	
E	2.0	1.3	2.1	5.2	3.9	2.4	.4	.4	.0	.0	2.5	
SE	1.4	.8	1.0	3.3	3.1	1.4	.2	.0	.2	.0	1.8	
S	.5	.5	1.0	2.3	3.1	1.7	.4	.0	.1	.0	2.1	
SW	.8	.0	.4	1.4	1.8	2.0	.6	.2	.3	.0	3.7	
W	.7	.0	1.1	.5	1.4	.8	.2	.2	.3	.0	6.1	
NW	.6	.0	.2	.6	1.1	.0	.0	.0	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4	.2	.6	1.7	2.1	.8	.2	.2	.0	.0	4.5	
TOT DBS	48	19	40	91	99	55	10	6	6	0	140	515
TOT PCT	9.5	3.7	7.8	17.7	19.2	10.7	1.9	1.2	1.2	.0	27.2	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50VD	>0
>6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5000	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>3500	3.9	4.2	4.2	4.2	4.2	4.4	4.4	4.4
>2000	13.9	14.8	14.8	14.8	14.8	15.0	15.0	15.0
>1000	24.9	31.6	32.8	33.7	33.7	33.9	33.9	33.9
>600	38.6	48.0	50.1	51.1	51.1	51.3	51.3	51.3
>300	38.9	53.6	56.8	58.6	58.8	59.0	59.0	59.0
>150	39.7	55.7	59.9	62.2	62.4	62.6	62.6	62.6
>0	40.7	58.2	66.0	67.2	69.6	71.1	72.1	72.3
TOTAL	211	302	332	349	361	369	374	375

TOTAL NUMBER OF DBS: 519

PCT FREQ NH <5/8: 27.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL DBS	
	5.3	6.3	6.4	6.3	3.3	5.0	10.5	7.7	40.8	8.5	544

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.4	.4	.0	.0	.2	.0	.2	.0	.7	2.0	
	TOT %	.2	.4	.4	.2	.0	.2	.0	.2	.0	.7	2.1	
1/2<1	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.3	
	NO PCP	.0	.2	.6	.2	.1	.2	.4	.2	.0	.2	2.1	
	TOT %	.0	.2	.7	.2	.1	.2	.4	.2	.0	.3	2.4	
1<2	PCP	.3	.2	1.2	.2	.2	.2	.0	.2	.0	.5	2.8	
	NO PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2	.5	
	TOT %	.3	.2	1.3	.2	.3	.2	.0	.2	.0	.7	3.3	
2<5	PCP	.4	.7	1.4	.7	.4	.0	.3	*	.0	.3	4.4	
	NO PCP	.0	.2	1.1	.5	.9	.2	.0	.0	.0	.2	2.6	
	TOT %	.4	.9	2.5	1.3	.9	.2	.3	*	.0	.5	7.0	
5<10	PCP	.7	1.3	2.1	1.2	.3	.1	.9	.6	.0	.2	7.3	
	NO PCP	.7	.9	3.6	2.0	2.6	2.2	.7	.6	.0	1.3	14.5	
	TOT %	1.4	2.2	5.7	3.2	2.9	2.2	1.5	1.2	.0	1.5	21.8	
10+	PCP	.0	1.1	1.0	.8	.4	.2	.0	.0	.0	.3	3.7	
	NO PCP	3.7	5.7	9.6	5.9	7.1	8.7	8.9	3.0	.0	7.0	59.7	
	TOT %	3.7	6.8	10.6	6.7	7.5	8.9	8.9	3.0	.0	7.3	63.4	
TOT OBS												615	
TOT PCT		6.0	10.6	21.3	11.8	11.7	11.8	11.2	4.7	.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	.0	.0	.0	.0	.0	.0	.2	.0	.0	.7	1.0
	4-10	.0	.2	.1	.0	.0	.2	.0	.0	.0	.0	.5	
	11-21	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.4	.4	.2	.0	.2	.0	.2	.0	.0	.7	2.1
1/2<1	0-3	.0	.2	.0	.2	.0	.0	.2	.0	.0	.3	.8	
	4-10	.0	.1	.4	*	.1	.2	.3	.2	.0	.0	1.3	
	11-21	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.7	.2	.1	.2	.3	.2	.0	.0	.3	2.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.7	
	4-10	.3	.1	.3	.2	.0	.0	.2	.0	.0	.0	1.0	
	11-21	.0	.1	1.0	.1	.3	.2	.0	.0	.0	.0	1.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.2	1.3	.2	.3	.2	.0	.2	.0	.0	.7	3.3
2<5	0-3	.0	.0	.0	.0	.2	.2	.2	.0	.0	.5	.8	
	4-10	.4	.7	.6	.8	.6	.2	.2	*	.0	.0	3.4	
	11-21	.0	.2	.7	.2	.2	.0	.0	.0	.0	.0	1.3	
	22+	.0	.0	1.2	.2	.0	.0	.0	.0	.0	.0	1.5	
	TOT %	.4	.9	2.5	1.3	.9	.2	.3	*	.0	.0	.5	7.0
5<10	0-3	.0	.2	.0	.3	.3	.0	.2	.3	.0	1.5	2.8	
	4-10	1.4	.9	1.9	1.5	1.5	1.7	1.1	.7	.0	.0	10.7	
	11-21	.0	.4	2.0	1.1	.9	.6	.2	.2	.0	.0	5.4	
	22+	.0	.6	1.9	.3	.1	.0	.0	.0	.0	.0	2.9	
	TOT %	1.4	2.2	5.7	3.2	2.9	2.2	1.5	1.2	.0	.0	1.5	21.8
10+	0-3	.6	.7	.4	.7	1.2	1.2	.4	.9	.0	7.3	13.3	
	4-10	2.8	2.9	5.0	3.8	4.7	5.1	5.1	1.2	.0	.0	30.6	
	11-21	.5	2.8	4.1	1.8	1.5	2.2	3.3	.9	.0	.0	17.1	
	22+	.0	.4	1.1	.3	.1	.4	.1	.0	.0	.0	2.4	
	TOT %	3.7	6.8	10.6	6.7	7.5	8.9	8.9	3.0	.0	.0	7.3	63.4
TOT OBS												615	
TOT PCT		6.0	10.6	21.3	11.8	11.7	11.8	11.2	4.7	.0	10.9	100.0	

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PERIOD: (PRIMARY) 1962-1976
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TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	5.2	2.0	5.9	17.6	23.5	15.0	5.2	1.3	.7	.0	76.5	23.5	153
06609	4.9	4.9	11.7	18.4	16.5	10.7	1.0	1.0	.0	.0	68.9	31.1	103
12615	13.8	4.1	7.6	18.6	17.2	6.2	.0	1.4	2.1	.0	71.0	29.0	145
18621	13.3	4.7	6.3	14.8	16.4	9.4	1.6	.8	1.0	.0	68.8	31.3	128
TOT	50	20	40	92	99	55	11	6	6	0	379	150	529
PCT	9.5	3.8	7.6	17.4	18.7	10.4	2.1	1.1	1.1	.0	71.6	28.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	3.0	1.8	4.2	3.6	19.4	67.9	165
06609	.0	2.4	3.9	9.4	24.4	59.8	127
12615	2.8	2.8	2.8	8.4	23.6	59.6	178
18621	3.2	2.5	2.5	7.0	19.7	65.0	157
TOT	15	15	21	44	136	396	627
PCT	2.4	2.4	3.3	7.0	21.7	63.2	100.0

TABLE 12

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

HR	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00603	5.3	13.8	34.9	41.4	23.7	152
06609	4.9	22.5	42.2	27.5	30.4	102
12615	14.0	25.9	46.9	24.5	28.7	143
18621	13.9	24.6	41.0	31.1	27.9	122
TOT	50	111	213	164	142	519
PCT	9.6	21.4	41.0	31.6	27.4	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	.2	.2	.0	.0	.2	.0	.0	3	.6
65/69	.0	.0	.0	.2	.0	.4	.0	.2	4	.8
60/64	.0	.2	.0	.6	.6	2.7	3.6	1.3	43	9.0
55/59	.0	.0	.4	.2	2.1	8.2	25.8	19.1	266	55.9
50/54	.0	.0	.0	.0	.2	2.1	10.1	21.0	159	33.4
45/49	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	2	3	5	14	65	189	198	476	100.0
PCT	.0	.4	.6	1.1	2.9	13.7	39.7	41.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.0	.0	.2	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.6	.2	.0	.0
.9	1.1	.9	.5	.9	1.5	1.3	.7	.0	1.3
2.7	4.7	12.0	7.7	7.6	8.0	6.6	1.8	.0	4.8
2.3	4.8	8.2	4.1	2.5	2.2	2.2	2.4	.0	4.6
.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.6	10.6	21.1	12.6	10.9	11.7	10.7	5.1	.0	10.7

TABLE 15

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

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	74	73	65	57	52	52	51	57.7	165
06609	63	62	60	55	52	50	50	55.5	127
12615	60	59	58	54	52	50	49	54.5	177
18621	67	66	62	55	51	46	41	55.9	158
TOT	74	66	62	55	52	50	41	55.9	627

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	4.8	4.8	21.4	38.9	30.2	82	126		
06609	.0	1.9	1.9	12.6	40.8	42.7	88	103		
12615	.0	1.3	1.3	8.8	27.2	31.1	89	137		
18621	.0	.0	4.3	12.8	41.9	41.0	88	117		
TOT	0	10	15	67	191	200	87	483		

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1934-1976

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TABLE 17

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

AIR-SEA TMP DIF	41	45	49	53	57	61	65	69	73	TOT	W FOG	WD FOG
	44	48	52	56	60	64	68	72	76			
14/16	.0	.0	.0	.0	.2	.0	.2	.2	.2	4	.2	.6
11/13	.0	.0	.0	.0	.0	.4	.2	.4	.2	5	.0	1.1
9/10	.0	.0	.0	.0	.0	.4	.2	.0	.0	3	.0	.6
7/8	.0	.0	.0	.0	1.3	1.9	.2	.0	.0	16	.0	3.4
6	.0	.0	.2	.6	1.3	.2	.0	.0	.0	11	.0	2.3
5	.0	.0	.0	.4	2.3	1.3	.0	.0	.0	19	.2	3.8
4	.0	.0	.0	1.7	3.2	.4	.0	.0	.0	23	.2	5.1
3	.0	.0	.0	3.6	2.1	.6	.0	.0	.0	30	1.1	5.3
2	.0	.0	.2	6.5	2.9	.4	.0	.0	.0	48	1.5	8.6
1	.0	.0	.0	5.9	2.5	.0	.0	.2	.0	41	1.1	7.6
0	.0	.0	1.3	7.6	3.4	.2	.0	.0	.0	60	2.3	10.3
-1	.0	.0	1.1	7.8	3.6	.2	.0	.0	.0	60	.6	12.0
-2	.0	.0	.8	6.5	2.1	.0	.0	.0	.0	48	.4	9.1
-3	.0	.0	.4	4.8	.4	.0	.0	.0	.0	27	.0	3.7
-4	.0	.0	2.3	2.3	1.7	.0	.0	.0	.0	30	.4	3.9
-5	.0	.0	1.3	3.4	.4	.0	.0	.0	.0	25	.2	3.1
-6	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	10	.0	2.1
-7/-8	.0	.0	.2	1.7	.2	.0	.0	.0	.0	10	.0	.6
-9/-10	.0	.0	.0	.6	.0	.0	.0	.0	.0	3	.0	.6
-14/-16	.2	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	0	45	260	131	27	5	3	3	473	40	435
PCT	.2	.0	9.5	54.7	27.6	5.7	1.1	.6	.6	100.0	8.4	91.6

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

MGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.8	2.5	.0	.0	.0	.0	3.3	.7	1.2	.3	.0	.0	.0	.0	2.1	
1-2	.0	.9	.2	.0	.0	.0	1.1	.0	1.8	2.0	.0	.0	.0	.0	3.8	
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.1	.6	.6	.0	.0	.0	1.2	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.7	.4	.1	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	4.3	.2	.0	.0	.0	3.3	.7	3.8	3.3	.7	.1	.0	.0	8.3	

MGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.5	3.3	.3	.0	.0	.0	4.1	.9	3.6	.0	.0	.0	.0	.0	4.6	
1-2	.0	3.6	2.1	.0	.0	.0	5.7	.0	3.3	1.0	.0	.0	.0	.0	4.3	
3-4	.0	1.0	3.3	1.2	.0	.0	3.3	.3	.9	.9	.1	.0	.0	.0	2.2	
5-6	.0	.2	1.9	1.4	.0	.0	3.3	.0	.3	.9	.0	.0	.0	.0	1.2	
7	.0	.2	.8	1.1	.3	.0	2.4	.0	.0	.4	.6	.0	.0	.0	.9	
8-9	.0	.0	.0	.2	.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.7	.2	.0	.9	.0	.0	.0	.1	.1	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	8.3	8.4	4.6	1.0	.0	22.8	1.2	9.1	3.1	1.2	.1	.0	.0	13.7	

PERIOD: (OVER-ALL) 1963-1976

AUGUST

VALDEZ MARINE AREA
59.8N 146.3W

TABLE 18 (CONT)

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

HGT	S								PCT	SW								PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+					
<1	.6	3.9	.0	.0	.0	.0	4.4	.7	2.4	.0	.0	.0	.0	.0	3.1			
1-2	.0	2.9	.9	.0	.0	.0	3.4	.1	2.4	.4	.0	.0	.0	.0	2.8			
3-4	.0	1.1	.4	.2	.0	.0	1.7	.0	2.3	1.8	.0	.0	.0	.0	4.4			
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.9	.3	.0	.0	.0	1.2			
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.6	7.8	2.1	.2	.0	.0	10.8	.7	7.3	3.3	.3	.0	.0	.0	11.7			

HGT	W								PCT	NW								TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3	4-10		11-21	22-33	34-47	48+					
<1	.8	2.5	.3	.0	.0	.0	3.6	.9	.7	.0	.0	.0	.0	.0	1.6			
1-2	.2	3.1	1.4	.0	.0	.0	4.7	.3	.7	.6	.0	.0	.0	.0	1.6			
3-4	.0	1.6	1.3	.0	.0	.0	2.9	.0	.3	.7	.0	.0	.0	.0	.9			
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0			
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
13-16	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	1.0	7.1	3.9	.0	.0	.0	12.0	1.2	1.7	1.2	.0	.0	.0	.0	4.2 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	16.6	20.1	.9	.0	.0	.0	37.5	
1-2	.5	18.6	8.1	.0	.0	.0	27.3	
3-4	.3	8.4	9.0	2.0	.0	.0	19.8	
5-6	.0	1.2	6.1	1.7	.0	.0	9.0	
7	.0	.3	1.2	1.7	.3	.0	3.5	
8-9	.0	.0	.3	.3	.3	.0	.9	
10-11	.0	.0	.0	.3	.3	.0	.6	
12	.0	.0	.0	.9	.3	.0	1.2	
13-16	.3	.0	.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	17.7	48.5	25.6	7.0	1.2	.0	100.0	344

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-6	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
4-6	4.6	17.3	12.4	5.9	2.3	1.3	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	210	3
6-7	.0	3.8	8.2	7.2	2.1	3.0	1.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	3
8-9	.0	.4	2.1	1.1	1.3	.8	.8	.4	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	84	6
10-11	.0	.8	.4	.2	.8	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
12-13	.0	.0	1.1	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
>13	.0	.0	.0	.2	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	11
INDEX	13.2	.0	.6	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	81	1
TOTAL	94	106	118	74	32	28	10	6	1	4	0	1	0	0	0	0	0	0	0	0	474	3
PCT	19.8	22.4	24.9	15.6	6.8	5.9	2.1	1.3	.2	.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1942-1976

VALDEZ MARINE AREA
59.7N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	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	NO SIG WEA
N	11.3	.0	.0	.0	.0	.0	.0	11.3	3.8	.0	3.8	.0	.0	.0	81.1
NE	10.1	1.6	13.2	.0	.0	.0	.0	21.8	3.9	.0	1.9	.0	1.6	.0	70.8
E	20.5	.0	12.8	.0	.0	.0	.0	32.8	8.6	.0	2.5	.7	.7	.7	53.9
SE	30.2	3.3	11.9	.0	.0	.0	.0	45.2	12.7	1.1	2.8	.0	.0	.0	38.2
S	16.1	2.0	8.0	.0	.0	.0	.0	26.1	2.0	.0	3.5	2.0	.0	.0	66.3
SW	10.0	.0	5.3	.0	.0	.0	.0	15.3	2.7	.0	2.7	.0	2.7	.0	76.7
W	.0	1.9	.0	.0	.0	.0	.0	1.9	1.9	.0	.0	.0	1.9	.0	94.4
NW	.0	4.8	.0	.0	.0	.0	.0	4.8	4.8	.0	.0	.0	.0	.0	90.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	.0	7.3	.0	.0	.0	.0	9.8	2.4	.0	4.9	.0	2.4	.0	80.5
TOT PCT	14.9	1.3	8.8	.0	.0	.0	.0	24.5	6.1	.2	2.5	.4	1.0	.2	65.2
TOT OBS:	523														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	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	NO SIG WEA
0000Z	14.0	.0	10.3	.0	.0	.0	.0	23.5	6.6	.0	2.9	.7	1.5	.7	64.0
0600Z	11.3	1.4	9.2	.0	.0	.0	.0	22.0	6.4	.7	1.4	.0	.7	.0	68.8
1201Z	14.6	1.6	7.3	.0	.0	.0	.0	22.8	4.9	.0	2.4	.0	.0	.0	69.9
1802Z	19.5	2.3	8.3	.0	.0	.0	.0	29.3	6.0	.0	3.8	.8	1.5	.0	58.6
TOT PCT	14.8	1.3	8.8	.0	.0	.0	.0	24.4	6.0	.2	2.6	.4	.9	.2	65.3
TOT OBS:	533														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)								
	0-9	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21		
N	.7	2.0	1.4	.6	.4	.0		5.0	13.9		4.0	.0	6.2	100.0	4.0	.0	7.3	.0	
NE	.3	4.6	3.2	1.8	.3	.0		12.2	14.5		11.8	.0	7.2	.0	15.0	.0	15.7	8.3	
E	.7	8.0	9.1	3.3	3.2	.2		26.5	18.7		29.8	.0	27.0	.0	17.7	.0	30.5	58.3	
SE	.5	4.0	7.7	4.3	.7	.0		17.3	16.8		13.2	.0	17.8	.0	23.5	.0	15.7	.0	
S	.7	4.3	3.6	.3	.3	.0		9.6	11.9		8.6	.0	13.8	.0	8.3	.0	7.7	.0	
SW	.8	3.5	2.1	.6	.3	.0		7.3	11.9		8.5	100.0	6.3	.0	5.0	.0	8.9	.0	
W	.3	3.3	3.6	.7	.3	.0		10.3	12.1		10.1	.0	11.8	.0	12.1	.0	7.5	.0	
NW	.2	1.9	1.9	.0	.0	.0		4.0	11.3		3.7	.0	5.4	.0	6.0	.0	1.0	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	
CALM	7.8							7.8	.0		10.3	.0	6.5	.0	8.3	.0	5.5	33.3	
TOT OBS	63	178	182	73	29	1	526		14.0		126	1	138	1	120	0	127	3	
TOT PCT	12.0	33.8	34.6	13.9	5.5	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)					
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15
N	1.7	1.9	.7	.0	.2		5.0	13.9		4.0	4.9	4.0	7.3	
NE	2.2	3.7	3.2	1.1	.0		12.2	14.5		11.7	7.2	15.0	15.6	
E	4.6	8.3	7.3	5.4	.8		26.5	18.7		29.8	26.8	17.7	31.2	
SE	2.5	6.8	6.0	1.7	.1		17.3	16.8		13.1	17.6	23.5	13.4	
S	2.3	3.1	1.9	.3	.0		9.6	11.9		8.6	13.7	8.3	7.5	
SW	2.2	3.1	1.7	.3	.0		7.3	11.9		9.1	6.3	5.0	8.7	
W	2.3	3.5	2.2	.3	.0		10.3	12.1		10.0	11.7	12.1	7.3	
NW	.3	3.2	.3	.0	.0		4.0	11.3		3.6	5.4	6.0	1.0	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	7.8						7.8	.0		10.2	6.5	8.3	6.2	
TOT OBS	136	208	123	51	6	526		14.0		137	139	120	130	
TOT PCT	25.9	39.5	23.8	9.7	1.1		100.0			100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1962-1976
(OVER-ALL) 1942-1976

VALDEZ MARINE AREA
59.7N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					MEAN	PCT FREQ	TOTAL OBS	
		1-3	4-10	11-21	22-33	34-47				
00603	10.2	2.9	36.5	26.3	13.9	9.5	.7	14.0	100.0	137
00609	6.5	2.9	38.1	35.3	12.9	4.3	.0	13.8	100.0	139
12615	8.3	7.5	35.0	35.8	11.7	1.7	.0	12.1	100.0	120
18621	6.2	3.8	25.4	41.5	16.9	6.2	.0	13.5	100.0	130
TOT	41	22	178	182	73	29	1	14.0		526
PCT	7.8	4.2	33.8	34.6	13.9	5.5	.2	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER					
							000	150	300	600	1000
N	2.0	.2	1.4	1.8	4.7	4.7					
NE	1.7	.7	4.2	5.8	6.3	6.3					
E	1.2	1.3	6.1	16.5	7.0	7.0					
SE	.8	.7	3.0	12.5	7.2	7.2					
S	1.2	.2	2.5	5.4	6.5	6.5					
SW	.6	.8	2.3	3.7	6.4	6.4					
W	2.7	1.4	4.5	2.3	5.0	5.0					
NH	1.9	.5	.3	.6	3.5	3.5					
VAR	.0	.0	.0	.0	.0	.0					
CALM	2.4	1.2	1.5	3.2	4.4	4.4					
TOT OBS	63	29	109	212	409	6.2					
TOT PCT	15.4	7.1	25.7	51.8	100.0						

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <3/8 BY WIND DIRECTION										
							000	150	300	600	1000	2000	3000	5000	6500	8000+	NH <3/8 ANY HGT
N	2.0	.2	1.4	1.8	4.7	4.7	.2	.2	.2	.7	.0	1.1	.0	.0	.0	.0	2.8
NE	1.7	.7	4.2	5.8	6.3	6.3	.2	.0	.9	2.6	2.8	2.4	.2	.2	.0	.0	2.9
E	1.2	1.3	6.1	16.5	7.0	7.0	1.6	.0	2.4	6.1	6.8	4.2	1.2	.0	.0	.0	2.8
SE	.8	.7	3.0	12.5	7.2	7.2	2.7	.0	.7	3.5	5.4	1.7	.4	.0	.0	.0	2.8
S	1.2	.2	2.5	5.4	6.5	6.5	1.2	1.0	.5	1.1	1.1	1.6	.4	.5	.0	.0	1.9
SW	.6	.8	2.3	3.7	6.4	6.4	.4	.1	.0	.9	1.5	1.9	.2	.0	.2	.0	2.2
W	2.7	1.4	4.5	2.3	5.0	5.0	.0	.2	.4	.4	2.4	.9	.0	.2	.2	.0	6.2
NH	1.9	.5	.3	.6	3.5	3.5	.0	.0	.1	.2	.0	.5	.0	.0	.0	.0	2.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4	1.2	1.5	3.2	4.4	4.4	.5	.0	.7	.2	2.0	.5	.7	.0	.0	.0	4.6
TOT OBS	63	29	109	212	409	6.2	28	6	24	65	90	60	13	4	2	0	117
TOT PCT	15.4	7.1	25.7	51.8	100.0		6.8	1.5	5.9	15.9	22.0	14.7	3.2	1.0	.5	.0	28.6

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>300D	>0
>6500	.5	.5	.5	.5	.5	.5	.5	.5
>5000	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	4.1	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>2000	12.5	19.3	19.3	19.3	19.3	19.3	19.3	19.3
>1000	25.8	37.1	39.8	41.2	41.4	41.4	41.4	41.4
>800	34.5	50.8	55.2	57.5	57.6	57.6	57.6	57.6
>300	36.1	54.5	60.5	63.1	63.4	63.4	63.4	63.4
>150	36.9	55.7	61.9	64.6	64.8	64.8	64.8	64.8
>0	37.3	57.2	65.5	70.6	71.3	71.6	71.6	71.8
TOTAL	155	238	272	293	296	297	297	298

TOTAL NUMBER OF OBS: 415 PCT FREQ NH <3/8: 28.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.3	4.1	6.6	3.9	5.7	5.0	10.3	14.2	37.1	5.7	437

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.1	.8	.0	.0	.0	.0	.0	.0	.2	.4
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.2	.6
1/2<1	PCP	.0	.0	.4	.2	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.8	.8
	TOT %	.0	.0	.4	.6	.4	.0	.0	.0	.0	.0	.8	1.3
1<2	PCP	.2	.3	1.3	1.3	.1	.0	.0	.0	.0	.0	3.3	
	NO PCP	.0	.8	.7	.1	.1	.0	.0	.0	.0	.0	2.3	.8
	TOT %	.2	.4	2.0	1.3	.3	.0	.0	.0	.0	.0	4.2	1.0
2<5	PCP	.4	.8	2.2	2.1	.3	.3	.0	.0	.0	.4	6.3	
	NO PCP	.0	.2	1.1	.8	.2	.2	.7	.8	.0	.2	3.5	.2
	TOT %	.4	1.0	3.2	2.9	.5	.5	.7	.8	.0	.6	9.8	1.0
5<10	PCP	.0	.8	3.6	2.4	.9	.4	.0	.2	.0	.4	8.7	
	NO PCP	1.1	2.3	3.9	1.7	2.2	1.3	1.3	.4	.0	.8	15.4	.8
	TOT %	1.1	3.1	7.5	4.1	3.1	1.9	1.5	.6	.0	1.2	24.0	1.6
10+	PCP	.0	.8	1.2	1.7	1.0	.4	.2	.0	.0	.0	3.2	
	NO PCP	3.5	7.1	12.2	6.3	4.3	4.4	7.8	3.4	.0	6.0	34.8	3.2
	TOT %	3.5	7.8	13.3	8.0	5.3	4.8	8.0	3.4	.0	6.0	60.0	6.0
TOT OBS													520
TOT PCT		5.1	12.4	26.5	17.1	9.6	7.2	10.2	4.0	.0	7.9	100.0	

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.1	.8	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.2	.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4
	22+	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.8
	TOT %	.0	.0	.4	.6	.4	.0	.0	.0	.0	.0	.0	1.3
1<2	0-3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.0	.1	.3	.8	.1	.0	.0	.0	.0	.0	.0	.6
	11-21	.2	.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	1.2
	22+	.0	.2	1.1	.9	.1	.0	.0	.0	.0	.0	.0	2.3
	TOT %	.2	.4	2.0	1.3	.3	.0	.0	.0	.0	.0	.0	4.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.6	
	4-10	.0	.0	.3	.4	.0	.4	.3	.8	.0	.0	1.7	
	11-21	.0	.5	.9	1.0	.1	.8	.2	.0	.0	.0	2.7	
	22+	.4	.5	2.2	1.3	.3	.8	.0	.0	.0	.0	3.0	
	TOT %	.4	1.0	3.4	2.9	.5	.5	.7	.8	.0	.6	10.0	
5<10	0-3	.2	.8	.3	.0	.0	.2	.0	.0	.0	1.2	1.9	
	4-10	.5	1.2	1.6	.8	1.3	1.0	.8	.4	.0	.0	7.5	
	11-21	.0	1.2	2.7	2.0	1.4	.3	.7	.2	.0	.0	8.6	
	22+	.4	.7	2.7	1.2	.3	.4	.2	.0	.0	.0	6.0	
	TOT %	1.1	3.1	7.4	4.1	3.1	1.9	1.3	.6	.0	1.2	24.0	
10+	0-3	.5	.2	.4	.3	.7	.6	.3	.2	.0	6.0	9.2	
	4-10	1.5	3.4	3.8	2.5	2.9	1.9	4.0	1.4	.0	23.8		
	11-21	1.2	3.8	4.8	4.5	1.7	1.7	2.8	1.7	.0	21.9		
	22+	.2	.7	2.3	.6	.0	.3	.9	.0	.0	.0	3.2	
	TOT %	3.5	7.8	13.3	8.0	5.3	4.8	8.0	3.4	.0	6.0	59.9	
TOT OBS													521
TOT PCT		5.1	12.3	26.6	17.1	9.5	7.2	10.2	4.0	.0	7.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00603	6.7	.8	7.5	15.0	23.3	15.0	3.3	1.7	.0	.0	73.3	26.7	120
06609	5.4	3.6	6.3	14.4	23.4	12.6	4.3	.9	.9	.0	72.1	27.9	111
12615	4.5	1.1	4.5	14.6	19.1	12.4	1.1	.0	1.1	.0	58.4	41.6	89
18621	10.9	.0	4.0	19.8	22.8	17.6	3.0	1.0	.0	.0	79.2	20.8	101
TOT	7.9	6	24	67	94	61	13	4	2	0	300	121	421
PCT	6.9	1.4	5.7	15.9	22.3	14.5	3.1	1.0	.3	.0	71.3	28.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.7	1.5	7.3	8.0	26.3	56.2	137
06609	.7	1.4	3.5	11.3	22.0	61.0	141
12615	.0	2.5	3.3	7.4	25.4	61.5	122
18621	.8	.0	3.8	13.0	22.9	59.5	131
TOT	3	7	24	53	128	316	531
PCT	.6	1.3	4.5	10.0	24.1	59.5	100.0

TABLE 12

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

HR (GMT)	<150 <300D	<600 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00603	6.8	16.1	36.4	37.3	26.3	118
06609	5.5	15.3	33.3	37.3	27.3	110
12615	4.6	10.3	28.7	31.0	40.2	87
18621	11.0	15.0	37.0	42.0	21.0	100
TOT	29	60	144	154	117	415
PCT	7.0	14.3	34.7	37.1	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
63/69	.0	.0	.0	.3	.0	.0	.0	.0	2	.5
60/64	.0	.0	.0	.0	1.6	.8	.3	.0	10	2.7
59/59	.0	.3	.3	.0	1.1	3.4	7.7	8.2	79	21.0
50/54	.0	.0	.3	.3	3.7	7.7	23.3	23.9	224	59.4
43/49	.0	.0	.3	.3	1.3	1.3	5.6	5.8	57	15.1
40/44	.0	.0	.0	.0	.3	.3	.3	.0	4	1.1
33/39	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
TOTAL	0	1	4	6	30	52	141	142	377	100.0
PCT	.0	.3	1.1	1.6	8.0	13.8	37.4	37.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
.3	.3	.3	.0	.3	.1	.0	.3	.0	.8
1.1	1.1	7.3	2.5	2.0	2.1	2.8	.3	.0	1.9
1.9	7.9	14.8	11.5	6.6	3.6	5.6	2.2	.0	5.0
1.1	2.0	3.3	2.3	1.2	1.3	1.3	1.5	.0	1.1
.0	.1	.2	.1	.2	.1	.2	.0	.0	.3
.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
4.3	11.6	26.9	16.3	10.7	7.2	9.8	4.2	.0	9.0

TABLE 15

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

HR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	65	64	61	54	48	45	42	53.7	135
06609	63	62	57	52	47	44	42	52.0	140
12615	61	59	56	51	46	43	38	50.8	119
18621	63	62	59	52	47	45	42	52.3	132
TOT	65	62	59	52	47	43	38	52.3	526

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	4.0	12.9	13.9	34.7	34.7	34.7	34.7	63	101
06609	.0	2.9	7.8	12.7	39.2	37.3	37.3	37.3	85	102
12615	.0	3.6	4.8	13.1	39.3	39.3	39.3	39.3	86	84
18621	.0	2.1	5.3	15.8	36.8	40.0	40.0	40.0	86	93
TOT	0	12	30	53	143	144	144	144	382	382

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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	TOT	% FOG	MO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
11/13	.0	.0	.0	.0	.0	.2	.4	.0	3	.0	.7
9/10	.0	.0	.0	.0	.0	.0	.2	.7	1	.0	.2
7/8	.0	.0	.0	.0	.2	.2	.7	.0	5	.0	1.1
6	.0	.0	.0	.0	.4	.7	.2	.2	7	.0	1.6
5	.0	.0	.0	.0	2.0	.9	.0	.0	13	.0	2.9
4	.0	.0	.0	.2	2.0	.7	.2	.0	14	.2	2.9
3	.0	.0	.0	.7	2.9	.9	.0	.0	20	.0	4.5
2	.0	.0	.0	2.5	2.0	.2	.0	.0	21	.2	4.5
1	.0	.0	.0	5.1	4.0	1.1	.2	.0	47	.4	10.1
-1	.0	.0	.2	3.4	3.4	.2	.0	.0	41	.2	8.9
-2	.0	.0	.4	2.9	3.8	.7	.0	.0	44	.4	9.4
-3	.0	.0	.9	3.8	3.8	.4	.0	.0	49	.4	10.3
-4	.0	.0	.2	5.1	1.6	.7	.0	.0	34	.2	7.4
-5	.0	.2	1.3	4.0	2.9	.0	.0	.0	38	.0	8.5
-6	.0	.0	1.6	3.4	1.1	.4	.0	.0	29	.2	6.3
-7/-8	.0	.2	1.3	3.8	.4	.2	.0	.0	27	.2	5.8
-9/-10	.0	.0	1.8	3.4	.0	.0	.0	.0	23	.0	5.1
-11/-12	.0	.0	2.0	1.8	.0	.0	.0	.0	17	.2	3.6
-13/-14	.2	.4	.4	1.3	.0	.0	.0	.0	11	.0	2.5
-14/-16	.0	.2	.2	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	1	5	47	139	34	9			467	13	434
PCT	.2	1.1	10.5	43.4	34.7	7.6	2.0	.4	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1962-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	1.3	.0	.0	.0	.0	2.2	.2	1.7	.0	.0	.0	.0	1.9
1-2	.0	1.0	1.0	.0	.0	.0	2.0	.0	1.4	2.1	.8	.0	.0	4.1
3-4	.0	.0	.4	.4	.0	.0	.7	.0	.8	2.1	.8	.0	.0	3.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.8	.7	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.2	.0	.4
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	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.2	1.3	.7	.0	.0	9.2	.2	4.0	6.7	1.7	.2	.0	12.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	2.0	.0	.0	.0	.0	2.6	.4	.8	.0	.0	.0	.0	1.2
1-2	.0	4.3	3.7	.0	.0	.0	8.2	.1	1.4	1.0	.0	.0	.0	3.1
3-4	.0	1.0	3.9	2.1	.0	.0	7.0	.0	1.2	3.0	1.4	.0	.0	3.6
5-6	.0	.0	2.0	.7	.0	.0	2.2	.0	.1	1.1	.4	.0	.0	1.5
7	.0	.0	1.5	.9	1.3	.0	3.7	.0	.0	.8	1.9	.0	.0	2.7
8-9	.0	.0	.0	.6	.5	.0	1.2	.0	.0	.0	.1	.6	.0	.7
10-11	.0	.0	.0	1.1	.4	.0	1.7	.0	.0	.7	.3	.4	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	8.3	11.1	5.4	2.4	.0	27.9	.4	3.3	7.2	4.0	1.1	.0	16.2

PERIOD: (OVER-ALL) 1963-1976

SEPTEMBER

VALDEZ MARINE AREA
59.7N 146.3W

TABLE 18 (CONT)

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

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.4	.0	.0	.0	.0	2.4	.0	.4	.0	.0	.0	.0	.4
1-2	.3	.9	.4	.0	.0	.0	1.9	.0	1.4	.7	.0	.0	.0	2.2
3-4	.0	1.6	1.3	.4	.0	.0	3.3	.7	.9	.8	.4	.0	.0	2.9
5-6	.0	.4	.9	.0	.0	.0	1.5	.0	.4	.8	.0	.1	.0	1.3
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	3.3	.4	.5	.0	9.8	.8	3.0	2.4	.7	.1	.0	7.1

HGT	M						PCT	NW						TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.0	.0	.0	.0	.0	1.0	.1	.2	.0	.0	.0	.0	.3
1-2	.3	2.5	1.1	.0	.0	.0	3.9	.0	.8	1.4	.0	.0	.0	2.2
3-4	.0	2.3	.6	.0	.0	.0	3.0	.0	.4	1.1	.0	.0	.0	1.5
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.4	.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	.6	5.3	2.9	.0	.4	.0	9.3	.1	1.4	2.7	.0	.0	.0	4.2

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	9.3	.0	.0	.0	.0	.0	19.4
1-2	.7	14.0	12.5	.0	.0	.0	.0	27.2
3-4	.7	8.2	13.3	5.4	.0	.0	.0	27.6
5-6	.0	1.4	7.9	1.8	.4	.0	.0	11.5
7	.0	.0	3.2	2.9	1.8	.0	.0	7.9
8-9	.0	.0	.0	1.4	1.4	.0	.0	2.9
10-11	.0	.0	.7	1.4	1.1	.0	.0	3.2
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	11.5	33.3	37.6	12.9	4.7	.0	100.0	279

PERIOD: (OVER-ALL) 1949-1976

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	3.0	11.2	9.6	6.8	3.3	1.6	.5	.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	192	4
6-7	.2	2.1	3.8	5.1	5.6	1.4	1.2	.9	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	101	6
8-9	.0	1.2	1.4	1.6	3.5	1.6	.7	.5	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
10-11	.0	.7	1.4	1.6	.7	1.2	1.6	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	7
12-13	.0	.0	1.6	1.2	.5	.5	.2	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	12	8
13-18	.0	.0	.0	.5	1.4	.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	2
INDRY	6.5	2.6	.5	.7	.7	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	428	2
TOTAL	42	76	87	75	67	28	20	13	17	0	3	0	0	0	0	0	0	0	0	428	5
PCT	9.8	17.8	20.3	17.5	15.7	6.5	4.7	3.0	4.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1963-1976
(OVER-ALL) 1942-1976

OCTOBER

VALDEZ MARINE AREA
59.7N 146.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	VCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	10.4	.0	2.0	.0	2.8	.0	.0	15.2	3.1	.0	1.1	.0	2.0	3.1	75.5
NE	24.3	.0	8.0	.0	2.0	.0	.0	31.7	4.3	.0	3.4	.0	.3	.0	60.3
E	40.9	.9	4.4	.0	1.6	.0	.0	46.2	9.9	.0	.9	.0	.0	.0	42.0
SE	30.5	1.4	9.5	.0	.0	.0	.0	41.4	4.2	.0	.0	.0	.0	.0	54.4
S	16.4	1.5	5.0	.0	.0	.0	1.5	24.4	5.3	.0	.0	.0	.0	.0	70.2
SW	6.5	.0	9.4	.0	.0	.0	.0	14.8	4.9	.0	.4	.0	.0	.0	79.8
W	.0	2.1	2.1	.0	2.1	.0	.0	6.4	3.7	.0	1.8	.0	3.7	.0	84.5
NW	4.1	.0	1.6	.0	.0	.0	.0	5.7	3.7	.0	.0	.0	.4	.4	89.8
VAR	19.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	19.4	.0	6.5	.0	.0	.0	.0	22.6	.0	.0	.0	.0	.0	.0	77.4
TOT PCT	19.2	.6	5.3	.0	1.1	.0	.2	25.6	5.0	.0	1.0	.2	.6	.5	67.3
TOT OBS:	626														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	VCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
0000Z	15.3	1.8	6.5	.0	1.2	.0	.0	24.7	4.7	.0	1.2	.6	1.2	.6	67.1
0600Z	21.8	.0	7.7	.0	.6	.0	.0	29.5	3.2	.0	.0	.0	.6	.6	66.0
1201Z	19.7	.0	4.8	.0	.7	.0	.0	23.2	2.0	.0	1.4	.0	.0	.7	70.7
1802Z	18.2	1.1	2.8	.0	2.3	.0	.6	22.7	8.5	.0	2.3	.0	.6	.0	65.9
TOT PCT	18.6	.8	5.4	.0	1.2	.0	.2	25.4	4.8	.0	1.2	.2	.6	.5	67.3
TOT OBS:	649														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.4	5.2	7.3	.8	.4	.0	14.1	14.0	15.7	.0	13.1	.0	13.1	50.0	14.5	9.4
NE	.4	4.3	5.6	2.9	.6	.2	14.0	16.6	13.0	30.0	11.6	.0	12.9	.0	17.1	28.1
E	.7	3.6	3.2	5.4	3.0	1.2	17.1	23.3	18.0	.0	18.5	.0	14.9	.0	16.3	37.5
SE	.2	3.0	4.5	2.6	.9	.0	11.3	17.9	13.0	.0	11.9	.0	13.1	.0	7.5	15.6
S	.2	4.7	4.4	.8	.4	.0	10.4	13.4	9.9	30.0	11.6	100.0	8.6	50.0	10.1	9.4
SW	.4	4.5	4.3	1.3	.2	.2	10.8	14.1	11.3	.0	9.6	.0	10.5	.0	10.1	.0
W	.3	2.5	3.9	.6	.0	.1	7.4	13.9	7.1	.0	6.0	.0	6.6	.0	10.1	.0
NW	.4	3.7	3.3	.5	.2	.0	10.0	10.9	8.7	.0	11.1	.0	11.2	.0	10.1	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9	.0	.0	.0	.0	.0	4.9	.0	3.1	.0	6.5	.0	9.1	.0	1.8	.0
TOT OBS	69	212	231	95	36	11	634	15.4	161	2	133	1	143	2	164	8
TOT PCT	7.7	33.4	36.4	15.0	5.7	1.7	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	09	12
N	2.7	6.5	3.9	1.0	.0	14.1	14.0	13.3	13.0	13.6	14.2
NE	1.8	6.6	3.8	1.3	.5	14.0	16.6	13.5	11.5	12.8	17.6
E	1.7	3.0	3.5	5.4	1.5	17.1	23.3	17.8	16.3	14.7	17.3
SE	1.6	4.2	3.2	2.1	.2	11.3	17.9	12.9	11.9	12.9	7.8
S	1.7	6.1	2.0	.6	.2	10.4	13.9	10.4	12.2	9.1	10.0
SW	1.8	6.3	2.0	.5	.2	10.8	14.1	11.2	9.6	10.3	12.1
W	1.2	4.3	1.3	.4	.1	7.4	13.9	7.1	6.0	6.6	9.6
NW	2.4	6.7	.7	.0	.2	10.0	10.9	8.6	11.0	11.0	9.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9	.0	.0	.0	.0	4.9	.0	3.1	6.5	9.0	1.7
TOT OBS	125	290	129	72	18	634	15.4	163	134	145	172
TOT PCT	19.7	45.7	20.3	11.4	2.8	100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1963-1976
(OVER-ALL) 1942-1976

OCTOBER

VALDEZ MARINE AREA
59.7N 146.1W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	3.1	1.2	41.1	35.0	11.7	7.4	.8	14.8	100.0	163
0400Z	6.3	2.0	25.3	39.0	16.9	5.8	4.2	16.2	100.0	154
12E15	9.0	2.8	33.1	33.8	13.2	4.8	1.4	14.3	100.0	143
18E21	1.7	4.7	33.7	37.2	16.3	4.7	1.7	15.9	100.0	172
TOT	31	18	212	231	95	36	11	15.4		636
PCT	4.9	2.8	33.4	36.4	15.0	5.7	1.7	100.0		

TABLE 5

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

WIND DIR	TOTAL CLOUD OBS				MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBS	
N	4.8	2.3	3.1	4.4	4.3
NE	2.6	1.3	3.8	6.0	3.6
E	.7	1.6	2.8	11.4	6.9
SE	.4	.5	3.1	7.3	7.1
S	.2	.3	4.5	4.6	6.8
SW	1.0	.7	3.8	3.7	6.2
W	2.3	.8	2.1	2.2	4.6
NW	2.8	1.5	3.0	3.2	4.6
VAR	.0	.0	.0	.0	.0
CALM	1.5	1.0	1.7	1.2	4.5
TOT OBS	85	52	155	229	521
TOT PCT	16.3	10.0	29.8	44.0	100.0

TABLE 6

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

WIND DIR	TOTAL OBS										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.5	.0	.0	.7	5.5	.8	.7	.0	.0	.0	.0	8.4
NE	.6	.4	1.6	2.6	1.8	.7	.0	.6	.0	.0	.0	5.4
E	1.1	.5	1.5	2.2	4.4	1.5	.9	.0	.2	.0	.0	4.3
SE	.9	.2	1.6	5.3	1.4	.2	.0	.0	.0	.0	.0	1.5
S	.1	.0	1.0	4.0	1.1	.3	.0	.0	.0	.0	.0	2.4
SW	.6	.0	2.1	2.9	2.7	.7	.0	.0	.0	.0	.0	2.1
W	.5	.0	.3	.9	.9	1.2	.3	.0	.0	.0	.0	3.2
NW	.2	.0	1.6	1.5	.5	.6	.0	.0	.0	.0	.0	5.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.2	.4	.2	1.0	.4	.0	.0	.0	.0	.0	3.1
TOT OBS	25	4	19	62	136	60	23	0	4	0	188	521
TOT PCT	4.8	.8	3.6	11.9	26.1	11.5	4.4	.0	.8	.0	36.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>3	>2	>1	>1/2	>1/4	>30YD	>0
>6500	.6	.6	.8	.8	.8	.8	.8	.8
>5000	.6	.6	.8	.8	.8	.8	.8	.8
>3500	3.6	4.7	4.9	4.9	4.9	4.9	4.9	4.9
>2000	12.0	15.2	16.7	16.7	16.7	16.7	16.7	16.9
>1000	25.0	34.5	40.3	42.2	42.2	42.2	42.2	42.4
>600	29.5	44.3	51.2	53.8	53.8	54.0	54.0	54.2
>300	30.2	46.0	54.2	57.2	57.2	57.6	57.6	57.8
>150	30.2	46.2	54.6	58.0	58.0	58.3	58.3	58.5
>0	30.2	46.9	57.0	61.2	62.3	62.9	63.2	63.4
TOTAL	161	250	304	326	332	335	337	338

TOTAL NUMBER OF OBS: 533

PCT FREQ NH <5/8: 36.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	12.8	3.9	5.5	7.7	7.1	8.0	10.0	9.6	31.5	3.9	562

PERIOD: (PRIMARY) 1963-1976
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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.2	.3	.0	.0	.2	.2	.0	.0	.8	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.3	.2	.0	.2	.2	.0	.0	1.0	
1/2<1	PCP	.0	.0	.3	.3	.0	.3	.0	.0	.0	.0	1.0	
	NO PCP	.2	.0	.1	.0	.0	.2	.0	.0	.0	.0	.5	
	TOT %	.2	.0	.4	.4	.0	.5	.0	.0	.0	.0	1.4	
1<2	PCP	.2	.6	1.3	.8	.3	.0	.2	*	.0	.5	3.8	
	NO PCP	.0	.2	.3	.2	.1	*	.3	.0	.0	.0	1.1	
	TOT %	.2	.7	1.6	1.0	.4	*	.4	*	.0	.5	5.0	
2<5	PCP	1.2	1.3	2.6	.8	.8	.1	.0	.4	.0	.2	7.2	
	NO PCP	.5	1.0	.4	.7	.9	.4	.1	.2	.0	.0	4.2	
	TOT %	1.6	2.3	3.0	1.5	1.7	.5	.1	.5	.0	.2	11.4	
5<10	PCP	.6	1.5	3.3	1.9	.9	1.0	.2	.0	.0	.5	9.9	
	NO PCP	1.5	1.7	2.4	1.7	1.1	2.0	.5	1.2	.0	.2	12.3	
	TOT %	2.2	3.2	5.7	3.6	2.0	3.0	.7	1.2	.0	.6	22.2	
10+	PCP	.1	1.0	.4	.6	.6	*	.0	.2	.0	.0	2.9	
	NO PCP	9.8	6.7	6.0	4.0	5.6	6.4	6.1	7.9	.0	3.7	56.2	
	TOT %	9.9	7.8	6.4	4.6	6.2	6.4	6.1	8.0	.0	3.7	59.0	
TOT OBS												625	
TOT PCT		14.1	14.0	17.3	11.4	10.5	10.4	7.5	10.0	.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
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.2	.0	.0	.2	.0	.0	.5	
	11-21	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.3	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.2	.3	.2	.0	.2	.2	.0	.0	1.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.2	.0	.1	*	.0	.5	.0	.0	.0	.0	.8	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.2	.0	.4	.4	.0	.5	.0	.0	.0	.0	1.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.3	
	4-10	.0	.2	.1	*	.2	.0	.2	.0	.0	.0	.6	
	11-21	.1	.2	.6	.1	.1	.0	.2	*	.0	.0	1.3	
	22+	.1	.4	.9	.8	.2	*	.1	.0	.0	.0	2.6	
	TOT %	.2	.7	1.6	1.0	.4	*	.5	*	.0	.0	4.9	
2<5	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.2	.3	
	4-10	.0	.4	.6	.6	.7	.1	.0	.2	.0	.0	1.9	
	11-21	1.0	1.2	.2	.6	.9	.4	.1	.3	.0	.0	4.6	
	22+	.6	.7	2.2	.9	.1	.0	.0	.0	.0	.0	4.5	
	TOT %	1.6	2.3	3.0	1.5	1.7	.5	.1	.3	.0	.2	11.3	
5<10	0-3	.1	*	.2	*	.2	.2	.0	*	.0	.6	1.4	
	4-10	1.4	.5	.5	.8	.3	1.3	.2	.9	.0	.0	6.1	
	11-21	.4	1.2	.9	2.0	1.2	.7	.4	.2	.0	.0	7.0	
	22+	.3	1.4	4.0	.8	.4	.6	.0	.0	.0	.0	7.7	
	TOT %	2.2	3.2	5.7	3.6	2.0	3.0	.7	1.2	.0	.6	22.2	
10+	0-3	.1	.3	.5	.2	.0	.2	.3	.4	.0	3.7	5.6	
	4-10	3.7	3.1	2.4	2.0	3.3	2.8	2.2	4.3	.0	.0	23.9	
	11-21	5.7	3.1	1.4	1.7	2.3	2.7	3.1	2.8	.0	.0	22.9	
	22+	.5	1.2	2.1	.8	.6	1.0	.6	.6	.0	.0	7.2	
	TOT %	9.8	7.7	6.4	4.6	6.1	6.7	6.1	8.0	.0	3.7	59.2	
TOT OBS												627	
TOT PCT		14.0	13.9	17.3	11.4	10.4	10.6	7.5	9.9	.0	4.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND OCCURRENCE OF NM <3/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <3/8 ANY HGT	TOTAL OBS
(GHT)	149	299	599	999	1999	3499	4999	6499	7999				
00603	4.0	.0	4.0	10.6	25.8	11.9	4.6	.0	.7	.0	61.6	38.4	151
06609	5.4	.8	6.2	6.2	25.6	14.0	3.9	.0	1.6	.0	63.6	36.4	129
12615	8.5	.0	3.1	9.2	27.7	7.7	4.6	.0	.8	.0	61.5	38.5	150
18621	1.4	2.2	.7	19.6	21.7	12.3	3.6	.0	.0	.0	61.6	38.4	138
TOT	26	4	19	63	138	62	23	0	4	0	340	208	548
PCT	4.7	.7	3.5	11.5	25.2	11.5	4.2	.0	.7	.0	62.0	38.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GHT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	1.8	1.2	3.5	9.4	22.4	61.8	170
06609	.6	.6	5.2	15.5	20.6	57.4	155
12615	2.0	1.4	4.7	10.1	23.0	58.8	148
18621	.6	2.3	6.2	10.2	21.5	59.3	177
TOT	8	9	32	73	142	386	650
PCT	1.2	1.4	4.9	11.2	21.8	59.4	100.0

TABLE 12

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

HR (GHT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND 5+	NM <3/8 AND 5+	TOTAL OBS
00603	4.1	8.8	27.9	38.1	34.0	147
06609	5.6	12.7	31.0	34.1	34.9	126
12615	9.7	12.9	30.6	34.7	34.7	124
18621	1.5	5.9	33.8	30.9	35.3	136
TOT	27	53	164	184	185	533
PCT	5.1	9.9	30.8	34.5	34.7	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
55/59	.0	.0	.0	.0	.3	.5	.3	.0	4	1.1
50/54	.0	.0	.3	.8	.8	3.0	4.9	2.8	50	13.5
45/49	.0	.0	.3	.5	7.0	11.1	16.7	12.7	179	48.2
40/44	.0	.3	.8	2.2	4.0	5.9	10.0	7.3	113	30.5
35/39	.0	.0	.0	.5	.3	2.7	.8	1.3	21	5.7
30/34	.0	.0	.0	.0	.3	.0	.3	.5	4	1.1
TOTAL	0	1	5	15	47	86	122	95	371	100.0
PCT	.0	.3	1.3	4.0	12.7	23.2	32.9	25.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.3	.0	.5	.0	.0	.0	.0	.0	.0
1.8	.3	3.4	.9	1.9	1.2	1.3	2.0	.0	.8
5.2	6.7	8.6	6.1	8.6	4.6	2.4	3.6	.0	2.4
5.8	6.5	5.1	1.8	1.2	3.3	2.6	1.9	.0	2.2
1.5	.7	.5	.1	.2	.3	.4	1.1	.0	.8
.7	.0	.0	.0	.0	.0	.0	.3	.0	.0
15.2	14.6	17.6	9.4	11.9	9.4	6.8	9.0	.0	6.2

TABLE 15

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

HR (GHT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	66	65	59	47	38	32	32	46.2	167
06609	53	53	50	45	38	32	26	44.9	158
12615	59	58	50	45	38	32	26	44.5	146
18621	64	64	52	45	37	32	25	44.8	174
TOT	66	65	51	45	38	32	25	45.1	643

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GHT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	8.3	12.0	20.4	36.1	23.1	80	108		
06609	.0	3.4	11.4	19.3	39.8	26.1	52	88		
12615	.0	5.6	18.0	31.5	23.6	21.3	78	89		
18621	.0	5.2	10.3	20.6	33.0	30.9	82	97		
TOT	0	22	49	87	127	97	81	382		

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TABLE 17

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

AIR-SEA TMP DIF	25	29	33	37	41	45	49	53	57	61	65	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.4
11/13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
5	.0	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	3	.0	.5
4	.0	.0	.0	.0	.0	.4	.4	.4	.0	.0	.0	4	.0	.7
3	.0	.0	.0	.0	.0	.7	.7	.5	.0	.0	.0	11	.0	2.0
2	.0	.0	.0	.0	.2	.2	.7	.7	.0	.0	.0	10	.0	1.8
1	.0	.0	.0	.0	.2	.9	.9	.0	.0	.0	.0	9	.0	1.6
0	.0	.0	.0	.0	.2	2.4	2.2	.0	.0	.0	.0	26	.0	4.8
-1	.0	.0	.0	.2	.4	4.0	3.3	.5	.0	.0	.0	46	.0	8.4
-2	.0	.0	.0	.0	.9	6.2	2.7	.4	.0	.0	.0	36	.0	10.2
-3	.0	.0	.0	.0	1.3	8.8	2.4	.0	.0	.0	.0	68	.0	12.4
-4	.0	.0	.0	.0	2.7	5.3	1.1	.0	.0	.0	.0	30	.0	9.1
-5	.0	.0	.0	.4	2.2	5.3	.4	.0	.0	.0	.0	43	.2	8.0
-6	.0	.0	.0	1.1	5.1	2.7	.4	.0	.0	.0	.0	51	.4	9.0
-7/-8	.0	.0	.0	1.8	7.3	2.6	.4	.0	.0	.0	.0	66	.0	12.1
-9/-10	.0	.0	.2	2.2	5.3	.7	.0	.0	.0	.0	.0	47	.2	8.4
-11/-13	.0	.0	.7	3.8	.7	.4	.2	.0	.0	.0	.0	32	.2	5.7
-14/-16	.2	.5	.5	.0	.2	.4	.0	.0	.0	.0	.0	10	.0	1.8
-17/-19	.0	.4	.2	.0	.0	.2	.0	.0	.0	.0	.0	4	.0	.7
-20/-22	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
-23/-25	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2	.0	.4
TOTAL	3	9	9	148	225	86	16	0	1	1	1	547	5	542
PCT	.5	.9	1.6	9.7	27.1	41.1	15.7	2.9	.0	.2	.2	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N						PCT	NE						
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.0	2.1	.6	.0	.0	.0	2.7	.2	1.7	.3	.0	.0	.0	2.2
1-2	.2	.9	2.2	.0	.0	.0	3.2	.1	2.3	1.8	.0	.0	.0	4.2
3-4	.0	1.5	3.2	.2	.0	.0	4.9	.0	.5	2.0	.9	.0	.0	3.4
5-6	.0	.0	.5	.7	.0	.0	1.2	.0	.0	1.2	.5	.0	.0	1.7
7	.0	.0	.5	.2	.2	.0	.9	.0	.0	.0	.6	.1	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.7
10-11	.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
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	4.4	7.2	1.1	.2	.0	13.1	.4	4.4	3.4	2.8	.1	.0	12.9

HGT	E						PCT	SE						
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
41	.9	1.9	.4	.0	.0	.0	3.2	.3	1.5	.0	.0	.0	.0	1.8
1-2	.2	1.0	1.1	.0	.0	.0	2.3	.0	1.5	1.5	.0	.0	.0	3.0
3-4	.0	.2	.5	1.2	.0	.0	1.9	.0	.1	2.0	.4	.0	.0	2.4
5-6	.0	.2	.4	1.0	.2	.0	1.8	.0	.0	1.4	.3	.0	.0	1.7
7	.0	.2	.0	.9	.7	.2	2.1	.0	.1	1.0	.1	.0	.0	1.2
8-9	.0	.0	.0	.9	.0	.2	1.1	.0	.0	.5	.0	.0	.1	1.1
10-11	.0	.0	.2	.2	.9	.2	1.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.2	.0	.5	.5	.0	1.2	.0	.0	.0	.2	.2	.0	.5
13-16	.0	.0	.2	.4	.2	.5	1.4	.0	.0	.0	1.3	.3	.0	1.6
17-19	.0	.0	.0	.2	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.8	2.9	5.4	3.1	1.2	17.5	.3	3.2	6.3	2.9	.6	.1	13.3

PERIOD: (OVER-ALL) 1963-1976

OCTOBER

VALDEZ MARINE AREA
59.7N 146.1W

TABLE 18 (CONT)

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

HGT	S						PCT	SH						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.5	1.7	.0	.0	.0	.0	2.1
1-2	.0	2.9	1.4	.0	.0	.0	4.3	.0	1.0	.9	.0	.0	.0	1.9
3-4	.2	.9	.4	.0	.0	.0	1.5	.0	1.7	1.0	.0	.0	.0	2.6
5-6	.0	.7	1.6	.2	.0	.0	2.5	.0	.6	1.2	.6	.0	.0	2.3
7	.0	.2	.7	.2	.0	.0	1.0	.0	.2	1.6	.3	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.2	.0	.0	.6
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.4	.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	.2	5.6	4.1	.9	.4	.0	11.2	.3	3.1	4.9	1.3	.0	.0	11.9

HGT	M						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.6	.2	.0	.0	.0	.9	.0	3.0	.1	.0	.0	.0	3.1	
1-2	.0	.5	.0	.0	.0	.0	.5	.0	2.1	.9	.0	.0	.0	3.0	
3-4	.0	.4	1.2	.0	.0	.0	1.6	.0	.2	1.0	.0	.0	.0	1.3	
5-6	.0	.2	.6	.2	.0	.0	1.0	.0	.0	.7	.1	.0	.0	.8	
7	.0	.0	1.3	.2	.0	.0	1.5	.0	.2	.9	.0	.2	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
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	.2	.0	.0	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.7	3.5	.4	.0	.0	5.6	.0	3.8	3.7	.3	.2	.0	10.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.6	13.2	1.7	.0	.0	.0	21.5	
1-2	.5	12.2	9.8	.0	.0	.0	22.5	
3-4	.2	5.4	11.2	2.7	.0	.0	19.6	
5-6	.0	1.7	7.6	3.4	.2	.0	13.0	
7	.0	1.0	5.9	2.4	1.2	.2	10.8	
8-9	.0	.0	.5	2.4	.0	.2	3.2	
10-11	.0	.0	.7	.7	1.0	.2	2.7	
12	.0	.5	.0	.7	1.0	.0	2.2	
13-16	.0	.0	.2	2.2	.7	.5	3.7	
17-19	.0	.0	.2	.5	.0	.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	7.3	34.0	37.9	14.9	4.6	1.2	100.0	409

PERIOD: (OVER-ALL) 1953-1976

TABLE 19

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.6	9.2	12.9	8.1	4.6	1.6	.4	.9	.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	4
6-7	.0	1.4	5.3	4.4	4.6	3.7	2.8	1.1	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	7
8-9	.0	.2	2.5	1.2	.9	1.6	1.4	.9	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	8
10-11	.0	1.8	.7	.9	1.1	1.1	.7	.5	.5	.7	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	48	8
12-13	.0	.0	.9	.5	1.1	1.1	.4	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	9
>13	.0	.0	.0	.7	.0	.2	.4	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
INDEX	6.9	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	0
TOTAL	48	77	127	90	69	52	34	22	29	13	6	0	1	0	0	0	0	0	0	0	568	6
PCT	8.5	13.6	22.4	15.8	12.1	9.2	6.0	3.9	5.1	2.3	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1942-1976

