CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

YAKUTAT, AK (59°31'N, 139°40'W) 28 feet (8.5 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1007.9	1006.9	1008.6	1010.8	1014.3	1015.1	1017.0	1015.0	1011.4	1005.2	1004.9	1004.9	1010.2	43
TEMPERATURE (DEGREES F)														
Mean	25.0	28.0	31.0	36.9	43.7	50.0	53.9	53.5	48.6	41.1	32.4	27.8	39.4	47
Mean Daily Maximum	31.4	34.9	38.4	44.1	50.4	56.1	59.5	59.9	55.4	47.2	38.1	33.4	45.8	47
Mean Daily Minimum	18.1	20.7	23.2	29.2	36.5	43.4	47.8	46.6	41.2	34.4	26.1	21.8	32.5	47
Extreme - Highest	55	54	59	71	79	87	84	86	77	63	55	52	87	47
Extreme - Lowest	-22	-20	-20	4	21	29	35	29	21	6	-6	-24	-24	47
RELATIVE HUMIDITY														
Average Percentage	82.5	82.5	81.2	81.4	82.6	84.3	87.3	88.2	88.6	87.0	85.1	84.6	84.7	43.0
CLOUD COVER														
Percent of time Clear	16.1	14.3	13.1	10.5	6.6	4.3	3.7	6.7	7.5	8.1	11.9	12.3	9.6	43.0
Percent of time Scattered	11.6	10.1	11.6	12.9	10.3	9.9	9.5	11.5	11.1	9.0	10.2	10.1	10.6	43.0
Percent of time Broken	11.8	12.3	15.0	16.3	18.1	17.0	15.4	15.3	15.4	15.0	13.9	12.4	14.8	43.0
Percent of time Overcast	60.5	63.3	60.3	60.3	65.0	68.7	71.5	66.5	66.0	67.9	63.9	65.2	64.9	43.0
PRECIPITATION														
Mean Amount (inches)	11.59	10.03	10.48	9.05	9.35	6.58	8.13	11.57	18.45	21.20	15.19	14.47	146.10	47
Greatest Amount (inches)	31.81	32.01	37.28	19.12	18.95	18.34	21.49	27.74	48.33	48.81	43.88	35.21	250.24	47
Least Amount (inches)	1.59	0.21	2.06	1.92	2.73	0.68	1.70	2.42	2.44	6.68	3.23	3.79	85.99	47
Maximum Amount-24 hrs (inches)	4.56	4.55	7.80	3.28	4.65	5.81	7.12	4.62	7.46	6.77	4.75	10.22	10.22	47
Mean Number of Days with Precipitation	22	20	22	21	23	22	23	22	23	26	23	24	271	47
Snow - Mean Amount (inches)	38.2	12.4	38.0	16.8	1.4	T	0.0	0.0	0.0	5.2	22.6	37.8	172.4	46
Snow - Greatest Amount (inches)	116.2	24.7	111.0	55.6	15.0	T	0.0	0.0	0.8	36.0	77.1	91.6	338.5	46
Snow - Least Snowfall Amount (inches)	0.4	T	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.9	60.3	46
Snow - Maximum Amount in 24 hours (inches)	23.5	12.5	30.0	15.5	7.0	0.0	0.0	0.0	0.8	12.1	15.3	18.2	30.0	46
Mean Number of Days with Snow	17	16	17	12	2	0	0	0	0	5	14	19	102	47
WIND														
% of Observations with Gales	0.10	0.07	0.07	0.09	0.03	0.04	0.00	0.00	0.10	0.27	0.34	0.22	0.11	43
Mean Wind Speed (knots)	6.5	6.7	6.3	6.3	6.7	6.3	5.8	5.6	6.1	7.2	6.7	6.9	6.4	43
Direction (percentage of observations)														
North	0.9	1.3	1.5	2.0	2.4	2.3	1.9	1.8	2.1	1.5	1.0	0.7	1.6	43
North Northeast	1.1	1.5	1.4	1.5	1.8	1.4	1.0	1.2	1.4	1.5	1.4	1.1	1.3	43
Northeast	5.1	4.5	4.2	4.4	3.4	1.7	1.5	2.5	4.2	4.8	5.2	5.4	3.9	43
East Northeast	18.4	15.7	14.6	12.5	8.5	5.3	5.7	8.5	13.0	16.5	18.7	18.5	13.0	43
East	21.1	20.4	20.2	16.1	11.8	8.7	10.5	13.0	17.7	21.5	23.1	22.3	17.2	43
East Southeast	14.9	14.6	15.9	13.9	12.9	10.4	12.6	13.1	12.3	15.0	14.1	14.9	13.7	43
Southeast	5.4	7.0	6.4	7.1	8.1	8.2	7.9	6.8	7.1	6.4	5