NOVEMBER

VALDEZ MARINE AREA
59.7N 145.9W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.9	3.4	1.5	.0	3.9	.0	.0	9.7	1.5	.0	.0	.0	.0	.0	88.8
NE	15.5	1.8	11.5	.0	11.2	.0	.0	38.8	4.5	.0	2.4	1.2	.0	.0	33.0
E	26.2	1.6	3.8	.9	6.0	.9	.0	37.6	7.8	.0	1.8	.0	.9	.9	51.1
SE	23.1	.0	2.7	.0	3.6	.0	.0	29.4	6.8	1.8	.0	.0	1.8	.0	60.2
S	13.1	.0	2.9	.0	3.8	.0	.0	21.9	2.9	.0	.0	.0	.0	.0	75.2
SW	.0	5.9	8.8	.0	4.4	.0	.0	16.2	10.3	.0	.0	.0	.0	.0	73.5
W	3.3	.0	3.8	.0	5.7	.0	.0	13.3	8.6	.0	.0	.0	.0	.0	78.1
NW	.0	4.9	2.3	.0	.0	.0	.0	7.4	.6	.0	.0	.0	2.5	.0	89.6
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	13.6	2.0	4.8	.2	5.5	.2	.0	25.2	5.3	.2	.9	.2	.7	.2	67.3
TOT OBS:	496														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0600Z	17.4	4.2	5.6	.0	7.6	.0	.0	32.6	5.6	.7	.7	.0	.0	.0	60.4
0600Z	11.9	.9	5.3	.9	5.5	.0	.0	24.8	6.4	.0	.0	.0	.0	.0	68.8
1215Z	8.7	1.7	1.7	.0	3.5	.9	.0	15.7	4.3	.0	2.8	.0	1.7	.0	75.7
1821Z	15.7	.0	3.6	.0	3.7	.0	.0	24.1	5.6	.0	.9	.9	.9	1.9	65.7
TOT PCT	13.7	1.9	4.6	.2	5.3	.2	.0	24.8	5.5	.2	1.1	.2	.6	.4	67.2
TOT OBS:	476														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47				48+	00	03	06	09	12	15	18
N	.2	4.0	5.2	1.2	.8	.0	11.4	15.7	13.6	.0	9.3	.0	11.5	.0	12.0	.0
NE	.7	4.9	7.6	3.9	1.2	.3	18.5	17.1	19.4	62.5	15.0	50.0	17.4	36.3	17.3	50.3
E	.4	4.4	7.3	3.5	5.9	1.1	24.6	24.0	22.1	37.5	28.2	25.0	25.9	43.8	23.0	.0
SE	.0	1.7	5.6	3.4	.9	.5	12.0	20.8	10.9	.0	11.8	25.0	9.9	.0	15.8	25.0
S	.2	3.0	2.7	.5	.9	.2	7.4	15.9	5.8	.0	8.1	.0	6.7	.0	11.0	.0
SW	.3	3.1	3.1	.5	.3	.1	7.4	13.6	8.5	.0	7.8	.0	7.8	.0	5.9	.0
W	.3	2.7	2.1	.3	.3	.0	5.7	12.8	4.0	.0	7.6	.0	5.3	.0	7.4	.0
NW	.5	2.4	4.4	1.1	.5	.0	8.8	15.1	10.7	.0	8.3	.0	10.1	.0	6.6	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1	.0	.0	.0	.0	.0	4.1	.0	3.1	.0	3.9	.0	5.5	.0	1.0	25.0
TOT OBS	31	121	174	76	49	10	461	17.6	138	2	102	4	109	4	98	4
TOT PCT	6.7	26.2	37.7	16.5	10.6	2.2	100.0	17.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40				41+	00	03	06	09	12	15
N	1.0	6.9	2.4	.7	.4	11.4	15.7	13.4	9.0	11.1	11.5			
NE	1.8	8.7	6.0	1.3	.7	18.5	17.1	20.0	16.3	18.8	18.6			
E	1.8	7.2	6.7	6.0	2.9	24.6	24.0	22.3	28.1	26.5	22.1			
SE	.8	4.3	5.0	1.2	.7	12.0	20.8	10.7	12.5	9.5	16.2			
S	1.0	4.5	.9	.7	.4	7.4	15.9	5.7	7.8	6.4	10.5			
SW	1.5	3.9	1.7	.3	.1	7.4	13.6	8.4	7.5	7.5	5.6			
W	1.5	2.7	1.2	.3	.0	5.7	12.8	3.9	7.3	5.1	7.1			
NW	1.4	4.4	2.5	.5	.0	8.8	15.1	10.5	8.0	9.7	6.4			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	4.1	.0	.0	.0	.0	4.1	.0	3.0	3.8	3.3	2.0			
TOT OBS	49	196	122	51	23	461	17.6	140	106	113	102			
TOT PCT	15.0	42.3	26.5	11.1	5.0	100.0	17.6	100.0	100.0	100.0	100.0			

NOVEMBER

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1942-1976

VALDEZ MARINE AREA
59.7N 145.0W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0603	5.0	2.1	20.0	32.1	22.1	15.0	3.6	20.2	100.0	140
06109	3.8	3.8	35.8	33.0	12.3	11.3	.0	15.9	100.0	106
12115	5.3	1.8	29.2	41.6	14.2	5.3	2.7	15.7	100.0	113
1821	2.0	2.9	21.6	46.1	15.7	9.8	2.0	18.0	100.0	102
TOT	19	12	121	174	76	49	10	17.6		461
PCT	4.1	2.6	26.2	37.7	16.5	10.6	2.2	100.0		

TABLE 5

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

WND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &		
N	5.1	1.6	3.9	1.6		3.5
NE	2.2	1.2	3.2	11.5		6.4
E	1.0	1.1	6.1	17.2		7.1
SE	.4	.4	3.4	6.3		6.9
S	.7	1.0	2.1	3.0		6.0
SW	1.2	.9	2.8	3.2		6.5
W	1.1	.8	1.9	1.3		3.0
NW	3.1	1.5	2.7	2.0		4.3
VAR	.0	.0	.0	.0		.0
CALM	2.0	.8	1.7	.8	355	3.8
TOT OBS	36	33	99	167	355	5.8
TOT PCT	15.8	9.3	27.9	47.0	100.0	

TABLE 6

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

WND DIR	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)												NM <5/8 ANY HGT	TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+					
	149	299	599	999	1999	3999	6999	7999							
N	.5	.0	.2	.5	1.1	2.3	.0	.0	.3	.0	.0	.0	.0	.0	7.5
NE	2.7	.6	.6	1.8	4.7	1.8	.6	.3	.4	.0	.0	.0	.0	.0	4.5
E	3.4	1.1	.3	3.5	6.3	4.3	1.9	.0	.2	.0	.0	.0	.0	.0	4.3
SE	.8	.1	.6	1.6	3.7	1.3	.3	.0	.0	.0	.0	.0	.0	.0	2.0
S	.7	.5	.6	.2	1.1	1.0	.3	.0	.0	.0	.0	.0	.0	.0	2.5
SW	.0	.3	.3	2.1	1.9	1.1	.3	.1	.0	.0	.0	.0	.0	.0	1.1
W	.0	.0	.0	.4	.9	.7	.0	.2	.0	.0	.0	.0	.0	.0	2.9
NW	.0	.0	.6	.3	.4	1.7	.6	.3	.0	.0	.0	.0	.0	.0	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	1.1	.6	.6	.3	.0	.0	.0	.0	.0	.0	2.8
TOT OBS	29	9	11	38	73	52	16	4	3	1	117	355			
TOT PCT	8.2	2.5	3.1	10.7	21.1	14.6	4.5	1.1	.8	.3	33.0	100.0			

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
= OR >6500	.8	.8	.8	1.1	1.1	1.1	1.1	1.1
= OR >5000	1.9	1.9	1.9	2.2	2.2	2.2	2.2	2.2
= OR >3500	5.2	6.6	6.6	6.9	6.9	6.9	6.9	6.9
= OR >2000	11.5	16.7	20.8	21.4	21.4	21.6	21.9	21.9
= OR >1000	22.3	32.6	40.3	41.4	41.9	42.2	42.5	42.5
= OR >600	28.8	41.6	50.1	51.8	52.6	52.9	53.2	53.4
= OR >300	29.9	43.8	52.9	54.8	55.6	55.9	56.2	56.4
= OR >150	31.0	45.8	55.3	57.3	58.1	58.4	58.6	58.9
= OR >0	31.5	47.4	59.7	62.3	64.7	66.6	66.8	67.1
TOTAL	115	173	218	228	236	243	244	245

TOTAL NUMBER OF OBS: 365

PCT FREQ NM <5/8: 32.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	11.6	4.1	4.9	7.0	4.6	5.9	11.3	13.7	30.2	6.7	388

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1942-1976

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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 DBS
<1/2	PCP	.2	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.9
	NO PCP	.0	.2	.4	.0	.0	.1	.2	.0	.0	.0	.0	.9
	TOT %	.2	.5	.9	.0	.0	.1	.2	.0	.0	.0	.0	1.8
1/2<1	PCP	.0	.7	.7	.1	.2	.1	.2	.0	.0	.0	.0	1.8
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.9	.7	.1	.2	.1	.2	.0	.0	.0	.0	2.0
1<2	PCP	.7	.9	1.0	.3	.4	.0	.0	.0	.0	.0	.0	3.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.7	.9	1.0	.3	.4	.0	.0	.0	.0	.0	.0	3.3
2<5	PCP	.0	2.1	4.3	1.9	.0	.2	.0	.2	.0	.0	.0	8.8
	NO PCP	.3	1.4	1.7	1.4	.8	.8	.0	.7	.0	.0	.0	7.2
	TOT %	.3	3.6	6.0	3.2	.8	1.0	.0	.9	.0	.0	.0	16.0
5<10	PCP	.0	2.5	2.2	1.2	.7	.2	.7	.2	.0	.0	.0	7.2
	NO PCP	2.5	1.2	4.0	3.0	1.2	1.6	.7	2.0	.0	.0	.0	16.4
	TOT %	2.5	3.7	6.3	4.1	1.9	1.9	.9	2.2	.0	.0	.0	23.7
10+	PCP	.2	.5	.8	.2	.4	.7	.4	.2	.0	.0	.0	3.5
	NO PCP	7.3	8.1	9.3	4.2	3.9	3.8	4.1	5.4	.0	.0	.0	49.8
	TOT %	7.6	8.6	10.1	4.4	4.3	4.5	4.5	5.6	.0	.0	.0	53.3
TOT OBS		11.3	18.1	24.9	12.1	7.5	7.5	5.8	8.7	.0	4.2	100.0	456
TOT PCT													

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.2	.3	.9	.0	.0	.1	.2	.0	.0	.0	.0	1.5
	TOT %	.2	.5	.9	.0	.0	.1	.2	.0	.0	.0	.0	1.7
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.7	.0	.1	.2	.0	.0	.0	.0	.0	.0	.9
	11-21	.0	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.7
	22+	.0	.0	.2	.0	.0	.1	.2	.0	.0	.0	.0	.4
	TOT %	.0	.9	.7	.1	.2	.1	.2	.0	.0	.0	.0	2.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.2
	11-21	.5	.6	.4	.0	.2	.0	.0	.0	.0	.0	.0	1.7
	22+	.2	.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	1.3
	TOT %	.7	.9	1.0	.3	.4	.0	.0	.0	.0	.0	.0	3.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	4-10	.0	.2	.4	.2	.2	.2	.0	.2	.0	.0	.0	1.5
	11-21	.0	1.0	1.8	1.4	.4	.3	.0	.7	.0	.0	.0	5.5
	22+	.3	2.3	4.0	1.6	.2	.3	.0	.0	.0	.0	.0	8.7
	TOT %	.3	3.5	6.0	3.2	.8	1.0	.0	.9	.0	.0	.0	15.9
5<10	0-3	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	.7
	4-10	1.1	1.1	.8	.9	.4	.9	.4	.7	.0	.0	.0	6.3
	11-21	1.3	1.1	1.0	1.4	.9	.7	.4	.9	.0	.0	.0	7.6
	22+	.2	1.1	4.4	1.8	.6	.2	.2	.3	.0	.0	.0	9.0
	TOT %	2.5	3.7	6.2	4.1	1.9	1.9	.9	2.2	.0	.0	.0	23.6
10+	0-3	.2	.4	.4	.0	.2	.3	.3	.3	.0	.0	.0	3.7
	4-10	2.9	2.7	3.2	.5	2.1	2.0	2.3	1.3	.0	.0	.0	17.0
	11-21	3.4	4.5	3.9	2.7	1.2	1.9	1.7	2.9	.0	.0	.0	22.3
	22+	1.2	1.1	2.3	1.2	.8	.3	.2	1.1	.0	.0	.0	8.9
	TOT %	7.8	8.7	10.0	4.4	4.3	4.5	4.3	5.6	.0	.0	.0	53.3
TOT OBS		11.5	18.2	24.8	12.1	7.5	7.4	5.7	8.7	.0	4.1	100.0	458
TOT PCT													

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PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1942-1976

VALDEZ MARINE AREA
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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	180	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000	6.4	.9	4.6	13.8	19.3	22.0	4.0	1.8	.9	.0	74.3	23.7	109
0600	11.6	3.5	2.3	8.1	18.6	11.6	4.7	.0	1.2	1.2	62.8	37.2	86
1200	9.1	1.0	2.0	10.1	21.2	12.1	4.0	1.0	.0	.0	60.6	39.4	99
1800	5.1	5.1	2.5	10.1	24.1	11.4	6.3	1.3	1.3	.0	67.1	32.9	79
TOT	30	9	11	40	77	55	18	4	3	1	248	125	373
PCT	8.0	2.4	2.9	10.7	20.6	14.7	4.8	1.1	.8	.3	64.3	33.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	3.4	.7	6.9	17.9	26.2	44.8	145
0600	.9	1.8	4.5	12.7	25.5	34.5	110
1200	2.6	3.4	.0	19.8	13.8	60.3	116
1800	.0	1.9	2.8	13.1	26.2	36.1	107
TOT	9	9	18	77	110	255	478
PCT	1.9	1.9	3.8	16.1	23.0	53.3	100.0

TABLE 12

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

HOUR (GMT)	<150 <90VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
0000	7.5	13.0	43.9	32.7	23.4	107
0600	11.8	18.8	31.8	32.9	35.3	85
1200	9.5	13.7	40.0	28.4	31.6	95
1800	5.1	14.1	32.1	37.2	30.8	78
TOT	31	56	137	119	109	365
PCT	8.5	15.3	37.5	32.6	29.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
55/59	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
50/54	.0	.0	.0	.0	.0	.0	.9	.0	2	.9
45/49	.0	.0	.0	.9	2.6	3.9	4.7	6.9	44	18.9
40/44	.0	.0	1.3	.4	5.2	6.9	18.5	16.3	113	48.5
35/39	.0	.0	1.3	1.3	2.6	4.3	6.9	7.3	35	23.6
30/34	.0	.0	.0	.0	1.7	.9	.9	2.1	13	3.6
25/29	.0	.0	.0	.0	.0	.9	1.3	.0	5	2.1
TOTAL	0	0	6	6	28	38	76	79	233	100.0
PCT	.0	.0	2.6	2.6	12.0	16.3	32.6	33.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
50/54	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
45/49	.3	2.9	5.3	5.5	1.2	2.3	.3	.1	.0	.9
40/44	4.2	10.2	12.3	2.7	4.0	4.4	3.3	4.8	.0	2.6
35/39	3.8	4.1	3.5	.8	1.2	1.5	1.4	2.8	.0	2.6
30/34	1.3	.4	.4	.4	.0	.8	1.0	.9	.0	.4
25/29	.8	.1	.0	.0	.0	.4	.0	.4	.0	.4
TOTAL	12.8	17.7	22.2	9.8	6.3	9.3	6.0	9.0	.0	6.9

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	55	53	47	40	30	23	28	39.9	140
0600	49	48	46	40	31	23	23	39.3	108
1200	49	48	46	41	30	24	24	39.9	114
1800	52	48	46	40	29	23	23	39.9	103
TOT	55	49	46	40	30	24	23	39.7	465

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	9.5	9.5	20.6	25.4	34.9	31	63		
0600	.0	2.0	13.7	19.6	37.3	27.5	42	51		
1200	.0	3.0	16.4	11.9	32.8	35.8	53	67		
1800	.0	5.3	8.8	15.8	35.1	35.1	54	57		
TOT	0	12	29	40	77	80	82	238		

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TABLE 17

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

AIR-SEA TMP DIF	21 24	25 28	29 32	33 36	37 40	41 44	45 48	49 52	53 56	TOT	N FOG	MD FOG
5	.0	.0	.0	.0	.0	.3	.0	.3	.3	3	.0	.8
3	.0	.0	.0	.0	.0	1.1	1.1	.0	.3	9	.0	2.4
2	.0	.0	.0	.0	.0	.3	.8	.5	.0	6	.0	1.6
1	.0	.0	.0	.0	.0	1.1	1.6	.0	.0	10	.0	2.7
0	.0	.0	.0	.3	.0	.8	1.3	.0	.0	9	.0	2.4
-1	.0	.0	.0	.0	.0	1.1	2.7	.0	.0	14	.0	3.8
-2	.0	.0	.0	.0	.8	5.1	3.2	.0	.0	34	.3	8.9
-3	.0	.0	.0	.0	1.3	4.6	1.9	.0	.0	29	.0	7.8
-4	.0	.0	.0	.3	.3	2.7	.0	.0	.0	14	.0	3.8
-5	.0	.0	.0	.0	1.1	2.7	4.8	1.1	.0	34	.3	9.4
-6	.0	.0	.0	.0	4.3	3.2	.0	.0	.0	28	.0	7.3
-7/-8	.0	.0	.0	2.4	6.7	3.8	.3	.0	.0	49	.0	13.2
-9/-10	.0	.0	1.1	2.4	7.8	1.6	.0	.0	.0	48	.0	12.9
-11/-13	.0	.0	1.1	4.8	5.1	.0	.0	.0	.0	41	.0	11.0
-14/-16	.0	.8	2.2	2.7	.0	.3	.0	.0	.0	22	.3	5.6
-17/-19	.0	1.3	1.3	.5	.5	.0	.0	.0	.0	14	.3	3.5
-20/-22	.8	.3	.3	.0	.0	.0	.0	.0	.0	5	.0	1.3
-23/-25	.0	.3	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3		22		111		52		2	372	4	368
PCT	.8	2.7	5.9	14.8	29.8	30.6	14.0	.8	.5	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1942-1976

TABLE 18

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

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.1	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	3.6	.0	.0	.0	9.4	.0	1.3	3.2	.0	.0	.0	4.5
3-4	.0	.7	2.0	.6	.0	.0	3.4	.0	1.4	1.4	.9	.0	.0	3.6
5-6	.0	.0	.5	.3	.0	.0	.8	.0	.0	1.1	1.3	.4	.0	2.7
7	.0	.0	.4	.4	.6	.0	1.4	.0	.4	.4	1.6	.1	.0	2.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.4	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.1	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.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	4.5	6.5	1.3	.6	.0	13.4	.0	3.0	7.1	4.7	.9	.0	13.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.6	.3	.0	.0	.0	1.3	.0	.5	.5	.0	.0	.0	1.0
1-2	.0	2.5	1.4	.0	.0	.0	3.9	.0	1.2	1.1	.0	.0	.0	2.3
3-4	.4	1.5	4.5	1.4	.0	.0	7.7	.0	.1	2.6	.3	.0	.0	3.2
5-6	.0	.0	2.5	1.0	.3	.0	3.7	.0	.1	2.1	.4	.1	.0	2.6
7	.0	.0	.4	1.5	2.0	.0	3.8	.0	.1	.0	.9	.3	.0	1.5
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.4	.4	.4	.0	1.1
10-11	.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.3	.0	.0	.0
13-16	.0	.0	.0	.6	.5	.0	1.2	.0	.0	.0	.3	.2	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.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	4.6	9.0	5.5	4.5	.4	26.7	.0	2.0	6.6	2.5	1.2	.0	12.4

PERIOD: (OVER-ALL) 1963-1976

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TABLE 18 (CONT)

VALDEZ MARINE AREA
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PCT FREQ OF WIND Speed (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	SW						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.0	.7
1-2	.0	.9	1.1	.0	.0	.0	2.0	.0	1.3	1.3	.0	.0	.0	.0	2.9
3-4	.0	1.4	.7	.3	.0	.0	2.4	.0	2.2	1.2	.0	.0	.0	.0	3.9
5-6	.0	.6	.6	.0	.7	.0	2.0	.0	.1	.5	.0	.0	.0	.0	2.6
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.5	2.5	.5	.7	.3	7.5	.0	2.8	2.7	.1	.4	.1	.1	6.1

HGT	W						PCT	NW						TOTAL PCT	
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.4	.0	.0	.0	.0	.7
1-2	.0	.5	.4	.0	.0	.0	.9	.0	1.3	1.3	.0	.0	.0	.0	2.9
3-4	.3	.5	1.0	.0	.0	.0	1.8	.1	2	2.9	.4	.0	.0	.0	3.9
5-6	.0	.3	.3	.0	.0	.0	.3	.0	.7	.5	1.1	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.4	.0	.0	1.1
10-11	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	1.7	2.2	.3	.3	.0	4.7	.8	2.5	5.9	1.5	.9	.0	11.2	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	5.1	3.3	1.1	.0	.0	.0	.0	9.5
1-2	.4	10.9	12.7	.0	.0	.0	.0	24.0
3-4	.7	8.0	16.4	4.0	.0	.0	.0	29.1
5-6	.4	1.8	8.0	4.0	1.3	.0	.0	13.6
7	.0	.7	1.8	4.4	3.3	.0	.0	10.2
8-9	.0	.0	1.8	1.3	1.3	.0	.0	4.7
10-11	.0	.0	.4	.4	1.3	.4	.0	2.5
12	.0	.0	.4	.4	.0	.0	.0	.7
13-16	.0	.0	.0	1.8	.7	.0	.0	2.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.4	.0	.0	.4
23-25	.0	.0	.0	.0	.4	.0	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.4	.4	.0	.4
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.5	24.7	42.5	16.4	9.1	.7	100.0	275

PERIOD: (OVER-ALL) 1953-1976

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	1.1	6.8	15.0	9.8	4.4	.8	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	4	
6-7	.0	.5	2.7	4.6	3.5	4.4	.8	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	66	6
8-9	.0	.0	4.4	2.5	2.5	3.0	2.2	1.1	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	7
10-11	.0	.8	1.6	1.1	1.6	.3	1.1	.3	.8	.3	.0	.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	39	10
12-13	.0	.0	1.9	.8	.5	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	6
>13	.0	.0	.0	.3	.0	1.1	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	10
INDEX	3.2	.8	.0	.8	1.1	1.4	.0	.5	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	39	3
TOTAL	23	33	94	73	30	40	20	9	15	2	2	2	0	4	0	0	0	0	0	0	0	367	4
PCT	6.3	9.0	25.6	19.9	13.6	10.9	5.4	2.5	4.1	.5	.5	.5	.0	1.1	.0	.0	.0	.0	.0	.0	100.0		

DECEMBER

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1949-1976

VALDEZ MARINE AREA
59.7N 146.1W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.4	.0	5.0	.0	10.1	.0	.0	19.5	.0	.0	2.5	.0	.0	.0	78.0
NE	8.8	.0	7.5	.0	6.7	.0	1.7	24.7	6.3	1.7	.0	.0	1.7	3.3	62.3
E	23.0	3.6	12.1	.0	10.6	.0	.0	47.0	10.0	.0	.9	.0	.0	.0	42.1
SE	30.4	3.2	11.0	.0	7.8	.0	.4	45.2	8.5	.0	3.5	.0	.0	.0	42.8
S	12.5	2.2	4.4	.0	4.4	.0	5.1	26.5	10.3	.0	2.2	.0	.0	.0	61.0
SW	14.7	.0	.9	.0	1.7	.0	1.7	19.0	6.9	.9	.0	.0	.0	.0	74.1
W	7.1	.0	.0	.0	6.3	.0	5.4	18.8	8.9	2.7	.0	.0	.0	.0	72.3
NW	.0	4.1	.0	.0	4.1	.0	.0	8.2	12.4	.0	.0	.0	.0	.0	79.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	9.5	.0	.0	14.3	4.8	.0	.0	.0	.0	.0	81.0
TOT PCT	15.2	1.8	6.7	.0	7.5	.0	1.3	30.3	7.7	.5	1.3	.0	.3	.5	59.6
TOT OBS:	389														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GHT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	11.8	3.9	4.9	.0	8.8	.0	2.0	29.4	5.9	1.0	2.9	.0	.0	.0	60.8
0600	12.2	.0	8.2	.0	5.1	.0	1.0	25.5	6.1	.0	1.0	.0	.0	.0	67.3
1200	16.1	1.8	8.9	.0	6.3	.0	.9	31.3	10.7	.9	.9	.0	.9	.9	59.4
1800	21.8	1.1	4.6	.0	9.2	.0	1.1	35.6	6.9	.0	1.1	.0	.0	1.1	55.2
TOT PCT	15.3	1.8	6.8	.0	7.3	.0	1.3	30.3	7.5	.5	1.3	.0	.3	.5	59.6
TOT OBS:	399														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.5	3.1	2.4	2.7	1.3	.3	10.2	19.7	4.8	.0	11.6	.0	12.4	.0	12.6	.0
NE	.3	3.3	8.2	3.8	.8	.3	19.7	17.3	17.1	.0	10.8	.0	19.8	.0	19.4	.0
E	.0	4.5	8.0	9.4	2.9	.4	20.8	20.9	21.4	.0	19.2	.0	25.9	.0	20.3	.0
SE	.0	5.4	6.0	4.8	1.3	.6	18.1	19.3	20.0	.0	18.0	.0	18.8	.0	17.6	.0
S	.0	3.7	3.9	.8	.2	.5	9.0	17.2	10.8	.0	10.3	.0	6.0	.0	9.4	.0
SW	.0	3.0	2.3	1.8	.3	.0	7.4	15.8	8.4	.0	7.2	.0	5.0	.0	9.4	.0
W	.2	2.1	2.0	1.6	.2	.0	7.1	16.1	6.7	.0	11.1	.0	5.5	.0	3.0	.0
NW	.1	2.6	2.7	.8	.1	.0	6.1	14.4	4.1	.0	9.5	100.0	6.0	.0	3.8	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.6	.0	.0	.0	.0	.0	5.6	.0	6.7	.0	8.2	.0	4.6	.0	2.4	.0
TOT OBS	26	110	144	82	26	8	396	17.3	104	0	97	1	109	0	85	0
TOT PCT	6.6	27.8	36.4	20.7	6.6	2.0	100.0		100.0	.0	100.0	100.0	100.0	.0	100.0	.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GHT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.2	3.3	3.2	2.2	.3	10.2	19.7	4.8	11.5	12.4	12.6	
NE	1.6	7.3	4.9	1.6	.3	19.7	17.3	17.1	10.7	19.8	19.4	
E	2.0	5.6	7.8	4.6	.8	20.8	20.9	21.4	19.1	25.9	20.3	
SE	1.8	7.0	5.6	2.8	.9	18.1	19.3	20.0	19.8	18.8	17.6	
S	.9	4.7	2.3	.6	.5	9.0	17.2	10.8	10.2	6.0	9.4	
SW	1.9	2.5	1.5	1.5	.0	7.4	15.8	8.4	7.1	5.0	9.4	
W	1.3	2.7	1.3	.8	.0	7.1	16.1	6.7	11.0	3.5	3.0	
NW	.7	3.0	1.8	.6	.0	6.1	14.4	4.1	10.5	6.0	3.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.6	.0	.0	.0	.0	5.6	.0	6.7	8.2	4.6	2.4	
TOT OBS	67	143	117	88	11	396	17.3	104	98	109	85	
TOT PCT	16.9	36.1	29.5	14.6	2.8	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1949-1976

DECEMBER

VALDEZ MARINE AREA
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TABLE 4

MOUR	CALM	PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	WIND SPEED (KNOTS)			48+			
				11-21	22-33	34-47				
00603	6.7	1.0	23.1	36.3	21.2	7.7	3.8	18.9	100.0	104
06609	8.2	1.0	39.7	40.8	10.2	3.1	3.1	14.8	100.0	98
12615	4.6	1.8	27.5	33.9	22.9	9.2	.0	17.4	100.0	109
18621	2.4	.0	27.1	34.1	29.4	5.9	1.2	16.6	100.0	85
TOT	22	4	110	144	82	26	8	17.3		396
PCT	5.6	1.0	27.8	36.4	20.7	6.6	2.0	100.0		

TABLE 5

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION					MEAN CLOUD COVER
	0-2	3-4	5-7	8 & 9	TOTAL OBS	
N	3.6	.3	2.6	3.7		4.6
NE	4.6	1.1	2.1	8.3		5.4
E	2.0	.9	3.3	13.4		6.8
SE	.3	.3	3.5	14.5		7.4
S	.7	.2	3.5	4.2		6.6
SW	1.6	1.2	2.4	2.5		5.2
W	1.7	1.7	1.8	1.8		4.5
NW	2.2	.5	1.6	1.1		3.9
VAR	.0	.0	.0	.0		.0
CALM	2.0	.3	1.7	2.6		5.1
TOT OBS	57	20	68	158	303	5.9
TOT PCT	18.8	6.6	22.4	52.1	100.0	

TABLE 6

000	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION											NH <5/8 ANY HGT	TOTAL OBS
	150	300	600	1000	2000	3500	5000	6500	8000+				
149	299	599	999	1999	3499	4999	6499	7999					
.0	.0	.9	1.0	2.6	.9	.3	.0	.0	.0	.0	.0	4.5	
2.1	.0	.4	3.0	2.9	.7	.5	.0	.0	.0	.0	.0	6.6	
2.1	.2	.0	4.8	4.6	1.6	1.4	.0	.0	.0	.0	.0	5.0	
1.8	.4	.7	4.0	5.9	3.1	.7	.0	.0	.0	.0	.0	2.0	
.8	.0	.3	2.7	2.0	.7	.3	.3	.0	.0	.0	.0	1.7	
.2	.4	1.0	.2	.7	.7	.7	.3	.0	.0	.0	.0	3.5	
.2	.2	.0	.5	1.4	.7	.2	.0	.0	.0	.0	.0	3.7	
.3	.0	.0	.1	1.3	.5	.1	.0	.0	.0	.0	.0	3.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	1.0	1.3	.7	.0	.0	.3	.0	.0	.0	3.3	
22	4	10	32	69	29	13	2	1	0	101	303		
7.3	1.3	3.3	17.2	22.8	9.6	4.3	.7	.3	.0	33.3	100.0		

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>9	>8	>7	>6	>5	>4	>3
>6500	.3	.3	.3	.3	.3	.3	.3	.3
>5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	3.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1
>2000	10.3	14.7	15.1	15.1	15.1	15.1	15.1	15.1
>1000	20.8	32.1	33.7	34.2	37.3	37.3	37.3	37.3
>800	26.3	42.3	46.8	50.3	52.6	53.3	54.5	54.5
>600	28.2	45.2	49.7	53.5	56.1	57.1	58.3	58.3
>450	28.8	46.8	51.3	53.1	57.7	58.7	59.9	59.9
>300	29.5	48.4	53.8	60.6	63.3	64.7	67.0	67.0
TOTAL	92	131	174	189	198	202	209	209

TOTAL NUMBER OF OBS: 312

PCT FREQ NH <5/8: 33.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
9.4	7.0	5.6	5.9	5.0	6.5	5.6	7.9	41.3	341

DECEMBER

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1949-1976

VALDEZ MARINE AREA
59.7N 146.1W

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	.5	.0	1.0	.3	.3	.0	.3	.0	.0	.3	2.6	
	NO PCP	.3	.0	.2	.6	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.8	.0	1.2	.9	.3	.0	.3	.0	.0	.3	3.6	
1/2<1	PCP	.4	.3	.3	.5	.3	.0	.0	.0	.0	.0	1.8	
	NO PCP	.0	.0	.2	.3	.0	.0	.0	.0	.0	.3	.8	
	TOT %	.4	.3	.4	.8	.3	.0	.0	.0	.0	.3	2.6	
1<2	PCP	.0	.5	2.2	2.4	.0	.0	.0	.0	.0	.0	5.1	
	NO PCP	.0	.0	.3	.0	.2	.1	.2	.1	.0	.0	.8	
	TOT %	.0	.5	2.4	2.4	.2	.1	.2	.1	.0	.0	5.9	
2<5	PCP	.3	1.3	3.3	1.8	.6	.1	.4	.0	.0	.3	7.7	
	NO PCP	.0	.5	.2	.1	.0	.1	.2	.3	.0	.0	1.3	
	TOT %	.3	1.8	3.4	1.4	.6	.2	.6	.3	.0	.3	8.9	
5<10	PCP	.5	1.8	2.2	2.7	.8	.8	.4	.3	.0	.0	9.4	
	NO PCP	.5	1.5	1.8	3.2	2.4	1.3	1.0	.6	.0	.3	12.5	
	TOT %	1.0	3.3	4.0	5.9	3.1	2.1	1.4	.9	.0	.3	21.9	
10+	PCP	.4	.1	1.0	1.0	.8	.5	.3	.3	.0	.3	4.6	
	NO PCP	7.4	9.5	8.5	3.7	3.6	4.6	4.4	4.7	.0	4.1	52.6	
	TOT %	7.8	9.6	9.6	6.7	4.4	5.1	4.7	5.0	.0	4.3	57.1	
TOT OBS												392	
TOT PCT		10.3	15.6	21.0	18.0	8.9	7.5	7.1	6.2	.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
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	11-21	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	1.0	
	22+	.5	.0	1.0	.3	.0	.0	.3	.0	.0	.0	2.0	
	TOT %	.8	.0	1.2	.8	.3	.0	.3	.0	.0	.0	.3	3.6
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0	1.0	
	11-21	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.3	.4	.1	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.4	.3	.4	.8	.3	.0	.0	.0	.0	.0	.3	2.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.3	.8	.0	.0	.0	.0	.0	.0	.0	1.0	
	11-21	.0	.3	.8	.8	.2	.1	.0	.0	.0	.0	2.0	
	22+	.0	.3	.9	1.7	.0	.0	.2	.1	.0	.0	3.1	
	TOT %	.0	.8	2.4	2.4	.2	.1	.2	.1	.0	.0	6.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.0	.5	.4	.3	.0	.1	.4	.0	.0	.0	1.8	
	11-21	.0	1.0	1.7	.1	.4	.1	.2	.3	.0	.0	3.8	
	22+	.3	.3	1.3	1.0	.3	.0	.0	.0	.0	.0	3.1	
	TOT %	.3	1.8	3.4	1.4	.6	.2	.6	.3	.0	.0	.3	8.9
5<10	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	
	4-10	.3	.4	.6	.9	1.5	.4	.9	.0	.0	.0	5.1	
	11-21	.5	1.8	1.3	1.9	1.2	.4	.4	.1	.0	.0	7.6	
	22+	.3	1.1	2.0	3.1	.4	1.3	.6	.3	.0	.0	8.9	
	TOT %	1.0	3.3	3.9	5.9	3.1	2.1	1.9	.9	.0	.0	.3	21.9
10+	0-3	.5	.3	.0	.0	.0	.0	.2	.1	.0	4.3	3.3	
	4-10	2.9	2.2	2.3	3.2	2.0	2.5	1.3	2.0	.0	.0	18.8	
	11-21	1.2	3.1	4.3	2.7	1.8	1.7	2.4	2.4	.0	.0	21.4	
	22+	3.2	2.0	2.8	.8	.8	.8	.8	.8	.0	.0	11.7	
	TOT %	7.8	9.3	9.3	6.7	4.4	5.1	4.8	5.0	.0	4.3	37.0	
TOT OBS												393	
TOT PCT		10.3	15.6	21.0	18.0	8.6	7.4	7.1	6.2	.0	5.3	100.0	

DECEMBER

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1949-1976

VALDEZ-MARINE AREA
59.7N 146.1W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
0000	1.2	2.5	8.6	14.8	32.1	11.1	2.5	.0	.0	.0	72.8	27.2	81
0600	8.6	1.2	3.7	9.9	21.0	11.1	4.9	1.2	1.2	.0	63.0	37.0	81
1200	9.6	1.2	1.2	16.9	19.3	9.6	4.8	.0	.0	.0	62.7	37.3	83
1800	7.8	1.3	1.3	26.0	14.3	6.5	3.9	1.3	.0	.0	62.3	37.7	77
TOT	22	5	12	34	70	31	13	2	1	0	210	112	322
PCT	6.8	1.6	3.7	16.8	21.7	9.6	4.0	.6	.3	.0	65.2	34.8	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 DBS
0000	6.7	.0	6.7	8.7	20.2	57.7	104
0600	4.0	5.0	4.0	8.9	21.8	56.4	101
1200	1.8	.9	8.0	7.1	22.3	59.8	112
1800	3.4	4.5	3.7	11.4	21.4	53.4	88
TOT	16	10	25	36	87	231	405
PCT	4.0	2.5	6.2	8.9	21.3	57.0	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
0000	1.3	19.2	36.7	38.0	25.3	79
0600	8.6	21.0	32.1	34.6	33.3	81
1200	10.0	15.0	33.8	31.3	35.0	80
1800	8.3	16.7	44.4	23.6	31.9	72
TOT	22	53	114	100	98	312
PCT	7.1	17.0	36.3	32.1	31.4	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 DBS	PCT FREQ
50/54	.0	.0	.0	.0	.5	.0	.0	.0	1	.5
45/49	.0	.0	.0	.5	.0	.5	1.5	1.0	7	3.6
40/44	2.1	.0	.0	.5	4.6	7.7	11.3	21.1	92	47.4
35/39	.0	.5	.5	.5	2.1	3.6	8.8	8.8	48	24.7
30/34	.0	.0	.0	.0	.5	2.1	6.2	7.2	31	16.0
25/29	.0	.0	.0	.0	.0	1.5	2.1	1.5	10	5.2
20/24	.0	.0	.0	.0	.5	.0	1.0	.0	3	1.5
15/19	.0	.0	.0	.0	.0	.0	.5	.5	2	1.0
TOTAL	4	1	1	3	16	30	59	80	194	100.0
PCT	2.1	.5	.5	1.5	8.2	15.5	30.4	41.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/54	.0	.5	.0	.0	1.0	.0	.0	.0	.0	.0
45/49	.0	.5	1.8	.4	.4	.0	.0	.0	.0	.5
40/44	3.5	4.6	9.1	10.8	6.2	5.3	3.5	2.3	.0	2.1
35/39	1.9	1.7	3.9	4.9	2.6	2.8	2.3	3.1	.0	1.5
30/34	1.5	4.4	2.3	.5	.5	.6	3.0	2.6	.0	.5
25/29	1.0	2.1	1.0	.0	.5	.1	.4	.0	.0	.0
20/24	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0
15/19	.9	.0	.0	.0	.0	.0	.0	.1	.0	.0
TOTAL	9.4	14.8	18.2	16.6	10.2	8.9	9.1	8.1	.0	4.6

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
0000	48	46	44	39	25	23	23	37.6	105
0600	47	46	44	39	26	18	18	37.5	98
1200	53	47	44	38	28	17	17	37.4	108
1800	46	45	44	38	25	19	19	36.4	84
TOT	53	46	44	39	26	20	17	37.4	395

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
0000	.0	2.0	5.9	17.6	23.5	51.0	88	51		
0600	2.0	.0	8.0	14.0	38.0	38.0	85	30		
1200	5.3	7.0	10.5	10.5	31.6	35.1	79	57		
1800	.0	.0	9.5	21.4	31.0	38.1	85	42		
TOT	4	5	17	31	62	81	84	200		

DECEMBER

PERIOD: (PRIMARY) 1961-1976
(OVER-ALL) 1949-1976

VALDEZ MARINE AREA
59.7N 146.1W

TABLE 17

PCT 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	23 28	29 32	33 36	37 40	41 44	43 48	49 52	53 56	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
4	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	4	.0	1.3
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
2	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	7	.0	2.2
1	.0	.0	.0	.0	.0	.0	.0	3.2	.0	.0	11	.6	2.9
0	.0	.0	.0	.0	.0	.0	.0	2.5	3.5	.0	21	.0	6.7
-1	.0	.0	.0	.0	.0	.0	.0	3.2	.6	1.0	16	.0	5.1
-2	.0	.0	.0	.0	.0	.0	.0	3.2	1.9	.3	17	.3	5.1
-3	.0	.0	.0	.0	.0	.0	.0	3.7	2.2	.0	26	.0	8.3
-4	.0	.0	.0	.0	.0	.0	.0	1.0	2.5	2.9	21	.0	6.7
-5	.0	.0	.0	.0	.0	.0	.0	1.3	2.9	3.8	25	.0	7.9
-6	.0	.0	.0	.0	.0	.0	.0	1.3	3.2	2.5	22	.3	6.7
-7/-8	.0	.0	.0	.0	.0	.0	.0	.6	6.3	2.5	30	.0	9.5
-9/-10	.0	.0	.0	.0	.0	.0	.0	5.1	2.5	1.0	29	.3	8.9
-11/-13	.0	.0	.0	1.0	5.1	4.1	1.6	.6	.0	.0	39	.0	12.4
-14/-16	.0	.0	1.6	2.9	.6	.0	.0	.0	.0	.0	16	.0	5.1
-17/-19	.0	.0	2.2	1.0	.0	.3	.0	.0	.0	.0	11	.0	3.5
-20/-22	1.0	1.0	1.9	.3	.0	.0	.0	.0	.0	.0	13	.0	4.1
-23/-25	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.6
-26/-30	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3	5	21	31	48	109	85	10	0	1	215	5	310
PCT	1.6	1.6	6.7	9.8	13.2	34.6	27.0	3.2	.0	.3	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1976

TABLE 18

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

HGT	N					PCT	NE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47
<1	.5	.0	.4	.0	.0	.9	.0	.6	.1	.0	.0	.0	.8
1-2	.0	1.4	1.0	.0	.0	2.4	.0	.1	1.0	.0	.0	.0	1.1
3-4	.0	.5	.5	.0	.0	1.0	.0	2.0	1.5	2.0	.0	.0	5.6
5-6	.0	.0	.3	1.5	.5	2.5	.0	.0	4.5	.5	.5	.0	9.6
7	.0	.0	.5	.0	.5	1.0	.0	.5	1.5	.6	.0	.0	2.5
8-9	.0	.0	.0	.0	.0	.5	.0	.0	.1	.6	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.9	2.9	1.5	1.5	8.3	.0	3.3	9.5	3.7	.5	.0	16.9

HGT	E					PCT	SE					PCT	
	1-3	4-10	11-21	22-33	34-47		48+	1-3	4-10	11-21	22-33		34-47
<1	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.3	1.8	.0	.0	2.3	.0	1.6	.3	2.0	.0	.0	1.9
3-4	.0	.5	.5	.0	.0	1.0	.0	.6	2.0	.0	.0	.0	4.7
5-6	.0	.5	2.4	1.4	.4	4.7	.0	.0	.9	1.1	.1	.0	2.1
7	.0	.0	1.5	.5	.9	2.9	.0	.0	.5	1.1	.1	.0	1.8
8-9	.0	.0	1.8	.9	.0	2.7	.0	.5	.3	.5	.5	.0	1.8
10-11	.0	.4	.0	1.9	.0	2.3	.0	.1	1.0	.6	1.0	.0	2.8
12	.0	.0	.4	.5	.4	1.3	.0	.0	.0	.5	.6	.0	1.1
13-16	.0	.0	.0	.5	1.0	.9	2.4	.0	.0	.3	.0	.6	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	8.3	5.7	2.7	19.8	.0	2.9	4.9	6.4	2.4	1.1	17.8

PERIOD: (OVER-ALL) 1963-1976

DECEMBER
TABLE 18 (CONT)

VALDEZ MARINE AREA
59.7N 146.1W

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	1.6	.5	.0	.0	.0	.0	.0	2.1
3-4	.0	1.6	.5	.0	.0	.0	2.1	.0	1.8	.3	.0	.0	.0	.0	.0	2.0
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
7	.0	.0	.5	.4	.0	.0	.9	.0	.0	.5	1.0	.0	.0	.0	.0	1.5
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.5	.5	.0	.0	.0	1.0
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.6	.0	.0	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.9	3.8	.8	.0	.0	7.4	.0	3.4	1.6	2.8	.5	.0	.0	.0	8.3

HGT	M							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+				
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.9	.4	.0	.0	.0	1.3	.0	2.1	.6	.0	.0	.0	.0	.0	2.8	
3-4	.0	.4	.8	.0	.0	.0	1.1	.0	1.1	2.0	.5	.0	.0	.0	.0	3.7	
5-6	.0	.0	.0	.0	.4	.0	.4	.0	.0	1.0	.0	.1	.0	.0	.0	1.1	
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.4	.0	.0	.5	.0	.0	.9	.1	.0	.0	.5	.0	.0	.0	.0	.6	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.3	1.1	1.4	.4	.0	4.3	.1	3.3	3.7	1.0	.1	.0	.0	.0	8.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	9.1	1.0	.5	.0	.0	.0	10.6	
1-2	.0	9.6	5.6	.0	.0	.0	15.2	
3-4	.0	8.6	8.1	4.5	.0	.0	21.2	
5-6	.0	.5	11.6	4.5	2.0	.0	18.7	
7	.0	.5	5.1	4.0	1.5	.0	11.1	
8-9	.5	.5	2.5	3.5	1.5	.0	8.6	
10-11	.0	.5	2.0	3.5	1.0	.0	7.1	
12	.0	.0	.5	1.0	1.0	.0	2.5	
13-16	.0	.0	.0	1.5	1.0	1.5	4.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.5	.0	.5	1.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.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	21.2	35.9	23.2	8.1	2.0	100.0	198

PERIOD: (OVER-ALL) 1952-1976

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	7.8	9.0	11.4	5.1	1.5	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	4
6-7	.0	.9	3.0	4.8	4.8	3.6	4.2	.0	.9	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	77	7
8-9	.0	.9	.6	2.7	3.9	2.1	2.1	1.2	2.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	56	8
10-11	.0	.0	.6	1.8	2.1	1.8	1.5	.6	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	35	8
12-15	.0	.0	2.1	.6	.0	.6	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
>12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
INDET	5.7	.6	.3	.6	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	2
TOTAL	26	34	33	74	53	33	30	9	16	2	2	1	0	0	0	0	0	0	0	0	333	6
PCT	7.8	10.2	15.9	22.2	15.9	9.9	9.0	2.7	4.8	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1977
(OVER-ALL) 1929-1977

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA
N	7.5	.6	3.1	.0	3.8	.0	.0	14.5	2.1	.0	2.5	.0	.2	.3	80.4
NE	12.5	1.1	7.5	.0	4.7	.0	.6	24.3	7.0	.1	2.9	.1	.5	.3	64.8
E	20.4	1.6	9.1	.1	5.1	.2	.2	34.6	9.7	.1	3.0	.3	.6	.2	51.4
SE	18.8	1.8	9.3	.0	3.0	.1	.1	31.7	9.3	.3	3.6	.1	.6	.0	54.3
S	10.2	.9	5.0	.0	3.2	.2	.8	19.6	8.4	.0	2.4	.3	.2	.0	69.1
SW	6.3	.8	3.2	.0	2.2	.1	.1	11.8	5.2	.1	2.8	.4	.8	.7	78.2
W	2.5	.7	2.0	.0	2.9	.0	.4	7.5	4.0	.3	3.2	.0	.7	.7	83.8
NW	2.3	1.7	1.8	.0	1.4	.0	.0	6.8	3.3	.2	2.2	.0	1.0	*	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.0	.9	4.2	.0	1.0	.0	.0	9.3	1.9	.1	4.5	.2	1.1	.0	83.4
TOT PCT	11.4	1.2	6.0	*	3.4	.1	.2	21.2	6.4	.1	3.1	.2	.6	.3	68.1
TOT OBS:	6583														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA
00003	11.1	1.6	4.9	.0	3.6	.1	.3	20.3	6.7	.2	3.4	.2	.8	.1	68.3
06609	10.8	1.0	7.0	.1	3.8	.0	.1	21.5	5.0	.1	2.8	.1	.5	.2	70.0
12619	11.2	.9	6.2	.0	2.9	.2	.3	20.7	6.2	.2	3.2	.2	.5	.4	68.7
18621	12.4	1.4	6.2	.1	3.4	.1	.3	22.5	7.4	.0	3.6	.2	.6	.4	65.2
TOT PCT	11.4	1.3	6.0	*	3.4	.1	.2	21.2	6.4	.1	3.2	.2	.6	.3	67.9
TOT OBS:	6793														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	.7	3.3	2.7	.8	.4	*		7.9	12.1		7.6	.0	7.7	22.2	8.0	7.2	8.3	5.4
NE	.7	5.1	5.2	2.0	.9	.1		19.7	14.2		12.3	25.0	11.9	7.8	14.1	22.3	16.0	15.0
E	.8	6.3	7.5	4.8	2.4	.4		22.2	18.8		21.2	27.4	22.1	12.8	23.3	13.4	22.4	17.4
SE	.5	4.7	5.5	2.7	.7	.1		14.3	16.1		15.5	17.6	14.2	6.1	13.6	.0	14.0	15.8
S	.7	4.3	3.1	.6	.2	.1		8.9	12.2		9.3	10.7	9.4	13.3	8.1	12.5	8.6	12.2
SW	.7	4.2	2.6	.7	.2	*		8.5	11.8		10.5	19.0	8.4	.0	6.9	16.1	8.1	10.4
W	.6	4.8	3.1	.6	.2	*		9.4	12.1		8.7	.0	10.1	20.6	9.6	8.9	9.4	7.0
NW	.5	3.2	2.4	.6	.1	*		6.9	11.5		6.6	.0	7.0	17.2	7.4	19.6	6.2	11.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3							8.3	.0		8.3	.0	9.2	.0	8.9	.0	6.9	5.3
TOT OBS							6651		13.5		1760	17	1556	17	1630	13	1615	43
TOT PCT	13.5	39.9	32.1	12.9	4.8	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15
N	2.2	3.5	1.5	.7	.1		7.9	12.1		7.6	7.8	7.9	8.2	
NE	2.4	6.9	3.2	1.0	.2		13.7	14.2		12.4	12.0	14.2	16.1	
E	2.9	8.2	5.0	4.1	1.0		22.2	18.8		21.2	22.0	23.3	22.3	
SE	2.4	6.3	3.7	1.5	.4		14.3	16.1		15.6	14.2	13.5	16.1	
S	2.2	4.9	1.3	.3	.1		8.9	12.2		9.3	9.4	8.1	8.6	
SW	2.7	4.2	1.2	.4	*		8.5	11.8		10.5	8.4	6.9	8.1	
W	2.8	4.6	1.5	.5	*		9.4	12.1		8.6	10.1	9.6	9.4	
NW	1.8	3.6	1.1	.2	*		6.9	11.5		6.3	7.2	7.5	6.3	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	8.3						8.3	.0		8.2	9.1	8.9	6.9	
TOT OBS						6651		13.5		1777	1573	1643	1638	
TOT PCT	27.7	42.3	19.3	8.7	1.8		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1960-1977
(OVER-ALL) 1929-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GHT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	8.2	4.4	34.6	32.3	13.7	6.0	.8	14.0	100.0	1777
0600Z	9.1	5.0	37.6	32.8	10.5	4.2	.8	13.0	100.0	1373
1200Z	8.9	6.7	37.0	31.0	12.0	3.7	.8	12.7	100.0	1643
1800Z	6.9	5.1	34.8	32.6	14.9	5.0	.7	14.2	100.0	1658
TOT								13.5		6051
PCT	8.3	5.3	35.9	32.1	12.9	4.8	.8	100.0		

TABLE 5

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

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & 8		
N	2.9	.9	1.8	2.5		4.8
NE	2.5	1.2	3.3	6.8		6.0
E	1.1	1.0	4.5	15.3		7.0
SE	.5	.5	2.8	10.0		7.2
S	.7	.7	2.4	4.9		6.5
SW	1.2	.9	2.9	3.5		5.9
W	2.3	1.5	2.4	2.9		4.8
NW	2.8	.8	1.5	1.5		4.0
VAR	.0	.0	.0	.0		.0
CALM	2.7	.9	2.1	3.7		4.8
TOT OBS					5317	5.9
TOT PCT	16.6	8.5	23.7	51.2	100.0	

TABLE 6

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

WIND DIR	PCT FREQ											TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	
N	.3	.1	.3	.6	1.3	.9	.2	.0	.1	*	4.3	
NE	1.1	.2	.6	1.7	2.7	1.9	.5	.2	.1	*	4.8	
E	2.5	.5	1.4	3.9	4.8	3.6	.9	.2	.2	.0	3.9	
SE	1.2	.4	.8	2.3	4.0	2.4	.4	.1	.1	*	2.0	
S	.5	.2	.5	1.3	2.3	1.3	.3	.2	.1	.0	2.2	
SW	.4	.2	.3	1.0	1.7	1.4	.5	.1	.1	*	2.9	
W	.4	.1	.3	.7	1.3	1.0	.3	.1	.2	*	4.9	
NW	.2	*	.2	.5	.9	.5	.2	.1	*	*	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.4	.1	.3	.8	1.4	1.3	.4	.2	.1	.0	4.2	
TOT OBS											5317	
TOT PCT	7.0	1.7	4.7	12.8	20.4	14.4	3.6	1.2	.9	.1	33.3	

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1
>3500	4.7	5.7	5.8	5.8	5.8	5.8	5.8	5.8
>2000	15.0	18.6	19.7	20.0	20.1	20.2	20.2	20.2
>1000	26.7	35.5	38.7	39.9	40.3	40.4	40.5	40.5
>600	33.0	45.9	50.7	52.3	52.9	53.0	53.2	53.3
>300	34.5	49.1	55.0	56.9	57.5	57.7	57.9	57.9
>150	34.9	50.2	56.5	58.5	59.2	59.4	59.6	59.6
>0	35.5	51.8	60.0	62.1	64.7	65.7	66.6	66.6

TOTAL NUMBER OF OBS: 5416 PCT FREQ NH <5/8: 33.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
10.9	4.9	6.0	5.4	5.5	5.8	9.1	9.3	26.8	5770

PERIOD: (PRIMARY) 1960-1977
(OVER-ALL) 1929-1977

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TABLE 8

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

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.4	.2	*	*	.1	*	.0	*	.9	
	NO PCP	.1	.1	.2	.1	.1	.1	.2	*	.0	.2	1.0	
	TOT %	.1	.1	.7	.3	.1	.1	.2	*	.0	.3	1.9	
1/2<1	PCP	.1	.2	.4	.2	.1	.1	*	.0	.0	*	1.0	
	NO PCP	*	.1	.1	.1	.1	.1	.1	*	.0	*	.7	
	TOT %	.1	.3	.5	.3	.1	.1	.1	*	.0	.1	1.7	
1<2	PCP	.2	.4	1.1	.7	.2	*	*	*	.0	.1	2.7	
	NO PCP	.0	.1	.2	.2	*	*	.1	*	.0	.1	.7	
	TOT %	.2	.5	1.3	.9	.2	.1	.1	*	.0	.2	3.4	
2<5	PCP	.3	1.1	2.3	1.2	.3	.2	.1	.1	.0	.2	5.8	
	NO PCP	.1	.5	1.0	.8	.4	.2	.3	.1	.0	.1	3.7	
	TOT %	.4	1.6	3.4	1.9	.7	.4	.4	.3	.0	.4	9.5	
5<10	PCP	.3	1.1	2.6	1.6	.6	.4	.2	.2	.0	.2	7.3	
	NO PCP	.8	1.6	3.4	2.0	1.3	1.4	1.0	.6	.0	.7	13.1	
	TOT %	1.1	2.8	6.0	3.6	2.1	1.8	1.3	.8	.0	.9	20.4	
10+	PCP	.1	.5	.8	.9	.5	.2	.2	.1	.0	.2	3.6	
	NO PCP	5.7	7.9	9.4	6.4	5.1	5.8	7.2	5.3	.0	6.2	59.4	
	TOT %	5.9	8.4	10.4	7.3	5.6	6.0	7.4	5.6	.0	6.4	63.0	
TOT OBS												6575	
TOT PCT		7.9	13.7	22.3	14.2	8.9	8.5	9.5	6.8	.0	8.2	100.0	

TABLE 9

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

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	*	.0	*	.0	*	*	.0	.3	.3	
	4-10	.0	*	.1	*	*	.1	.1	*	.0	*	.4	
	11-21	*	*	.1	.1	.1	*	*	*	.0	*	.5	
	22+	.1	*	.4	.1	.0	*	.1	.0	.0	*	.7	
	TOT %	.1	.1	.7	.3	.1	.1	.2	*	.0	.3	2.0	
1/2<1	0-3	*	*	.0	*	*	.0	*	*	.0	.1	.2	
	4-10	*	.1	.1	.1	.1	*	*	*	.0	*	.5	
	11-21	.1	*	.1	*	.1	*	*	.0	.0	*	.5	
	22+	.0	.1	.4	.1	.0	*	*	.0	.0	.0	.6	
	TOT %	.1	.3	.6	.3	.1	.1	.1	*	.0	.1	1.8	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.2	.2	
	4-10	*	.1	.2	.1	.1	*	.1	*	.0	.0	.6	
	11-21	.1	.2	.5	.2	.1	*	*	*	.0	.0	1.2	
	22+	*	.2	.6	.5	*	*	*	*	.0	.0	1.5	
	TOT %	.2	.5	1.3	.9	.2	.1	.1	*	.0	.2	3.5	
2<5	0-3	*	*	.1	*	*	.0	*	.0	.0	.4	.6	
	4-10	.1	.4	.5	.4	.2	.2	.2	.1	.0	.0	2.1	
	11-21	.2	.6	1.1	.7	.3	.2	.1	.1	.0	.0	3.2	
	22+	.2	.6	1.7	.9	.2	.1	*	*	.0	.0	3.7	
	TOT %	.5	1.6	3.4	1.9	.7	.4	.4	.3	.0	.4	9.5	
5<10	0-3	.1	.1	.1	.1	.1	.1	*	.1	.0	.9	1.6	
	4-10	.6	.9	1.2	.9	.8	.8	.9	.4	.0	.0	6.1	
	11-21	.3	.9	2.0	1.5	.9	.9	.9	.3	.0	.0	7.0	
	22+	.2	.8	2.6	1.1	.3	.3	.2	.1	.0	.0	5.6	
	TOT %	1.1	2.8	6.0	3.6	2.1	1.7	1.3	.8	.0	.9	20.3	
10+	0-3	.6	.5	.6	.3	.6	.6	.3	.4	.0	6.4	10.6	
	4-10	2.5	3.6	4.2	3.1	3.7	3.1	3.9	2.7	.0	.0	20.1	
	11-21	2.0	3.4	3.7	3.0	1.6	1.8	2.5	2.0	.0	.0	19.9	
	22+	.8	1.0	1.8	.9	.3	.4	.6	.6	.0	.0	6.3	
	TOT %	5.9	8.4	10.3	7.3	3.6	6.0	7.4	5.6	.0	6.4	62.9	
TOT OBS												6598	
TOT PCT		7.9	13.7	22.2	14.2	8.9	8.5	9.5	6.8	.0	8.2	100.0	

ANNUAL

PERIOD: (PRIMARY) 1960-1977
(OVER-ALL) 1929-1977

VALDEZ-MARINE AREA
59.7N 146.2W

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOURL (GMT)	000	180	300	600	1000	2000	3900	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00603	4.8	1.5	5.3	12.2	22.3	15.2	3.9	1.2	.6	*	66.8	33.2	1509
06609	7.7	1.9	4.9	10.3	18.8	13.9	3.5	1.1	1.0	.2	63.3	36.5	1319
12615	9.3	1.8	4.2	12.6	18.7	12.0	3.2	.9	1.1	.2	63.9	36.1	1378
18621	6.7	1.9	4.0	14.9	19.3	14.9	3.9	1.2	.8	*	67.7	32.3	1350
TOT													5556
PCT	7.1	1.7	4.6	12.6	19.8	14.1	3.6	1.1	.8	.1	65.6	34.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00603	2.5	1.2	4.2	8.8	20.6	62.7	1809
06609	1.7	1.9	3.4	9.2	20.7	63.1	1598
12615	2.5	1.9	3.1	10.4	19.8	62.4	1671
18621	1.8	2.0	3.4	10.4	19.3	62.8	1654
TOT							6772
PCT	2.1	1.8	3.6	9.7	20.2	62.7	100.0

TABLE 12

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

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL DBS
00603	4.9	12.6	30.7	37.5	31.8	1480
06609	7.8	16.1	31.1	34.1	34.8	1290
12615	9.5	16.4	33.9	32.6	33.5	1342
18621	6.8	14.1	33.1	37.2	29.7	1304
TOT						5416
PCT	7.2	14.7	32.2	35.5	32.3	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 DBS	PCT FREQ
70/74	.0	*	*	*	*	*	.0	.0		.1
65/69	.0	.0	*	.1	*	.1	*	*		.3
60/64	.0	*	.0	.1	.3	.8	.8	.2		2.3
55/59	.0	*	.1	.1	.7	2.1	5.4	3.0		11.4
50/54	.0	.0	.1	.2	.8	2.0	6.3	7.0		16.4
45/49	*	*	.1	.3	1.1	2.8	5.2	5.9		15.3
40/44	.2	.1	.2	.4	2.0	4.4	7.3	9.2		23.9
35/39	.0	.2	.3	.6	1.4	3.1	5.4	9.3		20.3
30/34	.0	.0	.2	.2	.6	.9	2.0	2.9		6.7
25/29	.0	.0	.0	.1	.2	.6	.5	.8		2.2
20/24	.0	.0	.0	.0	.1	.1	.1	.3		.6
15/19	.0	.0	.0	.0	.0	.0	.1	.2		.3
TOTAL									3899	100.0
PCT	.2	.4	.9	2.1	7.3	17.0	33.1	39.0		

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	*	*	*	*	.1	.1	.1	.0	.0
.1	.2	.2	.1	.2	.3	.3	.2	.0	.5
.8	.9	2.5	1.4	1.3	1.4	1.4	.4	.0	1.4
.8	2.0	3.9	2.5	1.5	1.2	1.9	.9	.0	1.7
1.0	1.9	3.5	2.6	1.8	1.4	1.3	.7	.0	1.3
1.7	3.3	5.7	3.8	2.8	2.0	1.6	1.4	.0	1.3
2.0	2.8	4.2	3.2	2.0	1.5	1.3	2.0	.0	1.1
.8	1.7	.8	.4	.2	.6	.9	1.0	.0	.2
.3	.9	.2	.1	.1	.1	.1	.3	.0	.1
.1	.2	*	*	.0	.1	*	.1	.0	.1
.1	*	*	*	.0	.0	.0	.1	.0	.0
7.7	14.1	21.2	14.3	9.9	8.6	9.2	7.1	.0	7.7

TABLE 15

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

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00603	74	57	53	45	37	33	16	46.0	1761
06609	72	54	50	44	36	32	18	45.0	1351
12615	74	53	49	43	36	31	13	44.6	1627
18621	67	53	50	44	36	31	8	43.3	1666
TOT	74	55	51	44	36	32	8	43.2	6605

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00603	.2	4.8	9.0	22.1	29.2	34.8	83	1009		
06609	.2	2.5	6.7	15.7	26.3	38.7	86	990		
12615	.4	3.0	7.2	14.4	21.9	43.1	86	976		
18621	.0	2.9	6.8	15.9	24.2	40.3	86	1002		
TOT	5	116	268	663	1403	1522	83	3977		

ANNUAL
 PERIOD: (PRIMARY) 1960-1977
 (OVER-ALL) 1929-1977
 VALDEZ MARINE AREA
 59.7N 146.2W

TABLE 17

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

AIR-SEA TMP DIF	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	NO FOG
20/22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	2	.0	*
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	*	10	.0	.1
14/16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	*	*	16	*	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	*	*	*	37	.0	.7	
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3	.1	.1	.2	*	*	*	44	.0	.8	
7/8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.4	.3	.2	.3	.3	*	*	90	.1	1.6	
6	.0	.0	.0	.0	.0	.0	.0	*	*	*	.2	.3	.3	.3	.1	*	*	67	.1	1.1	
5	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.8	.4	.6	.5	.2	.0	.0	140	.2	2.5	
4	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.5	.4	.9	.6	.1	.0	.0	153	.1	2.7	
3	.0	.0	.0	.0	.0	.0	.0	.0	.2	.6	.5	.4	1.1	.4	.1	.0	.0	190	.2	3.2	
2	.0	.0	.0	.0	.0	.0	*	*	.4	1.1	1.0	.9	1.4	.3	.1	.0	.0	304	.4	5.1	
1	.0	.0	.0	.0	.0	.0	*	.1	.8	1.4	.8	1.0	1.4	.5	*	*	*	323	.4	5.7	
0	.0	.0	.0	.0	.0	.0	*	.4	2.3	1.6	1.1	1.3	1.7	.3	*	*	*	464	.4	8.5	
-1	.0	.0	.0	.0	.0	.0	.0	.3	1.7	1.5	1.3	1.2	1.7	.6	*	*	*	448	.3	8.0	
-2	.0	.0	.0	.0	.0	.0	.0	.0	2.6	1.7	1.4	1.3	1.3	.4	.0	.0	.0	481	.3	9.0	
-3	.0	.0	.0	.0	.0	.0	.0	1.0	2.5	1.3	1.2	1.2	.7	.2	.0	.0	.0	411	.2	8.0	
-4	.0	.0	.0	.0	.0	*	*	2	1.2	1.3	1.1	.9	1.0	.8	.1	.0	.0	364	.2	8.9	
-5	.0	.0	.0	.0	.0	.0	.0	2	1.4	1.7	1.1	.9	.6	.6	.1	.0	.0	330	.2	8.4	
-6	.0	.0	.0	.0	.0	.1	.3	1.2	1.6	1.0	.5	.6	.2	*	.0	.0	.0	266	.1	5.4	
-7/-8	.0	.0	.0	.0	.0	.1	.8	1.7	2.1	1.3	.4	.5	.2	*	.0	.0	.0	346	.1	7.1	
-9/-10	.0	.0	.0	.0	*	.2	.6	1.6	1.2	.8	.3	.2	.1	.0	.0	.0	.0	241	.2	4.9	
-11/-13	.0	.0	.0	.0	*	.5	1.4	1.3	1.0	.2	.1	.1	.0	*	.0	.0	.0	213	*	4.6	
-14/-16	.0	.0	.0	.1	.1	.6	.6	.4	.0	.1	*	.0	.0	.0	.0	.0	.0	91	*	1.9	
-17/-19	.0	.0	*	.1	.2	.4	.2	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	52	*	1.1	
-20/-22	.0	.0	*	.2	.3	.2	*	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	34	.0	.8	
-23/-25	*	.0	.0	.1	*	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	9	.0	.2	
-26/-30	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	*	
TOTAL																			5128		
PCT	*	.0	*	.3	.7	2.2	4.3	11.2	20.6	15.8	12.6	11.8	13.0	5.4	1.3	.3	.1	.1	100.0	3.3	96.7

PERIOD: (OVER-ALL) 1963-1977

TABLE 18

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

HGT	M							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.4	.9	.2	.0	.0	.0	1.5	.3	1.4	.2	.0	.0	.0	.0	1.8	
1-2	.1	1.3	1.1	.0	.0	.0	2.5	.1	2.1	1.9	.0	.0	.0	.0	4.2	
3-4	*	.4	1.1	.1	.0	.0	1.7	*	1.1	1.6	.6	.0	.0	.0	3.3	
5-6	.0	.1	.3	.4	*	.0	.9	.0	.3	1.1	.5	.1	.0	.0	2.0	
7	.0	.0	.2	.1	.1	.0	.4	.0	.1	.3	.4	*	.0	.0	.9	
8-9	.0	.0	.1	.1	.1	.0	.3	*	.0	.2	.2	*	.0	.0	.5	
10-11	.0	.0	.0	*	*	*	.1	.0	.0	.1	*	.2	.0	.0	.3	
12	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	.1	.0	.0	.2	
13-16	*	.0	.0	.0	.0	.0	*	.0	.0	.0	*	.0	.0	.0	*	
17-19	.0	.0	*	.0	.0	.0	*	.0	*	.0	*	.0	.0	.0	*	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	2.7	3.0	.8	.3	.0	7.4	.3	3.0	3.4	1.9	.3	.0	.0	13.2	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.4	1.9	.1	.0	.0	.0	2.4	.2	1.3	.1	.0	.0	.0	.0	1.6	
1-2	.1	3.3	2.4	.0	.0	.0	5.8	.1	1.9	1.0	.0	.0	.0	.0	3.0	
3-4	.1	1.1	2.7	1.2	.0	.0	5.1	*	1.0	2.1	.3	.0	.0	.0	3.6	
5-6	.0	.3	1.8	1.3	.3	.0	3.6	*	.3	1.4	.6	.1	.0	.0	2.4	
7	.0	.1	.6	.9	.7	*	2.4	.0	*	.3	.7	.3	*	.0	1.6	
8-9	.0	*	.4	.6	.4	*	1.4	.0	.1	.3	.4	.2	*	.0	.9	
10-11	.0	*	.2	.6	.3	*	1.2	.0	*	.2	.2	.2	.0	.0	.6	
12	.0	*	*	.3	.3	*	.7	.0	.0	.1	.2	.1	*	.0	.3	
13-16	.0	*	*	.2	.2	.2	.7	.0	.0	.1	.2	.1	.1	.1	.5	
17-19	.0	.1	.0	.1	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	*	.1	
23-25	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	*	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	6.9	8.4	3.3	2.4	.3	23.8	.3	4.6	5.8	2.9	.9	.2	.0	14.8	

PERIOD: (OVER-ALL) 1963-1977

ANNUAL
TABLE 10 (CONT)

VALDEZ MARINE AREA
59.7N 146.2W

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

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.2	1.2	.0	.0	.0	.0	1.4	.1	.9	.0	.0	.0	.0	.0	1.1	
1-2	.1	1.9	.8	.0	.0	.0	2.9	.1	1.4	.6	.0	.0	.0	.0	2.1	
3-4	.1	.9	.9	.1	.0	.0	2.1	.1	1.1	.9	.1	.0	.0	.0	2.2	
5-6	.*	.2	1.0	.*	.1	.0	1.4	.0	.2	.5	.1	.*	.0	.0	.8	
7	.0	.*	.3	.1	.0	.0	.4	.0	.*	.3	.1	.*	.0	.0	.4	
8-9	.0	.0	.1	.0	.*	.0	.1	.0	.*	.1	.1	.1	.0	.0	.3	
10-11	.0	.0	.*	.1	.0	.*	.1	.0	.*	.1	.1	.*	.*	.0	.3	
12	.0	.0	.*	.*	.*	.*	.1	.0	.0	.0	.1	.0	.0	.0	.*	
13-16	.0	.0	.0	.1	.*	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.3	3.2	.4	.2	.*	6.6	.3	3.7	2.5	.7	.2	.*	.*	7.4	

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	1-3		4-10	11-21	22-33	34-47	48+			
41	.2	1.0	.1	.0	.0	.0	1.3	.1	.9	.*	.0	.0	.0	.0	1.1	
1-2	.1	2.1	.9	.0	.0	.0	3.0	.1	1.5	1.0	.0	.0	.0	.0	2.6	
3-4	.1	.9	1.3	.1	.0	.0	2.4	.*	.5	1.1	.2	.0	.0	.0	1.8	
5-6	.*	.1	.4	.1	.*	.0	.6	.*	.1	.4	.3	.*	.0	.0	.8	
7	.0	.0	.2	.1	.*	.0	.3	.0	.*	.2	.*	.*	.0	.0	.3	
8-9	.*	.0	.*	.1	.1	.0	.2	.*	.0	.1	.2	.1	.0	.0	.3	
10-11	.0	.0	.1	.1	.1	.0	.2	.0	.0	.0	.*	.*	.0	.0	.*	
12	.0	.0	.1	.0	.0	.0	.1	.0	.*	.*	.*	.*	.0	.0	.1	
13-16	.0	.0	.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	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.1	3.0	.4	.2	.0	6.3	.3	3.0	2.8	.8	.1	.0	.*	7.0	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	11.5	9.6	.7	.0	.0	.0	21.7	
1-2	.9	15.4	9.8	.0	.0	.0	26.0	
3-4	.5	7.1	11.7	2.9	.0	.0	22.2	
5-6	.1	1.6	6.8	3.3	.7	.0	12.6	
7	.0	.3	2.6	2.5	1.3	.1	6.8	
8-9	.1	.1	1.3	1.7	.9	.*	4.1	
10-11	.0	.1	.7	1.2	.7	.1	2.8	
12	.0	.*	.3	.7	.4	.*	1.5	
13-16	.*	.*	.1	.7	.4	.3	1.5	
17-19	.0	.1	.*	.2	.1	.0	.4	
20-22	.0	.0	.*	.*	.1	.*	.3	
23-25	.0	.0	.*	.*	.1	.*	.1	
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	13.0	34.3	34.1	13.3	4.7	.3	100.0	3384

PERIOD: (OVER-ALL) 1949-1976

TABLE 10

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

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
46	3.4	12.4	13.1	8.0	3.0	1.4	.5	.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2277	4
8-7	.1	1.8	5.1	5.2	3.8	3.0	1.8	.7	.7	.2	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	1174	6
8-9	.*	.8	2.4	2.0	2.1	1.8	1.3	.8	.9	.2	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	817	7
10-11	.0	1.1	.9	.9	.9	.8	.7	.4	.6	.1	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	324	7
12-13	.0	.0	1.4	.8	.3	.3	.2	.1	.3	.*	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	181	7
5-13	.0	.0	.0	.3	.3	.2	.3	.2	.1	.1	.1	.*	.*	.0	.0	.0	.0	.0	.0	.0	74	10
INDRY	8.2	.9	.5	.5	.3	.2	.0	.*	.1	.*	.1	.*	.0	.0	.0	.0	.0	.0	.0	.0	589	1
TOTAL																					3232	5
PCT	11.8	17.0	23.3	17.7	10.7	7.5	4.8	2.6	3.0	.7	.3	.2	.*	.2	.*	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1960-1977
(OVER-ALL) 1929-1977

TABLE 20

VALDEZ MARINE AREA
59.7N 146.2W

SEA TMP DEG F	PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH												ANN	PCT
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
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	.2	.0	.0	.0	.0	.0	1	*
67/68	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	3	.1
65/66	.0	.0	.0	.0	.0	.0	.2	.2	.0	.2	.0	.0	3	.1
63/64	.0	.0	.0	.0	.0	.2	.3	1.7	.7	.0	.0	.0	14	.3
61/62	.0	.0	.0	.0	.0	.7	1.9	6.2	1.5	.4	.0	.0	54	1.0
59/60	.0	.0	.0	.3	.2	3.3	10.5	7.9	3.7	1.1	.0	.0	154	2.9
57/58	.0	.0	.0	.0	.2	3.8	12.0	19.5	9.9	.4	.2	.0	237	4.5
55/56	.0	.0	.0	.0	.6	3.8	21.9	30.1	27.8	2.8	.8	.3	452	8.6
53/54	.0	.0	.0	.3	.2	4.2	19.4	22.5	21.4	7.3	.5	.6	417	7.9
51/52	.2	.3	.3	.0	2.5	16.2	19.8	7.7	13.9	16.7	1.8	1.2	427	8.1
49/50	1.1	1.8	.9	.0	6.3	16.2	6.9	3.3	13.7	36.3	19.4	4.6	531	10.1
47/48	3.4	2.4	1.9	2.6	8.8	17.4	6.2	.0	3.3	21.3	19.1	16.7	460	8.7
45/46	12.7	8.1	3.0	6.9	19.2	13.4	.3	.2	.2	10.5	34.8	22.5	544	10.3
43/44	13.0	13.2	14.7	20.7	26.8	10.4	.2	.2	.0	1.6	15.2	18.8	542	10.3
41/42	14.8	21.6	24.1	33.4	19.6	4.2	.2	.2	.0	1.4	5.2	21.6	549	10.4
39/40	39.5	24.8	25.6	24.6	11.5	.9	.2	.0	.0	.0	2.4	10.8	546	10.4
37/38	4.4	23.0	16.3	8.2	2.2	.0	.0	.0	.0	.0	.3	.6	199	3.8
35/36	9.1	6.8	3.8	2.3	1.0	.0	.0	.0	.0	.2	.3	1.9	81	1.5
33/34	3.2	.9	6.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	41	.8
31/32	.0	.9	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	7	.1
29/30	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
27/28	.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	.1
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	473	379	320	305	511	425	648	481	434	564	382	324	5266	100.0
MEAN	40.9	40.3	40.1	41.5	43.8	49.2	56.2	55.8	54.0	49.5	46.3	44.0	46.6	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GM)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1007		1009	1007	1009	1017	1006	1000	1008	543
FEB	1003	1003	1002	1009	1000	1001	1004	1004	1003	471
MAR	1007	996	1006		1008		1006	987	1007	431
APR	1010		1010	1023	1009	1020	1010	1013	1010	453
MAY	1013	1014	1011	1022	1013	1021	1012	1014	1012	684
JUN	1013		1012		1013		1012	1008	1013	589
JUL	1013	1009	1015	1014	1016		1015	1014	1015	860
AUG	1013		1014		1013	1025	1012	1016	1013	611
SEP	1008	1023	1010	1021	1010		1008	1007	1009	532
OCT	1002	1001	1003	1019	1002	1012	1003	1005	1002	648
NOV	999	1004	1001	1001	1004	1002	1001	1000	1001	471
DEC	999		998	999	998		998	998	998	393
ANN	1007	1009	1008	1012	1008	1014	1007	1006	1008	6686
OBS	1757	17	1775	19	1635	14	1625	44		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	971	975	982	996	1007	1019	1024	1044	1048
FEB	968	971	981	992	1001	1013	1029	1034	1038
MAR	969	973	987	998	1006	1016	1027	1026	1038
APR	981	987	993	1002	1009	1016	1027	1024	1039
MAY	976	986	996	1006	1013	1019	1023	1031	1040
JUN	991	996	1001	1007	1013	1017	1024	1028	1032
JUL	991	999	1005	1011	1013	1019	1026	1031	1033
AUG	982	993	1000	1008	1014	1018	1025	1028	1030
SEP	973	983	990	1002	1010	1017	1023	1030	1038
OCT	964	968	983	995	1003	1011	1021	1026	1032
NOV	982	968	979	991	1001	1010	1024	1032	1035
DEC	960	963	977	991	998	1006	1022	1028	1032

PERIOD: (PRIMARY) 1972-1977
(OVER-ALL) 1968-1977

JANUARY

VALDEZ, AK
61.1N 146.8W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA
N	2.9	.0	.0	.0	6.1	.0	.0	8.3	.0	.0	.3	.0	.0	2.2	89.0
NE	.3	.0	.0	.0	8.9	.0	.0	8.9	.0	.0	.6	.0	.0	1.2	89.3
E	.7	.2	.0	.0	17.5	.0	.0	18.1	.0	.0	.2	.0	.0	.3	81.2
SE	1.0	.0	.0	.0	11.9	.0	.0	12.7	.0	.0	.6	.0	.0	.0	86.7
S	13.8	.0	.0	.0	23.1	.0	.0	31.9	.0	.0	.0	.0	.0	.0	88.1
SW	13.9	.0	.0	.0	8.2	.0	.0	22.0	.0	.0	.0	.0	.0	.0	78.0
W	2.3	.0	1.3	.0	9.3	.0	.0	9.0	.0	.0	2.3	.0	.0	.0	88.7
NW	2.8	.0	.9	.0	4.8	.0	.0	7.6	.0	.0	1.4	.0	.0	4.8	86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.3	.2	.6	.4	36.5	.2	.2	42.2	.0	.0	4.9	.0	.0	.0	52.9
TOT PCT	3.9	.1	.3	.1	18.1	.1	.1	20.8	.0	.0	1.7	.0	.0	.8	76.7
TOT OBS:	1907														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHR FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA
06003	3.8	.1	.1	.0	18.8	.0	.1	22.0	.0	.0	1.4	.0	.0	.8	75.9
06009	15.4	.0	1.9	.0	28.8	1.9	.0	38.3	.0	.0	1.9	.0	.0	.0	59.6
12015	9.5	.0	.7	1.4	17.7	.0	.0	28.6	.0	.0	2.7	.0	.0	.0	68.7
18021	2.4	.1	.2	.0	16.2	.0	.0	17.6	.0	.0	1.7	.0	.0	1.0	76.7
TOT PCT	3.9	.1	.3	.1	18.1	.1	.1	20.8	.0	.0	1.7	.0	.0	.8	76.7
TOT OBS:	1907														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	2.0	2.5	2.6	.8	.0	.0	7.8	10.2	6.8	6.0	9.6	.0	9.3	6.3	8.0	9.5
NE	2.0	7.3	6.9	1.8	.0	.0	18.1	11.2	18.1	19.9	13.9	.0	11.0	15.6	19.8	17.2
E	2.1	13.7	7.9	1.1	.0	.0	24.8	9.7	23.3	19.2	17.8	.0	17.8	17.3	26.7	29.0
SE	1.1	4.7	3.2	.3	.0	.0	9.3	9.6	10.5	9.3	2.9	.0	7.2	6.0	8.1	10.4
S	.9	1.1	.1	.0	.0	.0	2.1	3.0	2.0	2.4	7.2	.0	.0	2.0	2.3	1.3
SW	.8	1.4	.1	.0	.0	.0	2.4	4.9	3.6	2.7	6.3	.0	3.8	2.3	1.3	1.3
W	1.7	2.1	.2	.0	.0	.0	4.1	4.4	3.2	6.1	1.9	.0	4.2	3.1	3.3	4.7
NW	1.6	2.1	1.6	.3	.0	.0	3.7	8.3	3.9	4.0	3.8	.0	.8	5.4	7.3	5.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	23.9						23.9	7.0	24.3	30.2	38.3	.0	43.8	42.0	23.3	20.4
TOT OBS	728	667	432	82	0	0	1907	7.0	494	298	52	0	39	88	430	486
TOT PCT	38.1	39.0	22.7	4.3	.0	.0	100.0	7.0	100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18
N	3.9	2.1	1.5	.2	.0	7.8	10.2	6.8	9.6	7.5	8.8				
NE	6.9	6.9	3.9	.3	.0	18.1	11.2	18.1	13.2	18.8	13.8	18.8			
E	9.4	11.8	3.5	.1	.0	24.8	9.7	23.0	9.7	17.8	17.3	27.9			
SE	3.9	3.8	1.6	.0	.0	9.3	9.6	10.1	2.9	6.3	9.3				
S	1.6	.5	.0	.0	.0	2.1	3.0	2.2	7.2	1.2	1.9				
SW	2.0	.4	.0	.0	.0	2.4	4.9	3.3	6.3	2.9	1.3				
W	3.7	.4	.0	.0	.0	4.1	4.4	4.3	1.9	3.6	4.1				
NW	3.5	1.0	1.2	.0	.0	3.7	8.3	3.2	3.8	3.6	6.3				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	23.9					23.9	7.0	24.3	30.2	43.3	21.7				
TOT OBS	1180	513	223	11	0	1907	7.0	792	52	147	916				
TOT PCT	60.8	26.9	11.7	.6	.0	100.0	7.0	100.0	100.0	100.0	100.0				

PERIOD: (PRIMARY) 1977-1977
(OVER-ALL) 1969-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	26.0	14.0	32.2	22.0	4.9	.0	.0	6.9	100.0	792
0400	76.3	13.4	34.6	11.5	1.9	.0	.0	4.7	100.0	52
1215	43.5	10.2	36.1	10.2	.0	.0	.0	3.9	100.0	147
1821	21.7	10.3	37.2	23.9	4.9	.0	.0	7.7	100.0	916
TOT	493	243	667	432	82	0	0	7.0		1907
PCT	25.9	12.2	35.0	22.7	4.3	.0	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 8 BSCD	TOTAL OBS	MEAN CLOUD COVER
NE	2.1	.7	1.9	7.0		6.1
E	3.2	1.0	1.7	10.1		6.1
SE	1.1	.0	.0	3.7		6.7
S	.2	.3	.0	3.1		7.2
SW	.0	.0	.0	2.7		8.0
W	.0	.0	1.1	2.8		7.5
NW	.3	.3	.6	3.2		7.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.8	2.5	40.8		7.5
TOT OBS	33	12	32	284	363	7.0
TOT PCT	9.1	3.3	8.8	78.8	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
NE	.3	.0	.2	.3	.7	.0	.6	1.0	.0	.5	.8	
E	1.7	.3	.0	.1	.6	.8	.3	1.5	.0	1.2	5.3	
SE	3.2	.3	.5	1.3	1.7	1.0	.8	.7	.2	.4	6.0	
S	.6	.3	.9	.0	1.0	.6	1.1	.9	.1	.3	2.9	
SW	.8	.3	1.3	.0	.2	.0	.3	.0	.3	.0	.5	
W	.9	.0	.1	.0	.6	.0	.3	.6	.3	.0	.0	
NW	.5	.0	.0	.3	.7	.0	.0	.3	.0	.6	1.6	
VAR	.1	.0	1.2	.0	.5	.3	.0	.0	.3	.6	1.4	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	10.9	3.9	5.8	4.1	7.4	1.1	2.8	1.7	.8	1.1	6.9	363
TOT PCT	67	18	34	22	48	14	22	23	6	17	92	100.0
	18.9	9.0	9.4	6.1	13.2	2.9	6.1	6.9	1.7	4.7	23.3	

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	5.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >5000	10.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >3500	13.2	18.5	18.7	18.7	18.7	18.7	18.7	18.7
= OR >2000	14.6	22.0	22.6	22.6	22.6	22.6	22.6	22.6
= OR >1000	15.2	27.8	33.3	35.8	35.8	35.8	35.8	35.8
= OR >600	15.7	30.0	40.8	41.3	41.6	41.9	41.9	41.9
= OR >300	16.0	33.1	49.3	50.4	51.0	51.2	51.2	51.2
= OR >150	16.0	35.8	56.0	55.4	55.9	56.2	56.2	56.2
= OR >0	16.0	36.4	58.4	62.8	71.1	73.6	74.7	74.7
TOTAL	38	132	212	228	258	267	271	271

TOTAL NUMBER OF OBS: 363

PCT FREQ NH <5/8: 25.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 BSCD	TOTAL OBS
9.4	4.7	7.4	2.2	1.7	2.2	4.7	1.4	80.7	19.7
									363

PERIOD: (PRIMARY) 1977-1977
(DVCN-ALL) 1969-1977

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VALDEZ, AK
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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	.3	.4	.4	.1	.1	.0	.1	.0	2.1	3.5	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.1	.0	.4	.3	
	TOT %	.1	.4	.4	.4	.1	.1	.0	.1	.0	2.5	4.0	
1/2<1	PCP	.2	.3	1.8	.2	*	.1	.1	.1	.0	2.7	5.6	
	NO PCP	.0	.1	.1	.0	.0	.0	.1	.1	.0	.1	.3	
	TOT %	.2	.5	1.8	.2	*	.1	.1	.2	.0	2.7	5.9	
1<2	PCP	.0	.3	.6	.2	*	.1	.0	.0	.0	1.3	2.3	
	NO PCP	.1	*	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.3	.6	.2	*	.1	.0	.0	.0	1.4	2.7	
2<5	PCP	.4	.4	.8	.2	.3	.3	.1	.2	.0	3.8	6.6	
	NO PCP	.1	.1	.1	.1	.0	.0	*	.2	.0	.7	1.3	
	TOT %	.5	.5	1.0	.3	.3	.3	.2	.4	.0	4.5	7.9	
5<10	PCP	*	.2	.8	.1	.2	*	.1	.1	.0	1.1	2.6	
	NO PCP	1.4	1.9	2.4	1.3	.1	.3	.6	1.1	.0	3.4	12.3	
	TOT %	1.4	2.1	3.2	1.3	.4	.3	.8	1.2	.0	4.5	15.1	
10+	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	5.5	14.3	17.7	6.8	1.3	1.6	3.0	3.8	.0	10.3	64.3	
	TOT %	5.5	14.3	17.8	6.8	1.3	1.6	3.0	3.8	.0	10.3	64.4	
TOT OBS												1907	
TOT PCT		7.8	18.1	24.8	9.3	2.1	2.4	4.1	5.7	.0	23.9	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	.1	.2	*	.1	.0	.1	.0	.0	.0	2.5	3.0	
	4-10	.0	.2	.4	.1	.1	.0	.0	.1	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.4	.4	.4	.1	.1	.0	.1	.0	2.5	4.0	
1/2<1	0-3	.2	.2	.4	.1	.0	*	.1	.1	.0	2.7	3.8	
	4-10	.0	.3	1.3	.1	*	.1	.1	.1	.0	1.9	1.9	
	11-21	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	1.8	.2	*	.1	.1	.2	.0	2.7	5.9	
1<2	0-3	.0	.1	.1	.0	*	*	.0	.0	.0	1.4	1.7	
	4-10	.0	.2	.4	.2	.0	.1	.0	.0	.0	.0	.8	
	11-21	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.6	.2	*	.1	.0	.0	.0	1.4	2.7	
2<5	0-3	.2	.2	*	*	.2	.1	.1	.1	.0	4.5	5.3	
	4-10	.2	.2	.6	.3	.1	.2	.1	.2	.0	2.0	2.0	
	11-21	.0	*	.2	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	*	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.5	.5	1.0	.3	.3	.3	.2	.4	.0	4.5	7.9	
5<10	0-3	.5	.4	.3	.1	.3	.1	.2	.2	.0	4.5	6.6	
	4-10	.2	.9	1.9	.9	.1	.2	.5	.3	.0	4.9	4.9	
	11-21	.6	.5	.9	.4	.0	*	.1	.5	.0	2.9	2.9	
	22+	.1	.3	.1	.1	.0	.0	.0	.2	.0	.7	.7	
	TOT %	1.4	2.1	3.2	1.3	.4	.3	.8	1.2	.0	4.5	13.1	
10+	0-3	1.0	1.0	1.0	.8	.4	.3	1.4	1.2	.0	10.3	17.7	
	4-10	2.0	3.5	9.1	3.0	.9	1.0	1.3	1.3	.0	24.4	24.4	
	11-21	2.0	6.4	6.7	2.7	.1	.1	.1	.9	.0	19.0	19.0	
	22+	.5	1.5	1.0	.2	.0	.0	.0	.1	.0	3.3	3.3	
	TOT %	5.5	14.3	17.8	6.8	1.3	1.6	3.0	3.8	.0	10.3	64.4	
TOT OBS												1907	
TOT PCT		7.8	18.1	24.8	9.3	2.1	2.4	4.1	5.7	.0	23.9	100.0	

PERIOD: (PRIMARY) 1972-1977
(OVER-ALL) 1969-1977

JANUARY

VALDEZ, AK
61.1N 146.3W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3000	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	21.8	6.4	11.8	5.5	8.2	2.7	6.4	9.1	.0	3.6	79.5	24.5	110
00009	30.8	5.1	7.7	.0	10.3	.0	7.7	10.3	2.6	5.1	79.5	20.5	39
12015	11.9	3.0	8.9	5.9	72.8	4.0	3.0	5.9	5.0	6.9	77.2	22.8	101
18021	16.8	5.3	8.0	8.8	10.6	6.2	8.0	2.7	.0	3.5	69.9	30.1	113
TOT	47	18	34	22	48	14	22	23	6	17	271	99	363
PCT	18.5	5.0	9.4	6.1	13.2	3.9	6.1	6.3	1.7	4.7	76.7	25.3	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	4.8	7.7	3.2	6.8	11.9	65.7	792
00009	3.8	15.4	3.8	15.4	17.3	44.2	52
12015	2.0	2.0	2.7	18.4	34.7	60.1	147
18021	3.6	4.4	2.3	6.7	14.6	68.4	916
TOT	76	112	52	150	288	1229	1907
PCT	4.0	5.9	2.7	7.9	15.1	64.4	100.0

TABLE 12

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

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ NM <5/8 AND 5+	TOTAL OBS	
00003	21.8	41.6	54.5	23.6	21.8	110
00009	30.8	43.6	51.3	29.2	20.5	39
12015	11.9	23.8	42.6	35.6	21.8	101
18021	16.8	31.0	46.9	24.8	28.3	113
TOT	67	122	176	101	86	363
PCT	18.5	33.6	48.3	27.8	23.7	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 FRQ
35/39	.0	.0	.0	.0	.1	.4	.3	1.3	20	2.1
30/36	.1	.2	.1	1.1	.9	1.1	8.8	18.0	287	30.3
25/29	.1	.1	.5	2.2	1.2	1.2	3.8	9.3	133	14.0
20/24	.1	.6	2.0	.9	.8	2.9	2.4	2.0	101	10.7
15/19	.2	.9	1.4	3.2	2.7	1.5	4.5	1.7	151	15.9
10/14	.0	.1	2.0	.2	4.9	.6	2.7	.9	109	11.5
5/9	.0	.0	.9	3.8	.0	2.8	1.2	.1	103	10.9
0/4	.0	.0	.5	.0	4.4	.0	.6	.6	34	3.6
-1/-4	.0	.0	.0	.0	.2	.0	.0	.3	3	.3
-5/-9	.0	.0	.0	.1	.0	.0	.0	.4	3	.3
TOTAL	5	19	71	122	107	111	222	291	948	100.0
PCT	.5	2.0	7.5	12.9	11.3	11.7	23.4	30.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.1	.5	.3	.2	.2	.0	.2	.0	.3
1.3	2.9	3.8	1.5	.7	.9	1.2	1.1	.0	17.0
.9	2.3	2.8	.6	.5	.5	.6	.9	.0	3.0
.9	2.3	2.9	.9	.0	.1	.9	.6	.0	2.1
1.9	2.4	2.9	2.0	.2	.7	1.2	2.1	.0	2.5
.5	2.1	4.3	.7	.2	.1	.7	1.3	.0	1.6
.8	2.9	3.7	.9	.5	.2	.8	1.1	.0	.0
.2	.9	1.5	.3	.1	.2	.0	.3	.0	.1
.1	.0	.1	.8	.2	.0	.1	.0	.0	.0
.0	.1	.4	.0	.0	.0	.0	.0	.0	.0
6.9	16.0	22.7	7.1	2.6	2.8	5.6	7.6	.0	28.6

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	41	37	34	18	1	-5	-15	19.0	792
00009	36	35	34	27	4	2	2	23.9	52
12015	39	37	34	27	3	1	-4	23.7	147
18021	41	37	33	17	-1	-8	-17	17.2	916
TOT	41	37	34	18	0	-6	-17	18.6	1907

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.9	23.7	10.7	11.3	26.3	27.7	77	364		
00009	.0	15.4	7.7	13.5	21.2	42.3	83	52		
12015	.0	10.9	10.9	13.6	24.5	40.1	83	147		
18021	1.0	26.3	12.4	11.2	20.8	28.3	73	403		
TOT	5	212	107	111	222	291	78	948		

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN SHHR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.6	.0	.0	.0	14.1	.0	.0	17.7	.0	.0	4.5	.0	.0	73.0
NE	2.2	.0	.0	.0	17.3	.0	.3	19.4	.0	.0	.4	.0	.0	80.2
E	2.1	.0	.2	.0	18.5	.0	.0	19.5	.0	.0	.5	.0	.0	80.0
SE	2.4	.0	.0	.0	14.7	.0	.0	16.5	.0	.0	.1	.0	.0	83.4
S	10.7	.0	.0	.0	16.7	.0	.0	23.8	.0	.0	3.6	.0	.0	72.6
SW	7.1	.0	.0	.0	19.4	.0	.0	23.6	.0	.0	4.7	.0	.0	69.7
W	9.6	.0	.0	.0	21.4	.0	.0	30.0	.0	.0	1.8	.0	.0	66.2
NW	13.1	.0	.0	.0	11.7	.0	.0	22.7	.0	.0	3.4	.0	.0	73.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.5	.1	.7	.0	41.8	.0	.1	49.6	.0	.0	4.5	.0	.0	66.0
TOT PCT	6.2	.*	.3	.0	23.4	.0	.1	30.1	.0	.0	2.3	.0	.0	67.4
TOT OBS:	2071													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN SHHR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.3	.0	.0	.0	23.6	.0	.2	29.9	.0	.0	1.1	.0	.0	68.9
06007	6.9	.0	.0	.0	27.8	.0	.0	30.6	.0	.0	2.8	.0	.0	66.7
12013	8.1	.0	.7	.0	22.3	.0	.0	28.4	.0	.0	4.1	.0	1.4	66.2
18021	5.8	.1	.5	.0	23.6	.0	.0	30.5	.0	.0	3.1	.0	.0	66.3
TOT PCT	6.2	.*	.3	.0	23.4	.0	.1	30.1	.0	.0	2.3	.0	.0	67.4
TOT OBS:	2072													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.9	2.0	.9	.2	.0	.0	4.0	7.9	3.6	3.6	3.9	.0	5.7	5.8	3.7	4.3	
NE	2.4	8.9	4.5	.4	.0	.0	16.2	8.6	13.6	15.8	22.6	.0	18.4	25.5	17.3	15.3	
E	1.8	15.6	6.7	.2	.0	.0	24.3	8.5	23.0	26.6	30.6	.0	23.2	23.1	23.1	24.9	
SE	1.2	3.3	3.7	.0	.0	.0	8.2	9.3	10.5	7.0	2.8	.0	4.8	2.5	7.4	9.2	
S	.7	1.2	.1	.0	.0	.0	2.0	5.1	3.7	1.7	.0	.0	1.3	1.9	1.4	1.5	
SW	.8	1.8	.0	.0	.0	.0	2.5	4.9	4.4	1.9	1.4	.0	.4	1.4	1.8	2.3	
W	1.1	3.2	.3	.0	.0	.0	4.7	5.1	4.8	4.3	1.4	.0	3.5	4.7	5.8	4.2	
NW	1.8	2.3	.5	.0	.0	.0	4.6	5.4	3.3	3.0	7.6	.0	3.9	7.7	5.1	4.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	33.4						33.4	.0	33.1	34.0	27.8	.0	38.6	27.5	34.4	33.9	
TOT DRS	914	794	349	16	0	0	2072	5.2	547	306	72	.0	57	91	450	569	
TOT PCT	44.1	38.3	16.8	.8	.0	.0	100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	06	12	18	21
N	2.6	.9	.5	.0	.0	4.0	7.9	3.6	3.9	3.7	4.0	
NE	7.5	7.0	1.5	.0	.0	16.2	8.6	13.6	15.8	22.6	16.2	
E	10.0	13.2	1.1	.0	.0	24.3	8.5	23.0	26.6	30.6	24.1	
SE	3.6	3.8	.8	.0	.0	8.2	9.3	9.3	2.8	3.4	8.4	
S	1.7	.4	.0	.0	.0	2.0	5.1	3.0	.0	1.7	1.4	
SW	2.0	.6	.0	.0	.0	2.5	4.9	3.5	1.4	1.0	2.1	
W	3.8	.9	.0	.0	.0	4.7	5.1	4.7	1.4	4.2	4.9	
NW	3.8	.7	.1	.0	.0	4.6	5.4	3.9	7.6	6.3	4.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	33.4					33.4	.0	33.4	27.8	31.8	34.1	
TOT DRS	1413	571	85	1	0	2072	5.2	553	72	148	999	
TOT PCT	66.3	27.6	4.1	.0	.0	100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1969-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	13.4	10.2	38.3	17.7	.4	.0	.0	5.2	100.0	853
0400Z	27.8	18.1	44.4	9.7	.0	.0	.0	4.9	100.0	72
1201Z	11.8	15.5	37.2	13.5	2.0	.0	.0	5.2	100.0	148
1802Z	14.1	9.8	38.0	17.0	1.0	.0	.0	5.3	100.0	999
TOT	19.3	10.7	38.3	16.8	1.6	.0	.0	5.2		2072
PCT	13.4	10.7	38.3	16.8	.8	.0	.0	100.0		

TABLE 5

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

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8+		
N	.5	.9	.8	4.8	6.7	6.7
NE	2.0	1.7	2.8	9.2	6.3	6.3
E	3.7	1.2	4.9	18.4	6.5	6.5
SE	.2	.1	1.1	1.8	6.8	6.8
S	.2	.0	.2	1.1	6.8	6.8
SW	.1	.0	.1	1.4	7.7	7.7
W	.0	.0	.8	2.5	7.6	7.6
NW	.6	.0	.5	5.1	7.2	7.2
VAR	.0	.0	.0	.0	7.2	7.2
CALM	2.1	1.5	2.1	27.0	7.2	7.2
TOT OBS	31	18	44	237	330	6.8
TOT PCT	9.4	5.5	13.3	71.8	100.0	

TABLE 6

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

WIND DIR	PERCENTAGE FREQUENCY											NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3000	5000	8000+	ANY HGT	ANY HGT		
N	14.9	29.9	59.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9
NE	1.2	.3	.6	.2	1.4	.8	1.5	.5	1.7	1.7	1.7	1.7	6.0
E	2.3	.3	.3	.5	3.3	1.8	3.9	1.4	2.6	1.4	1.4	1.4	10.4
SE	.1	.0	.0	.1	.5	.5	.0	.0	.6	.4	.4	.4	1.1
S	.0	.0	.0	.0	.6	.0	.0	.0	.0	.2	.2	.2	.7
SW	.0	.0	.0	.0	.7	.0	.0	.0	.3	.3	.3	.3	.8
W	.0	.0	.3	.6	.2	.2	.3	.0	.3	.0	.3	.3	1.4
NW	.1	.3	.6	.3	1.0	.7	.5	.6	.0	.1	.1	.1	2.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.6	1.5	3.9	1.5	1.2	2.4	1.5	1.5	3.0	2.4	2.4	2.4	7.3
TOT OBS	37	18	19	12	32	21	28	13	28	24	24	24	107
TOT PCT	11.2	2.4	5.8	3.6	9.7	6.4	8.3	3.9	8.8	7.3	32.4	33.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>8	>2	>1	>1/2	>1/4	>30YD	>0
>6000	14.8	15.8	15.8	15.8	16.1	16.1	16.1	16.1
>5000	18.8	19.7	19.7	19.7	20.0	20.0	20.0	20.0
>4500	23.6	28.2	28.2	28.2	28.5	28.5	28.5	28.5
>4000	25.2	33.6	34.2	34.5	34.8	34.8	34.8	34.8
>3500	26.4	40.3	43.6	44.2	44.5	44.5	44.5	44.5
>3000	26.4	41.8	47.3	47.9	48.2	48.2	48.2	48.2
>2500	26.4	43.3	52.1	53.0	53.3	53.3	53.3	53.3
>2000	26.7	43.9	54.2	55.5	55.8	55.8	55.8	55.8
>1500	26.7	44.2	57.5	60.6	64.2	66.4	67.6	67.6
TOTAL	88	146	190	200	212	219	223	223

TOTAL NUMBER OF OBS: 330 PCT FREQ NH <5/8: 32.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.0	4.8	9.1	4.8	.6	3.6	7.6	4.2	41.5	10.6	330

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

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VALDEZ, AK
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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	.5	.6	.1	.1	.1	.2	.1	.0	3.3	5.1	
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.7	.9	
	TOT %	.2	.6	.5	.1	.1	.1	.2	.1	.0	4.0	6.0	
1/2<1	PCP	.0	.7	.7	.5	.1	.1	.2	.0	.0	5.4	7.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.7	.7	.5	.1	.1	.2	.0	.0	5.5	7.9	
1<2	PCP	.1	.3	.9	.1	.0	.0	.1	.1	.0	2.2	3.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.3	.9	.1	.0	.0	.1	.1	.0	2.3	3.9	
2<5	PCP	.3	.9	1.2	.4	.1	.3	.6	.4	.0	3.2	7.3	
	NO PCP	.2	.0	.0	.0	.1	.0	.1	.1	.0	.5	1.1	
	TOT %	.5	.9	1.2	.4	.2	.3	.7	.5	.0	3.7	8.4	
5<10	PCP	.2	.6	1.2	.3	.1	.2	.3	.4	.0	2.2	5.4	
	NO PCP	.3	1.2	2.7	.3	.2	.4	.5	.5	.0	3.3	9.7	
	TOT %	.4	1.8	3.9	.6	.3	.5	.8	1.0	.0	5.5	15.1	
10+	PCP	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	.7	
	NO PCP	2.7	11.7	16.7	6.3	1.3	1.5	2.7	2.9	.0	12.3	38.0	
	TOT %	2.7	11.8	16.9	6.3	1.3	1.5	2.7	2.9	.0	12.6	38.0	
TOT OBS												2071	
TOT PCT		4.0	14.2	24.3	8.2	2.0	2.5	4.7	4.6	.0	33.4	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.2	.0	.0	.0	.0	.1	.1	.0	4.1	4.6	
	4-10	.1	.4	.6	.0	.1	.1	.1	.1	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.6	.6	.1	.1	.1	.2	.1	.1	.0	4.1	6.1
1/2<1	0-3	.0	.3	.0	.1	.0	.0	.0	.0	.0	5.5	6.1	
	4-10	.0	.4	.6	.3	.1	.1	.2	.0	.0	.0	1.6	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.7	.7	.5	.1	.1	.2	.0	.0	.0	5.5	7.9
1<2	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.6	
	4-10	.1	.1	.8	.1	.0	.0	.1	.0	.0	.0	1.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.9	.1	.0	.0	.1	.1	.0	.0	2.3	3.9
2<5	0-3	.1	.2	.3	.1	.1	.1	.1	.2	.0	3.7	4.9	
	4-10	.3	.6	.9	.3	.1	.2	.4	.2	.0	.0	3.1	
	11-21	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	.3	
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.5	.9	1.2	.4	.2	.3	.7	.3	.0	.0	3.7	8.4
5<10	0-3	.3	.5	.6	.3	.1	.3	.2	.3	.0	3.3	8.3	
	4-10	.1	1.2	2.4	.4	.2	.2	.5	.4	.0	.0	3.3	
	11-21	.0	.2	.7	.1	.0	.0	.1	.0	.0	.0	1.3	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.4	1.8	3.9	.8	.3	.5	.8	1.0	.0	.0	5.5	15.1
10+	0-3	.4	1.0	.7	.6	.5	.3	.7	.9	.0	12.5	17.7	
	4-10	1.4	6.2	10.4	2.2	.7	1.2	1.9	1.3	.0	.0	25.5	
	11-21	.8	4.2	5.7	3.6	.1	.0	.1	.5	.0	.0	15.0	
	22+	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	2.7	11.8	16.9	6.3	1.3	1.5	2.7	2.9	.0	.0	12.3	38.7
TOT OBS												2072	
TOT PCT		4.0	14.2	24.3	8.2	2.0	2.5	4.7	4.6	.0	33.4	100.0	

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PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	291	599	999	1999	3499	4999	6499	7999				
00003	14.6	2.9	4.9	3.9	8.7	4.9	9.7	3.9	6.8	8.7	68.9	31.1	103
06009	21.6	.0	5.4	2.7	5.4	2.7	13.5	.0	10.8	.7	64.9	35.1	37
12015	8.0	1.1	8.0	5.7	9.1	10.2	5.7	2.3	14.8	10.2	75.0	25.0	88
18021	6.9	3.9	4.9	2.0	12.7	5.9	7.8	6.9	4.9	4.9	60.8	39.2	102
TOT	47	8	19	12	32	21	28	13	29	24	223	107	330
PCT	11.2	2.4	5.8	3.6	9.7	6.4	8.5	3.9	8.8	7.3	87.6	32.4	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	9.3	9.1	4.9	6.9	12.8	61.4	853
06009	6.9	2.8	5.4	13.9	33.3	37.5	72
12015	4.1	4.1	2.0	12.8	31.8	45.3	148
18021	7.0	7.7	3.9	8.7	13.2	59.9	1000
TOT	126	63	80	175	312	1217	2073
PCT	6.1	7.9	3.9	8.4	15.1	58.7	100.0

TABLE 12

CUMULATIVE PCT FRQ OF RANGS OF VSRY (NH) AND/OR CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <300D	<600 <1	<1000 <5	1000+ AND3+	NH <5/8 AND 3+	TOTAL OBS
00003	14.6	22.3	30.1	38.8	31.1	103
06009	21.6	27.0	32.4	35.1	32.4	37
12015	8.0	17.0	31.8	48.9	19.3	88
18021	6.9	16.7	25.5	36.3	38.2	102
TOT	37	65	97	133	100	330
PCT	11.2	19.7	29.4	40.3	30.3	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 FRQ
45/49	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
47/44	.0	.0	.0	.1	.1	.3	.0	.0	4	4.4
35/39	.0	.0	.0	.1	.4	.5	.8	3.0	45	4.8
30/34	.0	.0	.9	1.7	1.7	1.3	7.0	14.8	251	27.0
25/29	.0	2	1.0	1.7	2.4	1.6	4.0	5.4	151	16.2
20/24	.0	.0	1.6	.8	2.7	3.8	6.6	2.9	170	18.3
15/19	.0	.0	.6	3.7	4.2	1.7	5.5	1.8	163	17.5
10/14	.0	.2	1.7	.2	4.0	.9	3.2	.5	100	10.7
5/9	.0	.0	.2	1.0	.0	1.6	.6	.3	35	3.8
0/4	.0	.0	.0	.1	.0	1.1	.0	.0	11	1.2
TOTAL	0	4	56	83	144	119	257	268	931	100.0
PCT	.0	.4	6.0	4.9	15.5	12.8	27.6	28.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
45/49	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
47/44	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0
35/39	.0	1.0	1.0	.8	.0	.3	.6	.3	.0	1.3
30/34	.0	2.6	4.1	.5	.9	.6	1.2	1.9	.0	14.2
25/29	.0	2.6	3.1	1.7	.6	.5	.7	.8	.0	5.6
20/24	.0	4.6	6.2	1.1	.3	.2	.6	1.3	.0	3.2
15/19	1.2	4.7	7.5	1.2	.2	.2	.7	.3	.0	1.5
10/14	.6	2.4	4.2	1.2	.2	.3	.5	.4	.0	.9
5/9	.0	1.3	2.1	.0	.0	.0	.0	.3	.0	.0
0/4	.0	.2	.9	.0	.0	.0	.0	.0	.0	.0
TOTAL	4.4	19.6	29.6	5.7	2.2	2.1	4.4	5.4	.0	26.6

TABLE 15

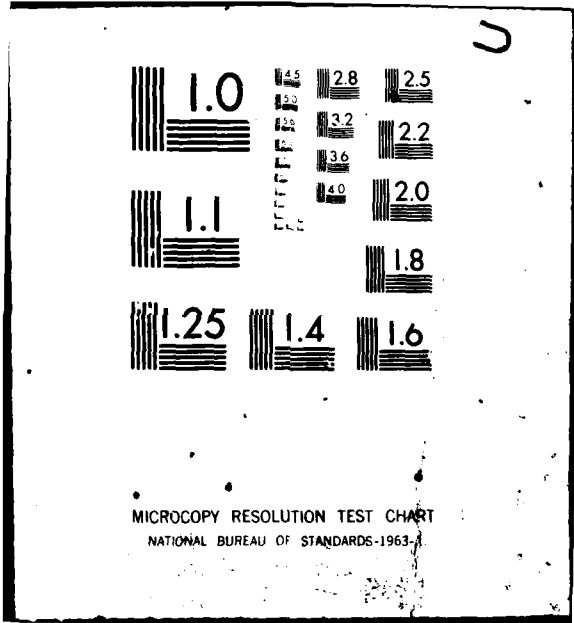
MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	39	37	27	9	3	-3	25.3	853
06009	39	38	34	21	8	7	7	21.9	72
12015	40	38	35	24	10	6	5	23.4	148
18021	40	36	35	25	6	-3	-8	23.4	1000
TOT	74	39	35	26	8	-1	-8	24.1	2073

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	17.3	18.7	11.9	26.1	25.8	77	937		
06009	.0	12.3	13.9	13.3	20.2	29.2	80	72		
12015	.0	7.4	12.2	12.8	23.1	38.5	86	148		
18021	.0	17.1	14.2	13.1	28.1	27.5	78	374		
TOT	0	143	144	119	257	268	79	931		



PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

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VALDEZ, AK
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	15.6	.0	.0	15.6	.0	.0	.0	.0	.0	1.3	83.1
NE	.5	.1	.3	.0	15.6	.0	.0	16.1	.0	.0	.3	.0	.0	.0	83.6
E	1.6	.2	.0	.0	15.2	.0	.0	16.2	.0	.0	.6	.0	.0	.0	83.3
SE	.2	.0	.0	.0	9.3	.0	.0	9.3	.0	.0	.8	.0	.0	.4	89.4
S	2.7	.0	.0	.0	4.9	.0	.0	6.4	.0	.0	.0	.0	.0	.0	93.6
SW	3.8	.0	.7	.0	20.4	.0	.0	22.9	.0	.0	2.0	.0	.0	.0	75.1
W	8.8	.0	4.0	.0	27.6	.0	.0	34.8	.0	.0	2.0	.0	.0	.0	63.2
NW	3.2	.8	.6	.0	30.1	.8	.0	33.9	.0	.0	1.3	.0	.0	.8	63.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	.0	2.6	.0	42.5	.0	.0	47.7	.0	.0	3.2	.0	.0	.0	49.1
TOT PCT	2.9	.1	1.2	.0	24.7	.0	.0	27.5	.0	.0	1.6	.0	.0	.1	70.7
TOT OBS:	2211														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.4	.2	1.5	.0	25.4	.0	.0	29.3	.0	.0	.7	.0	.0	.0	70.0
06009	.0	.0	4.3	.0	25.0	.0	.0	29.3	.0	.0	1.1	.0	.0	.0	69.6
12015	.0	.0	.0	.0	22.8	.0	.0	22.8	.0	.0	1.3	.0	.0	1.3	74.7
18021	2.3	.0	.9	.0	24.4	.1	.0	26.6	.0	.0	2.4	.0	.0	.1	70.9
TOT PCT	2.9	.1	1.2	.0	24.7	.0	.0	27.5	.0	.0	1.6	.0	.0	.1	70.8
TOT OBS:	2212														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						40+	TOTAL ORS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18
N	1.0	1.4	.8	.1	.0	.0		3.5	7.3	2.2	1.6	6.3	18.2	6.1	3.4	6.2	1.9
NE	2.6	8.6	3.4	.3	.1	.0		14.9	7.9	4.9	15.1	26.2	27.3	24.6	24.3	19.1	12.6
E	2.1	9.2	4.7	.4	.0	.0		16.4	8.7	13.0	13.9	11.7	13.6	21.9	13.3	18.7	17.5
SE	1.7	4.8	3.8	.4	.0	.0		10.7	9.6	13.6	8.7	3.1	4.3	6.1	7.4	6.4	14.8
S	1.3	1.4	.1	.0	.0	.0		3.0	4.4	3.9	2.3	.0	.0	1.8	2.2	1.1	4.7
SW	2.6	3.4	.1	.0	.0	.0		8.1	4.3	17.7	6.6	1.3	.0	.4	.2	2.2	7.6
W	2.6	4.4	.6	.0	.0	.0		7.8	3.2	11.7	10.2	3.6	.0	4.4	6.4	4.6	6.6
NW	1.9	3.3	.7	.1	.0	.0		6.0	3.9	4.5	8.3	10.3	.0	4.8	8.9	3.9	3.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	29.7							29.7	.0	22.6	33.1	37.0	36.4	29.8	26.7	35.6	28.9
TOT OBS	1006	865	313	25	2	0	2211		3.1	367	314	81	11	57	101	303	377
TOT PCT	43.5	39.1	14.2	1.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL ORS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	06	09
N	2.4	.6	.4	.0	.0		3.5	7.3	2.0	6.0	7.6	3.9
NE	7.9	5.9	.9	.1	.0		14.9	7.9	11.1	26.4	24.4	13.6
E	7.2	7.8	1.4	.1	.0		16.4	8.7	14.6	12.0	17.7	18.1
SE	4.9	4.0	1.7	.0	.0		10.7	9.6	11.8	3.3	7.0	10.9
S	2.5	.5	.0	.0	.0		3.0	4.4	3.4	.0	2.1	3.0
SW	7.4	.6	.0	.0	.0		8.1	4.3	13.7	1.4	.3	3.1
W	6.3	1.4	.1	.0	.0		7.8	3.2	11.2	4.9	3.7	3.7
NW	4.3	1.4	.2	.0	.0		6.0	3.9	3.9	9.2	7.4	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	29.7						29.7	.0	26.3	37.0	27.8	32.0
TOT ORS	1007	491	108	3	0	2211		3.1	881	92	158	1000
TOT PCT	42.7	22.2	4.9	.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1971-1977
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	26.3	13.3	42.2	14.3	1.8	.0	.0	5.5	100.0	881	
0600Z	17.0	16.3	32.6	13.0	1.1	.0	.0	4.5	100.0	92	
1200Z	27.8	20.3	43.0	8.2	.6	.0	.0	4.5	100.0	158	
1800Z	32.0	15.6	36.6	13.0	.4	.2	.0	3.0	100.0	1080	
TOT	656	350	863	313	25	2	0	5.1		2211	
PCT	29.7	15.8	39.1	14.2	1.1	.1	.0		100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	3.0	1.1	3.6	18.4	6.7	6.7
E	2.1	.8	1.0	11.7	6.7	6.7
SE	.1	.0	.6	2.1	7.4	7.4
S	.2	.5	.0	.0	6.3	6.3
SW	.1	.3	1.8	.9	6.7	6.7
W	.3	.5	1.8	3.4	6.7	6.7
NW	1.6	.1	.8	4.4	6.2	6.2
VAR	.0	.0	.0	.0	.0	.0
CALM	1.9	.8	2.7	25.2	7.3	7.3
TOT OBS	38	17	30	260	365	6.8
TOT PCT	10.4	4.7	13.7	71.2	100.0	

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	CEILING HEIGHTS (FT, NH >6/8)										NH <5/8 ANY HGT	TOTAL OBS
							000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	1.2	.8	1.3	4.2	6.7	6.7	.5	.0	.2	.3	.8	.3	1.2	.8	.3	.0	3.0	
NE	3.0	1.1	3.6	18.4	6.7	6.7	5.5	.3	.6	.1	3.0	.6	1.2	2.0	2.3	1.4	9.1	
E	2.1	.8	1.0	11.7	6.7	6.7	3.2	.0	.7	1.0	.3	1.0	1.0	.5	.5	.3	6.8	
SE	.1	.0	.6	2.1	7.4	7.4	.4	.0	.3	.1	.0	.3	.1	1.1	.0	.0	.5	
S	.2	.5	.0	.0	6.3	6.3	.2	.0	.0	.0	.2	.3	.2	.0	.0	.0	.5	
SW	.1	.3	1.8	.9	6.7	6.7	.4	.1	.0	.0	.1	.1	.3	.3	.3	.0	1.3	
W	.3	.5	1.8	3.4	6.7	6.7	1.0	.2	.3	.3	1.2	.4	.7	.0	.0	.0	1.9	
NW	1.6	.1	.8	4.4	6.2	6.2	1.9	.0	.3	.1	.5	.6	.0	.3	.3	.3	7.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9	.8	2.7	25.2	7.3	7.3	7.7	.3	1.6	2.2	4.9	1.9	2.3	1.1	.5	1.1	6.8	
TOT OBS	38	17	30	260	365	6.8	76	3	13	40	20	28	21	15	12	12	120	
TOT PCT	10.4	4.7	13.7	71.2	100.0		20.8	.8	4.1	4.1	11.0	5.3	7.7	3.8	4.1	3.3	32.9	

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>9	>8	>7	>6	>5	>4	>3	>2
>6500	6.8	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
>5000	11.8	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
>3500	16.7	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
>2000	17.8	24.9	26.3	26.3	26.3	26.3	26.3	26.3	26.3
>1000	18.1	31.2	36.7	37.0	37.3	37.3	37.3	37.3	37.3
>600	18.1	32.9	40.3	40.8	41.4	41.4	41.4	41.4	41.4
>300	18.1	34.2	44.4	44.9	45.3	45.3	45.3	45.3	45.3
>150	18.1	35.1	43.2	43.8	44.3	44.3	44.3	44.3	44.3
>0	18.1	35.1	39.7	35.1	63.8	66.3	67.1	67.1	67.1
TOTAL	66	128	185	201	233	242	248	248	248

TOTAL NUMBER OF OBS: 365

PCT FREQ NH <5/8: 32.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
19.2	9.3	5.3	3.0	1.9	1.6	5.2	3.8	35.6	20.8

PERIOD: (PRIMARY) 1971-1977
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TABLE 8

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

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.2	.3	.1	.0	.1	.2	.1	.0	1.4	2.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.4	
	TOT %	.0	.2	.3	.1	.0	.1	.2	.1	.0	1.6	2.8	
1/2<1	PCP	.1	.7	.7	.2	.0	.4	.4	.3	.0	2.9	5.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.1	.7	.7	.2	.0	.4	.4	.3	.0	3.1	5.9	
1<2	PCP	.0	.5	.2	.2	.0	.2	.3	.2	.0	2.0	3.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.5	.2	.2	.0	.2	.3	.2	.0	2.1	3.8	
2<5	PCP	.0	.6	.9	.5	.1	.5	1.0	.8	.0	4.1	9.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	.9	
	TOT %	.0	.6	.9	.5	.1	.5	1.1	.8	.0	4.5	9.9	
5<10	PCP	.1	.2	.4	.0	.0	.5	.8	.6	.0	3.0	5.6	
	NO PCP	.5	1.0	1.3	.6	.6	.5	1.0	.6	.0	3.7	5.9	
	TOT %	.5	1.3	1.7	.6	.6	1.0	1.7	1.1	.0	6.6	11.1	
10+	PCP	.0	.1	.2	.0	.0	.0	.1	.0	.0	.6	1.3	
	NO PCP	2.5	11.4	12.3	9.0	2.4	3.6	4.0	3.3	.0	11.0	61.4	
	TOT %	2.5	11.5	12.6	9.0	2.4	3.6	4.2	3.3	.0	11.6	62.7	
TOT OBS												2211	
TOT PCT												3.5 14.9 16.4 10.7 3.0 8.1 7.8 6.0 .0 29.7 100.0	

TABLE 9

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

VISBY (NM)	SPO KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.2	.1	.1	.0	.0	.0	.1	.0	1.6	2.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.3	.1	.0	.0	.0	.1	.2	.0	1.6	2.6
1/2<1	0-3	.1	.2	.2	.1	.0	.3	.0	.1	.0	3.1	4.1	
	4-10	.0	.5	.4	.1	.0	.1	.2	.2	.0	1.3	1.9	
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.7	.7	.2	.0	.4	.4	.3	.0	3.1	5.8	
1<2	0-3	.0	.2	.1	.1	.0	.1	.2	.1	.0	2.1	2.9	
	4-10	.0	.5	.1	.1	.0	.1	.1	.1	.0	.8	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.5	.2	.2	.0	.2	.3	.3	.0	2.1	3.8	
2<5	0-3	.2	.1	.2	.2	.1	.2	.4	.3	.0	4.3	6.1	
	4-10	.1	.5	.7	.4	.0	.5	.6	.5	.0	3.3	3.8	
	11-21	.0	.0	.0	.1	.0	.0	.2	.1	.0	.4	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.6	.9	.7	.1	.7	1.1	.9	.0	4.5	9.8	
5<10	0-3	.1	.4	.5	.2	.2	.5	.5	.4	.0	6.6	9.5	
	4-10	.2	.8	.8	.1	.2	.5	1.0	.6	.0	4.3	4.3	
	11-21	.2	.1	.4	.2	.0	.0	.2	.1	.0	1.3	1.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	1.3	1.7	.6	.4	1.0	1.7	1.1	.0	6.6	15.1	
10+	0-3	.7	1.5	.9	1.0	1.0	1.3	1.6	.9	.0	11.6	20.7	
	4-10	1.2	6.4	7.0	4.1	1.3	4.1	2.6	1.9	.0	28.7	28.7	
	11-21	.6	3.3	4.3	3.6	.1	.0	.0	.4	.0	12.2	12.2	
	22+	.1	.3	.4	.4	.0	.0	.0	.0	.0	1.1	1.1	
	TOT %	2.5	11.5	12.6	9.0	2.4	5.6	4.2	3.3	.0	11.6	62.7	
TOT OBS												2211	
TOT PCT												3.5 14.9 16.4 10.7 3.0 8.1 7.8 6.0 .0 29.7 100.0	

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PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

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TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	18.8	.0	3.6	4.5	9.8	2.7	7.1	1.8	5.4	4.5	58.0	62.0	112
0600Z	26.7	2.2	2.2	.0	13.3	15.0	6.7	8.9	2.2	4.4	82.2	17.8	45
1201Z	22.6	1.1	5.4	4.3	14.0	6.5	9.7	9.7	3.2	1.1	77.4	22.6	93
1802Z	19.1	.9	4.3	5.2	8.7	3.5	7.0	5.2	4.3	3.9	61.7	38.3	115
TOT	76	3	13	13	40	20	28	21	15	12	245	120	345
PCT	20.8	.8	4.1	4.1	11.0	5.5	7.7	5.8	4.1	3.3	67.1	32.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	2.0	5.8	3.3	9.3	14.9	64.3	881
0600Z	3.3	4.3	4.3	15.2	30.4	42.4	92
1201Z	1.9	2.5	4.4	12.7	30.4	48.1	158
1802Z	3.4	6.5	4.0	9.3	11.7	45.1	1081
TOT	61	129	89	217	333	1387	2212
PCT	2.8	5.8	3.8	9.8	15.1	62.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <90VD	<600 <1	<1000 <5	1000+ ANOS+	NH <5/8 AND 5+	TOTAL OBS
0000Z	18.8	22.3	33.7	25.9	38.4	112
0600Z	26.7	31.1	40.0	42.2	17.8	45
1201Z	22.6	29.0	37.6	39.8	22.6	93
1802Z	19.1	26.1	38.3	25.2	36.5	115
TOT	76	96	137	114	114	345
PCT	20.8	26.3	37.5	31.2	31.2	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 FRQG
50/36	.0	.0	.1	.1	.0	.0	.0	.0	1	.1
45/49	.0	.0	.1	.4	.4	.0	.0	.0	11	1.1
40/46	.0	.1	.0	.9	1.0	.5	.9	.0	34	3.3
35/39	.0	.1	2.0	3.3	7.0	2.1	2.3	4.4	170	16.7
30/34	.0	.2	1.7	5.8	4.8	3.8	7.6	7.7	321	31.0
25/29	.0	.5	1.1	5.2	4.4	4.4	5.7	4.3	283	25.9
20/24	.0	.2	1.5	1.5	1.1	2.3	2.5	.6	99	9.7
15/19	.0	.1	.5	3.3	1.2	1.4	2.1	.3	90	8.8
10/14	.0	.0	.3	.0	1.5	.2	.5	.0	23	2.3
5/9	.0	.0	.0	.2	.0	.3	.0	.0	5	.5
TOTAL	0	12	72	207	178	154	218	176	1017	100.0
PCT	.0	1.2	7.1	20.4	17.5	15.1	21.4	17.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/36	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
45/49	.0	.1	.1	.0	.3	.3	.2	.0	.0	.0
40/46	.0	.4	.1	.2	.3	1.1	.4	.0	.0	.8
35/39	.4	2.0	2.0	2.1	.7	1.3	1.2	.9	.0	6.2
30/34	1.2	3.4	3.7	1.4	.4	2.2	2.7	2.3	.0	10.3
25/29	1.6	7.2	4.6	.9	.2	.5	2.1	1.6	.0	7.3
20/24	.8	2.0	2.5	.7	.2	.1	.6	.9	.0	2.0
15/19	1.0	1.7	2.8	1.4	.2	.0	.6	.9	.0	.5
10/14	.2	.6	.8	.0	.0	.0	.4	.0	.0	.3
5/9	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0
TOTAL	5.0	19.7	18.7	6.7	2.4	5.6	7.6	7.0	.0	27.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	78	44	41	33	14	4	1	31.0	881
0600Z	38	37	35	29	15	7	7	27.5	92
1201Z	35	34	34	27	13	10	7	25.7	158
1802Z	46	42	39	30	10	2	-11	28.1	1081
TOT	78	45	40	31	13	3	-11	29.1	2212

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	33.6	19.1	13.1	15.1	17.1	17.1	59	345	
0600Z	.0	17.4	13.0	14.1	20.1	29.3	79	92		
1201Z	.0	13.3	13.2	17.7	31.0	22.8	79	158		
1802Z	.0	32.7	18.0	14.5	22.0	12.8	70	422		
TOT	0	291	178	154	218	176	72	1017		

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1964-1977

APRIL

VALDEZ, AK
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG MO PCPN	FGG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	5.1	.0	.0	.0	8.8	1.0	.0	12.2	.0	.0	.0	.0	.0	.0	87.8
NE	5.3	1.6	.8	.0	7.9	.0	.0	14.5	.0	.0	1.6	.0	.0	.0	85.8
E	7.3	.6	.0	.0	13.9	.0	.0	18.6	.0	.0	.4	.0	.0	.0	81.2
SE	9.9	.6	.0	.0	11.7	.0	.0	21.0	.0	.0	1.9	.0	.0	.0	77.1
S	8.1	2.8	.6	.0	15.9	.0	.0	23.6	.0	.0	.6	.0	.0	.0	75.8
SW	12.3	1.7	1.7	.0	12.7	.0	.0	22.8	.0	.0	.5	.0	.0	.0	76.6
W	17.7	4.4	3.7	.0	19.3	.0	.0	38.2	.0	.0	.6	.0	.0	.0	61.1
NW	19.4	5.2	2.7	.0	20.4	.2	.0	38.5	.0	.0	.9	.0	.0	.0	60.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.5	1.4	1.7	.0	10.6	.4	.4	40.8	.0	.0	2.7	.0	.0	.0	56.3
TOT PCT	11.3	2.1	1.6	.0	18.3	.2	.1	29.0	.0	.0	1.3	.0	.0	.0	69.7
TOT OBS:	1980														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG MO PCPN	FGG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
00003	12.8	2.2	1.9	.0	16.8	.0	.1	28.6	.0	.0	.8	.0	.0	.0	70.6
06009	10.8	2.4	2.4	.0	19.3	.0	.0	33.7	.0	.0	1.2	.0	.0	.0	65.1
12015	6.9	.8	1.5	.0	28.5	.0	.0	33.4	.0	.0	3.8	.0	.0	.0	66.8
18021	10.7	2.1	1.3	.0	18.0	.3	.1	28.2	.0	.0	1.3	.0	.0	.0	70.3
TOT PCT	11.3	2.1	1.6	.0	18.3	.2	.1	29.0	.0	.0	1.3	.0	.0	.0	69.7
TOT OBS:	1980														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	1.3	1.7	.7	.1	.0	.0	.0	3.7	7.5	3.3	3.9	2.8	12.5	5.8	5.1	4.6	2.5
NE	1.7	2.6	1.7	.0	.0	.0	.0	6.2	7.7	3.9	4.2	18.6	15.0	6.7	13.9	7.5	5.7
E	2.0	4.8	1.6	.0	.0	.0	.0	8.4	6.7	7.0	10.3	3.3	5.8	13.4	9.8	11.5	6.1
SE	3.1	4.7	.6	.0	.0	.0	.0	8.4	5.2	7.3	7.7	.5	.8	5.8	3.4	12.4	8.6
S	2.9	3.7	.0	.0	.0	.0	.0	6.2	3.9	7.1	5.0	3.3	.0	3.6	2.4	5.7	7.7
SW	4.9	17.7	.2	.0	.0	.0	.0	21.7	5.0	34.0	23.1	1.9	6.7	3.6	7.1	8.1	26.5
W	3.9	9.8	.4	.1	.0	.0	.0	13.7	5.2	19.6	19.2	11.3	5.8	4.5	4.7	7.3	14.6
NW	7.4	4.1	.4	.2	.0	.0	.0	7.0	5.6	5.7	12.2	16.0	6.7	6.5	9.1	5.7	6.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	24.4	.0	.0	.0	.0	.0	.0	24.4	.0	12.4	14.3	48.3	46.7	48.2	44.6	36.9	20.4
TOT OBS	896	967	111	8	0	0	1982		4.2	502	231	83	36	56	76	483	353
TOT PCT	45.2	48.8	5.6	.4	.0	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	2.3	1.0	.3	.0	.0	3.7	7.5	3.5	6.3	5.4	3.5	
NE	3.2	2.6	.4	.0	.0	6.2	7.7	4.0	15.4	10.8	6.5	
E	5.0	3.2	.2	.0	.0	8.4	6.7	8.1	4.2	11.3	8.6	
SE	6.3	2.1	.1	.0	.0	8.4	5.2	7.4	.6	4.4	10.3	
S	3.9	.3	.0	.0	.0	6.2	3.9	6.4	2.1	2.9	6.8	
SW	17.8	3.9	.0	.0	.0	21.7	5.0	30.3	3.6	3.6	19.0	
W	10.8	2.8	.1	.0	.0	13.7	5.2	19.3	9.3	4.6	11.3	
NW	9.5	1.2	.3	.0	.0	7.0	5.6	7.7	12.7	8.8	5.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	24.4	.0	.0	.0	.0	24.4	.0	12.0	45.8	46.2	36.1	
TOT OBS	1016	341	26	1	0	1982		733	83	130	1036	
TOT PCT	51.4	17.2	1.3	.1	.0	100.0		100.0	100.0	100.0	100.0	

APRIL

PERIOD: (PRIMARY) 1971-1977
(COVER-ALL) 1969-1977

VALDEZ, AK
61.1M 146.3M

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-39	34-47	48+			
0000Z	13.0	17.2	63.0	6.5	.9	.0	.0	5.1	100.0	733
0600Z	45.8	19.3	27.7	6.0	1.2	.0	.0	3.3	100.0	93
1200Z	46.2	23.1	27.3	6.0	1.5	.0	.0	3.2	100.0	130
1800Z	28.1	23.2	43.7	4.7	.8	.0	.0	3.7	100.0	1036
TOT	484	412	969	111	8	0	0	4.2		1982
PCT	24.4	20.8	48.8	5.6	.4	.0	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	.9	.3	1.2	5.6	6.7	6.7
E	2.1	.3	1.7	6.9	6.3	6.3
SE	.3	.3	.5	4.0	7.2	7.2
S	.0	.3	.7	2.7	7.3	7.3
SW	1.5	.0	2.5	6.9	6.7	6.7
W	.4	.0	2.8	9.9	7.4	7.4
NW	.4	.1	1.7	7.2	7.2	7.2
VAR	.0	.0	.0	.0	.0	.0
CALM	1.1	1.1	3.3	29.4	7.4	7.4
TOT OBS	76	11	59	278	367	7.1
TOT PCT	1.1	3.0	15.0	74.9	100.0	

TABLE 6

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

WIND DIR	000	150	250	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.7
NE	.3	.0	.3	.3	.4	.3	.3	.3	.4	.8	.1	4.6	6.3
E	1.0	.0	.3	.3	.5	.5	.5	.7	1.0	.4	.0	6.3	6.3
SE	.4	.0	.3	.1	.8	.1	.1	.1	.2	.1	.0	2.1	2.1
S	.0	.0	1.3	.3	.5	.3	.3	.2	.0	.0	.0	1.0	1.0
SW	.8	.5	1.2	.6	.7	.4	.0	1.2	.3	.3	.3	4.9	4.9
W	1.4	.3	1.2	1.7	3.0	.9	.0	.5	.3	.2	.1	3.1	3.1
NW	.0	.3	.6	.1	2.6	.9	.7	.3	.3	.6	.2	2.9	2.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1	1.6	3.3	2.3	4.6	.8	1.9	1.9	.8	1.1	.7	7.1	7.1
TOT OBS	76	10	31	22	49	15	17	24	11	11	127	367	367
TOT PCT	1.1	2.7	8.4	6.0	13.4	4.1	4.6	6.5	3.0	3.0	34.6	100.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	4.9	6.0	6.0	6.0	6.0	6.0	6.0	6.0
>5000	10.9	12.5	12.5	12.5	12.5	12.5	12.5	12.5
>3500	13.4	17.2	17.2	17.2	17.2	17.2	17.2	17.2
>2000	15.8	21.3	21.3	21.3	21.3	21.3	21.3	21.3
>1000	19.3	31.3	34.1	34.3	34.6	34.6	34.6	34.6
>600	19.3	34.9	39.8	40.1	40.6	40.6	40.6	40.6
>300	19.6	36.5	47.4	48.3	49.0	49.0	49.0	49.0
>150	19.6	37.3	49.9	51.2	51.8	51.8	51.8	51.8
>0	19.6	37.3	51.0	53.4	63.2	65.4	65.4	65.4
TOTAL	72	137	187	196	232	240	240	240

TOTAL NUMBER OF OBS: 367

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
	12.3	9.0	9.3	3.3	.8	5.7	8.7	1.1	36.3	13.4	367

APRIL

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

VALDEZ, AK
61.1N 146.5W

TABLE 8

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

VSBY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.1	.2	.1	.1	.6	.4	.2	.0	1.6	3.2	
	NO PCP	.0	.0	.0	.1	.0	.1	.0	.0	.0	.1	.2	
	TOT %	.1	.1	.2	.1	.1	.6	.4	.2	.0	1.6	3.4	
1/2<1	PCP	.1	.2	.3	.3	.3	.7	.4	.2	.0	2.6	5.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.1	.2	.3	.3	.3	.7	.4	.2	.0	2.7	5.3	
1<2	PCP	.1	.1	.3	.2	.2	.4	.6	.2	.0	1.0	2.9	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.3	.2	.2	.4	.6	.2	.0	1.0	2.9	
2<5	PCP	.1	.3	.3	.7	.9	1.4	1.5	1.0	.0	2.7	8.3	
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.5	.7	
	TOT %	.1	.3	.3	.7	.9	1.6	1.5	1.0	.0	3.1	9.2	
5<10	PCP	.0	.3	.3	.5	.6	1.5	1.9	1.0	.0	1.9	7.8	
	NO PCP	.0	.0	.0	.0	.0	.4	1.5	1.2	1.0	1.8	7.3	
	TOT %	.0	.3	.3	.5	.6	1.9	3.1	2.0	.0	3.7	15.3	
10+	PCP	.0	.1	.0	.2	.0	.4	.4	.2	.0	.3	1.5	
	NO PCP	2.9	4.8	6.4	6.1	4.3	15.1	7.3	3.3	.0	12.1	62.4	
	TOT %	2.9	4.9	6.4	6.2	4.3	15.5	7.7	3.5	.0	12.4	63.9	
TOT OBS												1982	
TOT PCT		3.7	6.2	8.4	8.4	6.2	21.7	13.7	7.0	.0	24.4	100.0	

TABLE 9

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

VSBY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.1	.1	.1	.3	.1	.1	.0	1.6	2.5	
	4-10	.1	.0	.1	.0	.0	.4	.3	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.2	.1	.1	.6	.4	.2	.0	.0	1.6	3.4
1/2<1	0-3	.1	.1	.1	.2	.2	.3	.1	.1	.0	2.7	3.8	
	4-10	.0	.2	.2	.1	.1	.4	.3	.1	.0	.0	1.4	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.3	.3	.3	.7	.4	.2	.0	.0	2.7	5.3
1<2	0-3	.0	.1	.1	.1	.2	.2	.4	.2	.0	1.0	2.1	
	4-10	.1	.0	.1	.1	.1	.2	.2	.1	.0	.0	.8	
	11-21	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.3	.2	.2	.4	.6	.2	.0	.0	1.0	2.9
2<5	0-3	.1	.2	.1	.3	.2	.3	.3	.7	.0	3.1	5.7	
	4-10	.1	.1	.3	.3	.3	1.0	.9	.3	.0	.0	3.2	
	11-21	.0	.0	.0	.2	.0	.1	.1	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	.1	.3	.4	.7	.5	1.6	1.5	1.0	.0	.0	3.1	9.2
5<10	0-3	.2	.4	.4	.6	.5	.8	.8	.7	.0	3.7	7.9	
	4-10	.0	.4	.3	.4	.4	2.2	2.1	1.2	.0	.0	6.9	
	11-21	.0	.1	.1	.0	.0	.0	.2	.1	.0	.0	.4	
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	
	TOT %	.4	.8	.7	.9	.8	3.0	3.1	2.0	.0	.0	3.7	15.3
10+	0-3	.0	1.0	1.2	1.8	1.4	2.3	1.8	.7	.0	12.4	23.4	
	4-10	1.5	2.1	3.9	3.9	2.9	13.1	6.0	2.3	.0	.0	33.7	
	11-21	.7	1.7	1.3	.5	.0	.2	.1	.3	.0	.0	4.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	TOT %	2.9	4.9	6.4	6.2	4.3	15.5	7.7	3.3	.0	.0	12.4	63.9
TOT OBS												1982	
TOT PCT		3.7	6.2	8.4	8.4	6.2	21.7	13.7	7.0	.0	24.4	100.0	

APRIL

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1969-1977

VALDEZ, AK
61.1N 146.3W

TABLE 10

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

HOUR (GMT)	0/0	1/0	3/0	6/0	10/0	20/0	30/0	50/0	100/0	200/0	300/0	400/0	500/0	600/0	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	8.9	1.0	9.9	10.9	8.9	5.0	3.0	3.0	2.0	1.0	55.4	44.6	101				
0600Z	16.4	3.0	3.0	1.5	14.9	4.5	7.5	6.0	1.5	3.0	61.2	38.8	67				
1201Z	16.3	1.1	8.7	6.5	19.6	4.3	6.5	8.7	3.3	6.5	81.5	18.5	92				
1802Z	14.0	3.6	10.3	3.7	11.2	2.8	2.8	6.3	4.7	1.9	63.6	36.4	107				
TOT	50	10	31	22	49	15	17	24	11	11	240	127	367				
PCT	13.6	2.7	8.4	6.0	13.4	4.1	4.6	6.3	3.0	3.0	63.4	34.6	100.0				

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
0000Z	2.0	4.2	3.0	9.8	14.6	66.3	733
0600Z	1.2	8.4	2.4	14.5	21.7	51.8	83
1201Z	3.8	10.8	3.1	13.8	20.0	48.5	130
1802Z	4.4	5.1	2.9	7.7	14.8	65.1	1036
TOT	67	105	58	192	304	1266	1982
PCT	3.4	5.3	2.9	9.2	15.3	63.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <500	<600 <1	<1000 <3	1000+ AND 3+	NH <5/8 AND 3+	TOTAL OBS
0000Z	8.9	20.8	35.6	22.8	41.6	101
0600Z	16.4	22.4	34.3	31.3	34.3	67
1201Z	16.3	27.2	40.2	43.5	16.3	92
1802Z	14.0	30.8	36.4	29.0	34.6	107
TOT	30	94	135	115	117	367
PCT	13.6	23.6	36.8	31.3	31.9	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
60/66	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
55/59	.5	.4	.1	.0	.0	.0	.0	.0	8	1.0
50/54	.0	.4	.5	.1	.3	.0	.0	.0	10	1.3
45/49	.0	.0	1.2	1.7	2.0	1.3	.3	.0	49	6.4
40/44	.0	1.2	2.5	2.7	5.9	3.1	3.5	1.4	151	19.6
35/39	.0	1.8	2.7	3.4	2.7	3.3	8.2	17.8	302	39.3
30/34	.0	.1	.9	2.3	2.4	2.1	8.2	10.7	207	26.9
25/29	.0	.0	.0	.4	1.2	.9	.8	1.2	34	4.4
20/24	.0	.0	.0	.0	.0	.8	.1	.0	7	.9
TOTAL	4	23	61	85	107	89	162	239	769	100.0
PCT	.5	3.0	7.9	11.1	13.9	11.4	21.1	31.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/66	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
55/59	.1	.3	.2	.0	.2	.2	.2	.0	.0	.0
50/54	.0	.0	.0	.2	.2	.2	.2	.3	.0	.0
45/49	.1	.0	.4	.1	.7	2.5	1.9	.4	.0	.4
40/44	.8	1.0	1.3	1.4	1.5	6.2	2.2	2.4	.0	2.8
35/39	1.3	2.0	3.3	3.3	2.6	3.0	6.2	3.3	.0	12.1
30/34	1.4	2.1	2.4	1.2	.8	1.0	2.0	2.0	.0	14.0
25/29	.7	.7	.7	.1	.0	.1	.6	.3	.0	1.4
20/24	.0	.0	.1	.0	.1	.0	.0	.0	.0	.7
TOTAL	4.6	6.1	8.6	6.2	6.0	15.1	13.3	8.9	.0	31.2

TABLE 15

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

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	60	34	48	39	31	29	26	39.8	733
0600Z	51	30	41	34	24	27	22	34.7	83
1201Z	51	41	38	33	23	22	27	32.3	130
1802Z	57	31	46	37	28	24	21	37.8	1036
TOT	60	32	47	38	29	24	21	37.9	1982

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	1.0	30.8	16.4	10.3	20.0	21.8	7.0	7.0	109	
0600Z	.0	18.1	12.0	16.9	12.0	41.0	7.8	8.3	83	
1201Z	.0	10.8	8.3	13.0	31.3	35.4	9.2	13.0	130	
1802Z	.6	22.2	13.0	10.0	19.9	32.6	7.5	38.1	1036	
TOT	4	169	107	88	162	239	73	76.9	1982	

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

MAY

VALDEZ, AK
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.9	28.6	.0	.0	3.9	.0	.0	36.4	.0	.0	.0	.0	.0	.0	63.6
NE	14.9	2.9	2.9	.0	5.7	.0	.0	22.9	.0	2.3	.0	.0	.0	.0	77.1
E	35.2	6.6	1.9	.0	7.4	.0	.0	47.4	.0	.0	.0	.0	.0	.0	52.6
SE	30.1	4.4	.9	.0	6.5	.0	.0	39.2	.0	.0	1.7	.0	.0	.0	59.0
S	10.8	3.0	.0	.0	3.0	.0	.0	16.9	.0	.0	.0	.0	.0	.0	83.1
SW	12.8	2.7	.7	.0	1.8	.0	.0	16.9	.0	.0	.2	.0	.0	.0	82.9
W	18.0	4.0	1.5	.0	1.9	.0	.0	24.0	.0	.0	.0	.0	.0	.0	76.0
NW	14.6	6.0	.9	.0	2.9	.0	.0	24.4	.0	.0	.0	.0	.0	.0	73.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.8	3.1	2.1	.0	9.1	.0	.0	42.0	.0	.0	.3	.0	.0	.0	57.7
TOT PCT	18.5	3.8	1.1	.0	3.7	.0	.0	25.7	.0	.0	.2	.0	.0	.0	74.1
TOT OBS:	2012														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	20.4	4.5	1.1	.0	2.6	.0	.0	27.1	.0	.0	.1	.0	.0	.0	72.8
0600Z	18.4	3.4	2.3	.0	1.1	.0	.0	23.0	.0	.0	.0	.0	.0	.0	77.0
1200Z	19.8	3.8	.8	.0	3.8	.0	.0	26.7	.0	.8	.8	.0	.0	.0	72.5
1800Z	17.2	3.4	1.1	.0	4.6	.0	.0	24.8	.0	.0	.2	.0	.0	.0	75.0
TOT PCT	18.5	3.8	1.1	.0	3.7	.0	.0	25.7	.0	.0	.2	.0	.0	.0	74.1
TOT OBS:	2012														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.4	.5	.0	.0	.0	.0	1.0	4.5	.6	1.4	4.0	2.4	.0	.8	1.1	
NE	1.1	.9	.2	.0	.0	.0	2.2	4.7	1.0	1.8	3.1	12.1	13.9	7.6	2.0	
E	2.0	2.4	.9	.0	.0	.0	4.7	4.6	1.2	1.8	6.3	24.2	27.2	18.0	6.3	
SE	2.4	3.2	.6	.0	.0	.0	5.7	3.9	3.7	6.1	8.2	.0	1.1	8.1	9.4	
S	3.3	7.7	.0	.0	.0	.0	11.0	4.3	7.9	5.2	1.3	.0	.0	3.5	18.5	
SW	3.0	26.7	.8	.0	.0	.0	30.5	6.0	39.1	28.2	3.1	3.2	2.2	.4	22.4	
W	2.1	18.9	4.1	.0	.0	.0	25.2	7.6	35.7	45.7	42.0	3.2	5.6	9.6	13.0	
NW	1.3	4.1	.2	.0	.0	.0	5.6	5.3	3.7	5.9	18.3	12.9	1.1	3.8	5.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	14.2	.0	.0	.0	.0	.0	14.2	.0	3.1	4.0	19.6	41.9	48.9	48.8	21.7	
TOT OBS	600	1298	116	0	0	0	2014	5.1	331	198	36	31	45	86	506	
TOT PCT	29.8	64.4	5.8	.0	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	03	06	12	18
N	.8	.1	.0	.0	.0	1.0	4.5	.8	3.4	.0	1.0	
NE	1.8	.3	.0	.0	.0	2.2	4.7	1.2	6.3	9.7	1.5	
E	4.1	.6	.0	.0	.0	4.7	4.6	1.3	12.6	21.2	4.3	
SE	5.3	.2	.0	.0	.0	5.7	3.9	4.3	1.4	5.7	7.0	
S	10.0	1.0	.0	.0	.0	11.0	4.3	7.2	.9	2.3	15.5	
SW	18.5	12.0	.0	.0	.0	30.5	6.0	36.1	3.2	1.1	32.5	
W	10.1	14.9	.1	.0	.0	25.2	7.6	38.4	28.2	8.2	17.9	
NW	3.9	1.7	.0	.0	.0	5.6	5.3	3.8	16.4	2.9	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	14.2	.0	.0	.0	.0	14.2	.0	4.8	27.6	48.9	13.3	
TOT OBS	1389	622	3	0	0	2014	5.1	729	87	131	1067	
TOT PCT	69.0	30.9	.1	.0	.0	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

MAY

VALDEZ, AK
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	4.8	9.3	74.9	11.0	.0	.0	.0	6.6	100.0	720	
0400	27.0	26.4	42.3	3.6	.0	.0	.0	2.9	100.0	87	
1215	48.9	19.8	29.8	1.5	.0	.0	.0	2.2	100.0	131	
1821	15.3	18.5	63.4	2.9	.0	.0	.0	4.5	100.0	1087	
TOT	286	374	1208	116	0	0	0	5.1		2014	
PCT	14.2	15.6	64.4	5.8	.0	.0	.0	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLDUP COVER
NE	.3	.3	1.3	2.7	6.5	6.5
E	.0	.0	1.8	10.0	7.7	7.7
SE	.0	.7	1.8	6.0	6.9	6.9
S	1.4	1.0	1.3	7.4	6.5	6.5
SW	2.1	1.3	2.4	12.0	6.6	6.6
W	.9	.2	2.4	13.2	7.3	7.3
NW	.3	.1	1.7	6.2	7.2	7.2
VAR	.0	.0	.0	.0	.0	.0
CALM	1.2	.0	2.6	17.4	7.2	7.2
TOT OBS	21	15	33	251	340	7.0
TOT PCT	6.2	4.4	15.6	73.8	100.0	

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
NE	.1	.0	.9	.4	.0	.0	.0	.0	.0	.0	.1	1.2
E	.2	.2	1.4	2.1	1.7	2.0	1.5	.6	.0	.0	.2	1.8
SE	.0	.1	.7	.8	1.4	.5	.3	.1	.0	.0	.1	2.6
S	.0	.0	.2	.8	2.2	1.3	.9	.7	.0	.0	.4	6.3
SW	.0	.3	.9	.6	1.9	1.9	.7	.1	1.0	1.9	9.0	
W	.0	.3	1.2	.9	2.6	3.6	.7	.3	.7	1.0	5.4	
NW	.0	.0	.3	.9	1.0	.7	1.0	1.2	.4	.7	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	1.2	2.6	.6	3.2	.9	2.6	.6	1.2	2.1	7.4	
TOT OBS	1	7	28	24	48	37	34	12	11	24	118	340
TOT PCT	.3	2.1	8.2	7.1	13.5	10.9	10.0	3.5	3.2	7.1	34.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)				
	>10	>3	>2	>1	>1/2
>4500	9.4	10.3	10.3	10.3	10.3
>3000	12.4	13.8	13.8	13.8	13.8
>1500	18.8	23.8	23.8	23.8	23.8
>1000	26.5	34.7	34.7	34.7	34.7
>600	29.7	47.1	48.2	48.2	48.2
>300	30.6	53.5	55.3	55.3	55.3
>150	31.2	59.7	63.3	63.3	63.3
>75	31.2	60.3	65.6	65.6	65.6
>0	31.2	60.3	65.6	65.6	65.6
TOTAL	106	205	223	223	224

TOTAL NUMBER OF OBS: 340

PCT FREQ NH <5/8: 34.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
9.3	14.3	7.1	3.8	2.6	6.2	11.8	3.3	44.1	340

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

MAY

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TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	.2	.0	.2	*	*	.0	.3	.8	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	.2	.0	.2	*	*	.0	.3	.8	
1/2<1	PCP	*	*	.2	.2	*	.2	.1	*	.0	.7	1.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.2	.2	*	.2	.1	*	.0	.7	1.4	
1<2	PCP	.0	.0	.0	.1	.1	.1	.1	*	.0	.2	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.1	.1	*	.0	.2	.5	
2<5	PCP	.0	.1	.4	.3	.5	.7	.7	.2	.0	1.0	3.9	
	NO PCP	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.4	.4	.5	.7	.7	.2	.0	1.0	4.0	
5<10	PCP	.1	.3	1.2	1.2	.9	2.0	3.3	.8	.0	2.4	12.2	
	NO PCP	.1	.3	.9	.5	.8	1.3	2.2	.9	.0	1.4	8.2	
	TOT %	.2	.6	2.1	1.7	1.5	3.4	5.5	1.7	.0	3.8	20.5	
10+	PCP	.2	.1	.4	.3	.4	2.1	1.9	.2	.0	1.3	6.9	
	NO PCP	.5	1.4	1.6	2.9	8.3	23.9	16.9	3.4	.0	8.8	63.8	
	TOT %	.7	1.4	2.0	3.2	8.9	26.0	18.8	3.6	.0	10.1	72.7	
TOT OBS												2014	
TOT PCT		1.0	2.2	4.7	5.7	11.0	30.5	25.2	5.6	.0	14.2	100.0	

TABLE 9

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

VSBY (NM)	SFD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.1	.0	*	.0	.3	.6	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.2	*	*	.0	.3	.6	
1/2<1	0-3	.0	.0	.1	.1	*	*	.0	.0	.0	.7	1.0	
	4-10	*	*	.1	.1	.0	.1	.1	*	.0	.4	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	.2	.2	*	.2	.1	*	.0	.7	1.5	
1<2	0-3	.0	.0	.0	.1	.1	.1	.1	.0	.0	.2	.5	
	4-10	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.1	.1	*	.0	.2	.5	
2<5	0-3	.0	.1	.1	.3	.2	.3	.3	.1	.0	1.0	2.4	
	4-10	.0	.1	.2	.1	.2	.4	.2	.1	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	*	.1	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.4	.4	.5	.7	.7	.2	.0	1.0	4.0	
5<10	0-3	.2	.4	1.0	.7	.8	.7	.5	.3	.0	3.8	8.5	
	4-10	*	.2	1.2	1.0	.7	2.6	4.4	1.1	.0	.0	11.1	
	11-21	.0	.0	.0	.0	.0	.1	.6	.1	.0	.0	.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.6	2.1	1.7	1.5	3.4	5.5	1.7	.0	3.8	20.5	
10+	0-3	.2	.6	.7	1.2	2.2	1.8	1.3	.6	.0	8.1	16.7	
	4-10	.5	.7	.9	1.9	8.7	23.3	14.1	2.3	.0	.0	31.2	
	11-21	*	.2	.3	*	.0	.7	3.4	.1	.0	.0	4.8	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	1.4	2.0	3.2	8.9	26.0	18.8	3.6	.0	10.1	72.7	
TOT OBS												2014	
TOT PCT		1.0	2.2	4.7	5.7	11.0	30.5	25.2	5.6	.0	14.2	100.0	

MAY

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

VALDEZ, AK
41.1M 146.3W

TABLE 10

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

HOUR (GMT)	0/0	1/0	2/0	3/0	4/0	5/0	6/0	7/0	8/0	9/0	10/0	11/0	12/0	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	3.4	3.4	3.4	14.8	18.2	5.7	3.4	2.3	3.4	88.0	49.0	88			
06009	.0	1.9	1.9	11.1	14.8	7.4	22.2	5.6	5.6	7.4	77.8	22.2	54			
12015	1.2	2.5	12.3	6.2	11.1	11.1	16.0	1.2	1.2	6.2	69.1	30.9	81			
18021	.0	.9	12.0	8.5	13.7	6.8	3.4	4.3	4.3	10.3	64.1	35.9	117			
TOT	1	7	28	24	46	37	34	12	11	24	224	116	340			
PCT	.3	2.1	8.2	7.1	13.5	10.9	10.0	3.5	3.2	7.1	65.9	34.1	100.0			

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.5	.8	3.3	10.2	76.4	729
06009	.0	.0	.0	8.0	31.0	60.9	87
12015	.0	.8	.0	6.1	42.0	51.1	131
18021	1.0	2.3	.9	3.9	10.5	73.8	1067
TOT	16	30	11	81	412	1464	2014
PCT	.8	1.5	.5	4.0	20.5	72.7	100.0

TABLE 12

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

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	6.8	12.3	46.6	40.9	88
06009	.0	3.7	22.2	59.3	18.5	54
12015	1.2	16.0	24.7	45.7	29.6	81
18021	.0	12.8	23.1	42.7	34.2	117
TOT	1	36	70	160	110	340
PCT	.3	10.6	20.6	47.1	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
76/74	.0	.1	.0	.0	.0	.0	.0	.0	1	.1
69/69	.0	.7	.0	.0	.1	.0	.0	.0	7	.8
60/64	.0	.0	1.0	.6	.1	.0	.0	.0	15	1.7
55/59	.4	2	1.3	2.2	1.7	.7	.0	.0	59	6.6
50/54	.0	.7	1.3	5.0	8.2	3.9	1.5	.0	184	20.6
45/49	.0	.1	.7	2.7	9.2	11.2	4.8	1.0	265	29.6
40/44	.0	.0	.0	.1	3.1	7.0	8.9	7.6	240	26.8
35/39	.0	.0	.0	.0	.1	.9	3.0	8.5	112	12.5
30/34	.0	.0	.0	.0	.0	.2	.0	1.0	11	1.2
TOTAL	4	16	39	99	201	214	163	162	894	100.0
PCT	.4	1.8	4.4	10.6	22.5	23.9	18.2	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALN
00003	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
06009	.0	.0	.0	.0	.1	.2	.4	.0	.0	.0
12015	.0	.8	.1	.0	.1	.2	1.2	.8	.0	.0
18021	.0	.1	.2	.1	.2	1.9	3.4	.6	.0	.1
TOT	.2	.1	.2	.3	2.0	8.3	7.7	1.6	.0	.1
PCT	.2	.4	.3	2.9	6.2	8.8	7.3	2.2	.0	1.1
TOT	.6	1.1	3.4	2.4	2.6	2.4	4.8	2.4	.0	6.9
TOT	.0	1.0	2.9	.5	.3	.6	1.3	1.0	.0	5.9
TOT	.0	.3	.2	.0	.0	.0	-1	.0	.0	.7
TOT	1.0	3.0	7.1	6.3	11.5	22.7	26.1	7.8	.0	14.4

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	65	59	48	38	35	36	48.0	729
06009	57	56	53	42	34	33	35	42.8	87
12015	50	49	46	40	34	33	33	39.6	131
18021	69	60	54	45	37	34	31	45.3	1047
TOT	70	63	57	45	36	34	31	45.0	2014

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.3	20.7	30.3	22.3	9.5	5.7	5.5	26.5	729	
06009	.0	4.6	10.3	33.3	20.7	31.0	8.0	8.0	87	
12015	.0	.0	3.1	11.5	32.8	32.7	8.7	8.7	131	
18021	.0	15.8	26.2	26.9	18.7	12.4	7.2	12.4	1047	
TOT	4	130	201	214	163	162	73	894	2014	

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1969-1977

JUNE

VALDEZ, AK
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	21.4	28.6	.0	.0	14.3	.0	.0	64.3	.0	.0	.0	.0	.0	.0	35.7
NE	26.7	6.7	4.4	.0	.0	.0	.0	33.2	.0	.0	4.4	.0	.0	.0	62.2
E	26.8	10.7	1.3	.0	.0	.0	.0	38.8	.0	.0	3.1	.0	.0	.0	58.0
SE	26.8	3.0	1.5	.0	.0	.0	.0	31.3	.0	.0	2.7	.0	1.2	.0	64.8
S	25.9	2.6	1.3	.0	.0	.0	.0	29.8	.0	.0	1.8	.0	.0	.0	68.6
SW	15.3	2.1	.7	.0	.0	.0	.0	18.0	.0	.0	.9	.0	1.9	.0	79.2
W	16.2	4.6	.7	.0	.1	.0	.0	21.8	.0	.0	.4	.0	.4	.0	77.7
NW	18.8	8.5	1.1	.0	.3	.0	.0	28.8	.0	.0	1.4	.0	1.1	.0	68.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	19.9	.6	4.2	.0	.0	.0	.0	24.1	.0	.0	3.0	.0	1.8	.0	71.1
TOT PCT	17.8	3.5	1.2	.0	.1	.0	.0	22.4	.0	.0	1.2	.0	1.2	.0	75.3
TOT OBS:	2076														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	15.2	4.0	.7	.0	.0	.0	.0	19.6	.0	.0	.1	.0	1.7	.0	78.5
0600Z	13.5	3.6	3.6	.0	.0	.0	.0	23.6	.0	.0	.0	.0	.0	.0	76.9
1200Z	16.9	4.6	2.3	.0	.0	.0	.0	23.8	.0	.0	1.5	.0	.0	.0	74.6
1800Z	20.1	2.8	1.0	.0	.2	.0	.0	24.0	.0	.0	1.9	.0	1.0	.0	73.1
TOT PCT	17.8	3.5	1.2	.0	.1	.0	.0	22.4	.0	.0	1.2	.0	1.2	.0	75.3
TOT OBS:	2076														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18
N	.2	.2	.0	.0	.0	.0	.0	.3	4.5	.2	.4	1.7	.0	.0	1.8	.3	.2
NE	.5	.5	.0	.0	.0	.0	.0	1.1	4.1	.3	.1	.8	20.0	7.4	3.9	1.3	.1
E	1.6	.9	.7	.0	.0	.0	.0	2.7	4.4	1.3	.4	4.2	8.3	7.4	11.7	4.6	1.1
SE	2.2	1.8	.1	.0	.0	.0	.0	4.0	3.7	1.2	.3	3.4	18.3	8.3	10.5	8.9	1.6
S	2.8	4.7	.0	.0	.0	.0	.0	7.5	4.3	3.4	1.9	.0	.0	4.3	8.7	16.5	6.7
SW	4.3	35.5	1.1	.0	.0	.0	.0	40.9	6.4	43.3	35.0	13.1	.0	2.1	4.2	36.1	39.8
W	1.9	23.7	3.6	.0	.0	.0	.0	31.3	7.8	43.4	34.2	47.0	3.3	.0	5.1	18.8	28.9
NW	1.0	2.8	.4	.0	.0	.0	.0	4.2	6.2	4.6	5.9	17.8	.0	8.5	4.5	2.3	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.0							8.0	.0	.2	1.3	11.9	30.0	61.7	49.4	11.2	2.2
TOT OBS	467	1457	153	0	0	0	2077	8.0	6.0	364	193	39	30	47	83	509	393
TOT PCT	22.5	76.1	7.4	.0	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40						06	09	12	15
N	.3	.0	.0	.0	.0	.0	.3	4.5	.2	1.1	1.2	.3	
NE	1.0	.1	.0	.0	.0	.0	1.1	4.1	.3	7.3	5.2	.7	
E	2.3	.3	.0	.0	.0	.0	2.7	4.4	1.1	5.6	10.2	2.7	
SE	3.9	.1	.0	.0	.0	.0	4.0	3.7	1.1	8.4	9.8	5.0	
S	6.7	.8	.0	.0	.0	.0	7.5	4.3	3.0	.0	7.1	11.2	
SW	21.8	19.2	.0	.0	.0	.0	40.9	6.4	42.7	8.7	3.5	46.7	
W	11.4	19.6	.3	.0	.0	.0	31.3	7.8	46.2	32.3	3.3	24.2	
NW	2.4	1.8	.0	.0	.0	.0	4.2	6.2	4.9	11.8	6.0	2.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.0						8.0	.0	.3	24.7	53.8	6.4	
TOT OBS	1201	869	7	0	0	2077	8.0	6.0	759	89	130	1099	
TOT PCT	97.8	41.8	.3	.0	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

JUNE

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	.5	4.6	79.4	15.3	.0	.0	.0	7.9	100.0	759
0600Z	24.7	23.0	48.3	3.4	.0	.0	.0	9.9	100.0	89
1200Z	43.8	30.0	16.2	.0	.0	.0	.0	1.7	100.0	130
1800Z	6.4	18.7	71.4	3.1	.0	.0	.0	5.3	100.0	1099
TOT	166	301	1457	153	.0	.0	.0	6.0		2077
PCT	8.0	14.5	70.1	7.4	.0	.0	.0	100.0		

TABLE 4

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

WIND DIR	0-2	3-4	5-7	MEAN	
				8 & OBSCD	TOTAL CLOUD COVER
N	.0	.0	.0	.2	8.0
NE	.0	.3	.0	2.7	7.3
E	.0	.0	.0	4.1	8.0
SE	.3	.6	.0	5.4	7.2
S	.9	.6	1.3	4.1	6.3
SW	5.6	3.4	6.7	20.4	8.2
W	1.8	.0	1.5	9.4	6.8
NW	1.5	.0	.7	3.3	5.9
VAR	.0	.0	.0	.0	.0
CALM	1.7	2.0	1.1	20.0	7.0
TOT OBS	41	24	41	249	355
TOT PCT	11.5	6.8	11.4	70.1	100.0

TABLE 6

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

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
NE	.0	.3	.0	.4	.6	.7	.0	.4	.0	.3	.0	.3
E	.0	.0	.0	.7	.7	1.0	.7	.3	.2	.3	.2	.2
SE	.3	.6	.0	1.1	1.3	1.3	2.1	.0	.0	.6	1.0	1.0
S	.9	.6	1.3	1.1	1.1	1.8	.6	.0	.0	.2	2.2	2.2
SW	5.6	3.4	6.7	17.7	34.8	42.7	3.7	.8	1.1	1.5	18.8	18.8
W	1.8	.0	1.5	3.3	2.7	4.4	1.1	.0	.2	.3	3.5	3.5
NW	1.5	.0	.7	.3	.5	.1	.9	.0	.4	.0	3.0	3.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	2.0	1.1	20.0	7.0	5.1	1.4	.6	.6	.6	7.9	7.9
TOT OBS	41	24	41	249	355	53	7	10	12	131	355	355
TOT PCT	11.5	6.8	11.4	70.1	100.0	14.9	2.0	2.8	3.4	36.9	100.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	5.1	6.2	6.2	6.2	6.2	6.2	6.2	6.2
>4000	6.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
>3500	18.6	22.8	23.1	23.1	23.1	23.1	23.1	23.1
>3000	30.7	38.3	38.9	38.9	38.9	38.9	38.9	38.9
>2500	36.3	50.1	50.7	50.7	50.7	50.7	50.7	50.7
>2000	36.6	52.7	55.2	55.2	55.2	55.2	55.2	55.2
>1500	37.2	56.6	60.6	60.8	60.8	60.8	60.8	60.8
>1000	37.2	56.9	61.7	62.0	62.0	62.0	62.0	62.0
>500	37.2	56.9	61.7	62.3	62.8	63.1	63.1	63.1
TOTAL	132	202	219	221	223	224	224	224

TOTAL NUMBER OF OBS: 355

PCT FREQ NH <5/8: 36.9

TABLE 7A

PERCENTAGE FRQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.1	14.1	5.4	3.4	2.0	3.4	9.1	1.7	31.8	1.1	355

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1968-1977

JUNE

VALDEZ, AK
61.1N 146.3W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*
	NO PCP	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
1<2	PCP	.0	.0	*	*	*	.1	.2	*	.0	.1	.6	.6
	NO PCP	.0	.0	.0	*	.0	.1	*	.0	.0	*	.5	.5
	TOT %	.0	.0	*	.1	*	.3	.2	*	.0	.2	.9	.9
2<5	PCP	*	.1	.1	.3	.7	1.7	1.3	.2	.0	.5	4.4	4.4
	NO PCP	.0	*	.0	.1	.1	1.0	.2	.1	.0	.3	1.9	1.9
	TOT %	*	.2	.1	.4	.3	2.7	1.5	.3	.0	.8	6.3	6.3
5<10	PCP	.1	.2	.6	.7	1.4	3.7	3.8	.8	.0	1.0	12.3	12.3
	NO PCP	*	.3	.7	.4	.9	3.7	3.7	.3	.0	1.1	11.3	11.3
	TOT %	.2	.5	1.2	1.3	2.3	7.4	7.6	1.0	.0	2.1	23.6	23.6
10+	PCP	*	*	.3	.3	.6	1.8	1.4	.2	.0	.2	4.8	4.8
	NO PCP	.1	.3	.9	2.0	4.2	28.6	20.5	2.6	.0	4.6	64.0	64.0
	TOT %	.1	.4	1.3	2.3	4.8	30.5	22.0	2.9	.0	4.8	68.8	68.8
TOT OBS													2076
TOT PCT		.3	1.1	2.7	4.0	7.3	40.9	31.3	4.2	.0	7.9	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*
	4-10	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	*	.0	.0	*	.0	.0	.0	.0	*	.1
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	*
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.1
1<2	0-3	.0	.0	*	.1	*	.1	.2	*	.0	.2	.6	.6
	4-10	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	*	.1	*	.3	.2	*	.0	.2	.9	.9
2<5	0-3	*	.1	*	.3	.1	.4	.2	.2	.0	.8	2.2	2.2
	4-10	.0	.1	.1	.1	.2	2.3	1.3	.1	.0	.0	4.0	4.0
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	*	.2	.1	.4	.3	2.7	1.3	.3	.0	.8	6.3	6.3
5<10	0-3	.1	.2	.8	.7	1.2	1.3	.7	.3	.0	2.1	7.4	7.4
	4-10	.1	.3	.4	.6	1.3	6.1	9.9	.7	.0	.0	13.3	13.3
	11-21	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.5	1.2	1.3	2.3	7.4	7.6	1.0	.0	2.1	23.6	23.6
10+	0-3	*	.2	.7	1.2	1.4	2.3	.9	.3	.0	4.8	12.2	12.2
	4-10	.1	.1	.4	1.0	3.2	20.9	10.4	2.1	.0	.0	30.2	30.2
	11-21	.0	.0	.2	.1	.0	1.1	4.6	.3	.0	.0	6.4	6.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.4	1.3	2.3	4.6	30.3	22.0	2.9	.0	4.8	68.8	68.8
TOT OBS													2076
TOT PCT		.3	1.1	2.7	4.0	7.3	40.9	31.3	4.2	.0	7.9	100.0	

JUNE

PERIOD: (PRIMARY) 1971-1977
(OVER-ALL) 1969-1977

VALDEZ, AK
61.1N 146.3W

TABLE 10

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

MOHR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
0000Z	.0	.0	2.3	4.6	9.2	23.0	13.8	1.1	2.3	1.1	57.5	47.5	87
0600Z	.0	1.7	5.1	8.5	5.1	15.3	22.0	3.4	8.5	5.1	74.6	25.4	59
1201Z	3.3	2.2	6.7	4.4	11.1	13.3	21.1	4.4	2.2	3.3	72.2	27.8	90
1802Z	.8	.8	7.6	2.5	17.6	12.6	7.6	.0	.8	4.2	84.6	45.4	119
TOT	4	4	20	16	42	56	53	7	10	12	224	131	355
PCT	1.1	1.1	5.6	4.5	11.8	15.8	14.9	2.0	2.8	3.4	63.1	36.9	100.0

TABLE 11

PERCENT FREQUENCY VSRV (PM) BY HOUR

MOHR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	.0	.0	.4	5.0	19.5	75.1	759
0600Z	.0	.0	.0	6.7	27.0	66.3	89
1201Z	.8	.8	2.9	4.6	34.4	96.9	130
1802Z	.2	.1	1.1	7.4	25.2	66.0	1498
TOT	3	2	18	131	494	1428	2076
PCT	.1	.1	.9	6.3	23.8	68.8	100.0

TABLE 12

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

MOHR (GMT)	<150 <90YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	.0	2.3	10.3	49.4	40.2	87
0600Z	.0	6.8	16.9	59.3	23.7	59
1201Z	3.3	12.2	18.9	54.4	26.7	90
1802Z	.8	9.2	12.6	47.9	44.5	119
TOT	4	28	51	178	126	355
PCT	1.1	7.9	14.4	50.1	35.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP								TOTAL OBS	PCT FREQ
	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100		
64/69	.0	.0	1.1	1.4	.3	.0	.0	.0	29	3.3
68/64	.0	.0	1.0	3.4	3.7	.2	.1	.0	77	8.7
55/59	.0	.1	.6	5.2	11.5	5.3	.8	.0	208	23.4
38/54	.0	.0	.0	1.1	4.7	7.3	12.2	1.4	272	30.7
45/49	.0	.0	.0	.0	.1	4.1	15.1	11.0	269	30.3
40/44	.0	.0	.0	.0	.0	.1	.7	2.7	31	3.5
35/39	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	0	1	24	104	216	151	256	135	877	100.0
PCT	.0	.1	2.7	11.7	24.4	17.0	28.9	15.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

TEMP F	PERCENT FREQUENCY OF WIND DIRECTION BY TEMP								VAR	CALM
	N	NE	E	SE	S	SW	W	NW		
64/69	.0	.0	.1	.0	.0	1.9	.8	.5	.0	.0
68/64	.0	.0	.1	.1	.1	3.6	4.3	.5	.0	.0
55/59	.0	.0	.0	.2	1.7	11.4	8.5	1.3	.0	.3
38/54	.1	.5	1.0	2.2	3.3	10.2	10.1	1.0	.0	2.4
45/49	.4	1.1	2.2	3.2	4.2	6.0	3.2	1.8	.0	2.6
40/44	.0	.0	.2	.1	.3	.1	.0	.1	.0	2.6
35/39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
TOTAL	.5	1.6	3.6	5.9	9.6	33.1	26.9	5.1	.0	13.8

TABLE 15

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

MOHR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	83	77	66	56	47	41	39	56.2	759
0600Z	65	60	57	51	49	43	43	50.7	88
1201Z	52	51	51	47	43	41	39	46.7	130
1802Z	80	68	63	52	45	39	35	52.8	1099
TOT	83	71	64	53	45	40	35	53.6	2076

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

MOHR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	29.2	33.1	17.1	16.0	4.7	67	237		
0600Z	.0	4.5	23.9	18.2	33.0	20.5	79	88		
1201Z	.0	.0	.8	10.8	41.5	46.9	88	130		
1802Z	.0	12.1	26.5	18.7	32.0	10.7	74	412		
TOT	0	12.9	21.6	15.1	25.6	13.5	75	887		

PERIOD: (PRIMARY) 1969-1977
(OVER-ALL) 1967-1977

JULY

VALUES: AK
61.1M 166.3M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
N	34.7	.0	.0	.0	.0	.0	.0	34.7	.0	.0	6.1	.0	.0	.0	59.2
NE	13.9	.0	.0	.0	.0	.0	.0	13.9	.0	.0	3.7	.0	.0	.0	82.4
E	28.5	1.3	3.8	.0	.0	.0	.0	33.5	.0	.0	3.8	.0	.0	.0	62.7
SE	23.9	1.6	6.1	.0	.0	.0	.0	31.6	.0	.0	6.8	.0	.0	.0	61.6
S	21.9	3.1	4.2	.0	.0	.0	.0	28.3	.0	.0	2.7	.0	.0	.0	69.0
SW	14.5	.7	2.9	.0	.0	.0	.0	17.1	.0	.0	1.7	.0	.0	.0	81.2
W	8.8	1.9	2.2	.0	.0	.0	.0	12.1	.0	.0	2.0	.0	.0	.0	85.9
NW	16.5	2.9	1.9	.0	.0	.0	.0	20.0	.0	.0	1.0	.0	.0	.0	79.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	24.7	.4	5.7	.0	.0	.0	.0	28.0	.0	.0	4.7	.0	.0	.0	67.4
TOT PCT	16.1	1.4	3.3	.0	.0	.0	.0	19.7	.0	.0	2.6	.0	.0	.0	77.7
TOT OBS:	2061														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHER PRZM PCPN	HAIL	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WFA
0000	14.8	1.6	2.1	.0	.0	.0	.0	18.1	.0	.0	.3	.0	.0	.0	81.7
0600	.0	.0	7.1	.0	.0	.0	.0	7.1	.0	.0	2.4	.0	.0	.0	90.5
1200	17.1	.8	3.3	.0	.0	.0	.0	21.1	.0	.0	11.4	.0	.0	.0	67.5
1800	17.6	1.3	4.0	.0	.0	.0	.0	21.2	.0	.0	3.4	.0	.0	.0	75.3
TOT PCT	16.1	1.4	3.3	.0	.0	.0	.0	19.7	.0	.0	2.6	.0	.0	.0	77.7
TOT OBS:	2061														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-3	4-10	11-21	22-33	34-47	00					06	12	18	21	
N	.5	.1	.0	.0	.0	.0	.6	2.6	.1	.0	2.4	.0	.0	1.6	.4
NE	.5	.4	.0	.0	.0	.0	1.3	6.2	.7	.1	7.3	.0	.0	1.2	1.0
E	1.2	2.3	.8	.0	.0	.0	3.9	5.4	2.4	2.9	14.0	.0	.0	6.6	5.9
SE	2.4	2.1	.0	.0	.0	.0	4.7	3.9	1.3	2.8	.6	.0	.0	7.4	10.3
S	4.2	3.3	.0	.0	.0	.0	9.5	3.8	6.1	5.0	1.8	.0	.0	3.6	18.8
SW	3.8	29.8	.4	.0	.0	.0	34.2	5.7	41.8	31.2	10.4	.0	.0	6.0	22.4
W	2.1	21.4	4.6	.0	.0	.0	28.5	7.5	39.7	48.3	44.3	.0	.0	5.1	13.1
NW	1.0	2.5	.4	.0	.0	.0	3.8	6.0	4.5	4.8	16.3	.0	.0	1.3	1.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.5	.0	.0	.0	.0	.0	13.5	.0	3.3	5.3	2.4	100.0	90.5	62.7	23.2
TOT OBS	404	1331	128	1	0	0	2064	5.1	374	218	41	1	21	102	304
TOT PCT	29.3	64.5	6.2	.0	.0	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	.0	.0	.0	.0	.0	.6	2.8	.1	2.4	.0	.0	
NE	.0	.5	.0	.0	.0	1.3	6.3	.0	7.1	1.0	1.6	
E	3.1	.6	.2	.0	.0	3.9	5.4	2.3	13.7	5.5	4.4	
SE	4.7	.0	.0	.0	.0	4.7	3.5	1.7	.6	6.1	6.8	
S	9.3	.2	.0	.0	.0	9.5	3.8	3.8	1.8	6.9	12.7	
SW	23.8	10.4	.0	.0	.0	34.2	5.7	38.9	10.1	7.5	34.7	
W	11.2	17.3	.1	.0	.0	28.5	7.5	42.1	43.3	4.3	21.0	
NW	2.3	1.3	.0	.0	.0	3.8	6.0	4.0	16.1	1.2	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	13.5	.0	.0	.0	.0	13.5	.0	3.3	4.8	67.5	14.7	
TOT OBS	1428	630	6	0	0	2064	5.1	792	42	123	1187	
TOT PCT	69.2	30.5	.3	.0	.0	100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1969-1977
(OVER-ALL) 1967-1977

JULY

VALDEZ, AK
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000Z	3.9	6.9	77.8	11.2	.1	.0	.0	6.8	100.0	792
0600Z	4.8	21.4	59.5	14.3	.0	.0	.0	6.4	100.0	42
1215Z	17.5	20.3	11.4	.8	.0	.0	.0	1.2	100.0	123
1821Z	14.7	21.3	61.1	2.9	.0	.0	.0	4.3	100.0	1107
TOT	279	395	1931	128	1	0	0	5.1		2064
PCT	13.5	15.7	64.5	6.2	.0	.0	.0	100.0		

TABLE 4

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN TOTAL CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/R) AND OCCURRENCE OF NH <3/S BY WIND DIRECTION										TOTAL OBS	
							000	150	300	600	1000	2000	3500	5000	6500	8000+		ANY HGT
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.5	.0	8.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.4
E	.0	.0	.0	.9	.0	8.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.4
SE	.0	.0	.0	1.1	.0	8.0	.1	.1	.4	.1	.0	.4	.0	.0	.1	.0	.0	.0
S	1.5	.0	2.5	9.7	.0	6.9	.9	2.0	.9	.6	2.1	.6	.6	.0	.6	.0	.6	5.4
SW	9.7	2.8	9.0	24.8	.0	5.7	2.2	2.1	5.2	1.4	4.4	3.0	.3	1.1	.7	1.0	.7	21.1
W	1.7	.6	1.8	9.9	.0	6.6	.6	.7	1.5	.4	3.2	1.0	1.3	.0	.4	.0	.4	9.1
NW	.1	.1	.2	2.4	.0	7.6	.0	.4	.4	.4	.2	.7	.3	.0	.0	.0	.0	.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.5	1.1	2.8	16.5	.0	6.5	1.8	3.5	2.1	.7	2.1	1.1	.7	1.4	1.4	1.1	.1	8.1
TOT OBS	47	13	38	187	285	6.3	14	25	30	11	34	19	12	7	9	9	9	115
TOT PCT	16.5	4.6	13.3	65.6	100.0		4.9	8.8	10.5	3.9	11.9	6.7	4.2	2.5	3.2	3.2	40.4	100.0

TABLE 6

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

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN TOTAL CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/R) AND OCCURRENCE OF NH <3/S BY WIND DIRECTION										TOTAL OBS		
							000	150	300	600	1000	2000	3500	5000	6500	8000+		ANY HGT	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NE	.0	.0	.0	.5	.0	8.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.4
E	.0	.0	.0	.9	.0	8.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.4
SE	.0	.0	.0	1.1	.0	8.0	.1	.1	.4	.1	.0	.4	.0	.0	.1	.0	.0	.0	
S	1.5	.0	2.5	9.7	.0	6.9	.9	2.0	.9	.6	2.1	.6	.6	.0	.6	.0	.6	5.4	
SW	9.7	2.8	9.0	24.8	.0	5.7	2.2	2.1	5.2	1.4	4.4	3.0	.3	1.1	.7	1.0	.7	21.1	
W	1.7	.6	1.8	9.9	.0	6.6	.6	.7	1.5	.4	3.2	1.0	1.3	.0	.4	.0	.4	9.1	
NW	.1	.1	.2	2.4	.0	7.6	.0	.4	.4	.4	.2	.7	.3	.0	.0	.0	.0	.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.5	1.1	2.8	16.5	.0	6.5	1.8	3.5	2.1	.7	2.1	1.1	.7	1.4	1.4	1.1	.1	8.1	
TOT OBS	47	13	38	187	285	6.3	14	25	30	11	34	19	12	7	9	9	9	115	
TOT PCT	16.5	4.6	13.3	65.6	100.0		4.9	8.8	10.5	3.9	11.9	6.7	4.2	2.5	3.2	3.2	40.4	100.0	

TABLE 7

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

CEILING (FEET)	VSBY (NH)				
	>10	>9	>8	>7	>6
>4500	6.0	6.3	6.3	6.3	6.3
>4000	8.4	8.8	8.8	8.8	8.8
>3500	12.6	13.0	13.0	13.0	13.0
>3000	19.3	19.6	19.6	19.6	19.6
>2500	28.1	31.6	31.6	31.6	31.6
>2000	39.5	35.1	35.1	35.4	35.4
>1500	41.6	42.2	42.2	42.0	42.0
>1000	42.6	48.1	48.1	48.0	48.0
>500	42.6	48.1	48.1	48.0	48.0
TOTAL	93	137	150	141	140

TOTAL NUMBER OF OBS: 285

PCT FREQ NH <3/S: 40.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
14.0	14.7	8.4	2.8	1.4	4.6	5.3	2.1	44.6	285

PERIOD: (PRIMARY) 1969-1977
(OVER-ALL) 1967-1977

JULY

VALDEZ, AK
41.1N 146.3W

TABLE 8

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

VSRY (MM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3
1/2<1	PCP	.0	.0	.0	.2	.2	.4	.2	.0	.0	.7	.0	1.7
	NO PCP	.0	.0	.0	.1	.0	.1	.1	.0	.0	.1	.0	.5
	TOT %	.0	.0	.0	.3	.2	.5	.3	.0	.0	.8	.0	2.2
1<2	PCP	.0	.0	.3	.1	.3	.7	.2	.0	.0	.4	.0	2.1
	NO PCP	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4
	TOT %	.0	.0	.3	.1	.3	.8	.3	.0	.0	.4	.0	2.5
2<5	PCP	.0	.1	.5	.7	.5	1.4	1.0	.3	.0	.7	.0	5.2
	NO PCP	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	.0	.9
	TOT %	.0	.1	.5	.8	.6	1.5	1.2	.3	.0	1.0	.0	6.1
5<10	PCP	.1	.0	.3	.3	.8	1.9	1.5	.3	.0	1.3	.0	6.5
	NO PCP	.1	.2	.5	1.2	1.9	3.5	4.2	.8	.0	1.2	.0	13.5
	TOT %	.2	.2	.9	1.5	2.7	5.4	5.7	1.1	.0	2.5	.0	20.1
10+	PCP	.0	.0	.1	.3	.8	1.3	.6	.2	.0	.6	.0	4.0
	NO PCP	.2	.9	1.9	1.8	4.8	24.5	20.5	2.2	.0	8.0	.0	64.8
	TOT %	.2	.9	2.0	2.1	5.6	25.8	21.1	2.4	.0	8.6	.0	68.8
TOT OBS													2064
TOT PCT		.6	1.3	3.9	4.7	9.5	34.2	28.5	3.8	.0	13.5	100.0	

TABLE 9

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

VSRY (MM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.2
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3
1/2<1	0-3	.0	.0	.0	.3	.1	.3	.1	.0	.0	.8	.0	1.7
	4-10	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.3	.2	.3	.3	.0	.0	.8	.0	2.2
1<2	0-3	.0	.0	.2	.1	.3	.2	.1	.0	.0	.4	.0	1.4
	4-10	.0	.0	.2	.0	.0	.6	.2	.0	.0	.0	.0	1.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.4	.1	.4	.8	.3	.0	.0	.4	.0	2.5
2<5	0-3	.0	.2	.2	.6	.4	.3	.3	.2	.0	1.0	.0	3.1
	4-10	.0	.0	.4	.2	.2	1.2	.8	.0	.0	.0	.0	2.8
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.6	.8	.6	1.3	1.2	.3	.0	1.0	.0	6.1
5<10	0-3	.2	.2	.4	.7	1.3	1.2	.4	.3	.0	2.5	.0	7.2
	4-10	.1	.0	.4	.8	1.4	4.1	4.5	.8	.0	.0	.0	12.1
	11-21	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.2	.9	1.5	2.7	5.4	5.7	1.1	.0	2.5	.0	20.1
10+	0-3	.2	.2	.4	1.0	2.0	1.7	1.1	.5	.0	8.6	.0	13.7
	4-10	.0	.5	1.2	1.1	3.8	23.4	18.2	1.6	.0	.0	.0	47.8
	11-21	.0	.2	.3	.0	.0	.6	3.7	.3	.0	.0	.0	5.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.9	2.0	2.1	5.8	25.8	21.1	2.4	.0	8.6	.0	68.8
TOT OBS													2064
TOT PCT		.6	1.3	3.9	4.7	9.5	34.2	28.5	3.8	.0	13.5	100.0	

JULY

PERIOD: (PRIMARY) 1969-1977
(OVER-ALL) 1967-1977

VALDEZ, AK
61.1N 146.3W

TABLE 10

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

HOURL (GMT)	0%O	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	.0	3.3	10.0	6.7	14.4	8.9	10.0	1.1	2.2	1.1	57.8	47.2	90
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	50.0	50.0	50.0	2
12015	10.1	15.9	10.1	2.9	5.8	5.8	4.3	4.3	5.8	4.3	69.6	30.4	69
18021	5.6	8.9	11.3	2.4	13.7	5.6	.0	2.4	2.4	3.2	55.6	44.4	124
TOT	14	25	30	11	34	19	12	7	9	9	170	115	285
PCT	4.9	8.8	10.5	3.9	11.9	6.7	4.2	2.5	3.2	3.2	59.0	40.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	1.0	1.5	4.4	16.9	76.1	792
06009	.0	.0	.0	4.8	31.0	64.3	42
12015	4.1	5.7	4.1	8.9	21.1	56.1	123
18021	.2	2.8	3.2	7.0	21.0	65.1	1107
TOT	7	46	52	125	414	1420	2064
PCT	.3	2.2	2.9	6.1	20.1	68.6	100.0

TABLE 12

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

HOURL (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ NM05+	NM <5/8 AND 5+	TOTAL DBS
00003	.0	13.3	20.0	37.8	42.2	90
06009	.0	.0	.0	50.0	50.0	2
12015	10.1	36.2	40.6	30.4	29.0	69
18021	5.6	25.8	28.2	27.4	44.4	124
TOT	14	69	81	90	114	285
PCT	4.9	24.2	28.4	31.8	40.0	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 DBS	PCT FREQ
75/79	.0	.2	.2	.0	.0	.0	.0	.0	2	.3
70/74	.0	.0	.8	1.3	.0	.0	.0	.0	13	2.1
65/69	.0	.0	.7	2.9	2.6	.0	.0	.0	98	6.2
60/64	.0	.0	.0	2.8	12.2	3.6	.0	.0	114	18.5
55/59	.0	.0	.0	.0	2.9	18.0	11.2	1.5	207	33.7
50/54	.0	.0	.0	.0	.2	7.4	15.6	13.8	197	32.0
45/49	.0	.0	.0	.0	.0	.8	6.3	.0	44	7.2
TOTAL	0	1	10	43	110	148	170	133	615	100.0
PCT	.0	.2	1.6	7.0	17.9	24.1	27.6	21.6		

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	.3	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	1.5	.6	.0	.0	.0
.0	.0	.0	.2	.0	3.1	2.7	.2	.0	.0	.0
.0	.2	.2	.0	1.6	6.8	9.0	.8	.0	.0	.0
.4	.7	.7	2.3	4.6	9.2	12.7	1.8	.0	1.1	.0
.0	.1	1.3	3.0	6.6	6.4	5.3	1.2	.0	8.1	.0
.0	.0	.3	.4	.9	.9	.1	.0	.0	4.6	.0
.4	.9	2.6	5.8	13.7	28.3	30.4	4.0	.0	13.8	.0

TABLE 15

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

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	81	78	70	59	52	48	46	59.9	792
06009	65	64	63	56	53	52	52	58.2	42
12015	56	55	53	50	47	46	46	50.4	123
18021	79	75	66	56	50	48	45	57.1	1107
TOT	81	77	68	57	50	47	45	57.7	2064

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	15.3	20.3	39.3	20.9	3.1	71	215
06009	.0	2.4	7.1	33.3	45.2	11.9	50	42
12015	.0	.0	.0	3.5	25.6	70.9	92	84
18021	.0	7.4	16.2	25.0	30.9	20.6	79	272
TOT	0	54	110	148	170	133	76	615

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

AUGUST

VALDEZ, AK
41.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
N	22.8	.0	.0	.0	.0	.0	.0	22.8	.0	.0	.0	.0	.0	.0	77.2
NE	21.4	.0	.3	.0	.0	.0	.0	21.7	.0	.0	2.0	.0	.0	.0	76.3
E	32.2	1.9	2.6	.0	.0	.0	.0	36.7	.0	.0	5.6	.0	.0	.0	57.7
SE	21.5	2.2	1.7	.0	.0	.0	.0	24.5	.0	.0	3.0	.0	.0	.0	72.5
S	20.2	2.2	6.2	.0	.0	.0	.0	28.6	.0	.0	4.5	.0	.0	.0	68.9
SW	14.9	.9	2.6	.0	.0	.0	.0	17.0	.0	.0	4.3	.0	.0	.0	78.1
W	14.9	2.9	1.5	.0	.0	.0	.0	19.3	.0	.3	2.5	.0	.0	.0	77.8
NW	18.8	5.2	.3	.0	.0	.0	.0	24.3	.0	.0	3.0	.0	.0	.0	72.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	26.4	1.4	3.3	.0	.0	.0	.0	32.0	.0	.4	7.0	.0	.0	.0	60.6
TOT PCT	19.4	1.8	3.0	.0	.0	.0	.0	23.5	.0	.1	4.2	.0	.0	.0	72.2
TOT OBS:	1816														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN	SMOKE MAZE	SPRAY BLWG DUST	NO SIG WEA
00003	21.4	2.9	1.6	.0	.0	.0	.0	25.9	.0	.1	1.7	.0	.0	.0	72.3
06009	4.2	8.3	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
12019	15.5	2.9	5.8	.0	.0	.0	.0	24.3	.0	.0	13.6	.0	.0	.0	62.1
18021	18.0	.7	3.7	.0	.0	.0	.0	21.9	.0	.1	5.2	.0	.0	.0	72.8
TOT PCT	19.4	1.8	3.0	.0	.0	.0	.0	23.4	.0	.1	4.3	.0	.0	.0	72.2
TOT OBS:	1816														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL ORS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.2	.7	.1	.0	.0	.0	1.1	5.7	1.2	1.0	.0	.0	7.7	2.2	.8	.9	
NE	1.2	1.5	1.4	.0	.0	.0	4.1	7.9	2.9	3.0	6.3	.0	9.6	1.7	6.5	3.6	
E	2.7	2.4	.6	.0	.0	.0	5.9	5.1	2.7	5.7	19.8	.0	5.8	14.2	10.3	3.6	
SE	4.1	3.8	.4	.0	.0	.0	8.3	4.0	4.3	5.2	9.4	.0	7.7	3.6	13.9	7.5	
S	3.6	6.1	.9	.0	.0	.0	11.9	4.0	9.5	10.1	8.1	.0	3.9	15.0	14.9		
SW	4.4	26.9	.1	.0	.0	.0	32.4	5.1	42.2	29.6	6.2	.0	7.7	5.8	15.6	44.1	
W	2.3	12.7	1.4	.0	.0	.0	15.7	6.3	25.6	29.0	24.0	.0	5.8	9.4	5.5	11.2	
NW	1.6	3.1	.3	.0	.0	.0	5.0	5.2	6.3	8.3	11.3	.0	1.9	5.8	3.2	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	15.6						15.6	.0	5.2	8.2	20.8	.0	33.8	33.3	27.1	11.2	
TOT OBS	705	1030	81	0	0	0	1816	4.4	516	183	24	0	13	90	447	543	
TOT PCT	38.8	56.7	4.5	.0	.0	.0	100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL ORS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				00	03	06	09	12
N	.8	.2	.0	.0	1.1	5.7	1.1	.0	2.9	.9		
NE	2.0	1.8	.2	.0	4.1	7.9	2.9	6.3	2.7	4.9		
E	4.7	1.1	.1	.0	5.9	5.1	3.5	18.8	13.1	6.5		
SE	7.4	.8	.0	.0	8.3	4.0	4.5	9.4	4.1	11.3		
S	11.0	.9	.0	.0	11.9	4.0	9.7	2.1	3.4	14.6		
SW	25.7	6.6	.0	.0	32.4	5.1	38.8	4.2	6.1	31.2		
W	9.5	6.3	.0	.0	15.7	6.3	26.5	26.0	9.0	8.6		
NW	3.6	1.4	.0	.0	5.0	5.2	6.9	11.5	5.3	3.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	15.6				15.6	.0	6.8	20.8	33.4	18.4		
TOT OBS	1460	350	6	0	1816	4.4	699	24	103	990		
TOT PCT	80.4	19.3	.3	.0	100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1968-1976
(OVER-ALL) 1967-1976

AUGUST

VALDEZ, AK
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000Z	6.0	16.0	71.4	6.6	.0	.0	.0	5.6	100.0	699
0600Z	70.8	22.2	45.8	.0	.0	.0	.0	2.8	100.0	24
1201Z	43.4	26.2	17.3	2.9	.0	.0	.0	1.8	100.0	103
1802Z	18.4	27.7	30.7	3.2	.0	.0	.0	3.8	100.0	99
TOT	284	491	1030	11	.0	0	0	4.4		1816
PCT	15.6	23.2	36.7	4.3	.0	.0	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCN	TOTAL CLOUD OBS	MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >= 8) AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										
							000	100	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT
N	.0	.0	.3	1.4		7.8	.0	.0	.0	.0	.0	.0	.4	1.1	.0	.4	
NE	.0	.0	.1	1.4		7.9	.0	.4	.0	.0	.2	.4	.0	.1	.5	.0	
E	.3	.8	.4	4.0		6.7	.4	.0	.8	.0	1.0	.0	.4	.7	.0	2.3	
SE	1.0	.0	.4	1.3		4.9	.0	.0	.0	.4	.0	.0	.0	.0	.4	1.9	
S	3.0	.0	2.5	13.6		6.6	.7	1.9	9.2	.8	1.8	2.3	.8	.9	.8	6.7	
SW	6.6	1.2	5.6	21.0		6.2	.9	2.5	7.3	7.4	2.9	4.1	.8	1.3	.8	18.0	
W	3.0	1.6	1.0	5.4		5.3	.0	.0	1.2	.0	2.0	.9	.4	.4	.0	3.9	
NW	1.6	.4	.0	2.8		5.1	.0	.0	.0	.0	1.4	.0	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.2	.8	9.5	14.3		7.1	3.1	1.6	2.7	.8	2.0	1.2	.0	3.1	1.2	4.9	
TOT OBS	4	12	35	166	255	6.4	12	16	26	11	25	26	6	16	12	4 101	
TOT PCT	16.5	4.7	19.7	65.1	100.0		4.7	6.3	10.2	4.3	9.8	10.2	2.4	6.3	4.7	1.6 39.0	

TABLE 7

CUMULATIVE PCT FRQ OF SIMULTANEOUS OCCURRENCE OF CEILING HEIGHT (NH >= 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 >0
= OR >4500	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >4000	11.0	11.8	12.5	12.5	12.5	12.5	12.5	12.5	12.5
= OR >3500	13.3	14.1	14.9	14.9	14.9	14.9	14.9	14.9	14.9
= OR >3000	22.7	24.3	25.1	25.1	25.1	25.1	25.1	25.1	25.1
= OR >2000	28.6	32.9	34.5	34.9	34.9	34.9	34.9	34.9	34.9
= OR >600	40.6	36.9	38.8	39.2	39.2	39.2	39.2	39.2	39.2
= OR >900	42.2	43.5	47.5	48.2	49.0	49.0	49.4	49.4	49.4
= OR >150	42.2	47.1	52.2	53.3	55.3	55.3	55.7	55.7	55.7
= OR >0	42.9	48.6	54.1	56.1	58.8	60.0	60.4	60.4	60.4
TOTAL	84	124	138	143	150	153	154	154	154

TOTAL NUMBER OF OBS: 255

PCT FREQ NH <5/8: 39.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.2	18.4	6.3	2.4	.4	4.7	9.8	3.3	47.4	2.0

PERIOD: (PRIMARY) 1965-1976
(OVER-ALL) 1967-1976

AUGUST

VALDEZ, AK
61.1N 146.3W

TABLE 8

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

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.4	
	NO PCP	.0	.0	.0	.1	.1	.3	.0	.0	.0	.3	.7	
	TOT %	.0	.1	.2	.1	.1	.4	.0	.0	.0	.4	1.2	
1/2<1	PCP	.0	.1	.4	.2	.4	.8	.2	.1	.0	.5	2.4	
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2	.4	
	TOT %	.0	.1	.5	.2	.4	.8	.2	.1	.0	.7	3.0	
1<2	PCP	.1	.1	.4	.5	.5	.7	.5	.2	.0	1.0	3.5	
	NO PCP	.0	.0	.0	.0	.2	.2	.1	.0	.0	.1	.3	
	TOT %	.1	.1	.4	.5	.7	.9	.5	.2	.0	1.1	4.0	
2<5	PCP	.1	.2	.5	.6	.8	1.3	.8	.3	.0	1.0	5.5	
	NO PCP	.0	.1	.2	.2	.3	.8	.2	.1	.0	.4	2.4	
	TOT %	.1	.3	.7	.8	1.1	2.1	1.0	.4	.0	1.4	7.9	
5<10	PCP	.1	.2	.5	.5	1.2	1.2	.9	.4	.0	1.4	6.4	
	NO PCP	.1	.3	.5	.8	1.2	2.8	1.0	.6	.0	1.7	9.0	
	TOT %	.2	.5	1.0	1.3	2.3	4.0	1.9	1.0	.0	3.1	15.4	
10+	PCP	.0	.2	.5	.7	.8	1.5	.9	.3	.0	1.0	5.0	
	NO PCP	.7	2.9	2.9	5.2	7.1	22.6	11.3	3.1	.0	8.0	63.6	
	TOT %	.8	3.0	3.2	5.4	7.6	24.1	12.2	3.3	.0	9.0	68.6	
TOT OBS												1816	
TOT PCT		1.1	4.1	5.9	8.3	11.9	32.4	15.7	5.0	.0	15.6	100.0	

TABLE 9

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

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.1	.1	.1	.0	.0	.0	.4	.7	
	4-10	.0	.1	.1	.0	.0	.3	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	.1	.1	.4	.0	.0	.0	.4	1.2	
1/2<1	0-3	.0	.1	.3	.1	.4	.6	.0	.0	.0	.7	2.1	
	4-10	.0	.0	.2	.1	.1	.2	.2	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.5	.2	.4	.8	.2	.1	.0	.7	3.0	
1<2	0-3	.1	.0	.2	.3	.5	.5	.2	.1	.0	1.1	3.1	
	4-10	.0	.1	.2	.2	.0	.3	.1	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.4	.5	.5	.9	.8	.2	.0	1.1	4.0	
2<5	0-3	.1	.2	.4	.6	.7	.6	.4	.2	.0	1.4	4.6	
	4-10	.0	.1	.2	.2	.4	1.3	.6	.2	.0	3.2		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.7	.8	1.1	2.1	1.0	.4	.0	1.4	7.9	
5<10	0-3	.0	.4	.5	.7	1.6	.6	.3	.5	.0	3.1	7.7	
	4-10	.2	.1	.3	.5	.8	3.4	1.4	.5	.0	7.3		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	1.0	1.3	2.3	4.0	1.9	1.0	.0	3.1	15.4	
10+	0-3	.1	.3	1.1	2.3	2.4	2.9	1.3	.9	.0	9.0	20.5	
	4-10	.6	1.1	1.5	2.7	4.9	21.1	9.8	2.2	.0	43.9		
	11-21	.1	1.4	.6	.4	.2	.1	1.1	.3	.0	4.1		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	3.0	3.2	5.4	7.6	24.1	12.2	3.3	.0	9.0	68.6	
TOT OBS												1816	
TOT PCT		1.1	4.1	5.9	8.3	11.9	32.4	15.7	5.0	.0	15.6	100.0	

AUGUST

PERIOD: (PRIMARY) 1969-1976
(OVER-ALL) 1967-1976

VALDEZ, AK
61.1N 146.3W

TABLE 10

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

HR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3999	4999	6499	7999				
00003	.0	2.4	9.4	4.7	10.6	18.8	1.2	2.4	4.7	.0	54.1	45.9	85
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12015	12.2	2.0	4.1	2.0	14.3	6.1	2.0	18.4	6.1	6.1	73.5	26.5	49
18021	5.0	10.7	13.2	5.0	7.4	5.8	3.3	4.1	4.1	.8	59.5	40.5	121
TOT	12	16	26	11	25	26	6	16	12	4	154	101	255
PCT	4.7	6.3	10.2	4.3	9.8	10.2	2.4	6.3	4.7	1.6	60.4	39.6	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HR (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.4	1.6	2.9	6.9	16.9	71.4	700
06009	.0	.0	.0	8.3	20.8	70.8	24
12015	5.0	4.9	10.7	6.8	13.6	58.3	103
18021	1.2	3.9	4.7	8.8	14.4	67.4	991
TOT	21	35	73	144	280	1245	1918
PCT	1.2	3.0	4.0	7.9	15.4	68.5	100.0

TABLE 12

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

HR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	11.8	17.6	36.5	45.9	85
06009	.0	.0	.0	.0	.0	0
12015	12.2	20.4	30.0	44.9	24.5	49
18021	5.0	28.9	33.9	25.6	40.5	121
TOT	12	55	71	86	100	255
PCT	4.7	21.6	27.8	32.9	39.2	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	.2	1.8	1.1	.8	.2	.0	.0	.0	23	5.0
65/69	.4	1.0	1.4	2.6	2.2	.2	.0	.0	39	7.8
60/64	.4	.8	.6	1.0	8.4	3.4	.4	.0	75	15.1
55/59	.8	.6	.0	.0	1.8	14.1	11.6	1.8	153	30.7
50/54	.4	.2	.2	1.0	.4	1.8	9.6	17.1	153	30.7
45/49	.0	.0	.0	.0	.8	.2	1.8	7.0	48	9.6
40/44	.0	.0	.0	.0	.0	.2	.0	.8	5	1.0
TOTAL	11	22	21	27	69	99	116	133	498	100.0
PCT	2.2	4.4	4.2	5.4	13.9	19.9	23.3	26.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.2	.0	.3	.9	3.0	.6	.1	.0	.0
65/69	.0	.2	.4	.7	1.8	2.8	1.3	.7	.0	.0
60/64	.2	.3	1.0	1.3	2.0	5.6	3.1	1.6	.0	.0
55/59	.7	.7	1.4	3.6	5.4	9.7	6.3	1.6	.0	1.4
50/54	.4	1.3	1.7	2.3	8.0	5.0	1.5	1.4	.0	9.0
45/49	.2	.3	1.0	.2	.6	.9	.7	.3	.0	5.6
40/44	.0	.0	.0	.0	.0	.0	.0	.2	.0	.8
TOTAL	1.3	2.9	5.4	8.6	16.6	27.0	13.4	5.8	.0	16.9

TABLE 15

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	77	73	68	58	57	49	48	59.0	700
06009	62	61	60	56	52	52	52	56.4	24
12015	57	56	55	48	41	38	38	48.4	103
18021	77	71	65	55	48	46	44	55.5	990
TOT	77	72	66	56	48	45	38	56.5	1817

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	2.9	19.3	22.8	25.7	18.7	10.5	6.9	6.9	17.1	700
06009	.0	.0	4.2	29.2	38.3	8.3	8.2	8.2	24	24
12015	.0	1.7	.0	6.8	18.6	72.9	91	91	59	103
18021	2.5	14.8	11.9	18.0	24.2	28.7	76	76	244	990
TOT	11	70	69	99	116	133	76	76	498	1817

PERIOD: (PRIMARY) 1971-1976
(OVER-ALL) 1967-1976

SEPTEMBER

VALDEZ, AK
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLMG DUST	NO SIG WEA
N	43.5	5.8	2.2	.0	.0	.0	.0	49.3	.0	.0	.0	.0	.0	.0	50.7
NE	42.2	2.6	2.0	.0	.0	.0	.0	46.2	.0	.0	.0	.0	.0	.0	59.8
E	35.3	1.9	.9	.0	.0	.0	.0	36.2	.0	.0	2.0	.0	.0	.0	61.8
SE	19.7	5.0	.8	.0	.0	.0	.0	24.7	.0	.0	1.9	.0	.0	.0	73.4
S	27.1	2.7	.7	.0	.0	.0	.0	29.8	.0	.0	2.0	.0	.0	.0	68.2
SW	22.4	3.7	.8	.0	.0	.0	.0	25.5	.0	.0	1.5	.0	.0	.0	72.0
W	32.9	5.7	.5	.0	.0	.0	.0	39.2	.0	.0	.0	.0	.0	.0	60.8
NW	28.9	8.9	1.2	.0	.0	.0	.0	39.0	.0	.0	2.4	.0	.0	.0	58.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	33.5	2.7	1.5	.0	.0	.0	.0	36.2	.0	.0	3.1	.0	.0	.0	60.8
TOT PCT	29.6	4.0	1.0	.0	.0	.0	.0	33.9	.0	.0	1.7	.0	.0	.0	64.4
TOT OBS:	1299														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	HAIL	PCPN AT 06 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLMG DUST	NO SIG WEA
0000Z	32.8	4.6	.4	.0	.0	.0	.0	37.6	.0	.0	.4	.0	.0	.0	62.0
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1200Z	31.0	2.0	3.0	.0	.0	.0	.0	34.0	.0	.0	3.0	.0	.0	.0	61.0
1800Z	27.3	3.9	1.1	.0	.0	.0	.0	31.4	.0	.0	2.0	.0	.0	.0	66.6
TOT PCT	29.6	4.0	1.0	.0	.0	.0	.0	33.9	.0	.0	1.7	.0	.0	.0	64.4
TOT OBS:	1260														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						8+*	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	1.3	1.4	.1	.0	.0	.0	.0	2.7	4.6	2.2	3.1	.0	.0	12.5	1.8	3.6	2.1
NE	2.3	2.7	.8	.0	.0	.0	.0	6.0	5.7	5.0	2.9	.0	.0	7.8	8.6	6.8	6.8
E	2.5	3.1	1.4	.0	.0	.0	.0	7.0	6.3	6.1	5.1	.0	.0	9.6	4.8	10.1	5.9
SE	4.9	4.8	.6	.0	.0	.0	.0	10.3	4.4	7.5	6.1	.0	.0	14.1	8.6	13.7	11.3
S	5.9	3.0	.0	.1	.0	.0	.0	10.9	3.9	11.5	8.0	.0	.0	.0	5.1	9.4	30.3
SW	5.9	14.6	.8	.8	.0	.0	.0	20.3	4.7	27.2	17.4	.0	.0	.0	11.0	4.5	12.7
W	3.2	11.5	.6	.0	.0	.0	.0	19.2	8.3	25.4	28.9	.0	.0	.0	6.3	4.2	8.3
NW	3.0	3.2	.4	.0	.0	.0	.0	6.7	5.0	7.2	8.8	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	20.7	382	30	1	0	0	1259	20.7	3.9	7.7	19.7	.0	.0	43.8	47.6	31.7	15.3
TOT OBS	626	382	30	1	0	0	1259	100.0	3.9	338	122	0	0	16	84	338	361
TOT PCT	49.7	46.2	4.0	.1	.0	.0				100.0	100.0	.0	.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-6	7-16	17-27	28-40					00	03	06	09	12	18	21		
N	2.2	.5	.0	.0	.0	.0	2.7	4.6	2.4	.0	3.5	2.8					
NE	4.4	1.6	.8	.0	.0	.0	6.0	5.7	4.3	.0	8.5	6.7					
E	4.7	1.8	.5	.0	.0	.0	7.0	6.3	5.9	.0	9.5	7.9					
SE	9.8	1.5	.0	.0	.0	.0	10.3	4.4	7.2	.0	12.4						
S	10.3	.6	.0	.1	.0	.0	10.9	3.9	10.3	.0	8.0	11.4					
SW	17.9	2.8	.0	.8	.0	.0	20.3	4.7	24.6	.0	4.3	20.2					
W	10.9	4.3	.0	.0	.0	.0	15.2	8.3	26.4	.0	9.3	8.7					
NW	3.1	1.6	.0	.0	.0	.0	6.7	5.0	7.7	.0	6.3	8.3					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CALM	20.7						20.7	3.9	10.9	.0	47.0	23.3					
TOT OBS	1069	182	7	1	0	1259	100.0	3.9	460	0	100.0	100.0					
TOT PCT	84.9	14.5	.6	.1	.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)							MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+				
0000	10.9	26.1	59.1	3.7	.2	.0	.0	.0	4.7	100.0	400
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
1200	47.0	31.0	20.0	2.0	.0	.0	.0	.0	2.1	100.0	100
1800	23.3	30.8	41.5	4.4	.0	.0	.0	.0	3.7	100.0	699
TOT	26.0	36.0	58.2	5.0	.1	.0	.0	.0	3.9		1259
PCT	20.7	29.1	46.2	4.0	.1	.0	.0	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NE	.5	.0	.4	7.0	7.5	7.5
E	.3	.4	.0	4.5	7.2	7.2
SE	.4	.0	.7	3.5	7.0	7.0
S	.7	.0	2.0	12.5	7.4	7.4
SW	2.2	1.1	1.7	17.5	6.9	6.9
W	.4	.0	.7	9.8	7.7	7.7
NW	.0	.4	.0	5.4	7.7	7.7
VAR	.0	.0	.0	.0	.0	.0
CALM	1.8	.7	2.2	19.5	7.1	7.1
TOT OBS	17	7	29	225	271	7.3
TOT PCT	6.3	2.6	8.1	83.0	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NM >4/8)										NM <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.0	.3	.4	.0	.7	.0	.4	.4	.4	.0	.0	1.4
NE	.0	.1	.0	.7	1.1	.6	.7	.8	.7	.0	.0	3.2
E	.4	.6	.0	.0	.0	1.8	.0	.3	.0	.0	.0	1.7
SE	.0	.9	.5	.0	.4	.2	.4	.4	.4	.0	.0	1.2
S	.0	2.9	1.4	.4	3.0	1.0	1.1	.7	.4	.0	.0	4.2
SW	.5	.4	2.6	.5	3.0	2.4	1.1	1.1	1.6	.5	.0	8.9
W	.3	.4	1.8	.3	1.5	1.7	.0	.0	1.3	.4	.0	3.4
NW	.0	.0	.5	.0	1.5	1.6	.0	.7	.1	.0	.0	1.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5	.4	3.0	.4	3.3	1.5	.4	1.1	1.5	1.8	.0	8.5
TOT OBS	7	16	27	8	39	29	11	15	17	12	.0	271
TOT PCT	2.6	5.9	10.0	2.2	14.4	10.7	4.1	5.5	6.3	4.4	33.9	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)								
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0	
>4500	10.3	10.7	10.7	10.7	10.7	10.7	10.7	10.7	
>3000	14.4	18.2	18.2	18.2	18.2	18.2	18.2	18.2	
>3500	17.3	19.2	19.2	19.2	20.3	20.3	20.3	20.3	
>2000	25.1	29.2	29.5	30.6	31.0	31.0	31.0	31.0	
>1000	31.4	42.1	43.2	45.0	45.4	45.4	45.4	45.4	
>600	31.7	43.2	45.4	47.2	47.6	47.6	47.6	47.6	
>400	32.1	50.9	55.0	57.2	57.6	57.6	57.6	57.6	
>150	32.8	54.2	60.5	62.7	63.5	63.5	63.5	63.5	
>0	32.8	55.0	62.0	64.9	65.7	65.7	66.1	66.1	
TOTAL	49	149	168	176	178	178	179	179	

TOTAL NUMBER OF OBS: 271

PCT FREQ NM <5/8: 33.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.7	19.9	11.8	3.3	2.2	3.7	8.9	4.8	48.3	271

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TABLE 8

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

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.4	.6
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.0	.4	.7
1/2<1	PCP	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.3
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.2
	TOT %	.0	.0	.0	.0	.2	.1	.2	.0	.0	.2	.7
1<2	PCP	.0	.0	.0	.2	.1	.3	.0	.2	.0	.5	1.4
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.3	.2	.4	.0	.2	.0	.5	1.6
2<5	PCP	.3	.7	.8	.6	.6	1.1	.8	.6	.0	2.6	8.2
	NO PCP	.0	.0	.1	.1	.0	.2	.0	.1	.0	.2	.6
	TOT %	.3	.7	1.0	.7	.6	1.3	.8	.7	.0	2.8	8.8
5<10	PCP	.8	1.5	1.1	.8	1.4	1.7	2.7	1.1	.0	2.6	13.7
	NO PCP	.0	.3	.4	.2	.4	.4	.3	.2	.0	1.4	3.5
	TOT %	.8	1.8	1.4	1.0	1.8	2.1	3.1	1.3	.0	4.0	17.2
10+	PCP	.3	.6	.6	.9	1.1	2.2	2.2	.6	.0	1.6	10.0
	NO PCP	1.4	3.0	3.9	7.4	7.0	14.4	8.9	3.7	.0	11.2	60.9
	TOT %	1.7	3.5	4.5	8.2	8.1	16.6	11.1	4.3	.0	12.8	70.9
TOT OBS												1259
TOT PCT	2.7	6.0	7.0	10.3	10.9	20.5	15.2	6.7	.0	20.7	100.0	

TABLE 9

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

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.1	.1	.0	.4	.6	
	4-10	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.4	.7
1/2<1	0-3	.0	.0	.0	.0	.2	.0	.2	.0	.0	.2	.6	
	4-10	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.1	.2	.0	.0	.0	.2	.7
1<2	0-3	.0	.0	.0	.2	.1	.3	.0	.2	.0	.5	1.3	
	4-10	.0	.0	.0	.1	.1	.1	.0	.1	.0	.3	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.2	.4	.0	.2	.0	.5	1.6	
2<5	0-3	.2	.4	.4	.3	.4	.6	.3	.5	.0	2.8	5.9	
	4-10	.1	.3	.6	.4	.1	.7	.6	.2	.0	.0	2.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.7	1.0	.7	.6	1.3	.9	.7	.0	2.8	8.8	
5<10	0-3	.2	.7	.9	.7	1.2	1.0	1.1	.7	.0	4.0	10.6	
	4-10	.5	1.1	.6	.3	.6	1.1	1.8	.6	.0	.0	6.4	
	11-21	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.8	1.8	1.4	1.0	1.8	2.1	3.1	1.3	.0	4.0	17.2	
10+	0-3	.8	1.2	1.3	3.7	4.0	3.9	1.5	1.5	.0	12.8	30.7	
	4-10	.8	1.4	1.9	4.0	4.1	12.6	5.1	2.4	.0	.0	30.3	
	11-21	.1	.9	1.4	.6	.0	.0	.4	.4	.0	.0	3.8	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	1.7	3.5	4.5	8.2	8.1	16.6	11.1	4.3	.0	12.8	70.9	
TOT OBS												1259	
TOT PCT	2.7	6.0	7.0	10.3	10.9	20.5	15.2	6.7	.0	20.7	100.0		

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	0/0	1/0	3/0	6/0	10/0	20/0	30/0	50/0	80/0	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3999	4999	6499	7999			
00003	4.5	.0	12.4	1.1	12.4	14.6	3.4	4.5	6.5	2.2	89.6	89
00009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12015	1.6	8.1	4.8	3.2	14.3	9.7	3.2	12.9	9.7	6.3	74.2	62
18021	1.7	9.2	10.8	2.5	15.8	8.3	5.0	2.3	5.8	5.0	66.7	120
TOT	7	16	27	6	39	39	11	15	17	12	179	271
PCT	2.6	5.9	10.0	2.2	14.4	10.7	4.1	5.3	6.3	4.4	66.1	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1/2	2<5	5<10	10+	TOTAL OBS
00003	.2	.2	1.3	7.8	17.8	72.6	460
00009	.0	.0	.0	.0	.0	.0	0
12015	4.0	2.0	1.0	11.0	29.0	53.0	100
18021	.6	.9	1.9	9.2	15.2	72.4	699
TOT	9	9	20	111	217	893	1259
PCT	.7	.7	1.6	8.8	17.2	70.9	100.0

TABLE 12

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

HOUR (GMT)	<150 <3000	<1000 <1	<1000 <5	1000+ AND 5+	NH <3/8 AND 5+	TOTAL OBS
00003	4.5	16.9	30.3	40.4	29.2	89
00009	.0	.0	.0	.0	.0	0
12015	1.6	19.4	32.3	50.0	17.7	62
18021	1.7	21.7	33.3	39.2	27.5	120
TOT	7	53	87	114	70	271
PCT	2.6	19.6	32.1	42.1	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
70/74	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
65/69	.0	.4	.4	.2	.0	.0	.0	.0	3	1.1
60/64	.0	.0	1.1	1.1	1.9	1.1	.0	.0	22	4.8
55/59	.2	.2	1.5	1.5	2.0	2.6	1.1	.0	42	9.1
50/54	2.2	.7	.4	.7	2.2	3.5	6.7	2.8	88	19.1
45/49	.4	.2	.0	.0	.2	2.6	7.4	36.1	216	47.0
40/44	.0	.0	.0	.0	.4	.7	2.4	11.5	69	15.0
35/39	.0	.0	.0	.0	.4	.2	2.6	15	3.3	7.3
30/34	.0	.0	.0	.0	.0	.0	.4	2	.4	1.0
TOTAL	13	8	16	29	50	82	246	460	100.0	
PCT	2.8	1.7	3.5	3.9	6.3	10.9	17.8	53.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
65/69	.0	.0	.0	.3	.2	.2	.2	.2	.0	.0
60/64	.0	.0	.0	.7	1.3	.8	1.4	.4	.0	.0
55/59	.0	.3	.5	1.0	1.5	3.5	1.4	.7	.0	.2
50/54	.2	1.1	.8	1.4	2.1	5.6	3.7	2.9	.0	1.3
45/49	1.9	3.3	2.5	3.3	7.7	8.3	6.2	2.8	.0	10.9
40/44	.8	1.7	.8	.4	2.2	1.1	.8	1.0	.0	6.3
35/39	.2	.1	.0	.0	.4	.0	.2	.0	.0	2.4
30/34	.0	.0	.0	.0	.0	.0	.0	.2	.0	.7
TOTAL	3.0	6.6	4.6	7.1	15.3	19.4	14.1	8.5	.0	21.3

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	70	64	61	52	44	42	39	52.2	460
00009									0
12015	52	50	48	43	35	31	31	42.5	100
18021	70	61	56	46	40	37	32	48.2	700
TOT	70	63	59	49	40	35	31	49.2	1260

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.9	12.3	9.0	13.5	23.2	40.0	79		79	135
00009										0
12015	.0	3.0	1.5	4.5	7.6	83.3	92		66	66
18021	4.2	7.9	5.9	10.9	17.2	54.0	83		239	239
TOT	13	40	29	50	82	246	83		460	460

PERIOD: (PRIMARY) 1968-1976
(OVER-ALL) 1967-1976

OCTOBER

VALDEZ, AK
61.1M 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
N	23.5	.0	1.1	.0	6.7	1.1	.0	31.2	.0	.0	.0	.0	.0	.0	.0	68.8
NE	13.7	.3	.0	.0	12.2	1.0	.0	25.0	.0	.0	.6	.0	.0	.0	.0	74.4
E	12.0	.5	2.5	.0	3.4	.0	.0	16.6	.0	.0	1.0	.0	.0	.0	.0	82.4
SE	9.1	.0	.0	.0	1.7	.0	.0	10.8	.0	.0	.8	.0	.0	.0	.0	88.9
S	24.9	.0	.0	.0	3.1	.0	.0	28.0	.0	.0	.0	.0	.0	.0	.0	72.0
SW	33.2	1.6	.0	.0	1.9	.0	.0	36.6	.0	.0	.7	.0	.0	.0	.0	62.7
W	37.3	1.2	.0	.0	6.1	.0	.0	43.2	.0	.0	.0	.0	.0	.0	.0	56.8
NW	23.8	2.2	.0	.0	9.3	.0	.0	35.2	.0	.0	1.1	.0	.0	.0	.0	63.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	30.1	.6	4.2	.0	18.0	.0	.0	48.9	.0	.0	1.0	.0	.0	.0	.0	50.1
TOT PCT	23.2	.7	1.8	.0	9.2	.1	.0	33.1	.0	.0	.7	.0	.0	.0	.0	66.2
TOT OBS:	1655															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT NB TIME	PCPN PAST HOUR	THDR LTNG	FOG MO PCPN	FOG MO PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
00003	23.5	.8	1.6	.0	6.6	.0	.0	30.5	.0	.0	.2	.0	.0	.0	.0	69.3
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12015	27.0	.0	.9	.0	11.3	.0	.0	39.1	.0	.0	1.7	.0	.0	.0	.0	59.1
18021	22.5	.7	2.0	.0	10.7	.1	.0	34.0	.0	.0	1.0	.0	.0	.0	.0	63.0
TOT PCT	23.2	.7	1.8	.0	9.2	.1	.0	33.1	.0	.0	.7	.0	.0	.0	.0	66.2
TOT OBS:	1655															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	1.7	3.2	.8	.0	.0	.0		5.7	6.1	4.3	3.2	.0	.0	.0	6.9	8.3	6.7	
NE	2.0	6.7	1.9	.0	.0	.0		10.6	6.9	10.2	8.0	.0	.0	21.1	13.0	13.5	8.3	
E	4.0	10.3	2.6	.0	.0	.0		16.9	6.8	15.3	24.8	.0	.0	3.3	15.4	17.3	16.1	
SE	2.3	9.6	2.1	.0	.0	.0		10.0	7.2	10.9	10.9	.0	.0	.0	3.4	6.9	13.3	
S	1.8	1.5	.2	.0	.0	.0		3.4	4.3	5.1	1.7	.0	.0	.0	1.0	1.7	4.5	
SW	2.6	6.1	.0	.0	.0	.0		8.7	4.5	16.0	3.1	.0	.0	3.3	4.2	3.4	8.8	
W	3.8	4.9	.3	.0	.0	.0		9.0	4.3	10.9	13.5	.0	.0	3.3	7.8	6.2	7.8	
NW	2.2	3.0	.4	.0	.0	.0		5.3	4.9	5.3	4.9	.0	.0	5.3	6.1	5.6	6.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	30.3							30.3	.0	22.0	24.5	.0	.0	57.9	40.6	37.4	30.4	
TOT OBS	836	683	134	0	0	0	1655		4.1	459	163	0	0	19	96	444	474	
TOT PCT	30.5	41.3	9.2	.0	.0	.0	100.0			100.0	100.0	.0	.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	03	09	12	18
N	3.9	1.6	.3	.0	.0		3.7	6.1	4.3	.0	5.4	6.5	
NE	6.3	4.2	.2	.0	.0		10.6	6.9	9.6	.0	14.3	10.8	
E	8.9	7.8	.2	.0	.0		16.9	6.8	17.8	.0	13.7	16.8	
SE	5.0	4.8	.2	.0	.0		10.0	7.2	10.9	.0	2.8	10.2	
S	3.0	.3	.0	.0	.0		3.4	4.3	6.2	.0	.9	3.2	
SW	7.6	1.0	.0	.0	.0		8.7	4.5	13.1	.0	4.3	6.2	
W	7.9	1.0	.0	.0	.0		9.0	4.3	12.1	.0	7.4	7.0	
NW	4.7	.8	.1	.0	.0		5.3	4.9	5.1	.0	7.6	5.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	30.3						30.3	.0	22.7	.0	43.3	33.8	
TOT OBS	1284	394	17	0	0	1695		4.1	622	0	115	918	
TOT PCT	77.6	21.4	1.0	.0	.0	100.0			100.0	.0	100.0	100.0	

PERIOD: (PRIMARY) 1968-1976
(OVER-ALL) 1967-1976

OCTOBER

VALDEZ, AK
61.1N 146.3W

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
0000	22.7	23.5	44.4	9.5	.0	.0	.0	4.6	100.0	622
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
1200	43.5	22.0	30.4	3.5	.0	.0	.0	3.1	100.0	115
1800	13.8	17.8	40.5	8.0	.0	.0	.0	4.0	100.0	918
TOT	501	305	683	136	0	0	0	4.1		1635
PCT	30.3	20.2	41.3	8.2	.0	.0	.0		100.0	

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & 8	TOTAL	MEAN
	OBSCD	OBSCD	OBSCD	OBSCD	OBSCD	CLDUP COVER
N	1.1	.4	1.8	2.9		5.6
NE	2.3	.0	1.4	12.4		6.7
E	2.5	.0	2.3	7.4		6.0
SE	.8	.0	.8	2.4		6.2
S	.4	.0	.3	2.4		6.9
SW	2.0	.8	2.3	8.4		6.4
W	.4	.4	1.0	6.4		7.1
NW	1.3	.0	1.7	2.9		3.6
VAR	.0	.0	.0	.0		.0
CALM	2.0	.4	2.4	26.3		7.3
TOT OBS	32	5	35	185	255	6.7
TOT PCT	12.5	2.0	13.7	71.8	100.0	

TABLE 6

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

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8	TOTAL
	149	299	599	999	1999	3999	6499	7999			ANY HGT	OBSCD
N	.4	.0	.0	.4	1.1	.0	.3	.0	.8	.0	.0	3.2
NE	2.6	.1	.8	.8	1.7	.6	1.0	3.4	1.2	.0	.0	6.5
E	.0	.7	.7	.0	.7	1.0	.7	1.7	.8	.8	.8	5.4
SE	.8	.8	.5	.1	.1	.4	.0	.0	.0	.0	.0	2.4
S	.0	.4	.7	.3	.0	.3	.0	.0	.4	.0	.0	1.2
SW	.0	.4	2.3	1.6	.9	.5	.2	.1	.4	.4	.4	6.9
W	.8	.4	1.8	.0	.7	.7	.6	.7	.0	.0	.0	2.5
NW	.4	.0	.0	.0	.4	.1	.0	.0	.4	.0	.0	4.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9	2.4	4.3	.0	1.6	2.4	1.2	2.7	.4	2.4	9.8	
TOT OBS	19	13	28	8	18	13	10	22	11	9	102	255
TOT PCT	7.5	5.1	11.0	3.1	7.1	5.9	3.9	8.6	4.3	3.5	40.0	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>300D	>0
>4500	7.1	7.8	7.8	7.8	7.8	7.8	7.8	7.8
>4000	13.3	16.1	16.1	16.1	16.1	16.5	16.5	16.5
>3500	15.7	20.0	20.0	20.0	20.0	20.4	20.4	20.4
>3000	18.0	24.3	25.9	25.9	25.9	26.3	26.3	26.3
>2500	18.8	28.6	32.5	32.9	32.9	33.3	33.3	33.3
>2000	20.0	31.6	35.7	36.1	36.1	36.5	36.5	36.5
>1500	21.2	39.6	46.7	47.1	47.1	47.5	47.5	47.5
>1000	22.0	42.4	51.8	52.2	52.2	52.5	52.5	52.5
>500	22.0	42.7	52.5	53.3	53.3	59.2	60.0	60.0
>0	22.0	42.7	52.5	53.3	53.3	59.2	60.0	60.0
TOTAL	56	109	134	141	151	153	153	153

TOTAL NUMBER OF OBS: 255

PCT FREQ NM <5/8: 40.0

TABLE 7A

PERCENTAGE FRQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
	14.1	14.2	8.6	3.9	1.2	2.0	7.5	1.2	42.4	7.1	255

PERIOD: (PRIMARY) 1969-1976
(OVER-ALL) 1967-1976

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VALDEZ, AK
61.1M 146.8W

TABLE 8

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

VISBY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.3	.0	.0	.0	.0	.0	.0	1.8	2.1	
	NO PCP	.0	.0	.1	.0	.0	.0	.1	.0	.2	.4	
	TOT %	.1	.3	.1	.0	.0	.0	.1	.0	2.0	2.5	
1/2<1	PCP	.1	.3	.0	.0	.1	.2	.1	.0	2.0	2.8	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.1	.3	.0	.0	.1	.2	.1	.0	2.0	2.8	
1<2	PCP	.1	.3	.2	.0	.1	.1	.2	.3	1.1	2.2	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.4	.2	.0	.1	.1	.2	.3	1.1	2.3	
2<5	PCP	.4	.5	.9	.4	.5	.8	1.6	.5	4.2	9.8	
	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.4	.5	1.0	.5	.5	.8	1.6	.5	4.2	10.0	
5<10	PCP	.6	.4	1.1	.4	.4	1.3	1.5	1.0	6.6	11.7	
	NO PCP	.3	.8	1.1	.9	.8	.8	.4	.0	2.4	8.0	
	TOT %	.9	1.6	2.2	1.3	1.2	2.1	2.1	1.4	6.9	19.6	
10+	PCP	.7	.5	.7	.2	.2	.9	.1	.0	1.2	4.3	
	NO PCP	1.6	1.1	1.9	1.7	1.7	4.7	4.3	3.1	12.9	36.3	
	TOT %	2.3	1.6	2.6	1.9	1.9	5.6	4.9	3.2	14.1	40.6	
TOT OBS											1655	
TOT PCT	5.7	10.6	16.9	10.0	3.4	8.7	9.0	5.3	.0	30.3	100.0	

TABLE 9

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

VSRV (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	2.0	2.1	
	4-10	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.1	.0	.0	.0	.0	.1	.0	2.0	2.5	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.2	.1	.0	2.0	2.4	
	4-10	.1	.2	.0	.0	.0	.1	.1	.1	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.0	.0	.0	.2	.2	.1	.0	2.0	2.8	
1<2	0-3	.1	.0	.1	.0	.1	.0	.0	.1	.0	1.1	1.5	
	4-10	.0	.4	.1	.0	.0	.1	.1	.1	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.4	.2	.0	.1	.1	.2	.3	.0	1.1	2.3	
2<5	0-3	.4	.2	.4	.3	.2	.3	.7	.2	.0	4.2	7.1	
	4-10	.2	.3	.6	.2	.1	.3	.9	.3	.0	2.9		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.5	1.0	.5	.3	.6	1.6	.5	.0	4.2	10.0	
5<10	0-3	.5	.7	.8	.4	.7	.7	.8	.6	.0	6.9	12.1	
	4-10	.3	.8	1.3	.8	.4	1.4	1.3	.8	.0	7.2		
	11-21	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.9	1.6	2.2	1.3	1.2	2.1	2.1	1.4	.0	6.9	19.6	
10+	0-3	.7	1.0	2.0	1.6	.8	1.3	2.1	1.2	.0	14.1	25.3	
	4-10	2.6	4.8	8.4	4.5	1.0	4.3	2.8	1.6	.0	29.5		
	11-21	.0	1.8	2.8	2.0	.2	.0	.2	.4	.0	7.9		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	3.9	7.6	13.5	8.2	1.9	5.6	4.9	3.2	.0	14.1	62.8	
TOT OBS											1655		
TOT PCT	5.7	10.6	16.9	10.0	3.4	8.7	9.0	5.3	.0	30.3	100.0		

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PERIOD (PRIMARY) 1968-1976
(OVER-ALL) 1967-1976

VALDEZ, AK
61.1N 146.2W

TABLE 10

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

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
0000Z	6.9	3.4	12.6	5.7	5.7	5.7	2.3	9.2	4.0	.0	56.3	43.7	87
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
1201Z	8.9	3.6	12.5	1.8	7.1	8.9	5.4	12.5	.0	8.9	69.6	30.4	56
1802Z	7.1	7.1	8.9	1.8	8.0	4.5	6.5	6.3	6.3	3.6	58.0	42.0	112
TOT	19	13	28	8	18	15	10	22	11	9	153	107	255
PCT	7.5	5.1	11.0	3.1	7.1	5.9	3.9	8.6	4.3	3.5	60.0	40.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	1.8	2.4	.6	8.8	18.6	67.7	622
0600Z	.0	.0	.0	.0	.0	.0	0
1201Z	.9	4.3	3.5	15.7	37.4	38.3	115
1802Z	3.2	2.9	3.3	10.0	18.1	62.5	918
TOT	41	47	38	165	325	1039	1655
PCT	2.5	2.8	2.3	10.0	19.6	62.8	100.0

TABLE 12

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

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
0000Z	6.9	23.0	33.3	24.1	42.5	87
0600Z	.0	.0	.0	.0	.0	0
1201Z	8.9	25.0	33.9	35.7	30.4	56
1802Z	7.1	24.1	31.3	28.6	40.2	112
TOT	19	61	83	73	99	255
PCT	7.5	23.9	32.5	28.6	38.8	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	.1	.1	.0	.0	.0	.0	.0	2	.3
50/54	.1	.0	.3	.4	1.0	.3	.0	.0	17	2.2
45/49	.4	.7	.5	1.4	1.6	2.0	.8	.3	59	7.7
40/44	.5	1.2	2.5	2.1	4.3	4.3	4.7	10.6	231	30.2
35/39	1.3	2.1	1.5	2.7	1.9	4.2	3.7	20.6	285	37.2
30/34	.0	.7	1.7	.5	.3	1.3	3.4	7.7	119	15.5
25/29	.0	.0	.3	.7	.3	.4	.9	.9	26	3.4
20/24	.0	.0	.3	.4	.1	.1	.7	.3	13	1.7
15/19	.1	.1	.1	.4	.1	.3	.1	.0	10	1.3
10/14	.0	.0	.4	.0	.1	.0	.0	.0	4	.5
TOTAL	19	37	57	67	70	98	109	309	768	100.0
PCT	2.5	4.8	7.4	8.7	9.1	12.8	14.2	40.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
55/59	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
50/54	.0	.3	.5	.2	.0	.4	.4	.3	.0	.3
45/49	.3	1.0	1.1	.9	.2	2.4	.8	.4	.0	.4
40/44	1.2	2.7	3.1	4.4	1.8	4.5	2.8	1.9	.0	5.9
35/39	1.3	4.2	6.8	3.3	.9	2.2	4.5	3.3	.0	10.4
30/34	.8	1.9	1.9	1.1	.3	.2	.8	1.0	.0	7.7
25/29	.2	1.3	.7	.1	.1	.1	.2	.3	.0	.4
20/24	.6	.3	.2	.2	.0	.0	.2	.1	.0	.1
15/19	.4	.3	.0	.0	.0	.0	.1	.3	.0	.3
10/14	.0	.0	.0	.2	.1	.0	.2	.0	.0	.0
TOTAL	5.1	12.0	16.2	10.5	3.4	9.8	10.0	7.5	.0	25.5

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	62	60	51	40	32	27	14	40.4	622
0600Z									0
1201Z	50	49	42	36	20	13	13	34.5	115
1802Z	60	57	47	37	27	19	13	37.5	918
TOT	62	58	49	39	28	19	13	38.6	1655

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	2.9	27.1	13.2	13.8	12.8	28.2	71		71	273
0600Z										0
1201Z	1.8	10.7	4.5	8.0	20.5	34.3	94		94	112
1802Z	2.4	19.7	7.6	12.1	13.4	44.9	78		78	381
TOT	19	161	70	98	109	309	76		76	768

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

NOVEMBER

VALDEZ, AK
61.1M 146.3M

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
N	6.3	1.8	.0	.0	18.7	.0	.0	29.8	.0	.0	.0	.0	.0	.0	6.4	65.8
NE	4.5	.6	.0	.0	11.3	.0	.0	15.5	.0	.0	1.2	.0	.0	.4	82.9	
E	3.1	.8	.0	.0	12.3	.4	.0	16.5	.0	.0	1.3	.0	.0	.0	82.2	
SE	4.9	.7	.0	.0	9.1	.0	.0	14.0	.0	.0	.6	.0	1.2	.0	86.2	
S	18.5	.0	.0	.0	14.6	.0	.0	33.1	.0	.0	.0	.0	.0	.0	66.9	
SW	17.2	3.3	.0	.0	21.7	1.6	.0	37.3	.0	.0	1.6	.0	.0	.0	61.1	
W	10.0	.0	.0	.0	25.7	1.2	.0	31.9	.0	.0	.0	.0	1.2	.0	67.6	
NW	11.5	1.3	.0	.0	12.2	1.0	.0	26.2	.0	.0	.0	.0	.0	.3	79.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	14.0	.0	1.3	.0	34.0	.6	.0	44.6	.0	.0	2.3	.0	.0	.0	52.9	
TOT PCT	8.0	.7	.5	.0	18.8	.4	.0	26.0	.0	.0	1.3	.0	.2	.6	71.9	
TOT OBS:	1818															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW
0003	7.9	.6	.5	.0	19.0	.5	.0	25.9	.0	.0	1.9	.0	.3	.6	71.3
0609	.0	.0	.0	.0	6.3	.0	.0	6.3	.0	.0	3.1	.0	.0	.0	90.6
1213	2.5	.0	.0	.0	11.3	.0	.0	13.8	.0	.0	.0	.0	.0	.0	86.3
1821	8.8	.8	.5	.0	19.7	.4	.0	27.8	.0	.0	.9	.0	.1	.5	70.7
TOT PCT	8.0	.7	.5	.0	18.8	.4	.0	26.0	.0	.0	1.3	.0	.2	.5	72.0
TOT OBS:	1820														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL QRS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	1.5	2.4	.9	.5	.1	.0		5.4	8.8	4.1	4.5	2.2	.0	6.6	6.5	5.7	5.0	
NE	3.0	10.2	3.8	1.0	.1	.0		18.1	8.6	16.3	19.2	35.2	.0	33.6	25.0	16.7	15.9	
E	4.8	15.9	5.1	.3	.0	.0		26.1	7.4	24.8	26.2	21.9	.0	24.3	41.1	24.3	27.9	
SE	1.3	5.7	2.3	.1	.0	.0		9.3	8.0	12.3	7.0	19.6	.0	3.3	8.3	7.2	9.4	
S	.6	1.2	.8	.0	.0	.0		1.8	4.8	2.0	.4	3.1	.0	.0	.0	3.3	1.3	
SW	1.1	2.2	.1	.0	.0	.0		3.4	4.6	4.3	3.8	.0	.0	.7	4.8	2.1	3.8	
W	2.3	2.3	.9	.0	.0	.0		4.7	4.2	4.6	4.4	3.1	.0	2.0	1.8	6.1	4.8	
NW	2.0	2.9	.9	.0	.8	.0		5.3	5.3	5.2	5.6	9.4	.0	.7	3.0	5.9	5.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	26.0							26.0	.0	24.4	29.1	9.4	.0	28.9	9.5	26.6	27.7	
TOT OBS	771	777	233	34	3	0	1818		5.4	512	268	32		38	42	414	312	
TOT PCT	47.4	42.7	12.8	1.9	.2	.0		100.0		100.0	100.0	100.0		100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL QRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.7	.8	.7	.2	.0		5.4	8.5	3.3	2.3	6.6	5.3
NE	9.1	6.7	7.0	.3	.0		18.1	8.6	17.3	35.2	29.1	17.1
E	13.9	11.2	1.0	.0	.0		26.1	7.4	25.3	21.9	33.1	26.3
SE	5.6	3.0	.7	.1	.0		9.3	8.0	10.3	13.6	5.9	8.5
S	1.5	.3	.0	.0	.0		1.8	4.8	1.4	3.1	.0	2.2
SW	3.0	.9	.0	.0	.0		3.4	4.6	4.1	.0	2.3	2.9
W	4.0	.7	.0	.0	.0		4.7	4.2	4.6	3.1	1.9	3.0
NW	4.4	.7	.2	.8	.0		5.3	5.3	5.3	9.4	1.9	3.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	26.0						26.0	.0	26.0	9.4	18.8	27.2
TOT OBS	222	432	83	11	0	1818		5.4	790	32	80	926
TOT PCT	71.1	23.8	4.6	.6	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1969-1976
(OVER-ALL) 1967-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000Z	26.0	17.6	41.8	12.2	2.1	.4	.0	5.4	100.0	780	
0600Z	9.4	9.4	59.4	18.8	3.1	.0	.0	7.0	100.0	32	
1200Z	18.8	8.8	32.3	20.0	.0	.0	.0	6.3	100.0	80	
1800Z	27.2	16.3	42.1	12.5	1.8	.0	.0	3.2	100.0	920	
TOT	473	298	777	233	34	3	0	5.4		1810	
PCT	26.0	16.4	42.7	12.8	1.9	.2	.0	100.0			

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
NP	2.5	1.6	5.6	14.9	6.5	6.5
E	3.4	2.1	6.1	15.8	6.0	6.0
SE	.7	.0	1.7	9.4	6.8	6.8
S	.3	.3	.0	.4	5.3	5.3
SW	.0	.3	.3	1.4	7.1	7.1
W	.3	.0	1.0	1.4	6.6	6.6
NW	1.1	.3	2.0	2.7	6.2	6.2
VAR	.0	.0	.0	.0	.0	.0
CALM	1.7	.3	2.3	14.6	7.0	7.0
TOT OBS	39	15	60	187	301	6.5
TOT PCT	13.0	5.0	19.9	62.1	100.0	

TABLE 6

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

DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.7	.3	.0	.0	.3	.0	.0	1.3	.9	1.2	2.5	6.9
NP	1.8	.2	.7	.5	1.0	2.3	.7	3.5	2.0	1.4	9.9	6.5
E	.8	.5	1.2	.8	1.6	2.1	1.6	3.1	4.0	3.0	11.0	6.0
SE	.7	.7	.1	.0	.4	.6	.7	.4	1.4	.4	2.5	6.8
S	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.7	5.3
SW	.0	.3	.7	.1	.2	.0	.0	.3	.0	.7	7.1	7.1
W	.0	.3	.0	.2	.6	.2	.2	.3	.0	.9	6.6	6.6
NW	.0	.0	.3	.3	.7	.4	.1	.4	.4	.7	6.2	6.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3	.3	1.7	1.7	1.7	.0	.7	1.3	.7	1.3	5.3	7.0
TOT OBS	25	8	14	11	21	17	12	31	29	24	109	301
TOT PCT	8.3	2.7	4.7	3.7	7.0	3.6	4.0	10.3	9.6	8.0	36.2	100.0

TABLE 7

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

CEILING (FEET)	OR			VSBY (NM)				
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	16.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
>5000	24.3	27.9	27.9	27.9	27.9	27.9	27.9	27.9
>3500	26.6	31.9	31.9	31.9	31.9	31.9	31.9	31.9
>2000	29.6	37.2	37.2	37.2	37.2	37.2	37.2	37.2
>1000	31.6	43.2	43.2	43.2	43.2	43.2	43.2	43.2
>400	31.6	44.5	48.2	48.2	48.2	48.2	48.2	48.2
>300	31.6	46.8	52.5	52.5	52.5	52.5	52.5	52.5
>150	31.6	46.8	54.5	55.1	55.5	55.5	55.5	55.5
>0	31.6	46.8	55.1	57.1	62.5	63.8	63.8	63.8
TOTAL	93	141	166	172	188	192	192	192

TOTAL NUMBER OF OBS: 301

PCT FREQ NM <5/8: 36.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.0	7.3	10.6	3.3	2.0	5.0	11.3	4.7	35.2	7.6	301

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	.3	.4	.0	.1	.1	.2	.1	.0	2.5	3.9	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	TOT %	.3	.3	.4	.0	.1	.1	.2	.1	.0	2.9	4.3	
1/2<1	PCP	.2	.7	.5	.3	.1	.1	.2	.1	.0	2.8	5.0	
	NO PCP	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.8	.7	.3	.1	.1	.2	.1	.0	2.8	5.3	
1<2	PCP	.7	.3	.6	.2	.0	.1	.3	.3	.0	1.5	3.3	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3	
	TOT %	.7	.3	.6	.2	.0	.1	.3	.3	.0	1.8	3.6	
2<5	PCP	.7	.9	1.1	.2	.1	.6	.6	.5	.0	3.0	7.1	
	NO PCP	.4	.0	.1	.1	.0	.1	.1	.0	.0	.1	.9	
	TOT %	.8	.9	1.2	.3	.1	.7	.6	.5	.0	3.1	8.0	
5<10	PCP	.4	.6	1.5	.4	.3	.3	.2	.2	.0	1.2	5.2	
	NO PCP	.2	1.3	1.7	.4	.0	.8	.3	.4	.0	3.7	8.4	
	TOT %	.6	1.9	3.2	.7	.4	1.1	.5	.6	.0	4.9	13.6	
10+	PCP	.1	.1	.3	.2	.0	.1	.1	.1	.0	.7	1.6	
	NO PCP	3.4	13.8	19.8	7.5	1.2	1.6	2.6	3.6	.0	10.0	63.4	
	TOT %	3.5	13.9	20.0	7.7	1.2	1.7	2.7	3.7	.0	10.7	65.0	
TOT OBS												1818	
TOT PCT		5.4	18.1	26.1	9.3	1.8	3.4	4.7	5.3	.0	26.0	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.2	.1	.1	.0	.1	.1	.1	.1	.0	2.9	3.5	
	4-10	.1	.3	.2	.0	.0	.0	.1	.0	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.3	.4	.0	.1	.1	.2	.1	.0	2.9	4.3	
1/2<1	0-3	.2	.4	.4	.1	.0	.1	.1	.0	.0	2.8	4.1	
	4-10	.1	.3	.3	.2	.1	.1	.1	.1	.0	.0	1.2	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.8	.7	.3	.1	.1	.2	.1	.0	2.8	5.3	
1<2	0-3	.2	.1	.2	.1	.0	.0	.2	.1	.0	1.8	2.5	
	4-10	.0	.2	.5	.1	.0	.1	.0	.2	.0	.0	1.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.3	.6	.2	.0	.1	.3	.3	.0	1.8	3.6	
2<5	0-3	.1	.3	.3	.0	.0	.2	.3	.1	.0	3.1	4.4	
	4-10	.1	.6	.9	.3	.1	.4	.3	.3	.0	.0	3.1	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.6	.9	1.2	.3	.1	.7	.6	.5	.0	3.1	8.0	
5<10	0-3	.1	.2	.8	.3	.0	.2	.2	.2	.0	4.9	7.1	
	4-10	.4	1.4	2.0	.4	.3	.3	.3	.4	.0	.0	5.9	
	11-21	.0	.2	.3	.0	.0	.0	.0	.1	.0	.0	.7	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.6	1.9	3.2	.7	.4	.8	.7	.6	.0	4.9	13.6	
10+	0-3	.8	1.9	2.9	.7	.4	.5	1.3	1.5	.0	10.7	20.8	
	4-10	1.7	7.5	11.9	4.7	.7	1.1	1.3	1.7	.0	.0	30.7	
	11-21	.8	3.5	4.8	2.3	.0	.1	.0	.4	.0	.0	11.9	
	22+	.2	1.0	.3	.1	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	3.5	13.8	20.0	7.8	1.2	1.7	2.7	3.7	.0	10.7	65.0	
TOT OBS												1818	
TOT PCT		5.4	18.1	26.1	9.3	1.8	3.4	4.7	5.3	.0	26.0	100.0	

PERIOD: (PRIMARY) 1969-1976
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TABLE 10

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

HOUR (GMT)	000	100	300	600	1000	2000	3300	5000	6300	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	149	299	399	499	1099	3499	4999	6499	7999				
00003	6.3	4.3	2.2	4.3	7.3	5.4	2.2	4.3	11.8	5.4	93.8	40.2	93
00009	4.0	.0	.0	4.0	.0	4.0	.0	12.0	12.0	20.0	96.0	44.0	25
12015	7.7	.0	1.5	3.1	7.7	3.1	7.7	10.9	13.6	12.3	73.8	26.2	65
18021	11.0	3.4	9.3	3.4	7.6	7.6	4.2	11.0	5.1	5.1	67.8	32.2	118
TOT	25	8	14	11	21	17	12	31	29	24	192	109	301
PCT	8.3	2.7	4.7	3.7	7.0	5.6	4.0	10.3	9.6	8.0	63.8	36.2	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2-1	1-2	2-3	3-10	10+	TOTAL OBS
00003	3.6	4.2	5.2	7.8	13.2	63.0	781
00009	3.1	.0	3.1	.0	9.4	86.4	32
12015	2.5	3.8	1.9	2.5	27.3	62.5	80
18021	3.3	0.5	2.9	0.8	13.3	89.6	927
TOT	78	96	66	145	251	1184	1820
PCT	4.3	5.3	3.6	8.0	13.8	65.1	100.0

TABLE 12

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

HOUR (GMT)	<150 <300	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	6.3	12.9	23.7	35.3	40.9	93
00009	4.0	4.0	8.0	48.0	44.0	25
12015	7.7	9.2	12.3	61.5	26.2	65
18021	11.0	23.7	29.7	38.1	32.2	118
TOT	25	67	67	130	104	301
PCT	8.3	15.6	22.3	43.2	34.6	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
45/49	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
40/44	.1	.6	.0	.8	.3	.3	.0	.8	22	2.8
35/39	.3	1.4	1.4	1.5	.9	1.9	1.1	4.3	104	13.3
30/34	.6	.6	2.3	1.7	1.8	1.5	0.6	10.6	202	25.8
25/29	.6	.5	2.6	4.7	4.1	3.3	2.4	2.8	165	21.1
20/24	.4	1.4	4.6	1.7	3.2	5.0	3.3	1.8	166	21.2
15/19	.0	1.0	1.8	2.3	1.7	.9	1.1	.3	73	9.3
10/14	.0	.0	1.3	.0	2.3	.3	.3	.3	90	4.6
5/9	.0	.0	.4	1.0	.0	.0	.1	.1	13	1.7
0/4	.0	.0	.0	.0	.0	.0	.0	.1	1	.1
TOTAL	18	44	112	107	111	103	118	170	783	100.0
PCT	2.3	5.6	14.3	13.7	14.2	13.2	15.1	21.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
.0	.6	1.6	.2	.0	.1	.1	.1	.0	.0
.8	2.5	2.7	.9	.4	1.2	.6	1.3	.0	2.9
1.3	4.5	3.2	1.8	.1	.9	1.6	1.7	.0	8.6
1.9	3.8	3.8	2.4	.2	.1	.9	1.7	.0	4.2
1.1	6.0	6.3	2.3	.1	.8	1.7	1.3	.0	1.3
.1	2.7	3.1	.4	.0	.0	.2	.4	.0	.4
.1	1.3	2.3	.2	.0	.0	.3	.4	.0	.1
.0	.2	1.2	.1	.1	.0	.0	.0	.0	.0
.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
3.3	21.6	30.3	8.3	1.0	3.1	3.3	6.8	.0	17.8

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	46	44	38	30	15	10	6	28.8	781
00009	34	33	33	24	7	4	4	22.7	32
12015	37	36	35	25	10	6	6	25.1	80
18021	44	41	37	29	13	7	4	27.7	927
TOT	46	41	37	29	14	7	4	28.0	1820

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	3.0	38.0	14.0	12.3	13.7	17.0	66	300		
00009	3.1	21.9	10.8	34.4	12.3	6.4	70	32		
12015	.0	20.0	13.8	25.0	21.3	20.0	75	80		
18021	2.2	34.0	12.4	9.4	15.1	27.0	76	371		
TOT	18	263	111	103	118	170	69	783		

PERIOD: (PRIMARY) 1971-1976
(EVER-ALL) 1967-1976

DECEMBER

VALDEZ, AK
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN SH-R	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FDG W0 PCPN	FDG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.9	.0	.0	19.0	.0	.0	22.3	.0	.0	.0	.0	.0	5.2	76.3
NE	2.0	.0	.7	17.2	.1	.0	20.6	.0	.0	.0	.0	.0	.7	78.7
E	1.1	.0	.4	18.6	.2	.0	19.9	.0	.0	.7	.0	.0	.5	79.0
SE	3.4	.0	.2	12.8	.0	.0	15.7	.0	.0	.8	.0	.0	.0	83.3
S	4.4	.0	1.9	17.7	.0	.0	22.2	.0	.0	2.3	.0	.0	.0	75.3
SW	1.2	.0	.8	16.5	2.4	.0	19.3	.0	.0	2.4	.0	.0	.0	78.0
W	14.8	.0	.0	20.5	.0	.0	29.0	.0	.0	.0	.0	.0	.0	71.0
NW	7.3	.0	.0	15.0	.0	.0	21.3	.0	.0	.0	.0	.0	.0	79.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.1	.2	1.4	.0	41.0	.0	46.3	.0	.0	4.9	.0	.0	.0	68.0
TOT PCT	3.9	.1	.7	.0	25.3	.1	29.0	.0	.0	1.9	.0	.0	.4	68.7
TOT OBS:	1746													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN SH-R	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FDG W0 PCPN	FDG W0 PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	4.9	.0	.8	.0	24.9	.3	.0	29.3	.0	.0	2.3	.0	.4	68.0
0600	4.4	.0	.0	.0	20.0	.0	.0	24.4	.0	.0	4.4	.0	.0	71.1
1200	5.9	.0	.0	.0	38.1	.0	.0	41.5	.0	.0	2.3	.0	.0	55.9
1800	2.7	.1	.8	.0	24.2	.0	.1	27.2	.0	.0	1.4	.0	.5	70.9
TOT PCT	3.9	.1	.7	.0	25.3	.1	.1	29.0	.0	.0	1.9	.0	.4	68.7
TOT OBS:	1746													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.7	2.2	1.1	.3	.0	.0	5.4	7.8	4.8	6.2	6.1	.0	6.4	4.4	6.6	4.7		
NE	2.0	9.4	3.1	.1	.0	.0	15.8	7.3	17.1	17.4	18.3	.0	17.7	18.7	19.2	13.1		
E	2.5	15.2	5.6	.2	.0	.0	23.4	8.2	23.8	22.0	38.0	.0	24.1	27.8	21.3	23.8		
SE	1.4	4.2	2.7	.6	.0	.0	8.8	9.5	9.7	8.7	9.4	.0	5.9	4.8	8.2	9.3		
S	.7	1.3	.2	.0	.0	.0	2.3	5.5	2.3	2.3	.0	.0	3.6	3.2	2.6	2.0		
SW	1.2	1.1	.1	.0	.0	.0	2.3	4.2	2.6	2.2	.0	.0	.4	2.7	2.7			
W	1.4	2.9	.1	.0	.0	.0	4.1	4.4	2.3	4.0	.0	.0	1.8	2.4	6.2	5.0		
NW	2.0	2.4	.3	.2	.0	.0	5.1	6.0	5.3	7.3	4.4	.0	7.7	6.7	2.9	5.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	32.8						32.8	.0	32.1	29.8	26.7	.0	32.7	31.7	34.4	34.4		
TOT OBS	114	673	235	24	0	0	1746	5.0	476	255	45	0	55	63	381	471		
TOT PCT	46.6	38.5	13.5	1.4	.0	.0	100.0		100.0	100.0	100.0	.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40				03	06	09	12	15
N	3.4	1.3	.7	.0	.0	5.4	7.8	5.3	6.1	5.3	5.5	
NE	8.9	6.1	.7	.1	.0	15.8	7.3	17.2	18.3	18.2	14.1	
E	10.2	12.2	1.1	.0	.0	23.4	8.2	23.2	35.0	26.1	22.7	
SE	4.2	3.3	1.3	.1	.0	8.8	9.5	9.4	9.4	5.3	8.6	
S	1.8	.4	.1	.0	.0	2.3	5.5	2.3	.0	3.4	2.2	
SW	2.1	.2	.0	.0	.0	2.3	4.2	2.3	.0	.2	2.7	
W	3.5	.5	.0	.0	.0	4.1	4.4	2.9	.0	2.1	3.5	
NW	3.9	.8	.4	.0	.0	5.1	6.0	6.1	4.4	7.2	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	32.8					32.8	.0	31.3	26.7	32.2	34.4	
TOT OBS	1235	435	74	2	0	1746	5.0	731	45	118	852	
TOT PCT	70.7	24.9	4.2	.1	.0	100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1971-1976
(OVER-ALL) 1967-1976

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	91.3	14.1	40.6	12.4	1.5	.0	.0	5.0	100.0	731
0600	26.7	13.3	37.8	22.2	.0	.0	.0	6.3	100.0	45
1200	32.2	11.0	33.1	23.7	.0	.0	.0	5.8	100.0	118
1800	94.4	14.1	37.8	12.4	1.5	.0	.0	4.9	100.0	852
YDT	572	242	673	235	24	0	0	5.0		1746
PCT	42.8	13.9	38.5	13.5	1.4	.0	.0	100.0		

TABLE 5

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

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 &		
N	.0	.0	.0	3.9	8.0	8.0
NE	1.4	.7	1.4	13.7	7.0	7.0
E	2.1	2.4	3.9	20.6	6.8	6.8
SF	.6	.1	1.1	5.5	7.0	7.0
S	.0	.0	.2	2.1	6.4	6.4
SW	.1	.0	.1	.8	7.3	7.3
W	.0	.0	.0	1.8	8.0	8.0
NW	.3	.0	1.4	4.1	7.0	7.0
VAR	.0	.0	.0	.0	.0	.0
CALM	1.4	.0	1.1	30.3	7.6	7.6
YDT OBS	22	11	29	288	330	7.2
YDT PCT	6.7	3.1	8.3	82.3	100.0	

TABLE 6

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

WIND DIR	PCT FREQ										TOTAL OBS	
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	1.9	.0	.2	.3	.0	.6	.0	.3	.2	.5	.0	8.0
NE	1.7	.0	.9	.6	3.3	.7	1.8	1.5	.6	1.4	4.2	7.0
E	5.6	.0	.7	2.0	3.6	1.1	1.9	2.4	.9	.9	8.9	6.8
SF	.4	.3	.4	.4	1.7	.3	.6	.2	.6	.3	2.1	7.0
S	.3	.0	.0	.0	.0	.5	.0	.5	.0	.0	1.3	6.4
SW	.0	.3	.4	.0	.0	.0	.2	.0	.3	.0	.2	7.3
W	.0	.3	.5	.0	.0	.1	.0	.0	.0	.0	.0	8.0
NW	1.1	.3	.6	.0	.9	.9	.1	.0	.3	.0	1.1	7.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.3	1.7	4.0	1.7	5.7	.9	2.3	1.7	.6	.9	3.1	7.6
YDT OBS	76	10	27	18	53	17	24	23	12	16	74	330
YDT PCT	21.7	2.9	7.7	5.1	15.1	6.9	6.9	6.6	3.4	4.6	21.1	100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	6.6	8.0	8.0	8.0	8.0	8.0	8.0	8.0
>5000	11.1	14.6	14.6	14.6	14.6	14.6	14.6	14.6
>3500	14.6	21.1	21.1	21.4	21.4	21.4	21.4	21.4
>2000	15.4	24.3	26.0	26.3	26.3	26.3	26.3	26.3
>1000	15.7	31.1	40.9	41.4	41.4	41.4	41.4	41.4
>600	16.0	32.9	44.6	46.3	46.6	46.6	46.6	46.6
>300	16.0	36.0	52.0	54.0	54.3	54.3	54.3	54.3
>150	16.0	37.4	54.3	56.9	57.1	57.1	57.1	57.1
>0	16.0	37.4	59.1	65.4	72.6	78.0	78.9	78.9
TOTAL	96	191	207	229	254	273	276	276

TOTAL NUMBER OF OBS: 330 PCT FREQ NH <5/8: 21.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBS	
	9.7	9.1	9.1	1.7	1.4	3.4	4.6	.3	30.0	20.6	350

DECEMBER

PERIOD: (PRIMARY) 1971-1976
(OVER-ALL) 1967-1976

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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	.7	.5	.7	.6	.1	.0	.2	.0	3.7	5.7	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.2	.7	.6	.7	.6	.1	.0	.2	.0	4.3	6.4	
1/2<1	PCP	.9	.7	.6	.1	.0	.1	.1	.1	.0	4.1	6.0	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2	.3	
	TOT %	.9	.7	.6	.1	.1	.1	.1	.1	.0	4.3	6.3	
1<2	PCP	.9	.4	.7	.3	.1	.1	.3	.1	.0	2.7	4.9	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	TOT %	.9	.5	.7	.3	.1	.1	.3	.1	.0	2.9	5.1	
2<5	PCP	.4	1.0	1.6	.5	.3	.1	.4	.3	.0	3.4	8.2	
	NO PCP	.2	.1	.2	.1	.0	.0	.0	.0	.0	.6	1.0	
	TOT %	.6	1.1	1.8	.6	.3	.1	.4	.3	.0	4.0	9.2	
5<10	PCP	.1	.3	1.0	.7	.0	.1	.3	.3	.0	1.1	3.4	
	NO PCP	.4	1.5	2.4	1.0	.3	.3	.3	.7	.0	5.1	11.9	
	TOT %	.6	1.8	3.3	1.2	.3	.3	.3	1.0	.0	6.2	15.3	
10+	PCP	.1	.0	.3	.0	.1	.1	.1	.1	.0	.1	.7	
	NO PCP	3.6	10.9	16.1	6.4	1.4	1.6	2.3	3.3	.0	10.8	36.9	
	TOT %	3.7	11.0	16.4	6.4	1.5	1.7	2.6	3.4	.0	11.0	37.6	
TOT OBS												1746	
TOT PCT		5.4	19.8	23.4	8.8	2.3	2.3	4.1	5.1	.0	32.8	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	.1	.2	.3	.1	.4	.*	.0	.0	.0	4.3	5.0	
	4-10	.1	.3	.2	.1	.0	.1	.*	.2	.0	.0	1.4	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.7	.6	.2	.*	.1	.*	.2	.0	4.3	6.4	
1/2<1	0-3	.2	.3	.2	.1	.0	.1	.1	.1	.0	4.4	5.3	
	4-10	.*	.3	.4	.1	.1	.0	.0	.0	.0	.0	.9	
	11-21	.0	.*	.*	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.7	.6	.1	.1	.1	.1	.1	.0	4.4	6.3	
1<2	0-3	.1	.2	.2	.1	.1	.0	.3	.1	.0	2.9	4.0	
	4-10	.1	.2	.4	.2	.0	.1	.1	.0	.0	.0	.9	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.5	.7	.3	.1	.1	.3	.1	.0	2.9	5.1	
2<5	0-3	.3	.2	.3	.3	.2	.1	.2	.1	.0	4.0	5.6	
	4-10	.2	.7	1.3	.2	.2	.*	.2	.2	.0	2.9	7.7	
	11-21	.2	.2	.2	.1	.0	.0	.*	.*	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	1.1	1.8	.6	.3	.1	.4	.3	.0	4.0	9.2	
5<10	0-3	.1	.5	.6	.1	.2	.2	.2	.6	.0	6.2	8.6	
	4-10	.3	1.1	2.2	.9	.1	.1	.4	.4	.0	5.5	11.2	
	11-21	.2	.3	.5	.2	.0	.0	.0	.0	.0	1.2	1.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	
	TOT %	.6	1.8	3.3	1.2	.3	.3	.6	1.0	.0	6.2	15.3	
10+	0-3	1.0	1.4	1.0	.8	.3	.8	.7	1.1	.0	11.0	18.1	
	4-10	1.5	6.8	10.5	2.6	1.0	.8	1.8	1.6	.0	26.9	56.9	
	11-21	.8	2.3	4.7	2.4	.2	.1	.1	.3	.0	11.3	17.3	
	22+	.3	.1	.2	.6	.0	.0	.0	.1	.0	1.3	1.7	
	TOT %	3.7	11.0	16.4	6.4	1.5	1.7	2.6	3.4	.0	11.0	37.6	
TOT OBS												1746	
TOT PCT		5.4	19.8	23.4	8.8	2.3	2.3	4.1	5.1	.0	32.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1971-1976
(OVER-ALL) 1967-1976

VALDEZ, AK
61.1N 146.3W

TABLE 10

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

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3499	4999	6499	7999		75.2	24.8	109
0600	23.5	5.9	2.9	.0	17.6	.0	14.7	8.8	2.9	5.9	82.4	17.6	34
1200	22.1	.0	4.2	7.4	20.0	3.2	8.4	9.5	4.2	5.3	84.2	15.8	95
1800	22.3	3.6	9.8	6.3	11.6	5.4	5.4	6.3	2.7	3.6	76.8	23.2	112
TOT	76	10	37	18	53	17	24	23	12	16	276	74	350
PCT	21.7	2.9	7.7	5.1	15.1	4.9	6.9	6.6	3.4	4.6	78.9	21.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
0000	9.6	8.5	4.9	9.0	14.5	57.5	731
0600	6.7	2.2	4.4	13.3	24.4	48.9	45
1200	8.5	4.2	3.4	22.0	24.0	37.3	118
1800	6.8	4.9	5.5	7.4	14.3	61.0	852
TOT	112	110	89	161	268	1096	1746
PCT	6.4	6.3	5.1	9.2	15.3	57.6	100.0

TABLE 12

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

HR	<150	<600	<1000	1000+	NM <5/8 AND 5+	TOTAL
0000	20.2	34.9	49.5	30.3	20.2	109
0600	23.5	32.4	41.2	44.1	14.7	34
1200	22.1	28.4	49.5	35.8	14.7	95
1800	22.3	36.6	53.6	24.1	22.3	112
TOT	76	117	175	109	66	350
PCT	21.7	33.4	50.0	31.1	18.9	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	PCT
39/39	.0	.0	.2	.2	.3	1.3	.6	1.0	32	3.7
37/34	.0	.0	.8	1.0	1.4	2.3	11.5	15.8	285	32.8
29/29	.0	.0	.6	.9	2.5	3.2	5.1	9.9	193	22.2
20/24	.0	.1	.1	.7	3.5	6.2	4.3	3.0	155	17.9
19/19	.0	.3	.7	.9	.9	1.4	3.0	1.2	73	8.4
10/14	.0	.0	2.3	.0	2.8	.2	1.6	1.0	69	7.9
9/9	.0	.3	.2	1.8	.0	.2	.1	.0	24	2.8
0/4	.0	.0	1.3	.0	.1	.5	.0	.1	17	2.0
-1/-4	.0	.6	.0	.0	1.4	.3	.0	.0	20	2.3
TOTAL	0	12	54	49	112	136	227	278	849	100.0
PCT	.0	1.4	6.2	5.6	12.9	15.7	26.2	32.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.8	1.4	.4	.0	.8	.4	.2	.0	.2
1.3	4.7	5.8	1.4	.5	.5	1.2	1.6	.0	15.8
.2	3.6	5.2	1.5	.7	.4	.5	1.7	.0	8.3
.6	2.9	6.3	1.5	1.1	.8	.3	1.1	.0	3.1
.8	.9	2.1	1.0	.2	.5	.6	1.0	.0	1.3
.3	1.8	3.6	.4	.1	.0	.2	.6	.0	.9
.0	.3	1.1	.6	.1	.1	.0	.3	.0	.1
.0	.7	1.2	.8	.0	.0	.0	.0	.0	.0
.1	.6	1.4	.2	.0	.0	.0	.0	.0	.0
3.5	16.5	28.1	7.1	2.8	2.3	3.4	6.6	.0	29.7

TABLE 15

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

HR	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL
0000	42	38	34	24	7	.0	-3	23.1	731
0600	39	38	33	29	-1	-1	-1	22.7	45
1200	37	36	35	27	-1	-4	-4	23.6	118
1800	42	36	34	23	6	.0	-4	22.1	852
TOT	42	37	34	24	5	-1	-4	22.7	1746

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
0000	.0	14.4	10.3	16.5	26.0	32.6	80	334		
0600	.0	26.7	15.6	6.7	22.2	28.9	75	45		
1200	.0	10.2	13.6	13.6	25.8	33.9	82	118		
1800	.0	11.6	14.6	16.7	25.9	31.3	80	371		
TOT	0	115	112	136	227	278	80	868		

PERIOD: (PRIMARY) 1966-1977
(OVER-ALL) 1967-1977

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VALDEZ, AK
61.1N 146.3W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHR PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	14.2	5.4	.3	.0	9.0	.2	.0	28.4	.0	.0	.9	.0	.0	1.7	69.0
NE	12.3	1.2	1.0	.0	8.0	*	*	21.5	.0	.2	1.2	.0	.0	.2	77.1
E	15.5	2.0	1.2	.0	8.9	.1	.0	26.5	.0	.0	1.8	.0	.0	.1	71.8
SE	12.7	1.3	.9	.0	6.3	.0	.0	20.9	.0	.0	1.8	.0	.2	*	77.0
S	15.7	1.4	1.2	.0	8.3	.0	.0	23.0	.0	.0	1.5	.0	.0	.0	73.5
SW	14.2	1.4	.9	.0	8.3	.3	.0	23.0	.0	.0	1.7	.0	.2	.0	74.5
W	15.9	2.1	1.3	.0	10.7	.1	.0	27.7	.0	*	1.0	.0	.1	.0	71.2
NW	14.9	3.4	.8	.0	9.0	.2	.0	26.7	.0	.0	1.3	.0	.1	.3	71.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	18.2	.9	2.6	*	21.2	.1	.1	40.2	.0	*	3.3	.0	.2	.0	56.1
TOT PCT	13.4	1.5	1.3	*	12.0	.1	*	26.7	.0	*	1.7	.0	.1	.2	71.3
TOT OBS:	22612														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHR	DRZL	FRZG PCPN	SNOW	OTHR PRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	14.0	1.8	1.0	.0	11.7	.1	*	27.0	.0	*	.9	.0	.2	.2	71.8
0600	6.1	1.7	2.0	.0	10.7	.2	.0	19.1	.0	.0	1.4	.0	.0	.0	62.8
1200	13.4	1.2	1.6	.1	13.0	.0	.0	28.3	.0	.1	4.0	.0	.0	.2	67.5
1800	13.0	1.3	1.4	.0	12.0	.1	*	28.3	.0	*	2.0	.0	.1	.2	71.4
TOT PCT	13.4	1.5	1.3	*	12.0	.1	*	26.7	.0	*	1.7	.0	.1	.2	71.3
TOT OBS:	22619														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	1.1	1.5	.7	.7	*	.0		3.4	6.5		2.9	3.1	3.9	6.6	5.0	4.1	4.2	3.1
NE	1.9	3.0	2.3	.3	*	.0		9.3	7.2		8.2	9.0	14.9	16.9	14.3	13.2	10.9	8.4
E	7.4	8.0	3.1	.2	*	.0		13.7	6.8		12.3	13.2	16.4	10.4	15.0	17.1	15.0	13.4
SE	2.4	4.0	1.6	.1	.0	.0		8.1	6.3		7.7	6.7	5.0	4.7	5.4	6.2	8.4	8.6
S	2.5	3.4	.1	*	.0	.0		6.0	4.4		5.4	3.8	2.0	.0	2.0	3.7	8.2	6.3
SW	3.0	14.1	.3	*	.0	.0		17.3	5.0		23.2	15.5	4.2	2.0	2.7	3.7	10.7	22.6
W	2.9	9.8	1.9	*	.0	.0		13.7	5.6		18.9	22.5	18.3	2.5	3.1	5.9	7.9	12.5
NW	1.8	3.0	.5	.1	*	.0		5.4	5.8		5.3	6.7	11.6	3.9	4.1	5.7	4.9	4.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	22.9							22.9	5.0		16.0	19.5	23.7	55.0	48.4	40.4	28.8	20.2
TOT OBS							22671				6080	2791	313	108	483	1000	3409	6285
TOT PCT	46.2	48.8	10.1	.8	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40					00	06	12	18	21	
N	2.2	.8	.4	*	.0		3.4	6.5		3.0	4.3	4.3	3.6	
NE	5.0	3.7	.8	.1	.0		9.5	7.2		8.5	15.9	13.4	9.5	
E	7.0	8.0	.8	*	.0		13.7	6.8		12.3	17.2	16.5	14.2	
SE	3.3	2.3	.3	*	.0		8.1	6.3		7.4	5.4	3.9	9.1	
S	3.4	.5	*	*	.0		6.0	4.4		4.9	1.8	3.3	7.2	
SW	12.3	4.8	*	*	.0		17.3	5.0		21.0	3.9	3.3	17.0	
W	7.8	5.8	.1	.0	.0		13.7	5.6		19.9	15.1	5.3	10.3	
NW	3.9	1.2	.2	*	.0		5.4	5.8		5.7	10.3	3.2	4.9	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	22.9						22.9	5.0		17.1	26.1	42.9	24.1	
TOT OBS						22621				8891	818	1483	11889	
TOT PCT	72.0	25.1	2.8	.1	.0		100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1968-1977
(OVER-ALL) 1967-1977

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000	17.1	14.6	55.4	11.9	.0	.0	.0	5.8	100.0	8831
0400	26.1	19.7	43.3	10.2	.7	.0	.0	4.4	100.0	818
1215	42.9	19.9	29.1	7.8	.3	.0	.0	3.4	100.0	1483
1621	34.1	18.7	47.0	9.3	.0	.0	.0	4.8	100.0	11889
TOT								3.0		22621
PCT	27.6	18.2	43.7	9.8	.7	.0	.0	100.0		

TABLE 5

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

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
NE	1.2	.6	1.6	8.0	6.9	
E	1.8	.7	1.9	9.4	6.8	
SE	.4	.1	.8	3.6	6.8	
S	.8	.2	.9	3.1	6.7	
SW	2.3	.9	2.3	6.9	6.8	
W	.8	.3	1.3	6.3	7.0	
NH	.7	.1	.9	4.1	6.7	
VAR	.0	.0	.0	.0	.0	
CALM	1.8	.9	2.4	23.4	7.2	
TOT OBS					3837	6.8
TOT PCT	10.4	4.1	12.9	72.6	100.0	

TABLE 6

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

WIND DIR	CEILING HEIGHTS (FT, NH >4/8)										NH <5/8 ANY HGT	TOTAL OBS
	000	150	300	600	1000	2000	3500	5000	6500	8000+		
N	.4	.1	.1	.2	.4	.1	.3	.4	.3	.3	.3	1.4
NE	1.2	.2	.4	.3	1.1	.6	.9	1.1	.8	.7	.7	4.1
E	1.4	.2	.3	.8	1.3	1.1	1.1	1.0	.8	.7	.7	5.1
SE	.7	.3	.3	.2	.6	.4	.5	.3	.3	.2	.2	1.7
S	.3	.6	.8	.3	1.0	.6	.6	.7	.2	.1	.2	2.4
SW	.4	.6	1.3	.7	1.6	1.4	.6	.5	.6	.6	.6	7.4
W	.4	.2	.8	.4	1.3	1.2	.5	.2	.3	.2	.2	2.9
NH	.3	.1	.5	.2	.8	.7	.4	.3	.2	.3	.2	2.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.9	1.6	3.2	1.4	3.3	1.4	1.6	1.1	1.3	1.3	6.8	
TOT OBS	9.6	3.8	8.0	4.5	11.5	7.5	6.4	5.7	4.6	4.3	34.0	3837
TOT PCT												100.0

TABLE 7

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

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	8.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1
>5000	12.8	14.6	14.7	14.7	14.7	14.7	14.7	14.7
>3500	17.0	20.9	21.0	21.1	21.1	21.2	21.2	21.2
>2000	21.7	27.8	28.3	28.6	28.7	28.7	28.7	28.7
>1000	24.9	36.3	39.6	40.1	40.2	40.2	40.2	40.2
>600	27.5	39.2	43.9	44.4	44.6	44.7	44.7	44.7
>300	29.1	43.6	51.3	52.2	52.3	52.3	52.3	52.3
>150	28.3	43.4	54.7	55.8	56.3	56.4	56.4	56.4
>0	28.4	43.7	56.7	59.6	64.0	65.6	66.0	66.0

TOTAL NUMBER OF OBS: 3837

PCT FREQ NH <5/8: 34.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	TOTAL OBSCD	TOTAL OBS
	10.8	10.2	8.2	3.2	1.8	3.8	7.5	2.7	43.4	8.6	3837

PERIOD: (PRIMARY) 1964-1977
(OVER-ALL) 1967-1977

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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	.2	.2	.1	.0	.1	.1	.1	.0	1.4	2.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.4	
	TOT %	.1	.2	.2	.1	.0	.2	.1	.1	.0	1.7	2.7	
1/2<1	PCP	.1	.3	.4	.2	.1	.2	.2	.1	.0	2.0	3.7	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.3	.4	.2	.1	.2	.2	.1	.0	2.1	3.9	
1<2	PCP	.1	.2	.3	.2	.1	.2	.2	.1	.0	1.2	2.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	TOT %	.1	.2	.3	.2	.1	.2	.2	.1	.0	1.2	2.8	
2<5	PCP	.2	.5	.8	.5	.3	.9	.9	.4	.0	2.5	7.0	
	NO PCP	.1	.0	.1	.1	.0	.2	.1	.1	.0	.3	1.0	
	TOT %	.3	.5	.8	.5	.3	1.1	.9	.5	.0	2.8	8.0	
5<10	PCP	.2	.6	.8	.6	.6	1.2	1.3	.6	.0	2.0	7.8	
	NO PCP	.0	.0	1.3	.7	.6	1.3	1.3	.6	.0	2.5	9.4	
	TOT %	.2	.6	2.1	1.1	1.2	2.5	2.6	1.2	.0	4.5	17.2	
10+	PCP	.1	.1	.3	.2	.3	.9	.7	.2	.0	.7	3.6	
	NO PCP	2.3	6.9	9.4	5.8	3.8	12.1	8.7	3.2	.0	9.8	62.0	
	TOT %	2.4	7.0	9.7	6.0	4.1	13.0	9.4	3.4	.0	10.5	65.6	
TOT OBS												22619	
TOT PCT		3.4	9.5	13.7	8.1	6.0	17.3	13.7	5.4	.0	22.9	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.1	.1	.0	.1	.0	.0	.0	1.7	2.1	
	4-10	.0	.1	.2	.0	.0	.1	.1	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.2	.1	.0	.2	.1	.1	.0	1.7	2.7	
1/2<1	0-3	.1	.1	.2	.1	.1	.1	.1	.0	.0	2.1	2.9	
	4-10	.0	.2	.3	.1	.0	.1	.1	.1	.0	.0	.9	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.3	.2	.1	.3	.2	.1	.0	2.1	3.9	
1<2	0-3	.0	.1	.1	.1	.1	.1	.1	.1	.0	1.2	2.0	
	4-10	.0	.1	.2	.1	.0	.2	.1	.1	.0	.0	.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.4	.2	.1	.3	.2	.1	.0	1.2	2.8	
2<5	0-3	.1	.2	.2	.3	.2	.3	.3	.2	.0	2.8	4.8	
	4-10	.1	.3	.6	.3	.2	.7	.6	.2	.0	2.9	2.9	
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.5	.8	.5	.4	1.1	.9	.5	.0	2.8	8.0	
5<10	0-3	.2	.4	.6	.5	.7	.6	.5	.5	.0	4.5	8.3	
	4-10	.2	.7	1.2	.6	.5	1.9	2.0	.6	.0	7.7	7.7	
	11-21	.1	.1	.3	.1	.0	.0	.3	.1	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.5	1.2	2.1	1.1	1.2	2.5	2.8	1.2	.0	4.5	17.2	
10+	0-3	.6	1.0	1.2	1.4	1.4	1.7	1.3	1.0	.0	10.5	20.0	
	4-10	1.1	3.6	5.8	3.0	2.6	11.1	6.9	2.0	.0	35.9	35.9	
	11-21	.6	2.2	2.7	1.5	.1	.2	1.2	.4	.0	8.9	8.9	
	22+	.1	.3	.2	.1	.0	.0	.0	.0	.0	.7	.7	
	TOT %	2.4	7.0	9.7	6.0	4.1	13.0	9.4	3.4	.0	10.5	65.4	
TOT OBS												22620	
TOT PCT		3.4	9.5	13.7	8.1	6.0	17.3	13.7	5.4	.0	22.9	100.0	

ANNUAL

PERIOD: (PRIMARY) 1967-1977
(OVER-ALL) 1967-1977

VALDEZ, AK
61.1N 146.3W

TABLE 10

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

HOURL (GMT)	0'0	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	8.5	2.6	7.7	4.9	10.3	9.8	5.8	4.1	4.2	3.0	60.8	39.2	1154
06009	10.3	1.6	2.3	2.3	6.8	4.1	7.9	4.6	3.8	8.6	52.4	22.4	362
12015	10.5	3.4	7.3	4.5	13.1	7.2	7.8	8.9	5.8	6.5	74.8	25.2	941
18021	9.2	5.0	9.2	4.3	11.6	6.3	4.9	4.8	3.8	4.1	63.3	36.7	1380
TOT PCT	9.6	3.8	8.0	4.5	11.9	7.5	6.4	5.7	4.6	4.5	66.0	34.0	3837

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	2.4	3.8	2.7	7.2	15.8	68.2	8833
06009	2.1	2.8	2.0	8.3	20.5	47.6	618
12015	3.2	3.8	3.2	11.3	28.9	49.6	1483
18021	2.9	4.0	2.9	7.9	16.2	66.0	11692
TOT PCT	2.7	3.9	2.8	8.0	17.2	65.4	22626

TABLE 12

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

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	8.5	19.1	29.4	34.3	36.2	1154
06009	10.3	14.2	20.3	33.1	21.3	362
12015	10.5	22.0	32.9	43.9	23.2	941
18021	9.2	24.0	32.7	32.0	35.3	1380
TOT PCT	9.6	21.8	31.7	36.5	31.9	3837

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70/74	0.0	0.2	0.3	0.2	0.0	0.0	0.0	0.0	0.6	0.6
65/69	0.0	0.2	0.3	0.6	0.4	0.0	0.0	0.0	1.6	1.6
60/64	0.0	0.1	0.3	0.8	2.2	0.7	0.0	0.0	4.1	4.1
55/59	0.2	0.1	0.3	0.7	1.7	3.4	2.1	0.3	8.7	8.7
50/54	0.2	0.2	0.2	0.7	1.7	1.6	3.8	2.9	11.4	11.4
45/49	0.1	0.1	0.2	0.6	1.2	1.8	2.6	5.1	11.6	11.6
40/44	0.1	0.3	0.4	0.9	1.3	1.4	1.8	3.0	8.6	8.6
35/39	0.2	0.4	0.6	1.0	0.7	1.2	1.7	3.3	11.1	11.1
30/34	0.1	0.2	0.7	1.1	1.1	1.1	4.4	7.2	16.0	16.0
25/29	0.1	0.1	0.5	1.3	1.3	1.9	2.5	0.9	8.9	8.9
20/24	0.0	0.2	0.8	0.4	0.9	1.7	1.7	0.9	6.7	6.7
15/19	0.0	0.2	0.4	1.1	0.9	0.6	1.4	0.5	5.1	5.1
10/14	0.0	0.0	0.7	0.0	1.3	0.2	0.7	0.3	3.1	3.1
5/9	0.0	0.0	0.1	0.8	0.0	0.4	0.2	0.0	1.6	1.6
0/4	0.0	0.0	0.1	0.0	0.0	0.3	0.0	0.1	0.6	0.6
-1/-4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.2
-5/-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL PCT	0.9	2.2	6.1	10.0	14.9	15.7	22.1	28.1	9436	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70/74	0.0	0.0	0.0	0.0	0.1	0.4	0.1	0.0	0.0	0.0
65/69	0.0	0.0	0.0	0.1	0.2	0.7	0.5	0.1	0.0	0.0
60/64	0.0	0.0	0.1	0.2	0.4	1.4	1.6	0.3	0.0	0.0
55/59	0.1	0.2	0.3	0.6	1.1	3.0	2.4	0.5	0.0	0.3
50/54	0.1	0.3	0.5	0.8	1.8	3.0	2.4	0.7	0.0	1.8
45/49	0.3	0.5	0.7	0.9	1.7	2.5	1.7	0.7	0.0	2.6
40/44	0.3	0.6	1.1	0.8	0.7	1.3	0.9	0.7	0.0	2.2
35/39	0.4	1.1	1.7	0.9	0.9	1.3	0.9	0.0	0.0	3.5
30/34	0.7	2.0	2.4	0.7	0.9	0.9	1.0	0.0	0.0	7.4
25/29	0.3	1.8	1.9	0.6	0.2	0.2	0.6	0.0	0.0	2.7
20/24	0.4	1.5	2.0	0.6	0.2	0.2	0.4	0.0	0.0	1.1
15/19	0.4	1.1	1.7	0.8	0.1	0.1	0.3	0.0	0.0	0.5
10/14	0.1	0.7	1.3	0.2	0.1	0.0	0.2	0.0	0.0	0.3
5/9	0.1	0.4	0.7	0.1	0.1	0.0	0.1	0.0	0.0	0.0
0/4	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-1/-4	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
-5/-9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL PCT	3.4	10.6	14.8	7.1	7.4	14.3	13.4	6.8	0.0	22.2

TABLE 15

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

HOURL (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	56	51	40	29	24	-15	39.4	8833
06009	65	39	37	31	21	18	-1	33.4	618
12015	57	44	42	36	24	20	-4	34.2	1483
18021	80	53	48	34	24	20	-17	38.1	11692
TOT	83	54	49	39	26	21	-17	38.9	22626

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	1.1	24.3	19.1	16.8	19.0	19.7	72	3192		8833
06009	0.3	10.3	10.5	17.9	23.4	21.0	79	617		618
12015	0.1	7.3	7.0	11.8	25.1	17.7	84	1363		1483
18021	1.1	18.5	15.1	15.3	22.4	27.8	73	4262		11692
TOT	74	1797	1454	1471	2100	2540	76	9436		22626

TABLE 21
PRESSURE (MB)

MO	AVERAGE BY HOUR (GMT)									TOTAL OBS
	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	
JAN	1011	1011	1008		1007	1008	1010	1010	1010	949
FEB	1009	1002	1004		1004	1002	1004	1004	1003	931
MAR	1009	1009	1009	1008	1006	1008	1009	1009	1008	1017
APR	1010	1010	1010	1010	1010	1010	1011	1011	1010	770
MAY	1012	1013	1013	1011	1011	1012	1012	1012	1012	896
JUN	1014	1014	1014	1014	1015	1015	1014	1014	1014	887
JUL	1015	1016	1014	1011	1014	1014	1016	1016	1015	615
AUG	1017	1017	1021		1013	1015	1017	1017	1017	498
SEP	1013	1014			1004	1011	1013	1013	1013	440
OCT	1004	1002			1008	1005	1003	1003	1004	766
NOV	1009	1010	1003		1005	1006	1006	1007	1007	783
DEC	1001	1003	1003		1004	1003	1001	1002	1002	868
ANN	1010	1010	1010	1011	1008	1009	1010	1010	1009	9438
OBS	2112	1080	914	108	489	882	2079	2189		

MO	MIN	PERCENTILES								MAX
		1%	5%	25%	50%	75%	95%	99%		
JAN	971	977	984	1001	1011	1019	1029	1049	1052	
FEB	966	969	978	998	1003	1011	1025	1038	1043	
MAR	980	982	988	998	1010	1019	1026	1032	1038	
APR	989	989	997	1005	1011	1016	1023	1029	1033	
MAY	989	991	997	1006	1012	1018	1024	1026	1030	
JUN	997	998	1004	1010	1015	1019	1024	1023	1028	
JUL	1003	1004	1006	1010	1015	1019	1026	1028	1030	
AUG	997	999	1003	1012	1018	1021	1028	1030	1031	
SEP	979	991	998	1008	1014	1018	1023	1023	1026	
OCT	968	975	986	997	1003	1011	1020	1026	1028	
NOV	971	974	984	994	1006	1018	1029	1041	1042	
DEC	971	977	984	994	1000	1009	1023	1040	1045	

JANUARY

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1969-1974

CAPE HINCHINBROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWNG DUST	N7 SIG WEA
N	1.8	.0	.0	.0	9.0	.0	.0	10.3	.0	.0	.0	.0	.0	.0	89.8
NE	7.2	.0	.2	.0	26.8	.2	.0	33.5	.0	.2	3.0	.0	.0	.4	63.1
E	10.0	.0	.0	.0	30.1	.8	.0	40.8	.0	.0	6.3	.0	.0	.0	52.9
SE	17.3	1.6	3.3	.0	11.4	.0	.0	33.7	.0	.0	.4	.0	.0	1.6	64.2
S	6.1	.0	.0	.0	13.6	.0	.0	19.7	.0	.0	.0	.0	.0	.0	80.3
SW	.0	.0	.0	.0	30.2	.0	.0	30.2	.0	.0	.0	.0	.0	.0	69.8
W	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	.0	.0	.0	84.8
NW	.4	.0	.0	.0	7.2	.0	.0	7.6	.0	.0	.4	.0	.0	.0	92.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	10.1	.0	.0	10.1	.0	.0	3.0	.0	.0	.0	86.9
TOT PCT	4.6	.1	.2	.0	17.8	.1	.0	22.4	.0	.1	1.9	.0	.0	.3	75.5
TOT OBS:	1447														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWNG DUST	N7 SIG WEA
0000Z	4.6	.0	.0	.0	16.4	.3	.0	21.0	.0	.0	1.3	.0	.0	.3	77.4
0600Z	9.8	.0	.0	.0	13.0	.8	.0	23.6	.0	.8	.0	.0	.0	.8	75.6
1201Z	3.4	.2	.6	.0	18.3	.0	.0	22.0	.0	.0	1.3	.0	.0	.4	75.5
1802Z	4.3	.0	.0	.0	19.1	.0	.0	22.7	.0	.0	2.9	.0	.0	.4	74.4
TOT PCT	4.6	.1	.2	.0	17.7	.1	.0	22.4	.0	.1	1.9	.0	.0	.3	75.5
TOT OBS:	1448														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					%8+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47					00	03	06	09	12	15	18
N	.9	7.9	4.6	.4	.0	.0	13.8	9.9	10.4	5.8	17.7	4.9	14.5	12.2	17.1	14.2
NE	2.5	13.1	13.0	5.2	.6	.0	34.5	13.2	29.4	26.7	34.0	9.7	34.4	39.8	37.9	32.4
E	.8	3.3	7.6	1.0	.3	.0	8.8	12.9	10.2	19.3	6.3	16.1	7.7	8.3	4.1	9.3
SE	.7	1.1	1.7	.7	.1	.0	4.3	13.6	5.4	4.2	4.3	7.3	5.9	4.6	3.5	3.4
S	.2	1.2	1.1	.1	.0	.0	2.8	10.6	2.5	5.0	2.2	2.4	1.8	2.4	2.1	3.7
SW	.3	1.0	.6	.0	.0	.0	1.8	8.0	2.1	4.2	3.5	12.9	1.5	1.9	.5	1.4
W	.3	3.2	3.4	1.2	.1	.0	8.2	13.2	10.4	3.3	21.5	.0	8.0	2.0	7.5	4.2
NW	1.5	6.4	9.1	1.2	.0	.0	19.2	11.1	24.0	4.2	6.3	.8	14.1	23.9	19.3	21.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	.0	.0	.0	.0	6.8	.0	5.1	33.3	4.3	41.9	6.1	4.8	4.3	7.2
TOT OBS	201	370	319	140	17	.0	1447	11.3	273	30	92	31	279	186	278	274
TOT PCT	13.9	39.4	35.9	4.7	1.2	.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				4+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+					00	06	12	18
N	3.9	8.3	1.5	.2	.0	14.8	9.9	10.2	15.4	13.6	15.7		
NE	8.2	15.8	4.5	1.8	.1	34.5	13.2	29.1	27.8	38.9	35.2		
E	2.7	3.8	1.6	.6	.2	8.8	12.9	10.3	8.7	8.0	4.7		
SE	1.2	1.5	1.2	.4	.0	4.3	13.6	5.5	5.1	4.2	3.4		
S	1.0	1.1	.4	.1	.0	2.5	10.6	2.8	2.2	2.0	2.9		
SW	1.0	.7	.1	.0	.0	1.8	8.0	2.3	3.9	1.7	.8		
W	1.8	4.3	1.4	.7	.0	8.2	13.2	9.8	16.1	5.6	7.8		
NW	4.4	11.4	2.3	.1	.0	19.2	11.1	22.0	4.9	20.4	19.8		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	6.8	.0	.0	.0	.0	6.8	.0	7.9	13.8	5.6	5.8		
TOT OBS	447	681	260	94	5	1447	11.3	305	123	445	354		
TOT PCT	30.9	47.1	18.0	3.7	.3	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					4+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
0000Z	7.9	6.2	42.6	34.1	9.2	.0	.0	10.0	100.0	305
0600Z	13.4	5.7	39.0	33.3	6.5	1.6	.0	10.4	100.0	123
1201Z	5.6	8.4	34.9	36.3	8.4	1.9	.0	11.4	100.0	465
1802Z	5.8	6.7	38.1	37.0	11.4	1.1	.0	11.8	100.0	354
TOT	99	102	570	319	140	17	.0	11.3		1447
PCT	6.8	7.0	39.4	35.9	9.7	1.2	.0	100.0		

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1962-1974

JANUARY

CAMP MINCHINBROOK, AK
60.2N 146.7W

TABLE 8

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

VSRY (NM)	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	1.9	.5	.1	.0	.1	.1	.2	.0	.0	3.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	1.9	.5	.1	.0	.1	.1	.2	.0	.0	3.0
1/2<1	PCP	.1	2.4	1.2	.1	.1	.2	.1	.1	.0	.1	4.4
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.1	2.4	1.3	.1	.1	.2	.1	.1	.0	.1	4.6
1<2	PCP	.3	1.9	.3	.4	.0	.1	.1	.1	.0	.1	3.2
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	.3
	TOT %	.3	2.1	.3	.4	.0	.1	.1	.1	.0	.2	3.5
2<5	PCP	.4	2.3	1.1	.4	.1	.1	.1	.6	.0	.3	5.6
	NO PCP	.0	.7	.4	.1	.0	.0	.0	.0	.0	.1	1.3
	TOT %	.4	3.2	1.5	.5	.1	.1	.1	.6	.0	.4	6.9
5<10	PCP	.9	2.4	.3	.4	.9	.1	.7	.4	.0	.3	5.3
	NO PCP	.4	3.1	.5	.6	.2	.4	.5	.7	.0	.1	8.2
	TOT %	.9	7.4	.9	1.0	.4	.7	1.2	1.1	.0	.4	13.5
10+	PCP	.1	.4	.2	.0	.1	.0	.1	.0	.0	.0	.9
	NO PCP	12.0	14.8	4.2	2.2	1.8	1.3	6.3	17.0	.0	5.8	67.6
	TOT %	12.0	17.3	4.4	2.2	1.9	1.3	6.6	17.1	.0	5.8	68.5
TOT OBS												1447
TOT PCT	13.8	36.5	8.8	4.3	2.5	1.8	8.2	19.2	.0	6.8	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.2	.0	.1	.0	.1	.0	.1	.0	.0	.0	.5
	11-21	.1	.8	.3	.1	.0	.0	.1	.1	.0	.0	.0	1.4
	22+	.0	.9	.2	.0	.0	.0	.0	.0	.1	.0	.0	1.2
	TOT %	.2	1.9	.5	.1	.0	.1	.1	.1	.2	.0	.0	3.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.2	.1	.0	.1	.2	.0	.1	.0	.0	.0	.6
	11-21	.0	1.1	.8	.1	.1	.1	.1	.1	.0	.0	.0	2.3
	22+	.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.6
	TOT %	.1	2.5	1.3	.1	.1	.2	.1	.1	.1	.0	.1	4.6
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.3
	4-10	.1	.6	.1	.2	.0	.1	.1	.0	.0	.0	.0	1.1
	11-21	.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	1.3
	22+	.0	.6	.1	.1	.0	.0	.0	.0	.1	.0	.0	.8
	TOT %	.3	2.1	.3	.4	.0	.1	.1	.1	.1	.0	.2	3.5
2<5	0-3	.0	.2	.0	.1	.0	.0	.0	.1	.0	.0	.3	.7
	4-10	.2	.6	.2	.1	.1	.1	.1	.4	.0	.0	.0	1.7
	11-21	.1	1.5	.8	.1	.1	.1	.0	.2	.0	.0	.0	2.8
	22+	.1	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	1.7
	TOT %	.4	3.2	1.5	.5	.1	.1	.1	.6	.0	.0	.3	6.9
5<10	0-3	.1	.5	.2	.0	.1	.0	.0	.2	.0	.0	.4	1.5
	4-10	.6	2.1	.3	.1	.1	.1	.4	.6	.0	.0	.0	4.4
	11-21	.1	3.3	.2	.7	.3	.0	.7	.2	.0	.0	.0	5.5
	22+	.0	1.5	.1	.3	.0	.0	.1	.1	.0	.0	.0	2.1
	TOT %	.9	7.4	.9	1.0	.4	.1	1.2	1.1	.0	.0	.4	13.5
10+	0-3	.7	1.8	.6	.6	.1	.3	.3	1.2	.0	5.8	11.2	
	4-10	6.9	9.3	2.7	.7	1.0	.6	2.6	7.3	.0	.0	31.2	
	11-21	4.1	5.4	1.1	.7	.7	.4	2.6	7.6	.0	.0	22.6	
	22+	.3	.7	.0	.2	.1	.0	1.2	1.0	.0	.0	3.4	
	TOT %	12.0	17.3	4.4	2.2	1.9	1.3	6.6	17.1	.0	5.8	68.5	
TOT OBS												1447	
TOT PCT	13.8	36.5	8.8	4.3	2.5	1.8	8.2	19.2	.0	6.8	100.0		

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	3.0	5.9	3.0	4.6	14.4	69.2	305
00009	.8	3.3	1.8	4.9	8.9	40.5	129
12015	2.6	2.6	4.9	9.7	14.2	66.5	465
18021	4.0	5.8	3.4	6.3	13.3	67.2	555
TOT	4.4	6.6	3.1	10.0	19.5	99.2	1448
PCT	3.0	4.6	3.5	6.9	13.5	68.5	100.0

TABLE 13

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	45	41	39	30	19	10	6	28.7	305
00009	41	40	39	28	10	5	3	26.4	129
12015	42	39	37	29	13	6	2	27.5	465
18021	43	40	38	29	14	5	2	27.4	555
TOT	45	40	38	30	14	8	2	27.6	1448

FEBRUARY

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1963-1973

CAPE HINGCHIN BROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	M SIG WFA
N	1.1	.0	.0	.0	8.1	.0	.0	9.1	.0	.0	.0	.0	.0	.0	90.9
NE	12.6	.2	3.2	.5	27.8	.2	.0	43.6	.0	.0	3.6	.0	.0	.0	49.9
E	16.1	.0	6.3	.0	24.3	.8	.0	46.8	.0	.0	4.5	.0	.0	.0	48.7
SE	11.8	.0	7.6	.0	17.1	.0	.0	34.7	.0	.0	1.4	.0	.0	1.1	62.7
S	7.1	.0	.0	.0	15.1	.0	.0	22.2	.0	.0	8.7	.0	.0	.0	69.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	.0	.0	.0	96.6
W	.0	.0	1.1	.0	8.4	.0	.0	9.5	.0	.0	2.1	.0	.0	.0	88.4
NW	.5	.0	.9	.0	6.3	.0	.0	7.7	.0	.0	2.7	.0	.0	.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	10.8	.0	.0	10.8	.0	.0	.0	.0	.0	.0	89.2
TOT PCT	8.6	.1	3.0	.2	18.4	.2	.0	29.9	.0	.0	3.7	.0	.0	.4	66.0
TOT OBS:	1321														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	PRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	M SIG WFA
0000	8.9	.4	3.2	.0	17.1	.4	.0	29.2	.0	.0	2.8	.0	.0	.4	67.6
0600	12.4	.0	.0	.0	20.4	.0	.0	32.7	.0	.0	5.3	.0	.0	.0	61.9
1200	7.3	.0	4.3	.2	18.2	.2	.0	29.8	.0	.0	4.0	.0	.0	.5	65.7
1800	8.5	.0	2.6	.2	18.8	.2	.0	29.8	.0	.0	3.6	.0	.0	.4	66.3
TOT PCT	8.6	.1	3.0	.2	18.4	.2	.0	29.9	.0	.0	3.7	.0	.0	.4	66.0
TOT OBS:	1321														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)					48+	TOTAL DRS	PCT FREQ	MEAN SPD	00	03	06	HOUR (GMT)			
	0-3	4-10	11-21	22-33	34-47								09	12	15	18
N	1.2	6.5	2.6	.3	.0	.0	10.6	8.5	7.3	30.4	6.5	42.0	11.7	11.1	9.1	9.6
NE	1.3	10.0	16.1	5.5	.6	.0	33.5	14.8	30.7	4.5	49.1	8.9	40.1	25.6	36.7	33.2
E	1.2	5.5	8.0	3.7	1.1	.2	19.7	16.3	23.8	38.4	18.8	31.3	13.9	21.0	17.2	19.9
SE	.5	1.8	3.0	1.2	.3	.0	6.8	15.4	6.3	8.0	4.1	8.0	7.5	8.0	5.8	7.7
S	.4	.7	.7	.4	.1	.0	2.4	12.4	3.9	2.7	2.1	.0	2.2	.0	2.3	3.2
SW	.1	.3	.2	.0	.0	.0	.5	7.1	.5	3.6	2.4	.0	.5	.0	.2	.5
W	.4	2.4	2.3	.3	.0	.0	3.4	11.3	8.3	.0	11.5	.0	3.5	2.8	5.4	5.7
NW	1.1	11.6	5.5	.2	.0	.0	18.3	8.9	15.2	6.9	2.1	9.8	19.5	31.5	21.7	16.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	.0	.0	.0	.0	.0	2.8	.0	4.7	3.6	3.9	.0	1.2	.0	2.8	5.2
TOT OBS	119	511	307	154	28	2	1321	12.7	253	28	85	28	254	169	253	251
TOT PCT	9.0	38.7	38.4	11.7	2.1	.2	100.0	12.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DRS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	4.2	5.8	.5	.2	.0	10.6	8.5	9.6	15.3	11.5	9.3	
NE	4.7	16.9	9.4	2.3	.2	33.5	14.8	28.1	39.2	34.3	34.7	
E	3.2	8.1	5.2	2.9	.2	19.7	16.3	25.3	21.9	18.7	18.6	
SE	1.6	2.1	2.3	.8	.0	6.8	15.4	6.3	5.1	7.7	6.5	
S	.9	.9	.5	.2	.0	2.4	12.4	3.7	1.5	1.3	2.7	
SW	.3	.2	.0	.0	.0	.5	7.1	.8	1.8	.3	.3	
W	1.3	2.8	1.2	.1	.0	3.4	11.3	7.5	8.6	3.3	5.3	
NW	5.3	12.5	.6	.0	.0	18.3	8.9	14.6	4.0	24.3	18.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.8	.0	.0	.0	.0	2.8	.0	3.9	2.7	.7	4.0	
TOT OBS	319	652	259	83	6	1321	12.7	281	113	423	304	
TOT PCT	24.1	49.4	19.6	6.4	.5	100.0	12.7	100.0	100.0	100.0	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33				
0000	3.9	5.3	40.6	38.8	9.6	1.8	.0	12.0	281
0600	2.7	7.1	36.3	38.9	13.3	1.8	.0	13.2	113
1200	.7	6.1	40.2	39.5	11.8	1.7	.0	12.7	428
1800	4.0	6.3	38.9	37.1	18.3	2.8	.4	12.9	304
TOT	37	32	311	307	154	28	2	12.7	1321
PCT	2.8	6.2	38.7	38.4	11.7	2.1	.2	100.0	

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

FEBRUARY

CAPE HINGBROOK, AK
60.2N 146.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	3.6	1.9	.5	.1	.0	.1	.1	.0	.2	6.6	
	NO PCP	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.2	3.9	2.0	.5	.1	.0	.1	.1	.0	.2	7.3	
1/2<1	PCP	.1	3.9	2.0	.2	.1	.0	.2	.5	.0	.0	5.0	
	NO PCP	.0	.2	.1	.0	.1	.0	.1	.2	.0	.0	.6	
	TOT %	.1	3.1	2.0	.2	.1	.0	.2	.7	.0	.0	6.4	
1<2	PCP	.2	1.9	1.0	.4	.1	.0	.1	.2	.0	.0	3.8	
	NO PCP	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.2	2.4	1.2	.4	.1	.0	.1	.2	.0	.0	4.5	
2<5	PCP	.2	4.1	2.3	.5	.1	.0	.1	.6	.0	.1	8.0	
	NO PCP	.0	1.1	.5	.2	.0	.0	.1	.2	.0	.0	2.0	
	TOT %	.2	5.3	2.7	.7	.1	.0	.1	.8	.0	.1	10.1	
5<10	PCP	.2	1.8	2.0	.4	.2	.0	.2	.2	.0	.0	5.2	
	NO PCP	.7	3.4	2.1	1.4	.8	.0	.3	1.9	.0	.2	12.3	
	TOT %	.9	7.2	4.2	2.0	.9	.0	.4	2.1	.0	.2	17.5	
10+	PCP	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	9.9	11.3	7.3	2.9	1.3	.9	4.5	14.4	.0	2.3	33.7	
	TOT %	8.9	11.6	7.3	3.1	1.3	.9	4.5	14.4	.0	2.3	34.2	
TOT OBS												1320	
TOT PCT		10.0	33.6	19.7	6.8	2.6	.5	5.4	18.3	.0	2.8	100.0	

TABLE 9

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

VSPY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.2	.0	.2	.0	.1	.0	.0	.2	.8	
	4-10	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.1	1.7	.7	.3	.0	.0	.0	.1	.0	.0	3.0	
	22+	.0	2.0	1.1	.2	.1	.0	.0	.0	.0	.0	3.3	
	TOT %	.2	3.9	2.0	.5	.2	.0	.1	.1	.0	.0	7.3	
1/2<1	0-3	.0	.0	.2	.0	.1	.0	.1	.1	.0	.0	.4	
	4-10	.1	.3	.3	.1	.0	.0	.1	.3	.0	.0	1.4	
	11-21	.0	2.0	.5	.0	.0	.0	.1	.1	.0	.0	2.7	
	22+	.0	.7	1.1	.1	.0	.0	.1	.0	.0	.0	2.0	
	TOT %	.1	3.1	2.0	.2	.1	.0	.2	.6	.0	.0	6.4	
1<2	0-3	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.2	
	4-10	.0	.5	.2	.0	.0	.0	.0	.1	.0	.0	.8	
	11-21	.1	1.1	.5	.2	.0	.0	.0	.1	.0	.0	1.9	
	22+	.0	.7	.5	.2	.1	.0	.0	.0	.0	.0	1.3	
	TOT %	.2	2.4	1.2	.4	.1	.0	.1	.2	.0	.0	4.5	
2<5	0-3	.0	.2	.1	.1	.0	.0	.0	.1	.0	.1	.5	
	4-10	.1	1.2	.5	.2	.1	.0	.1	.3	.0	.0	2.7	
	11-21	.1	2.5	1.0	.2	.0	.0	.0	.2	.0	.0	3.9	
	22+	.1	1.5	1.2	.2	.1	.0	.0	.0	.0	.0	3.0	
	TOT %	.2	5.3	2.7	.6	.1	.0	.1	.9	.0	.1	10.1	
5<10	0-3	.0	.2	.0	.1	.0	.0	.1	.1	.0	.2	.6	
	4-10	.8	2.4	1.0	.3	.2	.0	.2	1.2	.0	.0	6.1	
	11-21	.2	3.9	2.2	1.2	.1	.0	.1	.8	.0	.0	8.3	
	22+	.0	.8	1.0	.4	.2	.0	.0	.1	.0	.0	2.3	
	TOT %	.9	7.2	4.2	2.0	.5	.0	.4	2.1	.0	.2	17.5	
10+	0-3	1.1	.9	.8	.3	.2	.1	.1	.8	.0	.2	6.6	
	4-10	5.5	5.5	3.4	1.2	.5	.3	2.0	9.2	.0	.0	27.4	
	11-21	2.2	4.8	3.2	1.1	.5	.2	2.2	4.2	.0	.0	18.4	
	22+	.2	.5	.1	.5	.1	.0	.2	.2	.0	.0	1.8	
	TOT %	8.9	11.6	7.5	3.1	1.3	.5	4.5	14.4	.0	.2	34.2	
TOT OBS												1320	
TOT PCT		10.0	33.6	19.7	6.8	2.4	.5	5.4	18.3	.0	2.8	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
0000Z	7.1	7.1	3.4	8.2	17.8	36.2	281
0600Z	1.8	4.4	3.3	10.6	22.1	33.8	113
1201Z	7.8	7.1	3.7	9.7	17.7	32.0	423
1802Z	8.2	6.0	3.8	11.3	16.1	34.7	503
TOT	96	85	38	133	231	716	1320
PCT	7.3	6.4	4.5	10.1	17.3	34.2	100.0

TABLE 13

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	48	43	40	34	23	16	13	32.6	281
0600Z	45	42	39	33	20	15	13	31.5	113
1201Z	42	40	39	32	19	13	8	30.6	423
1802Z	47	41	39	33	21	15	11	31.8	503
TOT	48	41	39	33	20	15	8	31.6	1321

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1969-1973

MARCH

CAPE MICHMINBROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	2.2	.0	.0	.0	8.5	.0	.0	10.7	.0	.0	2.8	.0	.0	.0	86.6
NE	11.0	.0	3.3	.0	25.4	1.6	.0	40.5	.0	.0	5.4	.0	.0	.0	54.1
E	14.9	.0	2.1	.3	32.2	1.7	.0	50.7	.0	.0	7.4	.0	.0	.0	41.9
SE	11.9	.0	3.0	.0	11.2	.7	.0	28.1	.0	.0	4.1	.0	.0	.0	67.8
S	2.9	.0	.0	.0	10.2	.0	2.0	15.1	.0	.0	3.4	.0	.0	.0	81.5
SW	.0	.0	5.6	.0	8.5	.0	.0	14.1	.0	.0	.0	.0	.0	.0	85.9
W	.0	.0	.9	.0	3.3	.0	.0	4.1	.0	.0	2.4	.0	.0	.0	93.5
NW	.0	.0	.5	.0	10.2	.5	.0	11.2	.0	.0	.4	.0	.9	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	21.4	1.8	.0	23.2	.0	.0	.0	.0	.0	.0	76.8
TOT PCT	8.0	.0	2.1	.1	19.3	1.0	.1	30.1	.0	.0	4.2	.0	.1	.0	65.6
TOT OBS:	1445														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FREN PCPN	MAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
0000	9.5	.0	2.6	.3	16.7	.0	.3	29.1	.0	.0	3.9	.0	.0	.0	67.0
0600	8.3	.0	.0	.0	25.6	.8	.0	39.9	.0	.0	1.7	.0	.0	.0	64.3
1200	8.4	.0	1.9	.0	19.0	2.2	.0	30.9	.0	.0	5.2	.0	.0	.0	63.9
1800	6.7	.0	2.3	.0	19.6	.7	.0	29.2	.0	.0	4.1	.0	.2	.0	66.5
TOT PCT	8.0	.0	2.1	.1	19.3	1.0	.1	30.1	.0	.0	4.2	.0	.1	.0	65.6
TOT OBS:	1445														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	1.2	5.8	1.7	.1	.0	.0	8.7	7.3	5.4	8.1	8.9	10.5	10.6	11.1	10.7	6.1
NE	1.3	9.3	11.8	1.0	.0	.0	29.9	13.3	22.3	5.4	24.4	10.5	39.0	31.2	26.4	22.3
E	.7	7.7	10.1	4.4	1.1	.2	24.3	15.6	23.8	46.8	23.9	46.8	21.9	25.7	22.3	23.2
SE	.7	3.0	4.9	1.3	.1	.0	10.0	13.6	12.7	12.9	9.8	9.7	7.7	9.3	8.0	13.9
S	.2	1.3	1.8	.2	.0	.0	3.5	11.1	3.6	8.9	2.8	10.5	8.1	2.4	3.9	3.1
SW	.2	.9	.1	.0	.0	.0	1.2	5.3	2.3	3.2	1.4	.0	1.0	.7	.5	1.9
W	.4	4.4	2.9	.6	.2	.0	8.0	11.3	10.9	.0	19.6	.0	7.4	1.5	6.7	9.5
NW	1.2	7.5	5.3	.4	.0	.0	14.4	9.6	16.0	14.5	2.5	12.1	12.4	17.6	16.3	14.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9	.0	.0	.0	.0	.0	3.9	.0	2.5	.0	10.0	.0	2.9	.5	3.0	6.1
TOT OBS	144	576	549	144	28	3	1446		279	31	90	31	278	185	278	274
TOT PCT	10.0	40.0	38.0	10.0	1.9	.2	100.0	12.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	18
N	4.3	4.4	.0	.1	.0	8.7	7.3	6.0	9.3	10.8	8.4			
NE	5.2	13.4	6.0	1.1	.1	29.9	13.3	20.6	22.3	32.3	24.4			
E	3.8	11.1	6.5	2.5	.3	24.3	15.6	26.1	29.8	23.4	22.8			
SE	2.2	6.5	2.9	.4	.0	10.0	13.6	12.7	6.6	8.4	10.7			
S	.9	2.2	.4	.0	.0	3.5	11.1	4.2	6.8	2.9	3.5			
SW	.9	.3	.0	.0	.0	1.2	5.3	1.2	1.0	.9	.9			
W	2.1	4.2	1.2	.4	.0	8.0	11.3	9.8	13.8	5.0	8.1			
NW	4.2	8.5	1.7	.0	.0	14.4	9.6	15.8	5.0	14.3	15.6			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.9	.0	.0	.0	.0	3.9	.0	2.3	7.4	1.9	5.6			
TOT OBS	399	703	273	64	7	1446		306	121	463	336			
TOT PCT	27.6	48.6	18.9	4.4	.3	100.0	12.0	100.0	100.0	100.0	100.0			

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)						TOTAL OBS
	CALM	1-3	4-10	11-21	22-33	34-47	
0000	2.3	3.3	40.5	43.1	8.2	1.6	306
0600	7.4	1.7	38.0	36.4	13.2	1.7	121
1200	1.9	5.8	42.8	37.8	9.1	2.4	463
1800	3.6	8.6	37.8	35.6	10.4	1.8	336
TOT	9.8	8.9	39.8	34.9	14.4	2.8	1446
PCT	3.9	6.1	40.0	38.0	10.0	1.9	100.0

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1967-1973

MARCH

CAPE WINCHINBROOK, AK
40.2N 146.7W

TABLE 8

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

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.3	2.7	3.3	.8	.1	.0	.1	.3	.0	.0	.0	7.7
	NO PCP	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.3	2.9	3.4	.8	.2	.0	.1	.3	.0	.0	.0	8.1
1/2<1	PCP	.1	1.6	2.6	.5	.2	.0	.1	.8	.0	.0	.0	3.9
	NO PCP	.1	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.2	1.8	2.9	.6	.2	.0	.1	.8	.0	.0	.0	4.6
1<2	PCP	.2	.9	1.2	.2	.0	.0	.1	.1	.0	.2	.2	2.9
	NO PCP	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	.2	1.1	1.4	.4	.0	.0	.1	.1	.0	.2	.2	3.4
2<5	PCP	.1	4.2	2.9	.7	.1	.0	.0	.1	.0	.0	.0	7.0
	NO PCP	.2	.6	1.2	.1	.1	.0	.2	.1	.0	.0	.0	2.4
	TOT %	.3	4.8	4.0	.8	.2	.0	.2	.2	.0	.0	.0	9.3
5<10	PCP	.2	2.0	1.9	.6	.1	.2	.1	.2	.0	.0	.3	3.6
	NO PCP	.5	3.9	3.4	2.0	.8	.1	.4	1.2	.0	.0	.2	11.9
	TOT %	.7	5.9	5.2	2.6	.9	.2	.6	1.4	.0	.0	.5	17.0
10+	PCP	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.2	.8
	NO PCP	7.0	10.3	7.0	4.9	2.8	.9	7.1	11.0	.0	.0	3.0	34.1
	TOT %	7.0	10.5	7.1	4.9	2.8	.9	7.1	11.0	.0	.0	3.0	34.9
TOT OBS													1434
TOT PCT		8.7	24.0	24.1	10.0	3.6	1.2	8.0	14.5	.0	3.9	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.2	.4	.4	.1	.1	.0	.0	.2	.0	.0	1.4	1.4
	11-21	.1	1.4	1.6	.8	.0	.0	.1	.3	.0	.0	4.0	4.0
	22+	.0	.0	1.2	1.3	.1	.0	.0	.0	.0	.0	2.6	2.6
	TOT %	.3	2.9	3.4	.8	.1	.0	.1	.3	.0	.0	8.1	8.1
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.1	.0	.0	.3	.3
	4-10	.1	.5	.4	.1	.1	.0	.1	.5	.0	.0	1.7	1.7
	11-21	.1	.7	1.6	.2	.1	.0	.0	.3	.0	.0	3.0	3.0
	22+	.0	.6	.8	.1	.1	.0	.0	.0	.0	.0	1.5	1.5
	TOT %	.2	1.8	2.9	.6	.2	.0	.1	.8	.0	.0	6.6	6.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2
	4-10	.0	.3	.2	.1	.0	.0	.1	.1	.0	.0	.7	.7
	11-21	.1	.5	.7	.0	.0	.0	.0	.0	.0	.0	1.3	1.3
	22+	.1	.3	.6	.3	.0	.0	.0	.0	.0	.0	1.2	1.2
	TOT %	.2	1.1	1.4	.4	.0	.0	.1	.1	.0	.0	3.4	3.4
2<5	0-3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	4-10	.1	.9	.9	.1	.0	.0	.2	.1	.0	.0	2.2	2.2
	11-21	.0	2.3	1.8	.6	.1	.0	.0	.1	.0	.0	4.8	4.8
	22+	.0	.6	1.4	.1	.1	.0	.0	.0	.0	.0	2.2	2.2
	TOT %	.3	3.6	4.0	.8	.2	.0	.2	.2	.0	.0	9.3	9.3
5<10	0-3	.0	.2	.2	.0	.1	.1	.1	.2	.0	.0	1.5	1.5
	4-10	.4	1.5	1.5	.4	.1	.2	.7	.7	.0	.0	4.9	4.9
	11-21	.3	3.6	2.2	1.8	.1	.0	.2	.3	.0	.0	8.7	8.7
	22+	.0	.7	1.3	.4	.1	.0	.0	.0	.0	.0	2.4	2.4
	TOT %	.7	5.9	5.2	2.6	.3	.2	.6	1.4	.0	.0	17.6	17.6
10+	0-3	1.0	1.0	.4	.5	.1	.4	1.0	.0	.0	3.0	7.5	7.5
	4-10	3.1	3.8	4.4	2.2	1.1	.8	3.8	6.1	.0	.0	23.3	23.3
	11-21	.9	3.4	2.0	1.8	1.5	.1	2.1	4.2	.0	.0	13.9	13.9
	22+	.0	.3	.3	.4	.1	.0	.0	.4	.0	.0	2.2	2.2
	TOT %	7.0	10.5	7.1	4.9	2.8	.9	7.1	11.0	.0	.0	34.0	34.0
TOT OBS												1434	
TOT PCT		8.7	26.0	24.1	10.0	3.6	1.2	8.0	14.5	.0	3.9	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	7.9	0.9	3.0	9.6	16.2	36.4	303
0600Z	1.4	3.9	2.5	9.2	20.2	38.8	119
1201Z	9.3	6.7	3.9	10.0	18.5	31.5	400
1802Z	8.2	6.3	3.4	9.1	17.0	36.0	332
TOT	11.6	9.4	6.9	13.6	23.2	78.7	1434
PCT	8.1	6.6	3.4	9.5	17.0	34.9	100.0

TABLE 13

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	48	44	41	34	29	16	11	34.3	306
0600Z	42	41	39	32	18	10	5	31.1	181
1201Z	43	41	38	33	21	12	4	31.7	403
1802Z	48	43	40	34	22	12	0	33.2	336
TOT	48	42	40	34	22	12	4	32.8	1440

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1965-1973

APRIL

CAPE HINCINBROOK, AK
60.2N 148.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.3	.0	.0	.0	11.7	.0	.0	14.1	.0	.0	1.2	.0	.0	.0	84.8
NE	14.8	.0	2.4	.0	20.2	.0	.0	37.8	.0	.0	4.7	.0	.0	.0	56.5
E	14.0	.0	2.5	.0	22.4	.0	.0	38.5	.0	.0	4.1	.0	.0	1.1	56.0
SE	20.9	.0	4.1	.0	13.4	.3	.0	38.8	.0	.0	3.9	.0	.0	.0	57.3
S	4.3	.0	.0	.0	6.0	.0	.0	10.2	.0	.0	.0	.0	.0	.0	89.8
SW	.0	.0	.0	.0	9.8	.0	.0	9.8	.0	.0	.0	.0	.0	.0	90.2
W	.0	.0	.0	.0	8.4	.0	.0	8.4	.0	.0	.0	.0	.0	.0	91.6
NW	.4	.0	.4	.0	2.0	.0	.0	2.9	.0	.0	1.2	.0	.0	.0	95.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	11.4	.0	.0	11.4	.0	.0	9.1	.0	.0	.0	79.5
TOT PCT	9.7	.0	1.7	.0	14.4	.4	.0	25.9	.0	.0	3.2	.0	.1	.5	70.4
TOT OBS:	1388														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	8.9	.0	3.4	.0	16.1	.0	.0	28.4	.0	.0	2.7	.0	.0	.3	86.2
0600	6.8	.0	.9	.0	18.8	.0	.0	29.6	.0	.0	1.7	.0	.0	.3	71.8
1200	10.4	.0	1.6	.0	12.9	.9	.0	25.6	.0	.0	4.0	.0	.0	.0	70.4
1800	10.1	.0	1.1	.0	13.8	.2	.0	24.6	.0	.0	3.0	.0	.0	.9	71.5
TOT PCT	9.7	.0	1.7	.0	14.4	.4	.0	25.8	.0	.0	3.2	.0	.1	.5	70.5
TOT OBS:	1395														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.8	2.3	1.5	.1	.0	.0	4.7	8.3	1.4	6.0	2.0	17.9	9.0	7.3	4.2	1.5
NE	1.5	8.2	10.9	2.9	.3	.0	23.5	13.3	21.7	3.4	33.3	6.3	27.5	26.8	22.6	27.0
E	.7	8.3	10.8	4.9	1.2	.1	26.0	15.8	26.9	36.2	15.9	46.4	25.2	25.3	24.4	28.3
SE	.6	3.8	4.0	1.8	.4	.0	10.6	14.4	13.1	36.2	2.0	13.4	7.7	7.5	9.1	14.3
S	.4	2.7	1.1	.1	.0	.0	4.2	8.2	4.2	6.9	7.1	6.3	3.5	4.2	3.9	3.9
SW	.5	1.3	.2	.0	.0	.0	1.7	7.2	1.9	.0	2.3	3.6	.9	.7	1.2	3.0
W	.5	4.6	3.4	.1	.0	.0	8.5	9.5	12.9	.0	17.9	.0	4.1	1.1	9.2	11.8
NW	.9	8.7	7.5	1.4	.0	.0	17.6	10.7	16.2	11.2	10.3	6.3	16.9	24.3	21.3	15.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	3.2	1.5	.0	6.8	.0	3.2	2.8	4.1	1.3
TOT OBS	119	553	547	142	26	2	1389	12.3	201	29	88	28	270	179	269	283
TOT PCT	8.6	39.8	39.4	10.2	1.9	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+				00	03	06	09	12	15	18
N	1.6	2.7	.3	.0	.0	4.7	8.3	1.4	6.0	2.0	17.9	9.0	7.3	4.2	1.5
NE	4.1	13.1	5.5	.9	.0	23.5	13.3	21.7	3.4	33.3	6.3	27.5	26.8	22.6	27.0
E	3.9	12.3	6.4	3.1	.4	26.0	15.8	26.9	36.2	15.9	46.4	25.2	25.3	24.4	28.3
SE	2.1	5.0	2.3	1.1	.1	10.6	14.4	13.1	36.2	2.0	13.4	7.7	7.5	9.1	14.3
S	2.0	2.1	.1	.1	.0	4.2	8.2	4.2	6.9	7.1	6.3	3.5	4.2	3.9	3.9
SW	.7	1.0	.0	.0	.0	1.7	7.2	1.9	.0	2.3	3.6	.9	.7	1.2	3.0
W	2.0	6.0	.6	.0	.0	8.5	9.5	12.9	.0	17.9	.0	4.1	1.1	9.2	11.8
NW	3.5	12.0	2.0	.1	.0	17.6	10.7	16.2	11.2	10.3	6.3	16.9	24.3	21.3	15.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2					3.2	3.2	1.5	.0	6.8	.0	3.2	2.8	4.1	1.3
TOT OBS	120	753	537	72	7	1389	12.3	201	29	88	28	270	179	269	283
TOT PCT	23.0	54.2	17.1	5.2	.5	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	
0000	1.4	4.8	42.4	38.6	11.7	1.0	290
0600	3.2	3.4	41.4	35.3	12.9	.9	116
1200	4.2	5.3	37.9	42.3	8.5	1.6	449
1800	2.8	6.2	39.7	38.2	10.3	2.8	534
TOT	44	73	553	547	142	24	1389
PCT	3.2	5.4	39.8	39.4	10.2	1.9	100.0

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1965-1973

APRIL

GAPE HINGHNBROOK, AK
60.2N 146.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	2.9	3.1	.4	.1	.0	.1	.1	.0	.1	6.9	
	NO PCP	.0	.1	.1	.1	.0	.0	.0	.1	.0	.1	.4	
	TOT %	.2	3.0	3.2	.5	.1	.0	.1	.2	.0	.2	7.4	
1/2<1	PCP	.1	1.3	2.4	.6	.0	.1	.3	.0	.0	.1	4.9	
	NO PCP	.0	.1	.3	.0	.0	.0	.1	.0	.0	.1	.8	
	TOT %	.1	1.5	2.9	.6	.0	.1	.3	.1	.0	.1	5.7	
1<2	PCP	.1	.7	.8	.6	.1	.0	.1	.1	.0	.0	2.4	
	NO PCP	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.9	1.1	.6	.1	.0	.1	.1	.0	.0	2.9	
2<5	PCP	.3	1.8	1.9	1.9	.1	.0	.1	.1	.0	.1	6.2	
	NO PCP	.1	.8	.3	.3	.0	.0	.0	.0	.0	.1	1.7	
	TOT %	.3	2.6	2.4	2.1	.1	.0	.1	.1	.0	.1	7.9	
5<10	PCP	.1	2.1	1.2	.9	.3	.1	.1	.1	.0	.1	4.8	
	NO PCP	.5	4.7	3.7	1.7	.2	.1	.1	1.4	.0	.3	12.8	
	TOT %	.7	6.8	4.9	2.4	.5	.1	.3	1.5	.0	.4	17.6	
10+	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	3.4	8.9	10.9	4.4	3.8	1.4	7.8	15.7	.0	2.3	58.6	
	TOT %	3.4	8.9	11.0	4.5	3.8	1.4	7.8	15.7	.0	2.3	58.6	
TOT OBS		4.7	23.6	25.6	10.7	4.3	1.7	8.6	17.6	.0	3.2	137.6	
TOT PCT											100.0		

TABLE 9

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

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	.4	
	4-10	.1	.6	.1	.1	.0	.0	.0	.0	.0	.0	.9	
	11-21	.1	1.7	1.4	.2	.1	.0	.0	.2	.0	.0	3.3	
	22+	.0	.7	1.7	.1	.0	.0	.0	.0	.0	.0	2.5	
	TOT %	.2	3.0	3.2	.5	.1	.0	.1	.2	.0	.2	7.4	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
	4-10	.1	.3	.2	.1	.0	.1	.1	.1	.0	.0	.9	
	11-21	.0	.7	1.2	.1	.0	.0	.1	.0	.0	.0	2.0	
	22+	.0	.6	1.3	.4	.0	.0	.0	.0	.0	.0	2.3	
	TOT %	.1	1.5	2.9	.6	.0	.1	.2	.1	.0	.1	5.7	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.0	.0	.1	.0	.1	.1	.0	.0	.6	
	11-21	.1	.7	.7	.3	.0	.0	.0	.0	.0	.0	1.7	
	22+	.0	.1	.4	.3	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.1	.9	1.1	.6	.1	.0	.1	.1	.0	.0	2.9	
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.4	
	4-10	.0	.3	.3	.2	.1	.0	.1	.1	.0	.0	1.3	
	11-21	.3	1.5	.9	.8	.0	.0	.0	.0	.0	.0	3.5	
	22+	.1	.4	1.1	1.1	.0	.0	.0	.0	.0	.0	2.7	
	TOT %	.3	2.6	2.4	2.1	.1	.0	.1	.1	.0	.1	7.9	
5<10	0-3	.1	.1	.3	.0	.0	.1	.0	.1	.0	.4	1.0	
	4-10	.3	2.4	1.9	1.0	.1	.0	.1	.9	.0	.0	6.9	
	11-21	.1	3.0	1.9	1.3	.3	.1	.1	.6	.0	.0	7.4	
	22+	.0	1.3	.8	.1	.0	.0	.0	.0	.0	.0	2.3	
	TOT %	.7	6.8	4.9	2.4	.5	.1	.3	1.5	.0	.4	17.6	
10+	0-3	.7	1.1	.4	.5	.4	.1	.3	.9	.0	2.3	6.6	
	4-10	1.6	4.4	5.8	2.4	2.5	1.2	4.2	7.7	.0	29.8	29.8	
	11-21	1.0	3.4	4.3	1.5	.7	.1	3.2	6.7	.0	20.9	20.9	
	22+	.0	.1	.5	.1	.1	.0	.1	.5	.0	.0	1.3	
	TOT %	3.4	8.9	11.0	4.5	3.8	1.4	7.8	15.7	.0	2.3	58.6	
TOT OBS		4.7	23.6	25.6	10.7	4.3	1.7	8.6	17.6	.0	3.2	137.6	
TOT PCT											100.0		

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0603	9.3	8.5	4.5	7.3	14.5	60.9	289
0630	6.0	3.4	2.6	10.3	12.8	85.0	117
12015	6.1	6.1	2.7	8.6	22.7	53.8	444
18021	7.4	7.2	3.5	7.0	15.8	60.3	531
TOT	101	79	40	108	242	811	1381
PCT	7.3	5.7	2.9	7.8	17.5	58.7	100.0

TABLE 13

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0603	60	53	46	34	32	29	27	38.6	292
0630	48	40	39	34	29	25	23	34.3	117
12015	50	47	41	29	26	25	23	35.3	444
18021	63	50	45	37	31	28	26	37.7	531
TOT	63	50	45	36	31	26	23	36.8	1396

PERIOD (PRIMARY) 1961-1973
(OVERALL) 1961-1973

MAY

CAPE MICHIGAN BROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	DMFR FRZN PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	3.5	.0	3.5	.0	.0	.0	.0	7.1	.0	.0	1.3	.0	.0	.0	91.6
NE	19.0	.0	3.5	.0	3.8	.4	.1	46.5	.0	.0	2.3	.0	.0	.0	51.2
E	36.3	1.0	4.1	.0	2.5	.0	.4	43.3	.0	.0	2.9	.0	.0	.0	43.8
SE	27.7	.1	4.7	.0	1.6	.0	.0	33.4	.0	.0	6.4	.0	.0	.0	60.1
S	15.0	.0	3.1	.0	.8	.0	.0	18.9	.0	.0	4.2	.0	.0	.0	76.9
SW	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	1.8	.0	.0	.0	96.0
W	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	6.2	.0	.0	.0	92.9
NW	2.5	.0	.2	.0	1.5	.0	.0	4.2	.0	.0	3.6	.0	.0	.0	92.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7	.0	3.4	.0	.0	.0	.0	3.2	.0	.0	3.2	.0	.0	.0	89.7
TOT PCT	24.6	.3	3.2	.0	1.9	.1	.1	29.9	.0	.0	3.5	.0	.0	.0	66.6
TOT OBS:	1445														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	DMFR FRZN PCPN	HAUL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG MD PCPN	FOG MD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
0000	23.8	.3	2.9	.0	1.3	.0	.0	27.7	.0	.0	2.0	.0	.0	.0	70.4
0609	24.6	.8	2.5	.0	.0	.0	.0	28.0	.0	.0	2.3	.0	.0	.0	69.5
12015	24.6	.4	1.9	.0	1.9	.2	.4	28.9	.0	.0	4.3	.0	.0	.0	66.8
18021	25.2	.2	4.5	.0	2.7	.0	.0	32.4	.0	.0	4.0	.0	.0	.0	63.7
TOT PCT	24.6	.3	3.2	.0	1.9	.1	.1	29.9	.0	.0	3.5	.0	.0	.0	66.6
TOT OBS:	1445														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.4	3.3	.7	.0	.0	.0	5.4	6.1	.4	8.9	1.1	3.3	8.9	14.4	4.1	3.7	
NE	1.3	6.5	7.6	2.2	.6	.0	18.1	13.5	16.1	4.9	29.3	13.3	22.2	16.8	18.3	15.1	
E	1.4	12.3	14.0	4.9	1.7	.2	34.5	14.9	34.4	32.4	38.4	40.8	26.9	31.7	34.8	39.7	
SE	1.1	5.6	3.6	1.9	.3	.1	12.6	12.4	14.9	26.6	7.1	37.5	10.7	10.1	11.1	13.7	
S	2.1	3.6	.7	.1	.0	.0	6.6	5.7	7.7	.0	5.1	5.0	6.9	5.4	5.8	4.1	
SW	1.1	2.7	.2	.0	.0	.0	3.9	5.6	8.4	6.9	1.7	.0	1.1	1.6	2.2	6.4	
W	.7	4.4	.7	.0	.0	.0	5.8	7.0	7.3	.0	8.5	.0	4.4	3.2	7.0	6.8	
NW	1.1	4.5	3.1	.1	.0	.0	9.1	9.2	7.9	.8	1.7	.0	13.1	13.0	10.8	6.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.0	.0	.0	.0	.0	.0	4.0	.0	2.9	.0	6.8	.0	5.8	3.8	5.8	1.8	
TOT OBS	204	625	443	134	37	4	1447	11.4	277	31	88	30	278	186	278	279	
TOT PCT	14.1	43.2	30.6	9.5	2.6	.3	100.0	11.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	
N	3.4	1.8	.1	.0	.0	5.4	6.1	1.4	1.7	11.1	3.5		
NE	4.0	8.7	3.8	1.5	.1	18.1	13.5	14.9	25.4	20.0	16.7		
E	4.5	19.1	7.0	3.4	.5	34.5	14.9	36.2	39.0	28.8	37.3		
SE	3.7	5.7	2.2	.9	.1	12.6	12.8	16.1	14.8	10.5	12.0		
S	4.8	1.5	.3	.0	.0	6.6	5.7	6.9	3.1	6.3	7.0		
SW	2.6	1.3	.1	.0	.0	3.9	5.6	8.2	1.3	1.3	4.3		
W	2.8	3.1	.0	.0	.0	5.8	7.0	6.6	6.4	3.9	6.9		
NW	2.7	6.2	.1	.1	.0	9.1	9.2	7.1	1.3	13.1	8.5		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	4.0	.0	.0	.0	.0	4.0	.0	2.6	5.1	5.0	3.8		
TOT OBS	409	684	197	87	10	1447	11.4	308	118	464	557		
TOT PCT	32.4	47.3	13.6	6.0	.7	100.0	11.4	100.0	100.0	100.0	100.0		

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	
		1-3	4-10	11-21	22-33	34-47				
0000	2.6	6.2	47.1	32.1	9.7	1.9	.3	11.7	100.0	308
0609	5.1	8.5	37.3	31.4	16.4	2.5	.8	12.7	100.0	118
12015	3.0	12.4	25.8	33.4	7.5	1.9	.0	10.7	100.0	464
18021	3.8	9.9	46.0	27.3	9.3	3.4	.4	11.4	100.0	557
TOT	58	146	625	443	134	37	.4	11.4	100.0	1447
PCT	4.0	10.1	43.2	30.6	9.5	2.6	.3	100.0		

PERIOD (PRIMARY) 1966-1973
(OVER-ALL) 1965-1973

MAY

CAPE HINGHAM BROOK, AK
60.2N 146.7W

TABLE 8

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

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	1.2	.3	.1	.0	.0	.0	.0	.0	2.2	
	NO PCP	.0	.0	.2	.2	.0	.0	.1	.1	.0	.1	.8	
	TOT %	.0	.0	1.4	.5	.1	.0	.1	.1	.0	.1	3.0	
1/2<1	PCP	.0	1.0	2.3	.8	.1	.0	.0	.0	.0	.0	4.1	
	NO PCP	.0	.0	.1	.1	.1	.1	.1	.2	.0	.1	.6	
	TOT %	.0	1.0	2.4	.9	.1	.1	.1	.2	.0	.1	4.7	
1<2	PCP	.0	.8	1.2	.6	.1	.0	.0	.1	.0	.0	2.6	
	NO PCP	.0	.0	.1	.8	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.8	1.4	.5	.1	.0	.0	.1	.0	.0	2.7	
2<5	PCP	.1	1.4	3.0	1.0	.3	.0	.0	.1	.0	.1	5.9	
	NO PCP	.1	.3	.5	.5	.1	.0	.2	.1	.0	.0	1.7	
	TOT %	.2	1.7	3.4	1.5	.4	.0	.2	.2	.0	.1	7.6	
5<10	PCP	.2	3.8	6.2	1.4	.5	.0	.2	.2	.0	.1	12.5	
	NO PCP	.3	2.8	3.9	1.9	1.3	.2	.2	.9	.0	.2	13.8	
	TOT %	.6	6.6	12.1	3.3	1.8	.2	.2	1.1	.0	.3	26.3	
10+	PCP	.1	.9	1.2	.3	.2	.1	.1	.8	.0	.1	2.9	
	NO PCP	4.4	6.6	12.3	5.5	3.8	3.6	3.3	7.5	.0	3.6	52.7	
	TOT %	4.5	7.5	13.7	5.8	4.1	3.6	3.3	7.6	.0	3.7	55.6	
TOT OBS												1435	
TOT PCT		5.3	18.2	34.4	12.4	6.6	4.0	5.9	9.2	.0	4.0	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.1	.3	.2	.1	.0	.1	.1	.0	.0	1.0	
	11-21	.0	.3	.5	.2	.1	.0	.0	.0	.0	.0	1.1	
	22+	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.5	1.4	.5	.1	.0	.1	.1	.1	.0	3.0	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.2	
	4-10	.0	.0	.3	.2	.1	.1	.1	.1	.0	.0	.8	
	11-21	.0	.6	1.0	.2	.0	.0	.0	.0	.0	.0	1.9	
	22+	.0	.3	1.1	.5	.0	.0	.0	.0	.0	.0	1.9	
	TOT %	.0	1.0	2.4	.9	.1	.1	.1	.1	.2	.0	4.7	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.3	.7	.1	.0	.0	.0	.1	.0	.0	1.2	
	22+	.0	.3	.3	.3	.1	.0	.0	.0	.0	.0	1.3	
	TOT %	.0	.6	1.4	.5	.1	.0	.0	.1	.0	.0	2.7	
2<5	0-3	.1	.0	.0	.0	.1	.0	.1	.0	.0	.1	.3	
	4-10	.1	.2	.6	.4	.1	.0	.1	.1	.0	.1	1.6	
	11-21	.0	1.0	1.6	.9	.1	.0	.0	.0	.0	.0	3.3	
	22+	.0	.5	1.3	.6	.1	.0	.0	.0	.0	.0	2.4	
	TOT %	.2	1.7	3.4	1.5	.4	.0	.2	.2	.0	.1	7.6	
5<10	0-3	.1	.3	.3	.2	.4	.0	.1	.4	.0	.3	2.1	
	4-10	.3	2.0	3.6	1.1	1.1	.2	.1	.6	.0	.0	9.2	
	11-21	.1	2.0	3.0	1.2	.3	.0	.0	.1	.0	.0	9.8	
	22+	.0	1.3	3.2	.7	.0	.0	.0	.0	.0	.0	5.3	
	TOT %	.6	6.6	12.1	3.3	1.8	.2	.2	1.1	.0	.3	26.3	
10+	0-3	1.1	1.0	.8	.7	1.6	1.1	.3	.6	.0	3.3	11.1	
	4-10	2.8	4.2	7.2	3.5	2.3	2.4	4.1	3.9	.0	3.0	30.2	
	11-21	.6	2.3	5.3	1.4	.2	.2	.7	2.8	.0	.0	13.6	
	22+	.0	.0	.3	.2	.0	.0	.0	.1	.0	.0	.7	
	TOT %	4.5	7.5	13.7	5.8	4.1	3.6	3.3	7.0	.0	3.7	55.6	
TOT OBS												1435	
TOT PCT		5.3	18.2	34.4	12.4	6.6	4.0	5.9	9.2	.0	4.0	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

MDUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	1.3	4.3	2.4	7.9	26.9	57.0	305
0600Z	.9	2.6	3.4	3.4	23.0	64.7	116
1200Z	3.3	4.8	2.2	6.9	27.1	53.6	461
1800Z	4.0	3.4	3.1	7.2	23.7	54.6	333
TOT	9.3	15.1	11.5	36.5	107.5	229.9	1435
PCT	5.0	8.7	7.7	25.3	59.6	100.0	

TABLE 13

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

MDUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	68	60	54	44	37	34	33	44.5	305
0600Z	53	52	47	40	33	33	33	40.9	116
1200Z	59	53	48	40	34	33	30	40.8	461
1800Z	66	57	52	43	36	34	33	43.4	333
TOT	68	57	51	42	35	33	30	42.0	1447

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

JUNE

CAPF HILCHENBRINK, AK
NO. 2N 140.7-

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG MO PCPN	FGG MO PCPN PAST HR	SMOKE HAZE	SPRAY RLNG DUST	NO SIG WFA
N	3.0	.0	1.3	.0	.0	.0	.0	4.3	.7	.0	1.7	.0	.0	.0	93.9
NE	19.7	.7	6.8	.0	.0	.0	.0	47.2	.0	.0	4.0	.0	.0	.0	48.8
E	33.3	.0	2.7	.0	.0	.0	.0	36.0	.0	.0	8.2	.0	.0	.0	55.8
SE	15.7	.0	4.8	.0	.0	.0	.0	20.5	.0	.0	5.4	.0	.0	.0	74.1
S	3.9	.0	1.0	.0	.0	.0	.0	6.9	.0	.0	7.2	.0	.0	.0	85.9
SW	4.2	.0	.3	.0	.0	.0	.0	4.5	.0	.0	4.2	.0	.0	.0	91.2
W	.9	.0	.9	.0	.0	.0	.0	1.7	.0	.0	11.4	.0	.0	.0	96.9
NW	2.6	.0	1.0	.0	.0	.0	.0	3.7	.0	.0	6.5	.0	.0	.0	89.8
VAR	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	100.0
CALM	6.8	.0	6.0	.0	.0	.0	.0	12.8	.0	.0	6.8	.0	.0	.0	60.3
TOT PCT	18.0	.1	3.1	.0	.0	.0	.0	21.2	.0	.0	6.6	.0	.0	.0	72.2
TOT OBS:	1383														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG MO PCPN	FGG MO PCPN PAST HR	SMOKE HAZE	SPRAY RLNG DUST	NO SIG WFA
0000Z	20.5	.0	3.0	.0	.0	.0	.0	23.5	.0	.0	3.4	.0	.0	.0	73.2
0600Z	19.3	.0	1.8	.0	.0	.0	.0	21.1	.0	.0	.0	.0	.0	.0	78.9
1201Z	13.6	.2	3.4	.0	.0	.0	.0	17.2	.0	.0	9.6	.0	.0	.0	73.2
1802Z	19.8	.0	3.2	.0	.0	.0	.0	22.9	.0	.0	7.1	.0	.0	.0	70.0
TOT PCT	17.9	.1	3.1	.0	.0	.0	.0	21.1	.0	.0	6.5	.0	.0	.0	72.4
TOT OBS:	1395														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.0	2.7	.5	.0	.0	.0	4.2	6.3	.4	2.6	.0	.0	7.8	12.1	3.8	1.1	
NE	1.2	5.5	3.6	.7	.0	.0	10.9	10.3	9.1	3.4	15.5	.0	14.7	10.9	17.3	17.7	
E	1.6	11.7	11.7	2.2	.6	.0	27.8	12.4	27.2	10.3	31.0	17.2	27.9	28.8	24.2	29.4	
SE	2.7	10.0	2.6	.9	.2	.0	16.1	8.3	19.3	28.4	14.9	24.1	12.2	14.7	16.4	15.6	
S	2.9	7.0	.6	.1	.0	.0	10.5	5.5	17.1	18.1	8.0	13.8	7.3	5.8	9.0	11.5	
SW	2.3	4.0	.4	.1	.0	.0	6.8	3.2	9.0	8.6	5.7	10.3	5.2	3.7	4.8	10.2	
W	1.2	3.8	1.2	.1	.0	.0	6.3	7.3	6.9	11.2	14.3	6.9	5.0	2.7	6.7	6.2	
NW	2.2	4.8	1.9	.1	.0	.0	8.9	7.2	6.4	17.2	.0	24.1	8.6	12.9	13.4	7.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.5	.0	.0	.0	.0	.0	8.5	.0	4.5	.0	10.7	3.4	11.3	8.5	17.4	8.3	
TOT OBS	324	684	307	57	11	0	1393	8.2	266	29	84	29	266	177	266	264	
TOT PCT	23.4	49.5	22.2	4.1	.8	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.4	1.7	.1	.0	.0	4.2	6.3	.8	.0	9.5	2.5	
NE	3.1	8.1	1.4	.3	.0	10.9	10.3	8.6	11.3	13.1	10.2	
E	6.0	15.7	4.8	1.3	.0	27.8	12.4	25.5	27.4	28.3	28.6	
SE	8.2	6.3	1.0	.5	.1	16.1	8.3	20.2	17.3	13.2	16.1	
S	7.7	2.6	.2	.0	.0	10.5	5.5	17.2	9.5	6.7	10.1	
SW	4.8	1.9	.0	.1	.0	6.8	3.2	9.0	6.9	4.6	7.5	
W	3.6	2.5	.1	.1	.0	6.3	7.3	7.3	12.4	4.1	6.4	
NW	4.3	4.4	.1	.1	.0	8.9	7.2	7.5	6.2	10.3	9.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	8.5	.0	.0	.0	.0	8.5	.0	4.1	8.8	10.2	9.4	
TOT OBS	672	572	106	92	1	1393	8.2	295	113	443	532	
TOT PCT	48.6	41.4	7.7	2.3	.1	100.0		100.0	100.0	100.0	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		0-3	4-10	11-21	22-33	34-47				
0000Z	4.1	11.2	35.3	23.7	5.1	.7	.0	8.4	100.0	295
0600Z	8.8	8.0	34.9	23.0	9.5	1.8	.0	8.7	100.0	113
1201Z	10.2	20.1	46.3	19.9	2.9	.9	.0	7.5	100.0	443
1802Z	9.4	14.3	47.7	23.3	4.7	.6	.0	8.3	100.0	532
TOT	117	207	684	307	57	11	0	8.2		1383
PCT	8.5	15.0	49.5	22.2	4.1	.8	.0	100.0		

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1969-1973

JUNE

CAPE MICHIGAN BROOK, AK
60.2N 146.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.7	1.2	.4	.1	.1	.1	.0	.0	.3	3.0	
	NO PCP	.1	.1	.6	.5	.2	.0	.3	.2	.0	.3	2.3	
	TOT %	.1	.9	1.8	.9	.3	.1	.3	.2	.0	.6	5.3	
1/2<1	PCP	.0	.6	.9	.5	.0	.0	.0	.1	.0	.0	2.1	
	NO PCP	.0	.2	.3	.2	.3	.1	.0	.0	.0	.1	1.2	
	TOT %	.0	.8	1.3	.7	.3	.1	.0	.1	.0	.1	3.4	
1<2	PCP	.0	.2	1.2	.9	.1	.0	.0	.0	.0	.1	1.6	
	NO PCP	.0	.0	.3	.2	.2	.1	.1	.0	.0	.1	.7	
	TOT %	.0	.2	1.5	.1	.2	.1	.1	.0	.0	.1	2.3	
2<5	PCP	.0	.4	2.1	.4	.1	.0	.0	.0	.0	.1	3.0	
	NO PCP	.0	.1	.8	.1	.2	.1	.3	.3	.0	.1	1.8	
	TOT %	.0	.5	2.9	.5	.2	.1	.3	.3	.0	.1	5.7	
5<10	PCP	.1	2.2	4.0	1.3	.5	.2	.0	.1	.0	.4	8.8	
	NO PCP	.7	1.4	3.5	3.5	2.9	1.0	.7	.9	.0	1.5	17.5	
	TOT %	.9	3.7	7.4	4.8	2.6	1.2	.7	1.1	.0	1.9	26.3	
10+	PCP	.0	.6	.4	.3	.1	.0	.1	.1	.0	.2	1.8	
	NO PCP	3.2	3.9	10.1	8.3	6.8	5.2	4.9	7.1	.0	5.5	55.3	
	TOT %	3.2	4.5	10.5	8.6	6.9	5.2	4.9	7.2	.0	5.7	57.0	
TOT OBS		4.2	11.0	27.4	16.2	10.5	6.8	6.3	9.0	.0	8.5	100.0	1370
TOT PCT													

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	.1	.1	.2	.2	.1	.1	.0	.0	.6	1.5	
	4-10	.1	.5	.5	.5	.1	.0	.2	.2	.0	.0	2.0	
	11-21	.0	.2	.9	.1	.0	.0	.0	.0	.0	.0	1.2	
	22+	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.9	1.8	.9	.3	.1	.3	.2	.0	.6	5.3	
1/2<1	0-3	.0	.2	.0	.1	.1	.1	.0	.1	.0	.1	.7	
	4-10	.0	.2	.3	.3	.1	.1	.0	.0	.0	.0	1.0	
	11-21	.0	.3	.5	.1	.0	.0	.0	.0	.0	.0	.9	
	22+	.0	.1	.4	.3	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.8	1.3	.7	.3	.1	.0	.1	.0	.1	3.4	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.3	.0	.2	.1	.1	.0	.0	.0	.7	
	11-21	.0	.1	.7	.1	.0	.0	.0	.0	.0	.0	.9	
	22+	.0	.1	.5	.0	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.2	1.5	.1	.2	.1	.1	.0	.0	.0	2.3	
2<5	0-3	.0	.0	.1	.1	.0	.0	.1	.1	.0	.1	.4	
	4-10	.0	.4	.7	.3	.1	.1	.2	.3	.0	.0	2.1	
	11-21	.0	.4	1.5	.1	.1	.0	.0	.0	.0	.0	1.0	
	22+	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.9	2.9	.9	.2	.1	.3	.3	.0	.1	5.7	
5<10	0-3	.2	.2	.4	1.0	.4	.7	.3	.3	.0	1.9	5.4	
	4-10	.5	2.0	3.0	2.5	1.7	.6	.4	.5	.0	.0	11.2	
	11-21	.1	1.2	5.1	1.1	.4	.0	.0	.1	.0	.0	8.0	
	22+	.0	.2	.9	.3	.1	.0	.0	.1	.0	.0	1.6	
	TOT %	.9	3.7	9.4	4.8	2.4	1.2	.7	1.1	.0	1.9	26.3	
10+	0-3	.7	.6	.9	1.4	2.2	1.5	.7	1.7	.0	5.7	15.3	
	4-10	2.2	2.4	6.8	6.5	4.6	3.2	2.9	3.8	.0	.0	32.3	
	11-21	.4	1.3	2.8	.9	.1	.4	1.2	1.8	.0	.0	8.8	
	22+	.0	.1	.1	.1	.0	.1	.1	.1	.0	.0	.5	
	TOT %	3.2	4.5	10.5	8.8	6.9	5.2	4.9	7.2	.0	5.7	57.0	
TOT OBS		4.2	11.0	27.4	16.2	10.5	6.8	6.3	9.0	.0	8.5	100.0	1370
TOT PCT													

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0600	5.1	3.4	2.4	4.1	27.7	57.4	296
0609	.9	.0	2.7	2.7	22.1	71.7	113
1201	7.2	2.7	2.0	8.1	27.9	92.4	443
1802	4.7	4.5	2.9	9.1	24.7	58.5	530
TOT	7.9	4.6	3.2	7.8	36.0	79.3	1382
PCT	3.3	3.3	2.3	5.8	26.0	57.4	100.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0600	71	64	60	51	44	40	38	50.9	296
0609	64	60	55	48	40	38	38	47.8	113
1201	65	55	52	47	41	39	38	47.0	443
1802	70	62	57	49	42	40	39	49.4	530
TOT	71	62	57	48	42	40	38	48.8	1382

PERIOD: (PRIMARY) 1966-1973
(OVERALL) 1966-1973

JULY

CAPF MINCHINBROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG W/ PCPN	FGG W/ PAST HR	SMOKE HAZE	SPRAY BLWG DUST	N7 SIG WEA
N	1.8	.0	.0	.0	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	96.3
NE	35.2	.0	3.0	.0	.0	.0	.0	40.7	.0	.0	9.0	.0	.0	.0	50.2
E	27.3	.2	8.2	.0	.0	.0	.0	35.7	.0	.0	8.0	.0	.0	.0	55.7
SE	15.0	.0	3.7	.0	.0	.0	.0	18.7	.0	.0	6.5	.0	.0	.0	74.8
S	8.3	.0	1.1	.0	.0	.0	.0	9.6	.0	.0	6.9	.0	.0	.0	83.5
SW	5.8	.0	.0	.0	.0	.0	.0	5.8	.0	.0	5.8	.0	.0	.0	88.4
W	.7	.0	.0	.0	.0	.0	.0	.7	.0	.0	6.1	.0	.0	.0	95.2
NW	1.3	.0	.9	.0	.0	.0	.0	2.1	.0	.0	2.8	.0	.0	.0	95.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	9.0	.0	6.7	.0	.0	.0	.0	11.7	.0	.0	18.3	.0	.0	.0	70.0
TOT PCT	16.8	.1	4.2	.0	.0	.0	.0	21.1	.0	.0	7.2	.0	.0	.0	71.7
TOT OBS:	1592														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG W/ PCPN	FGG W/ PAST HR	SMOKE HAZE	SPRAY BLWG DUST	N7 SIG WEA
00003	15.9	.3	3.8	.0	.0	.0	.0	20.1	.0	.0	3.0	.0	.0	.0	74.9
06009	21.0	.0	1.7	.0	.0	.0	.0	22.7	.0	.0	3.9	.0	.0	.0	71.4
12015	15.7	.0	3.3	.0	.0	.0	.0	21.3	.0	.0	7.6	.0	.0	.0	71.2
18021	17.3	.0	3.7	.0	.0	.0	.0	21.0	.0	.0	8.4	.0	.0	.0	70.6
TOT PCT	16.8	.1	4.2	.0	.0	.0	.0	21.0	.0	.0	7.2	.0	.0	.0	71.7
TOT OBS:	1603														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00					03	06	09	12	15	18	21
N	1.7	2.9	.5	.0	.0	.0	.0	3.1	3.8	2.5	.0	.0	7.6	9.4	7.7	2.0		
NE	1.5	8.2	4.6	.4	.0	.0	.0	12.7	9.8	8.4	.8	11.6	.0	14.7	14.5	10.4		
E	3.0	13.1	9.9	2.0	.2	.0	.0	30.1	10.6	30.7	13.7	40.4	21.8	29.9	27.6	32.9		
SE	1.9	9.1	4.2	.5	.0	.0	.0	15.7	8.7	20.1	41.1	12.5	33.1	13.8	11.9	13.5		
S	2.9	6.9	1.7	.3	.0	.0	.0	11.8	6.8	13.4	19.4	7.8	14.3	11.9	10.3	9.6		
SW	1.5	4.1	.6	.0	.0	.0	.0	6.2	5.7	8.9	18.5	9.0	20.2	1.7	2.8	5.5		
W	1.0	3.9	2.2	.1	.0	.0	.0	7.2	8.7	7.8	3.2	15.1	2.4	6.8	1.8	8.8		
NW	1.5	4.6	1.2	.0	.0	.0	.0	7.3	6.6	6.1	3.2	.0	4.0	8.9	12.6	5.6		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.8	.0	.0	.0	.0	.0	.0	3.8	.0	2.6	.0	3.5	.0	4.9	7.4	2.9		
TOT OBS	299	831	398	34	3	0	1592		8.4	307	31	86	31	307	217	336		
TOT PCT	16.8	52.6	25.0	3.4	.2	.0	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+	00	06					12	18		
N	3.3	1.8	.0	.0	.0	.0	.0	3.1	3.8	2.3	.0	8.3	4.9		
NE	4.8	8.0	1.8	.1	.0	.0	.0	12.7	9.8	7.7	8.5	14.6	14.7		
E	9.1	18.3	3.8	1.0	.0	.0	.0	30.1	10.6	28.7	15.5	29.7	30.2		
SE	6.8	7.5	1.2	.2	.0	.0	.0	19.7	8.7	22.0	17.9	13.0	14.1		
S	7.5	3.5	.7	.0	.0	.0	.0	11.8	6.8	11.8	10.7	11.2	11.4		
SW	4.2	1.9	.1	.0	.0	.0	.0	6.2	5.7	9.8	12.0	2.1	6.6		
W	3.1	3.7	.5	.0	.0	.0	.0	7.2	8.7	7.4	11.8	4.7	6.4		
NW	4.1	3.2	.0	.0	.0	.0	.0	7.3	6.6	5.8	1.1	10.4	6.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	3.8	.0	.0	.0	.0	.0	.0	3.8	.0	2.4	2.6	5.9	2.9		
TOT OBS	743	699	129	21	0	1592			8.4	338	117	524	613		
TOT PCT	46.7	43.9	8.1	1.3	.0	100.0				100.0	100.0	100.0	100.0		

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							48+	MEAN	PCT FREQ	TOTAL OBS
		0-3	4-10	11-21	22-33	34-47	48+					
00003	2.4	8.9	61.4	26.3	2.1	.0	.0	.0	8.0	100.0	338	
06009	2.6	5.1	39.8	29.1	3.4	.0	.0	.0	9.1	100.0	117	
12015	5.9	20.4	49.0	21.8	8.7	.2	.0	.0	7.6	100.0	324	
18021	2.9	13.7	49.3	27.4	4.7	.0	.0	.0	8.8	100.0	613	
TOT	60	299	838	398	34	3	0	8.4		1592		
PCT	3.8	13.0	52.6	25.0	3.4	.2	.0		100.0			

JULY

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1964-1973

CAPE HITCHINBROOK, AK
60.2N 146.7W

TABLE 8

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

VSRY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.6	1.7	.3	.7	.1	.0	.0	.0	.1	2.9	
	NO PCP	.0	.4	.4	.3	.7	.2	.2	.1	.0	.5	2.4	
	TOT %	.0	1.0	2.1	.6	1.4	.3	.2	.1	.0	.6	5.4	
1/2<1	PCP	.0	.2	2.0	.3	.0	.1	.0	.0	.0	.0	2.6	
	NO PCP	.0	.1	.2	.2	.3	.1	.0	.0	.0	.0	.9	
	TOT %	.0	.3	2.2	.5	.3	.1	.0	.0	.0	.0	3.4	
1<2	PCP	.0	.4	1.3	.0	.2	.1	.0	.0	.0	.0	2.8	
	NO PCP	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.5	1.7	.1	.2	.1	.0	.0	.0	.0	3.6	
2<5	PCP	.0	1.1	2.5	.0	.5	.0	.0	.1	.0	.1	5.0	
	NO PCP	.0	.4	1.3	.4	.2	.1	.1	.1	.0	.2	2.7	
	TOT %	.0	1.5	3.8	1.2	.7	.1	.1	.1	.0	.3	7.8	
5<10	PCP	.0	2.5	2.5	.7	.3	.0	.0	.0	.0	.1	6.3	
	NO PCP	.4	2.0	5.7	3.4	2.4	.6	.2	.5	.0	.7	16.3	
	TOT %	.4	4.5	8.2	4.5	2.7	.6	.2	.5	.0	.8	22.6	
10+	PCP	.0	.3	.7	.1	.1	.1	.0	.1	.0	.0	1.4	
	NO PCP	4.6	4.5	11.3	8.0	7.5	4.6	6.8	6.6	.0	1.9	55.8	
	TOT %	4.6	4.8	12.0	8.1	7.6	4.8	6.8	6.7	.0	1.9	57.2	
TOT OBS												1967	
TOT PCT		5.2	12.7	30.0	15.8	11.8	6.0	7.3	7.5	.0	3.7	100.0	

TABLE 9

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

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.3	.2	.1	.2	.1	.1	.1	.0	.6	1.8	
	4-10	.0	.2	.9	.4	.1	.2	.0	.0	.0	.0	1.9	
	11-21	.0	.4	.7	.1	.1	.0	.0	.0	.0	.0	1.3	
	22+	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	1.0	2.1	.6	.4	.3	.2	.1	.0	.0	5.4	
1/2<1	0-3	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	4-10	.0	.1	.7	.1	.2	.1	.0	.0	.0	.0	1.2	
	11-21	.0	.0	.8	.3	.0	.0	.0	.0	.0	.0	1.1	
	22+	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.3	2.2	.5	.3	.1	.0	.0	.0	.0	3.4	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.3	.5	.2	.0	.1	.0	.0	.0	.0	1.1	
	11-21	.0	.3	1.0	.6	.2	.0	.0	.0	.0	.0	2.0	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.6	1.7	.9	.3	.1	.0	.0	.0	.0	3.6	
2<5	0-3	.0	.2	.1	.1	.0	.0	.0	.0	.0	.3	.7	
	4-10	.0	.3	1.9	.7	.2	.0	.1	.1	.0	.0	3.4	
	11-21	.0	.8	1.5	.3	.2	.1	.0	.0	.0	.0	2.8	
	22+	.0	.1	.3	.2	.2	.0	.0	.0	.0	.0	.8	
	TOT %	.0	1.5	3.8	1.2	.6	.1	.1	.1	.0	.3	7.8	
5<10	0-3	.3	.3	.6	.3	.7	.3	.1	.2	.0	.8	3.5	
	4-10	.2	1.9	3.8	2.6	1.2	.3	.1	.3	.0	.0	10.5	
	11-21	.0	2.1	3.1	1.5	.8	.0	.0	.0	.0	.0	7.7	
	22+	.0	.1	.6	.1	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.3	4.5	8.2	4.5	2.8	.6	.2	.3	.0	.8	22.0	
10+	0-3	1.4	.7	2.0	1.4	2.0	1.0	.7	1.3	.0	1.9	12.9	
	4-10	2.6	3.3	7.2	5.2	3.1	3.2	3.7	4.2	.0	.0	34.9	
	11-21	.0	.8	2.8	1.5	.3	.5	2.2	1.2	.0	.0	10.1	
	22+	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	TOT %	4.6	4.8	12.0	8.1	7.6	4.8	6.8	6.7	.0	1.9	57.2	
TOT OBS												1967	
TOT PCT		5.2	12.7	30.0	15.8	11.8	6.0	7.3	7.5	.0	3.7	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	4.2	2.4	2.4	0.3	18.0	86.1	333
0600Z	.0	3.3	2.4	0.1	18.4	86.7	114
1200Z	5.9	3.1	3.4	9.8	24.9	52.8	323
1800Z	6.3	4.1	4.3	7.2	23.2	54.9	408
TOT	8.4	5.5	5.4	12.3	35.4	90.6	1378
PCT	3.3	3.5	3.5	7.8	22.4	57.4	100.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	76	74	64	59	49	44	44	59.7	333
0600Z	69	68	64	52	47	43	44	53.2	114
1200Z	67	61	57	52	47	43	45	51.9	323
1800Z	72	70	62	54	48	46	45	56.4	408
TOT	76	69	62	53	48	46	44	53.0	1003

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1964-1973

AUGUST

CAPE MICHIGAN BRUNN, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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 DJST	N7 SIG WFA
N	6.4	.0	1.9	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	91.7
NE	40.7	.8	5.7	.0	.0	.0	.0	47.2	.0	.0	4.5	.0	.0	.0	48.3
E	33.4	.2	5.3	.0	.0	.0	.0	38.9	.0	.0	7.4	.0	.0	.0	53.7
SE	24.2	.0	3.4	.0	.0	.0	.0	29.7	.0	.0	6.7	.0	.0	.0	43.6
S	25.4	.0	.0	.0	.0	.0	.0	25.4	.0	.0	6.9	.0	.0	.0	67.7
SW	4.1	.0	.0	.0	.0	.0	.0	4.1	.0	.0	4.1	.0	.0	.0	91.8
W	4.4	.0	.0	.0	.0	.0	.0	4.4	.0	.0	4.1	.0	.0	.0	91.5
NW	2.2	.0	.0	.0	.0	.0	.0	2.2	.0	.0	2.9	.0	.0	.0	94.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.4	.0	1.7	.0	.0	.0	.0	5.2	.0	.0	10.3	.0	.0	.0	84.5
TOT PCT	25.4	.2	3.7	.0	.0	.0	.0	29.3	.0	.0	5.6	.0	.0	.0	65.1
TOT OBS	1617														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	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 DJST	N7 SIG WFA
0000	24.9	.0	2.5	.0	.0	.0	.0	27.4	.0	.0	3.7	.0	.0	.0	48.9
0600	34.7	.0	.8	.0	.0	.0	.0	33.5	.0	.0	11.6	.0	.0	.0	52.9
1200	29.7	.4	4.4	.0	.0	.0	.0	30.5	.0	.0	5.7	.0	.0	.0	63.8
1800	24.0	.3	4.2	.0	.0	.0	.0	28.5	.0	.0	5.7	.0	.0	.0	65.8
TOT PCT	29.5	.2	3.7	.0	.0	.0	.0	29.5	.0	.0	5.7	.0	.0	.0	64.8
TOT OBS	1893														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	.7	3.5	1.3	.1	.0	.0	3.6	8.7	3.7	1.8	.0	5.0	8.1	10.4	5.8	3.9
NE	1.1	8.7	11.9	1.5	.1	.0	23.2	12.5	20.6	12.5	37.9	3.3	28.6	19.2	24.7	21.1
E	1.9	11.8	11.3	2.8	.2	.0	28.0	12.1	27.9	28.6	33.3	19.2	24.4	26.3	31.7	29.4
SE	1.4	7.8	3.6	.9	.0	.0	13.7	9.4	13.2	17.9	7.5	32.5	13.3	15.4	12.2	14.5
S	1.9	5.0	1.4	.2	.2	.0	8.7	7.9	11.7	11.3	5.3	15.0	8.2	7.5	8.8	7.5
SW	.5	2.0	.1	.0	.0	.0	2.6	8.0	5.0	8.3	5.5	5.0	.6	1.2	1.0	3.2
W	.5	3.6	1.3	.0	.0	.0	5.4	7.8	6.1	2.4	6.9	8.3	5.0	2.9	6.7	7.2
NW	1.3	5.8	1.8	.1	.0	.0	9.0	7.8	8.2	17.3	.0	11.7	8.1	13.8	7.0	10.4
VAR	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	3.6	.0	4.2	.0	3.4	.0	3.6	3.5	3.6	3.9
TOT OBS	207	782	532	89	7	0	1617	10.0	309	42	87	30	308	229	308	304
TOT PCT	12.0	48.4	32.9	5.3	.4	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				03	09	15	21
N	2.1	3.0	.5	.1	.0	3.6	8.7	3.0	1.3	9.1	4.8	
NE	3.6	14.2	4.7	.8	.0	23.2	12.5	19.7	29.1	24.6	22.9	
E	6.2	15.8	4.9	1.2	.0	29.0	12.1	28.0	29.7	25.2	30.2	
SE	5.3	6.8	1.3	.3	.0	13.7	9.4	13.7	13.9	14.2	13.1	
S	4.4	3.6	.1	.2	.1	8.7	7.9	11.6	7.9	7.9	7.9	
SW	1.9	.7	.0	.0	.0	2.6	3.3	3.4	3.3	.9	2.1	
W	2.3	3.1	.2	.0	.0	5.6	8.0	5.6	7.3	4.1	6.8	
NW	3.9	4.6	.4	.0	.0	9.0	7.8	9.3	3.0	10.4	8.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.6	.0	.0	.0	.0	3.6	.0	3.7	2.6	3.5	3.0	
TOT OBS	339	842	197	38	1	1617	10.0	351	117	537	612	
TOT PCT	53.9	52.1	12.2	2.4	.1	100.0		100.0	100.0	100.0	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	
		1-3	4-10	11-21	22-33	34-47				
0000	3.7	7.1	30.7	32.8	9.1	.0	.0	10.1	100.0	351
0600	2.6	8.3	46.2	31.6	11.1	.0	.0	10.9	100.0	117
1200	3.3	10.4	49.3	30.5	9.2	.7	.0	9.8	100.0	337
1800	3.8	9.5	46.4	33.3	6.9	.2	.0	10.1	100.0	612
TOT	58	149	782	532	89	7	0	10.0		1617
PCT	3.6	9.2	48.4	32.9	5.3	.4	.0	10.0		100.0

AUGUST

PERIOD: (PRIMARY) 1966-1973
(OVER-ALL) 1964-1973

CAPE MICHIN BROOK, AK
60.2N 146.7W

TABLE 8

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

VSRY (NH)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.4	1.9	.4	.3	.1	.0	.1	.0	.0	3.9	
	NP PCP	.0	.0	.4	.2	.3	.0	.0	.2	.0	.2	1.4	
	TOT %	.0	.4	2.4	.6	.6	.1	.0	.3	.0	.2	5.3	
1/2<1	PCP	.0	3.0	2.6	.7	.1	.0	.1	.0	.0	.0	6.5	
	NP PCP	.0	.2	.8	.4	.2	.1	.1	.0	.0	.0	1.8	
	TOT %	.0	3.2	3.4	1.1	.3	.1	.2	.0	.0	.0	8.3	
1<2	PCP	.1	1.2	1.2	.4	.1	.0	.0	.0	.0	.1	3.5	
	NP PCP	.0	.1	.3	.0	.0	.0	.0	.1	.0	.1	.5	
	TOT %	.1	1.3	1.5	.4	.1	.0	.0	.1	.0	.1	4.0	
2<5	PCP	.2	2.1	1.8	.9	.8	.0	.0	.1	.0	.1	5.6	
	NP PCP	.0	.5	.3	.2	.1	.0	.1	.0	.0	.1	1.2	
	TOT %	.2	2.6	2.1	1.1	.9	.0	.1	.1	.0	.2	6.9	
5<10	PCP	.2	3.0	2.9	.7	1.2	.8	.2	.1	.0	.0	6.2	
	NP PCP	.3	4.9	6.4	3.5	1.7	.2	.6	.6	.0	.7	18.9	
	TOT %	.4	7.8	9.2	4.2	2.9	.3	.8	.6	.0	.7	27.1	
10+	PCP	.8	.8	.5	.2	.8	.0	.0	.0	.0	.0	1.6	
	NP PCP	4.9	6.6	9.0	5.3	4.2	2.2	4.5	7.9	.0	2.3	46.9	
	TOT %	6.9	7.5	9.5	5.5	4.3	2.2	4.5	7.9	.0	2.3	48.5	
TOT OBS												1617	
TOT PCT		5.6	23.2	28.0	13.7	8.7	2.6	5.6	9.0	.0	3.6	100.0	

TABLE 9

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

VSRY (NH)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.2	.1	.2	.0	.0	.2	.0	.0	.2	1.1
	4-10	.0	.4	.6	.5	.2	.1	.0	.1	.0	.0	.7	1.7
	11-21	.0	.4	1.2	.2	.0	.0	.0	.0	.0	.0	.8	1.8
	22+	.0	.0	.4	.1	.2	.0	.0	.0	.0	.0	.7	.7
	TOT %	.0	.8	2.4	.9	.5	.1	.0	.3	.0	.0	2.2	5.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.4	.7	.5	.3	.1	.2	.0	.0	.0	2.2	2.2
	11-21	.0	2.1	1.6	.3	.0	.0	.0	.0	.0	.0	4.0	4.0
	22+	.0	.7	1.1	.2	.0	.0	.0	.0	.0	.0	2.0	2.0
	TOT %	.0	3.2	3.4	1.1	.3	.1	.2	.0	.0	.0	6.2	8.2
1<2	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.3
	4-10	.0	.2	.3	.2	.1	.0	.0	.1	.0	.0	.9	.9
	11-21	.1	.8	.7	.4	.0	.0	.0	.0	.0	.0	2.1	2.1
	22+	.0	.1	.4	.2	.0	.0	.0	.0	.0	.0	.7	.7
	TOT %	.1	1.3	1.5	.8	.1	.0	.0	.1	.0	.0	3.8	4.0
2<5	0-3	.1	.1	.2	.2	.8	.0	.0	.0	.0	.0	.2	.8
	4-10	.0	.3	.6	.5	.3	.0	.1	.0	.0	.0	1.9	1.9
	11-21	.1	1.8	1.1	.4	.2	.0	.0	.0	.1	.0	3.6	3.6
	22+	.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.6	.6
	TOT %	.2	2.6	2.1	1.1	.3	.0	.1	.1	.0	.0	6.9	6.9
5<10	0-3	.1	.4	.5	.5	.6	.8	.1	.1	.0	.0	.7	3.1
	4-10	.3	2.8	4.2	2.2	1.3	.2	.3	.4	.0	.0	12.2	12.2
	11-21	.8	4.3	3.8	1.4	.6	.8	.2	.1	.0	.0	10.4	10.4
	22+	.0	.3	.7	.2	.2	.0	.0	.0	.0	.0	1.4	1.4
	TOT %	.4	7.8	9.2	4.2	2.9	.3	.8	.6	.0	.0	17.7	27.1
10+	0-3	.5	.5	.8	.5	1.0	.5	.4	1.0	.0	.0	2.3	7.5
	4-10	3.2	4.3	5.6	4.0	2.6	1.7	2.9	3.2	.0	.0	29.5	29.5
	11-21	1.1	2.5	2.9	.9	.6	.1	1.3	1.6	.0	.0	11.0	11.0
	22+	.1	.1	.2	.1	.0	.0	.0	.1	.0	.0	.5	.5
	TOT %	4.9	7.5	9.5	5.5	4.3	2.2	4.3	7.9	.0	.0	23.3	48.5
TOT OBS												1617	
TOT PCT		5.6	23.2	28.0	13.7	8.7	2.6	5.6	9.0	.0	3.6	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	4.0	7.3	4.8	6.2	22.6	55.1	354
0600	2.5	19.6	2.5	4.1	21.5	49.6	121
1200	9.9	8.7	3.1	6.5	32.9	42.9	541
1800	9.8	6.5	4.6	8.1	25.8	49.4	617
TOT	85	137	64	112	443	792	1633
PCT	5.2	8.4	3.9	6.9	27.1	48.5	100.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	73	66	63	55	50	49	48	53.7	354
0600	63	61	58	53	48	45	47	53.2	121
1200	67	62	56	52	48	45	42	52.0	541
1800	69	64	60	54	49	48	44	54.1	617
TOT	72	64	60	53	49	47	42	53.7	1633

SEPTEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1964-1973

CAPE MICHINBROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWNG	NO SIG WEA
N	6.0	.0	.0	.0	.0	.0	.0	6.6	.0	.0	4.6	.0	.0	.0	88.7
NE	35.7	.0	4.1	.0	.0	.0	.0	39.8	.0	.0	2.8	.0	.0	.0	57.4
E	31.5	.7	2.4	.0	.0	.0	.0	34.6	.0	.0	4.5	.0	.0	.0	40.9
SE	25.7	.3	2.4	.0	.0	.0	.0	28.4	.0	.0	11.3	.0	.0	.0	59.5
S	14.4	.0	1.0	.0	.0	.0	.0	15.5	.0	.0	11.0	.0	.0	.0	73.5
SW	.8	.0	1.7	.0	.0	.0	.0	2.5	.0	.0	5.5	.0	.0	.0	91.9
W	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	2.0	.0	.0	.0	93.9
NW	.0	.8	.8	.0	.0	.0	.0	1.6	.0	.0	.8	.0	.0	.0	97.6
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	6.9	.0	.0	.0	93.1
TOT PCT	21.6	.3	2.1	.0	.0	.0	.0	24.0	.0	.0	3.2	.0	.1	.0	70.7
TOT OBS:	1002														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY RLWNG	NO SIG WEA
00003	22.7	.3	1.1	.0	.0	.0	.0	24.1	.0	.0	4.5	.0	.0	.0	71.4
06009	23.3	.0	.0	.0	.0	.0	.0	23.3	.0	.0	2.3	.0	.0	.0	74.4
12015	21.3	.0	3.3	.0	.0	.0	.0	24.5	.0	.0	7.3	.0	.0	.0	68.2
18021	20.6	.7	2.0	.0	.0	.0	.0	23.2	.0	.0	5.0	.0	.3	.0	71.4
TOT PCT	21.5	.3	2.0	.0	.0	.0	.0	23.9	.0	.0	5.4	.0	.1	.0	70.6
TOT OBS:	1010														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	HOUR (GMT)			
	0-3	4-10	11-21	22-33	34-47	48+							09	12	15	18
N	1.3	3.9	.8	.1	.0	.0	6.1	6.8	2.6	4.7	4.6	5.8	10.5	11.0	4.4	3.6
NE	1.2	8.3	7.8	2.2	.2	.0	19.8	12.4	16.4	15.1	22.6	16.7	21.9	17.8	27.4	20.1
E	1.2	10.6	12.4	3.5	.6	.1	28.4	13.7	30.0	26.7	26.2	35.8	27.1	28.5	25.3	27.8
SE	.9	6.3	6.0	1.8	.6	.0	15.3	13.0	15.0	16.8	7.5	4.2	15.9	19.5	17.0	15.9
S	1.3	2.6	1.9	.3	.0	.0	5.9	9.0	10.2	6.0	2.9	3.3	5.6	4.7	4.4	4.7
SW	.9	2.0	.7	.1	.0	.0	3.7	7.1	6.4	9.5	4.1	11.7	.9	1.1	2.4	4.0
W	.9	5.0	2.7	.6	.0	.0	9.3	9.7	8.7	11.4	21.4	5.0	7.2	5.3	9.7	10.0
NW	1.0	5.2	1.8	.0	.0	.0	7.9	8.0	7.7	9.5	3.9	17.5	8.4	8.0	8.1	7.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	2.3	.0	6.8	.0	4.4	4.1	3.0	4.4
TOT OBS	200	705	539	137	20	1	1602	11.1	299	58	103	30	297	227	294	294
TOT PCT	12.5	44.0	33.0	8.6	1.2	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 4A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-6	7-16	17-27	28-40	41+	03				06	09	12	15	18	21	
N	3.2	2.8	.0	.1	.0	.0	6.1	6.8	2.9	4.9	10.7	4.2				
NE	3.7	11.4	3.8	.8	.1	.0	19.8	12.4	16.2	21.2	20.1	21.3				
E	5.0	13.0	6.5	1.7	.1	.0	28.4	13.7	30.0	26.7	26.2	27.7	28.0			
SE	3.7	7.8	3.0	.6	.2	.0	15.3	13.0	15.3	6.8	16.3	16.4				
S	2.7	2.4	.7	.2	.0	.0	5.9	9.0	9.6	3.0	5.3	5.1				
SW	2.1	1.4	.2	.0	.0	.0	3.7	7.1	6.9	5.8	1.0	3.6				
W	2.7	3.2	1.2	.1	.0	.0	9.3	9.7	9.2	17.7	6.4	9.9				
NW	2.8	3.0	.1	.0	.0	.0	7.9	8.0	8.0	7.0	8.2	7.8				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	3.6						3.6	.0	2.0	3.3	4.2	3.7				
TOT OBS	278	818	247	36	7	1	1602	11.1	336	133	315	394				
TOT PCT	29.6	51.1	15.4	3.5	.4	.1	100.0		100.0	100.0	100.0	100.0				

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						TOTAL OBS		
		0-3	4-10	11-21	22-33	34-47	48+		MEAN	PCT FREQ
00003	2.0	8.4	6.9	32.6	9.4	.6	.0	11.2	100.0	336
06009	5.3	12.3	43.1	25.6	6.0	1.5	.0	10.0	100.0	133
12015	4.2	7.3	47.4	31.8	7.3	1.5	.2	11.0	100.0	319
18021	3.7	9.4	39.1	37.7	8.8	1.3	.0	11.3	100.0	394
TOT	98	162	703	539	137	20	1	11.1		1602
PCT	3.6	8.9	44.0	33.6	8.6	1.2	.1	100.0		

SEPTEMBER

PERIOD (PRIMARY) 1964-1973
(OVER-ALL) 1964-1973

CAPE HINGHAM BROOK, AK
60.2N 146.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.4	.3	.4	.1	.0	.0	.0	.0	.0	1.3	
	NO PCP	.1	.4	.2	.2	.2	.0	.0	.0	.0	.0	.1	.8
	TOT %	.2	.8	.5	.6	.3	.0	.0	.0	.0	.0	.1	2.3
1/2<1	PCP	.1	1.6	2.2	.4	.2	.4	.1	.0	.0	.0	6.3	
	NO PCP	.4	.3	.2	.4	.3	.1	.1	.0	.0	.0	.1	1.8
	TOT %	.5	1.9	2.4	1.2	.5	.5	.2	.0	.0	.0	.1	8.3
1<2	PCP	.0	.8	.8	.7	.1	.0	.0	.0	.0	.0	2.4	
	NO PCP	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.4
	TOT %	.0	.8	.9	.8	.2	.0	.1	.0	.0	.0	.1	2.8
2<5	PCP	.1	2.4	3.4	1.4	.2	.1	.0	.1	.0	.0	7.6	
	NO PCP	.1	.2	.6	.7	.2	.1	.1	.1	.0	.0	1.9	
	TOT %	.2	2.6	4.0	2.0	.4	.2	.1	.2	.0	.0	9.5	
5<10	PCP	.1	2.4	3.0	1.7	.3	.4	.3	.1	.0	.0	7.2	
	NO PCP	1.2	5.0	6.9	3.0	1.8	.2	.3	.9	.0	.2	19.2	
	TOT %	1.3	7.4	9.9	4.7	1.7	.6	.6	1.0	.0	.2	26.3	
10+	PCP	.4	.4	.1	.2	.4	.0	.0	.0	.0	.0	.8	
	NO PCP	4.4	6.0	10.8	6.4	3.1	3.3	7.4	4.9	.0	3.2	52.0	
	TOT %	4.8	6.4	11.0	6.6	3.5	3.3	7.4	4.9	.0	3.2	52.8	
TOT OBS												1577	
TOT PCT		6.1	20.0	28.7	15.4	6.0	3.7	8.3	8.1	.0	3.6	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	.4	.4	.0	.0	.1	.0	.0	.0	.0	.0	.1	.3
	4-10	.1	.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.7
	11-21	.0	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	1.0
	22+	.1	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.2	.8	.5	.6	.3	.0	.0	.0	.0	.0	.1	2.3
1/2<1	0-3	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.1	.3
	4-10	.1	.5	.2	.3	.2	.1	.1	.0	.0	.0	.0	1.9
	11-21	.4	1.1	1.3	.6	.2	.0	.1	.0	.0	.0	.0	3.9
	22+	.0	.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	1.3
	TOT %	.1	1.9	2.4	1.2	.4	.1	.1	.0	.0	.0	.1	6.3
1<2	0-3	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.4
	11-21	.0	.4	.3	.4	.1	.0	.0	.0	.0	.0	.0	1.3
	22+	.0	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	.0	.8	.9	.8	.2	.0	.1	.0	.0	.0	.1	2.8
2<5	0-3	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.3
	4-10	.1	.7	.7	.4	.2	.1	.0	.1	.0	.0	.0	2.3
	11-21	.1	1.0	2.3	1.1	.1	.0	.0	.0	.0	.0	.0	4.6
	22+	.0	.9	1.0	.4	.1	.0	.0	.0	.0	.0	.0	2.3
	TOT %	.1	2.6	4.0	2.0	.4	.1	.1	.1	.0	.0	.0	9.5
5<10	0-3	.4	.3	.3	.2	.1	.1	.1	.1	.0	.0	.2	1.9
	4-10	.7	2.9	3.2	.9	.5	.1	.3	.8	.0	.0	.0	9.4
	11-21	.2	3.3	4.8	2.0	.9	.4	.2	.1	.0	.0	.0	11.4
	22+	.0	.9	1.6	1.0	.1	.0	.0	.0	.0	.0	.0	3.6
	TOT %	1.3	7.4	9.9	4.1	1.7	.2	.9	1.0	.0	.0	.2	26.3
10+	0-3	.9	.9	.8	.5	1.1	.7	.8	.8	.0	.0	3.2	9.8
	4-10	3.0	4.2	6.4	4.4	1.6	1.8	4.2	4.4	.0	.0	30.0	
	11-21	.3	1.7	3.6	1.3	.3	.7	1.9	1.7	.0	.0	11.9	
	22+	.0	.1	.2	.1	.2	.1	.3	.0	.0	.0	.0	1.2
	TOT %	4.4	7.0	11.0	6.6	3.1	3.3	7.4	6.9	.0	.0	3.2	52.8
TOT OBS												1577	
TOT PCT		6.1	20.0	28.7	15.4	6.0	3.7	8.3	8.1	.0	3.6	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	3.1	6.8	7.6	7.4	20.7	27.4	222
0600Z	.0	7.0	1.6	3.9	20.3	27.2	128
1200Z	3.1	5.4	3.7	11.0	30.0	46.8	517
1800Z	2.0	5.4	2.4	10.5	27.4	32.2	588
TOT	3.9	10.0	4.4	15.0	41.3	67.7	1585
PCT	2.5	6.3	2.9	9.3	26.2	32.8	100.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	65	59	56	52	44	41	40	51.7	356
0600Z	53	54	53	49	43	39	39	48.4	193
1200Z	53	54	53	49	42	39	36	48.3	322
1800Z	62	58	55	50	44	39	34	49.8	596
TOT	65	58	55	50	43	39	36	49.7	1669

OCTOBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1964-1973

CAPT WINDMILL BRIDGE, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY PLNG DUST	N° SIG WFA
N	6.4	.0	1.5	.0	3.4	.0	.0	9.2	.0	.0	1.1	.0	.0	.0	89.7
NE	28.2	.5	2.3	.0	4.4	.5	.5	36.0	.0	.0	2.9	.0	.0	.5	60.6
E	33.9	2.2	3.8	.0	1.7	.6	.0	42.1	.0	.0	4.1	.0	.0	.0	53.8
SE	25.0	1.5	3.5	.0	1.9	.1	1.0	33.0	.0	.0	2.5	.0	.0	.0	64.5
S	11.0	.0	.0	.0	.0	.0	.8	13.0	.0	.0	.0	.0	.0	.0	87.0
SW	17.8	.0	.0	.0	2.2	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
W	3.6	.0	.0	.0	7.1	.0	.0	10.2	.0	.0	.0	.0	.0	.0	89.0
NW	9.1	.0	.5	.0	1.0	.0	.0	10.8	.0	.0	1.4	.0	.0	.0	88.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	20.5	.8	1.9	.0	3.0	.3	.3	26.5	.0	.0	2.3	.0	.0	.1	71.1
TOT OBS:	1662														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY PLNG DUST	N° SIG WFA
0000Z	20.1	1.1	1.4	.0	2.2	.5	.3	25.5	.0	.0	3.0	.0	.0	.0	71.4
0600Z	23.2	.6	3.2	.0	3.2	.6	.0	32.3	.0	.0	3.2	.0	.0	.6	63.9
1201Z	22.2	.4	2.1	.0	3.2	.2	.4	27.7	.0	.0	1.9	.0	.0	.7	70.4
1802Z	18.6	1.0	1.3	.0	3.2	.2	.3	24.6	.0	.0	1.9	.0	.0	.2	73.3
TOT PCT	20.5	.8	1.9	.0	3.0	.3	.3	26.5	.0	.0	2.3	.0	.0	.1	71.1
TOT OBS:	1664														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						4+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18
N	1.1	6.4	2.1	.1	.0	.0	9.7	8.1	7.3	11.3	5.8	33.9	10.6	14.4	10.0	6.1
NE	1.2	9.8	9.6	3.6	1.0	.1	25.2	14.1	20.6	24.6	31.9	10.5	24.9	23.0	27.7	25.3
E	.9	7.4	9.0	3.4	1.4	.4	21.5	10.1	23.1	23.0	21.0	37.1	20.5	20.9	19.2	27.0
SE	.5	3.2	3.1	2.3	.7	.0	11.9	16.3	14.8	9.3	8.5	4.0	10.2	10.6	14.2	11.9
S	.6	1.8	2.5	.4	.1	.1	5.4	12.4	7.1	3.6	3.6	.0	6.1	7.4	3.5	4.6
SW	.1	1.3	1.1	.3	.0	.0	2.8	11.6	4.1	4.8	.8	3.2	1.4	2.2	2.2	4.4
W	.4	5.0	4.1	1.2	.2	.0	11.0	12.7	11.5	11.3	21.0	.0	11.0	6.3	11.2	10.4
NW	.8	7.0	3.6	.3	.1	.0	11.8	9.9	10.8	6.0	3.0	11.3	12.7	15.8	11.4	13.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0	.0	.9	.0	.7	.0	2.4	.0	.0	.0	.0	1.3
TOT OBS	108	700	599	189	57	10	1663	13.3	302	42	124	31	308	217	317	309
TOT PCT	6.5	42.1	36.0	11.4	3.4	.6	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					4+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)					
	0-6	7-16	17-27	28-40	41+				03	06	09	12	15	18
N	3.9	5.4	.4	.0	.0	9.7	8.1	8.0	11.5	12.1	6.1			
NE	5.0	13.1	4.0	2.9	.2	25.2	14.1	21.6	27.6	25.3	26.5			
E	3.8	10.0	4.0	2.3	.8	21.5	10.1	23.4	24.2	20.4	20.6			
SE	1.9	4.0	3.9	1.4	.0	11.9	16.3	13.9	7.6	10.4	13.0			
S	1.4	3.1	.6	.2	.1	5.4	12.4	6.9	2.9	6.6	4.0			
SW	.7	1.6	.6	.0	.0	2.8	11.6	4.2	1.3	1.7	3.3			
W	1.8	7.0	1.3	.7	.1	11.0	12.7	11.3	16.8	9.0	10.8			
NW	2.1	7.6	.9	.1	.0	11.8	9.9	10.0	6.3	14.0	12.4			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	.9	.0	.0	.0	.0	.9	.0	.5	1.9	.4	1.3			
TOT OBS	373	871	271	128	20	1663	13.3	384	135	325	619			
TOT PCT	92.4	52.4	16.3	7.7	1.2	100.0		100.0	100.0	100.0	100.0			

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					4+ MEAN	PCT FREQ	TOTAL OBS	
		0-3	4-10	11-21	22-33	34-47				
0000Z	.5	4.9	40.2	39.5	10.4	4.1	.3	13.1	100.0	364
0600Z	1.9	5.2	39.4	38.5	15.3	3.2	1.3	14.0	100.0	133
1201Z	.6	5.9	43.4	38.8	10.3	1.2	.8	13.1	100.0	325
1802Z	1.3	5.8	39.1	38.3	11.8	3.2	.3	13.4	100.0	619
TOT	1.9	5.8	700	598	189	97	10	13.3		1663
PCT	.9	5.0	42.1	36.0	11.4	3.4	.6	100.0		

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

OCTUBER

CAMP MINCHINGBROOK, AK
60.2N 146.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	0	0.7	0.4	0.0	0.1	0.1	0	0	0.0	0.0	1.9	
	NO PCP	0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	
	TOT %	0	0.7	0.4	0.0	0.1	0.1	0.1	0.1	0.0	0.0	1.9	
1/2<1	PCP	0.2	1.4	1.5	0.5	0.2	0.1	0.2	0.2	0.0	0.0	4.3	
	NO PCP	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
	TOT %	0.2	1.6	1.6	0.5	0.2	0.1	0.2	0.2	0.0	0.0	4.5	
1<2	PCP	0.1	1.3	0.9	0.5	0.0	0.0	0.0	0.4	0.0	0.0	3.2	
	NO PCP	0.0	0.1	0.2	0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
	TOT %	0.1	1.4	1.1	0.5	0.0	0.0	0.0	0.4	0.0	0.0	3.4	
2<5	PCP	0.4	1.2	2.5	1.3	0.0	0.1	0.0	0.5	0.0	0.0	5.9	
	NO PCP	0.1	0.4	0.3	0.3	0.0	0.0	0	0.1	0.0	0.0	1.5	
	TOT %	0.5	1.6	3.1	1.5	0.0	0.1	0	0.6	0.0	0.0	7.4	
5<10	PCP	0.3	3.8	3.4	1.0	0.4	0.2	0.7	0.2	0.0	0.0	9.9	
	NO PCP	1.7	3.0	5.1	3.0	1.1	0.3	0.6	1.3	0.0	0.1	14.2	
	TOT %	2.0	6.8	8.4	4.0	1.5	0.5	1.3	1.5	0.0	0.1	24.0	
10+	PCP	0.0	0.6	0.3	0.3	0	0	0.1	0.0	0.0	0.0	1.4	
	NO PCP	6.9	10.4	6.5	4.8	3.5	2.0	9.2	9.1	0.0	0.8	53.1	
	TOT %	6.9	11.0	6.9	4.9	3.5	2.0	9.3	9.1	0.0	0.8	54.5	
TOT OBS												1663	
TOT PCT		9.7	25.2	21.5	11.9	5.6	2.9	11.0	11.8	0.0	0.9	100.0	

TABLE 9

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

VSRY (NM)	SPD	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	KYS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	0-3	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.4	
	4-10	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	
	11-21	0.0	0.4	0.2	0.3	0.1	0.1	0	0	0.0	0.0	1.2	
	TOT %	0	0.7	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.0	1.9	
1/2<1	0-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	4-10	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.5	
	11-21	0.1	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.0	0.0	1.5	
	22+	0.0	1.0	1.2	0.3	0.1	0.1	0.0	0.0	0.0	0.0	2.7	
	TOT %	0.2	1.6	1.6	0.5	0.2	0.1	0.2	0.2	0.0	0.0	4.5	
1<2	0-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	4-10	0.1	0.2	0.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.8	
	11-21	0.0	0.5	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	
	22+	0.0	0.9	0.8	0.2	0.0	0.0	0.0	0.1	0.0	0.0	1.9	
	TOT %	0.1	1.6	1.1	0.6	0.0	0.0	0.0	0.4	0.0	0.0	3.7	
2<5	0-3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
	4-10	0.4	0.6	0.9	0.0	0.0	0.1	0.0	0.2	0.0	0.0	1.7	
	11-21	0.1	0.4	1.5	0.9	0.0	0.0	0.0	0.3	0.0	0.0	3.2	
	22+	0.0	0.4	1.1	0.6	0.0	0.1	0	0.1	0.0	0.0	2.3	
	TOT %	0.5	1.6	3.1	1.5	0.0	0.1	0	0.4	0.0	0.0	7.4	
5<10	0-3	0.3	0.4	0.1	0.1	0.2	0	0.1	0.1	0.0	0.1	1.5	
	4-10	1.0	2.4	3.2	0.8	0.3	0.1	0.5	0.8	0.0	0.0	9.3	
	11-21	0.6	4.3	3.3	2.0	0.8	0.3	0.6	0.6	0.0	0.0	12.3	
	22+	0.0	1.7	1.6	1.1	0.2	0.1	0.2	0.2	0.0	0.0	4.9	
	TOT %	2.0	8.8	8.4	4.0	1.5	0.5	1.3	1.5	0.0	0.1	28.0	
10+	0-3	0.8	0.7	0.8	0.4	0.4	0.1	0.3	0.7	0.0	0.8	4.9	
	4-10	4.8	6.5	3.5	2.2	1.3	1.1	4.4	5.5	0.0	0.0	29.4	
	11-21	1.3	3.6	2.3	1.7	1.8	0.8	2.3	2.8	0.0	0.0	17.8	
	22+	0.1	0.2	0.3	0.6	0	0	1.2	0.1	0.0	0.0	2.4	
	TOT %	6.9	11.0	6.9	4.9	3.5	2.0	9.3	9.1	0.0	0.8	54.5	
TOT OBS												1663	
TOT PCT		9.7	25.2	21.5	11.9	5.6	2.9	11.0	11.8	0.0	0.9	100.0	

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	1.9	4.7	4.4	6.3	23.8	56.9	364
0600Z	0.6	4.5	3.9	10.3	23.2	57.4	155
1201Z	2.1	3.7	2.9	9.1	30.7	69.9	527
1802Z	2.1	3.4	4.2	5.8	28.1	56.4	619
TOT	32	75	61	123	466	908	1663
PCT	1.9	4.5	3.7	7.4	28.0	54.5	100.0

TABLE 13

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

HR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	58	55	51	43	33	32	30	43.3	364
0600Z	52	52	49	42	33	31	26	41.3	155
1201Z	53	50	47	41	33	31	27	40.6	527
1802Z	57	52	50	42	33	31	28	41.9	619
TOT	56	52	50	42	33	31	26	41.6	1663

NOVEMBER

PERIOD: (PRIMARY) 1964-1973
(OVERALL) 1964-1973

CAPE HINCHINBROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WFA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DIST	
N	1.3	.0	.7	.0	3.3	.0	.4	5.7	.0	.0	1.0	.0	.0	.0	93.2
NE	13.2	.9	2.9	.0	13.4	1.1	.0	31.2	.0	.0	2.4	.0	.0	.0	66.4
E	23.6	.9	1.5	.0	12.5	.0	.0	38.5	.0	.0	3.4	.0	.0	.0	58.1
SE	33.1	3.4	3.4	.0	2.4	.0	.0	41.6	.0	.0	5.1	.0	.0	.0	53.3
S	9.9	.0	.0	.0	5.9	.0	.0	15.8	.0	.0	.0	.0	.0	.0	84.2
SW	4.3	.0	.0	.0	5.3	.0	.0	9.6	.0	.0	.0	.0	.0	.0	90.4
W	4.3	.0	.0	.0	8.0	.0	.0	12.3	.0	.0	.9	.0	.0	.0	86.9
NW	1.7	.0	1.4	.0	4.8	.0	.0	7.8	.0	.0	1.7	.0	.0	.0	90.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.8	.0	4.8	.0	.0	.0	.0	9.5	.0	.L	.0	.0	.0	.0	90.5
TOT PCT	11.6	.6	1.7	.0	8.0	.3	.1	22.2	.0	.0	2.2	.0	.0	.0	75.7
TOT OBS:	1580														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WFA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DIST	
0000	13.9	.0	1.1	.0	7.4	.3	.0	22.7	.0	.0	1.7	.0	.0	.0	75.6
0600	14.8	2.0	2.0	.0	9.4	.7	.0	28.2	.0	.0	2.0	.0	.0	.0	49.8
1200	10.6	.4	2.2	.0	8.3	.4	.0	21.6	.0	.0	2.8	.0	.0	.0	75.6
1800	11.2	.8	1.5	.0	7.9	.0	.2	21.6	.0	.0	1.8	.0	.0	.0	76.5
TOT PCT	11.9	.6	1.7	.0	8.0	.2	.1	22.5	.0	.0	2.1	.0	.0	.0	75.4
TOT OBS:	1607														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.9	10.7	3.4	.4	.0	.0	16.6	8.3	13.7	33.9	14.4	25.5	16.0	19.9	17.2	12.7	
NE	1.9	7.3	10.2	2.6	.1	.0	22.1	12.7	23.7	7.1	20.7	16.5	24.0	17.1	25.0	22.7	
E	1.2	7.0	9.2	2.5	1.1	.2	20.2	14.7	20.3	34.4	11.1	38.2	17.7	21.7	17.6	20.1	
SE	.5	1.2	2.2	2.0	1.1	.0	7.9	20.5	9.1	7.6	6.1	4.1	7.2	7.5	9.1	7.7	
S	.1	1.0	1.1	.9	.1	.0	3.2	16.2	3.1	3.6	4.7	1.8	3.6	3.0	1.7	4.2	
SW	.0	.7	.7	.1	.0	.0	1.5	12.5	.8	.0	.3	1.8	2.5	1.6	1.4	1.7	
W	.2	3.0	3.4	.5	.2	.0	7.3	12.5	6.2	.0	22.2	.0	7.6	2.5	7.4	9.7	
NW	1.4	8.3	9.2	.6	.0	.0	19.5	11.2	19.9	4.4	7.8	14.1	19.1	24.2	15.4	14.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.7	.0	.0	.0	.0	.0	2.7	.0	3.1	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	157	420	594	165	43	3	1582	12.5	290	56	90	55	296	206	290	299	
TOT PCT	9.9	39.2	37.5	10.4	2.7	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	7.3	8.0	1.1	.2	.0	10.6	8.3	17.0	18.6	17.6	15.0	
NE	9.0	11.1	9.2	.8	.0	22.1	12.7	21.0	22.1	21.2	23.6	
E	4.3	9.2	4.4	1.8	.4	20.2	14.7	23.3	21.4	19.3	18.8	
SE	1.1	2.2	2.2	2.2	.1	7.9	20.5	8.9	5.3	7.3	8.4	
S	.6	1.3	.8	.5	.0	3.2	16.2	3.2	3.6	3.4	2.9	
SW	.3	.9	.3	.0	.0	1.5	12.5	.7	.9	2.1	1.6	
W	1.5	4.2	1.2	.3	.0	7.3	12.5	5.2	13.8	5.5	8.6	
NW	3.9	11.3	3.2	.1	.0	19.5	11.2	18.2	10.2	21.2	18.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.7	.0	.0	.0	.0	2.7	.0	2.6	4.1	2.4	2.5	
TOT OBS	422	764	293	85	8	1582	12.5	346	145	302	369	
TOT PCT	26.7	48.3	18.5	6.0	.5	100.0		100.0	100.0	100.0	100.0	

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	
		0-3	4-10	11-21	22-33	34-47				
0000	2.6	9.0	41.9	33.8	10.4	1.7	.6	12.0	100.0	346
0600	4.1	6.2	41.4	33.8	11.0	3.4	.0	12.4	100.0	149
1200	2.4	6.4	36.4	39.4	15.0	2.2	.0	12.3	100.0	302
1800	2.5	7.3	37.5	39.0	9.0	3.6	.2	12.7	100.0	369
TOT	42	115	680	394	168	43	.5	12.5		1582
PCT	2.7	7.3	39.2	37.5	10.4	2.7	.2	100.0		

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

NOVEMBER

CAPE HINCHINBRUNN, AK
60.2N 146.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	.7	1.1	.5	.8	.0	.8	.5	.0	.0	.0	3.0
	NN PCP	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.7	1.1	.5	.8	.0	.8	.5	.0	.0	.1	3.1
1/2<1	PCP	.0	1.2	.0	.4	.0	.0	.1	.4	.0	.0	.0	3.1
	NN PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	1.3	.0	.4	.0	.0	.1	.4	.0	.0	.1	3.1
1<2	PCP	.0	.7	.5	.4	.0	.0	.0	.0	.0	.0	.0	1.6
	NN PCP	.0	.1	.2	.8	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.7	.8	.4	.0	.0	.0	.0	.0	.0	.3	1.9
2<5	PCP	.4	1.9	2.3	1.5	.0	.1	.2	.1	.0	.0	.0	6.6
	NN PCP	.1	.3	.3	.3	.0	.0	.2	.0	.0	.0	.2	
	TOT %	.4	2.2	2.7	1.8	.0	.1	.2	.3	.0	.0	.2	7.8
5<10	PCP	.4	1.7	2.8	.6	.5	.1	.5	.4	.0	.0	.3	7.3
	NN PCP	1.0	4.8	4.6	2.1	1.2	.4	.5	2.2	.0	.1	17.4	
	TOT %	2.2	6.5	7.2	2.7	1.6	.4	1.0	2.7	.0	.4	24.7	
10+	PCP	.0	.3	.2	.0	.0	.0	.0	.1	.0	.0	.0	.6
	NN PCP	13.9	9.7	7.7	2.2	1.6	1.0	5.8	14.8	.0	2.1	58.8	
	TOT %	13.9	10.0	7.9	2.2	1.6	1.0	5.8	14.9	.0	2.1	59.4	
TOT OBS												1556	
TOT PCT		16.8	21.5	20.5	8.0	3.2	1.5	7.1	18.8	.0	2.4	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	.0
	4-10	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.4	
	11-21	.0	.4	.4	.0	.0	.0	.0	.3	.0	.0	1.1	
	22+	.0	.2	.6	.5	.0	.0	.0	.1	.0	.0	1.5	
	TOT %	.1	.7	1.1	.5	.0	.0	.0	.5	.0	.0	3.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.3	.1	.1	.0	.0	.1	.1	.0	.0	.7	
	11-21	.0	.8	.4	.1	.0	.0	.0	.2	.0	.0	1.4	
	22+	.0	.2	.5	.2	.0	.0	.0	.1	.0	.0	1.0	
	TOT %	.0	1.3	.9	.4	.0	.0	.1	.4	.0	.0	3.1	
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.8	
	22+	.0	.1	.3	.4	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.7	.8	.4	.0	.0	.0	.0	.0	.0	1.9	
2<5	0-3	.2	.0	.0	.1	.0	.0	.0	.1	.0	.0	.4	
	4-10	.3	.3	.3	.0	.0	.1	.1	.2	.0	.0	1.1	
	11-21	.1	1.2	1.4	.4	.0	.0	.1	1.1	.0	.0	3.3	
	22+	.0	.7	1.0	1.3	.0	.0	.0	.0	.0	.0	3.0	
	TOT %	.6	2.2	2.7	1.8	.0	.1	.2	.3	.0	.0	7.8	
5<10	0-3	.4	.3	.3	.1	.1	.0	.1	.1	.0	.4	1.7	
	4-10	1.2	1.7	2.3	.4	.2	.1	.3	1.2	.0	.0	7.6	
	11-21	.3	3.7	3.1	1.0	.6	.3	.3	1.4	.0	.0	10.6	
	22+	.1	.8	1.4	1.3	.7	.1	.2	.1	.0	.0	4.7	
	TOT %	2.2	6.5	7.2	2.7	1.6	.4	1.0	2.7	.0	.4	24.7	
10+	0-3	1.3	1.6	.9	.4	.0	.0	.2	1.2	.0	2.1	7.6	
	4-10	9.2	6.6	4.1	.8	.6	2.1	8.9	.0	.0	29.0		
	11-21	3.1	3.4	2.8	.7	.5	.4	3.0	6.3	.0	.0	20.4	
	22+	.2	.4	.1	.4	.3	.0	.3	.3	.0	.0	2.3	
	TOT %	13.9	10.0	7.9	2.2	1.6	1.0	5.8	14.9	.0	2.1	59.4	
TOT OBS												1556	
TOT PCT		16.8	21.5	20.5	8.0	3.2	1.5	7.1	18.8	.0	2.4	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
0000Z	3.4	3.7	2.0	9.2	20.1	61.5	948
0600Z	1.4	1.4	2.1	7.6	27.1	60.4	144
1200Z	2.6	4.0	1.6	8.1	27.1	56.6	903
1800Z	3.6	2.4	2.0	7.0	24.6	60.4	986
TOT	4.8	4.9	3.0	12.5	39.0	94.1	1983
PCT	3.0	3.1	1.9	7.9	24.6	59.4	100.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	48	46	44	37	26	22	19	36.6	394
0600Z	48	47	44	36	25	21	18	35.3	149
1200Z	49	45	43	35	25	21	19	35.2	510
1800Z	49	46	44	37	25	21	17	36.1	596
TOT	49	46	44	36	25	21	17	35.9	1609

DECEMBER

PERIOD: (PRIMARY) 1964-1973
(OVER-ALL) 1964-1973

CAPE MICHIGAN BRN, AK
NO. 2N 146.7-

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PAST HR	SMOKE HAZE	SPRAY ALWG DUST	NT SIG WFA
N	1.6	.0	.3	.0	10.2	.0	.0	12.1	.0	.0	.0	.0	.0	.7	87.9
NE	13.4	.8	3.1	.0	23.7	.6	.2	43.2	.0	.2	4.7	.0	.2	.0	41.9
E	23.3	.9	1.2	.0	26.0	.0	.0	49.8	.0	.0	2.6	.0	.0	.0	47.0
SE	29.3	2.5	3.7	.0	12.7	1.0	.0	48.9	.0	.0	3.5	.0	.0	.0	47.6
S	7.0	.0	1.7	.0	8.1	.0	.0	16.9	.0	.0	.0	.0	.0	.0	83.1
SW	4.4	.0	.0	.0	8.9	.0	.0	13.3	.0	.0	4.4	.0	.0	.0	82.2
W	.7	.0	.7	.0	14.0	.0	.0	15.5	.0	.0	2.8	.0	.0	.0	81.7
NW	.1	.0	.7	.0	6.4	.0	.0	7.2	.0	.0	1.2	.0	.0	.0	91.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2	.0	3.3	.0	3.3	.0	.0	8.9	.0	.0	3.3	.0	1.1	.0	86.7
TOT PCT	10.4	.5	1.8	.0	16.9	.2	.1	29.5	.0	.1	2.7	.0	.1	.0	67.7
TOT OBS	1662														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG W/ PCPN	FOG W/ PAST HR	SMOKE HAZE	SPRAY ALWG DUST	NT SIG WFA
0003	10.5	.5	1.3	.0	16.7	.5	.0	28.6	.0	.0	3.5	.0	.3	.0	67.7
0609	12.5	.7	1.3	.0	17.8	.0	.0	31.6	.0	.7	2.0	.0	.0	.0	66.4
12015	9.9	.2	2.1	.0	17.2	.2	.0	29.4	.0	.0	2.9	.0	.0	.0	67.7
18021	10.2	.8	1.9	.0	16.5	.2	.2	29.5	.0	.0	2.3	.0	.2	.0	68.1
TOT PCT	10.4	.5	1.8	.0	16.9	.2	.1	29.5	.0	.1	2.7	.0	.1	.0	67.7
TOT OBS	1663														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT PRFQ	MEAN SPD	HOUR (GMT)						
	0-9	10-19	20-29	30-39	40-49	50+				00	03	06	09	12	15	18
N	1.3	7.5	4.0	.6	.0	.0	13.5	9.4	13.2	10.1	10.3	11.3	16.7	15.2	14.7	17.9
NE	1.9	9.5	13.6	3.8	.8	.1	29.6	13.9	29.9	31.9	40.6	20.2	28.3	26.4	31.3	29.4
E	.6	4.2	7.8	9.4	1.1	.2	17.2	16.9	18.6	29.8	13.0	27.8	16.3	17.5	13.8	13.9
SE	.1	1.2	2.6	1.5	.6	.8	6.1	19.4	4.9	1.6	7.2	7.7	6.0	3.6	5.7	9.7
S	.3	.9	1.2	.2	.8	.0	2.6	12.6	2.7	4.0	1.9	2.8	1.5	2.1	4.1	7.3
SW	.2	.6	.6	.0	.0	.0	1.4	9.4	2.0	2.4	1.4	1.8	1.5	1.2	.7	1.1
W	.5	3.5	2.4	1.2	.3	.0	8.0	13.1	7.3	4.8	15.9	4.8	6.9	5.3	9.7	
NW	1.0	7.3	7.1	.6	.1	.0	16.2	11.0	17.2	2.4	2.5	1.2	17.2	24.7	16.4	17.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4						5.4	.0	4.2	12.9	2.2	22.6	5.6	3.7	3.6	5.5
TOT OBS	188	578	654	189	49	4	1662	12.8	309	62	90	62	306	217	308	307
TOT PCT	11.3	34.9	39.4	11.4	2.9	.2	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	03	06	09
N	5.5	6.5	1.3	.2	.0	13.5	9.4	12.7	10.7	16.1	12.5
NE	6.3	13.4	8.1	1.8	.1	29.6	13.9	30.3	32.2	27.6	30.3
E	2.8	6.9	5.3	1.6	.6	17.2	16.9	20.5	20.2	16.8	14.9
SE	.6	2.2	1.7	1.5	.1	6.1	19.4	4.3	7.4	5.0	7.7
S	.6	1.2	.6	.1	.0	2.6	12.6	2.9	2.3	1.7	3.2
SW	.9	.7	.2	.0	.0	1.4	9.4	2.1	1.5	1.3	.9
W	2.2	3.4	1.8	.6	.0	8.0	13.1	6.9	13.2	6.4	8.9
NW	3.2	10.7	2.2	.2	.0	16.2	11.0	14.8	2.0	20.3	17.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.4					5.4	.0	5.7	10.5	4.8	4.5
TOT OBS	490	748	352	98	4	1662	12.8	371	192	323	616
TOT PCT	27.1	45.0	21.2	5.9	.2	100.0		100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)				4+%	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33				
0003	5.7	7.8	34.9	35.6	16.8	3.0	.3	12.3	100.0
0609	10.5	3.3	34.2	32.9	15.1	3.9	.0	13.2	100.0
12015	4.8	5.3	27.9	40.3	8.8	2.3	.4	12.3	100.0
18021	4.3	5.7	31.0	42.4	15.0	3.2	.2	13.4	100.0
TOT	90	98	578	654	189	49	4	12.8	1662
PCT	5.4	5.9	34.8	39.6	11.4	2.9	.2	100.0	

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

DECEMBER

CAPE MICHIN BROOK, AK
60.2N 146.7W

TABLE 8

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

VSBY (NH)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DRS
<1/2	PCP	.3	1.7	1.1	.0	.1	.0	.1	.3	.0	.0	.0	3.6
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.3	1.8	1.1	.0	.1	.0	.1	.3	.0	.0	.0	3.7
1/2<1	PCP	.3	2.5	1.1	.2	.0	.1	.5	.1	.0	.1	.0	4.7
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.3	2.6	1.1	.2	.0	.1	.5	.1	.0	.1	.0	4.8
1<2	PCP	.2	1.9	1.1	.2	.0	.0	.1	.3	.0	.1	.0	4.0
	NO PCP	.0	.3	.1	.0	.0	.1	.0	.0	.0	.0	.1	.5
	TOT %	.2	2.2	1.2	.2	.0	.1	.1	.3	.0	.1	.0	4.5
2<5	PCP	.3	3.2	2.2	1.5	.1	.0	.1	.4	.0	.1	.0	8.1
	NO PCP	.0	.3	.1	.0	.0	.0	.2	.0	.0	.0	.1	2.0
	TOT %	.3	3.5	2.3	1.5	.1	.0	.3	.4	.0	.1	.0	10.1
5<10	PCP	.3	3.4	2.9	1.1	.1	.1	.4	.1	.0	.2	.0	8.6
	NO PCP	.0	.4	.3	.0	.0	.0	.2	.0	.0	.0	.1	2.0
	TOT %	.3	3.8	3.2	1.1	.1	.1	.6	.1	.0	.2	.0	10.6
10+	PCP	.1	.2	.2	.0	.0	.0	.1	.0	.0	.0	.0	.5
	NO PCP	11.0	10.6	5.1	1.5	1.6	1.0	6.5	13.8	.0	.0	4.5	55.6
	TOT %	11.1	10.8	5.3	1.5	1.6	1.0	6.6	13.8	.0	.0	4.5	56.1
TOT DRS													1660
TOT PCT													13.5 29.6 17.2 6.1 2.6 1.4 8.0 16.2 .0 5.4 100.0

TABLE 9

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

VSBY (NH)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL DRS
<1/2	0-3	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.1
	4-10	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.4
	11-21	.1	.9	.8	.0	.1	.0	.1	.1	.0	.0	.0	1.9
	22+	.1	.9	.3	.0	.0	.0	.0	.1	.0	.0	.0	1.3
TOT %		.3	1.8	1.1	.0	.1	.0	.1	.3	.0	.0	.0	3.7
1/2<1	0-3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0	.3
	4-10	.1	.3	.1	.0	.0	.1	.2	.0	.0	.0	.0	.8
	11-21	.1	1.2	.7	.2	.0	.0	.1	.1	.0	.0	.0	2.3
	22+	.0	.9	.2	.0	.0	.0	.2	.0	.0	.0	.0	1.4
TOT %		.3	2.6	1.1	.2	.0	.1	.3	.1	.0	.1	.0	4.8
1<2	0-3	.1	.2	.1	.0	.0	.0	.0	.1	.0	.2	.0	.6
	4-10	.1	.4	.0	.0	.0	.0	.1	.1	.0	.0	.0	.7
	11-21	.0	1.1	.3	.1	.0	.1	.0	.1	.0	.0	.0	1.7
	22+	.0	.5	.8	.2	.0	.0	.0	.0	.0	.0	.0	1.5
TOT %		.2	2.2	1.2	.2	.0	.1	.1	.3	.0	.2	.0	4.5
2<5	0-3	.0	.1	.0	.1	.0	.0	.0	.2	.0	.2	.0	.6
	4-10	.2	1.0	.1	.3	.0	.0	.1	.2	.0	.0	.0	1.9
	11-21	.2	1.9	1.2	.5	.0	.0	.1	.1	.0	.0	.0	4.0
	22+	.1	1.0	1.4	1.0	.1	.0	.1	.1	.0	.0	.0	3.6
TOT %		.5	4.0	2.6	1.7	.1	.0	.3	.5	.0	.2	.0	10.1
5<10	0-3	.2	.2	.0	.1	.1	.1	.1	.1	.0	.4	.0	1.1
	4-10	.0	2.5	1.4	.4	.2	.1	.1	.5	.0	.0	.0	5.8
	11-21	.4	4.4	2.9	1.2	.4	.1	.1	.5	.0	.0	.0	10.1
	22+	.0	1.2	1.6	.8	.1	.0	.1	.1	.0	.0	.0	3.8
TOT %		1.1	8.3	5.9	2.4	.7	.2	.4	1.2	.0	.4	.0	20.8
10+	0-3	1.0	1.1	.3	.0	.2	.1	.4	.7	.0	4.5	.0	8.5
	4-10	6.5	5.3	2.5	.9	.7	.5	3.0	6.3	.0	.0	.0	23.3
	11-21	3.2	4.1	1.9	.8	.7	.4	2.1	6.3	.0	.0	.0	19.3
	22+	.4	.3	.4	.2	.1	.0	1.1	.5	.0	.0	.0	3.0
TOT %		11.1	10.8	5.3	1.5	1.6	1.0	6.6	13.8	.0	.0	.0	56.1
TOT DRS													1660
TOT PCT													13.5 29.6 17.2 6.1 2.6 1.4 8.0 16.2 .0 5.4 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DRS
0000Z	3.4	5.4	4.3	8.6	22.4	35.4	370
0600Z	1.3	2.0	2.6	11.8	25.7	56.6	152
1201Z	2.7	5.4	5.7	11.1	21.2	33.9	323
1802Z	5.2	4.7	3.9	9.7	18.2	38.3	616
TOT	80	74	108	345	932	1861	
PCT	3.7	4.8	4.5	10.1	20.8	56.1	100.0

TABLE 15

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

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DRS
0000Z	47	43	40	33	20	13	5	32.4	371
0600Z	50	48	42	34	21	18	15	33.0	152
1201Z	50	42	40	32	19	11	2	31.0	323
1802Z	46	44	40	34	20	12	3	32.0	617
TOT	50	43	40	33	20	13	2	31.9	1662

PERIOD: (PRIMARY) 1966-1974
(OVER-ALL) 1964-1974

ANNUAL

CAPE HINCHINBROOK, AK
60.2N 146.7W

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THNR LTNG	FGG W/ PCPN	FJG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLVG DUST	Nº SIG WFA
N	3.2	.0	.7	.0	4.5	.0	.0	8.3	.0	.0	1.3	.0	.0	.0	90.4
NE	24.2	.3	3.6	.0	12.3	.4	.1	40.6	.0	.0	4.3	.0	.0	.7	54.9
E	24.8	.5	3.3	.0	12.6	.4	.0	41.3	.0	.0	5.3	.0	.0	.1	53.2
SE	21.5	.8	4.3	.0	6.0	.2	.1	32.5	.0	.0	4.8	.0	.1	.2	62.5
S	9.8	.0	.7	.0	3.0	.1	.3	15.8	.0	.0	4.0	.0	.0	.0	80.2
SW	3.6	.0	.0	.0	3.4	.0	.0	9.7	.0	.0	2.4	.0	.0	.0	87.9
W	1.6	.0	.3	.0	3.3	.0	.0	7.2	.0	.0	3.1	.0	.0	.1	89.7
NW	1.7	.1	.6	.0	3.3	.0	.0	5.7	.0	.0	2.1	.0	.0	.0	92.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0	.0	2.2	.0	4.8	.1	.0	9.1	.0	.0	5.3	.0	.1	.0	83.6
TOT PCT	15.0	.3	2.4	.0	8.3	.2	.1	26.0	.0	.0	4.0	.0	.0	.1	69.8
TOT OBS	10144														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OR TIME	PCPN PAST HOUR	THNR LTNG	FGG W/ PCPN	FJG W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLVG DUST	Nº SIG WFA
00003	15.3	.2	2.2	.0	7.8	.2	.1	23.6	.0	.0	3.1	.0	.1	.1	71.1
06009	17.6	.3	1.3	.0	9.0	.2	.0	28.2	.0	.1	3.2	.0	.0	.2	68.4
12015	14.4	.2	2.8	.0	8.3	.4	.1	25.8	.0	.0	4.7	.0	.0	.1	69.4
18021	14.7	.3	2.4	.0	8.3	.1	.1	25.8	.0	.0	4.1	.0	.1	.1	69.8
TOT PCT	15.0	.3	2.4	.0	8.3	.2	.1	26.0	.0	.0	4.0	.0	.0	.1	69.8
TOT OBS	10229														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.2	3.3	2.0	.2	.0	.0		8.7	7.8		5.7	10.3	5.9	13.7	11.0	12.4	9.0	6.2
NE	1.5	8.5	10.0	2.8	.4	.0		23.3	12.8		20.7	11.9	30.1	9.5	24.7	22.4	23.1	21.8
E	1.3	9.7	9.6	9.2	.9	.1		23.9	14.3		24.8	30.0	23.4	31.5	21.6	23.7	22.9	24.7
SE	1.0	4.5	3.6	1.5	.3	.0		10.9	12.8		12.4	17.6	7.3	15.5	9.5	10.2	10.5	11.7
S	1.1	2.9	1.3	.3	.0	.0		5.0	9.9		7.3	7.6	4.5	8.6	5.1	4.6	4.9	5.9
SW	.6	1.8	.4	.0	.0	.0		2.8	7.5		4.3	5.8	3.2	5.9	1.6	1.5	1.9	3.8
W	.6	3.9	2.3	.5	.1	.0		7.6	10.4		8.7	4.0	16.5	2.3	6.4	3.7	7.8	8.5
NW	1.2	7.0	4.6	.3	.0	.0		13.2	9.3		13.0	8.7	3.5	9.4	13.6	18.5	13.9	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.1							4.1	.0		3.1	4.2	5.6	5.7	4.5	3.5	4.0	4.4
TOT OBS							18131		11.3		3422	489	1107	416	3447	2390	3449	3431
TOT PCT	12.6	42.6	34.1	8.8	1.8	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRFQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	09	15	18
N	3.8	4.3	.5	.1	.0		8.7	7.8		6.3	7.9	11.6	7.6
NE	4.8	11.9	5.2	1.2	.1		23.3	12.8		19.8	24.6	24.9	23.5
E	4.6	12.0	5.1	1.9	.3		23.9	14.3		25.4	25.8	22.5	23.4
SE	3.2	4.7	2.1	.9	.1		10.9	13.8		12.9	9.4	9.8	11.1
S	2.9	2.1	.5	.1	.0		5.6	9.9		7.3	5.0	4.9	5.4
SW	1.7	1.0	.1	.0	.0		4.4	7.5		4.4	3.8	1.8	2.8
W	2.3	4.1	.9	.2	.0		7.6	10.4		8.2	12.6	5.1	8.2
NW	3.8	8.1	1.2	.1	.0		13.2	9.3		12.4	5.0	13.6	13.4
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	4.1						4.1	.0		3.2	5.8	4.1	4.2
TOT OBS						18131		11.3		3911	1523	5837	6880
TOT PCT	31.0	48.4	15.3	4.6	.5		100.0			100.0	100.0	100.0	100.0

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	
00003	3.2	6.9	46.1	39.6	8.6	1.3	3911
06009	3.8	6.3	42.7	32.1	10.8	1.9	1323
12015	4.1	9.6	42.6	34.1	7.8	1.7	3837
18021	4.2	8.8	47.7	34.9	9.3	2.0	6880
TOT						11.3	18131
PCT	4.1	8.5	42.6	34.1	8.8	1.8	100.0

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

ANNUAL

CAPE MICHIGAN, AK
60.2N 146.7W

TABLE 8

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

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.1	1.4	1.8	.4	.1	.0	.0	.1	.0	.1	3.9	
	NI PCP	.0	.1	.2	.1	.1	.0	.1	.1	.0	.1	.8	
	TOT %	.1	1.6	1.7	.5	.2	.1	.1	.2	.0	.2	4.6	
1/2<1	PCP	.1	1.4	1.8	.4	.1	.0	.0	.1	.0	.0	4.4	
	NI PCP	.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.7	
	TOT %	.1	1.6	2.0	.6	.2	.1	.2	.2	.0	.0	5.2	
1<2	PCP	.1	1.1	1.0	.5	.1	.0	.0	.1	.0	.0	2.8	
	NI PCP	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	1.2	1.2	.5	.1	.0	.0	.1	.0	.1	3.3	
2<5	PCP	.2	2.1	2.3	1.0	.2	.4	.1	.2	.0	.1	6.3	
	NI PCP	.0	.5	.6	.3	.1	.0	.1	.1	.0	.0	1.8	
	TOT %	.2	2.7	2.9	1.3	.3	.4	.2	.3	.0	.1	8.1	
5<10	PCP	.2	2.6	2.8	.8	.4	.1	.3	.2	.0	.2	7.5	
	NI PCP	.0	4.1	4.4	2.3	1.1	.3	.4	1.1	.0	.4	14.9	
	TOT %	1.0	6.7	7.1	3.2	1.6	.3	.6	1.3	.0	.6	22.4	
10+	PCP	.0	.4	.3	.1	.1	.0	.0	.0	.0	.0	1.1	
	NI PCP	.7	8.9	8.6	4.7	3.5	2.3	6.4	11.0	.0	3.1	55.3	
	TOT %	7.1	9.3	8.9	4.8	3.5	2.3	6.4	11.1	.0	3.1	56.4	
TOT OBS												18020	
TOT PCT		8.7	23.3	23.8	10.9	5.6	2.8	7.5	13.3	.0	4.1	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	.1	.0	.1	.0	.0	.0	.0	.2	.5	
	4-10	.1	.2	.3	.2	.1	.0	.0	.1	.0	.0	1.0	
	11-21	.0	.7	.7	.2	.0	.0	.0	.1	.0	.0	1.8	
	22+	.0	.5	.6	.1	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	.1	1.6	1.7	.5	.2	.1	.1	.2	.0	.0	4.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.3	.3	.1	.1	.1	.1	.1	.0	.0	1.1	
	11-21	.0	.9	.9	.2	.0	.0	.0	.1	.0	.0	2.2	
	22+	.0	.5	.8	.2	.0	.0	.0	.0	.0	.0	1.6	
	TOT %	.1	1.6	2.0	.6	.2	.1	.2	.2	.0	.0	5.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.2	.2	.1	.0	.0	.0	.1	.0	.0	.7	
	11-21	.1	.6	.5	.2	.0	.0	.0	.0	.0	.0	1.4	
	22+	.0	.3	.4	.2	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.1	1.2	1.2	.5	.1	.0	.0	.1	.0	.1	3.3	
2<5	0-3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.1	.5	
	4-10	.1	.4	.6	.3	.1	.0	.1	.2	.0	.0	2.0	
	11-21	.1	1.4	1.4	.5	.1	.0	.0	.1	.0	.0	3.3	
	22+	.0	.6	.9	.5	.0	.0	.0	.0	.0	.0	2.1	
	TOT %	.3	2.7	2.9	1.3	.2	.0	.2	.3	.0	.1	8.1	
5<10	0-3	.2	.3	.3	.2	.2	.1	.2	.2	.0	.6	2.1	
	4-10	.6	2.2	2.4	1.1	.6	.2	.3	.7	.0	.0	8.1	
	11-21	.2	3.3	3.2	1.4	.9	.1	.2	.4	.0	.0	9.2	
	22+	.0	.9	1.3	.5	.1	.0	.0	.0	.0	.0	3.0	
	TOT %	1.0	6.7	7.1	3.2	1.4	.3	.6	1.3	.0	.6	22.4	
10+	0-3	.9	1.0	.8	.6	.8	.5	.4	1.0	.0	3.1	9.1	
	4-10	4.4	5.0	5.0	2.8	2.0	1.4	3.3	3.9	.0	.0	29.8	
	11-21	1.6	3.1	2.9	1.2	.7	.4	2.2	3.9	.0	.0	13.9	
	22+	.1	.2	.2	.2	.1	.0	.3	.3	.0	.0	1.6	
	TOT %	7.1	9.3	8.9	4.8	3.5	2.3	6.4	11.1	.0	3.1	56.4	
TOT OBS												18020	
TOT PCT		8.7	23.3	23.8	10.9	5.6	2.8	7.5	13.3	.0	4.1	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
0000	4.5	3.3	3.3	7.1	20.7	59.1	3900
0600	1.7	3.0	2.8	7.1	20.4	62.9	1913
1200	4.9	3.2	3.4	9.2	24.6	52.7	5932
1800	3.1	3.1	3.3	7.9	21.7	56.9	6958
TOT PCT	4.6	3.2	3.3	8.1	22.3	56.5	18109

TABLE 12

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

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
0000	76	54	50	42	34	29	5	42.4	3998
0600	87	50	47	40	31	28	3	39.6	1585
1200	87	49	46	40	31	27	2	39.7	5861
1800	72	52	49	41	32	28	2	41.2	6910
TOT	76	52	48	41	32	28	2	40.8	18284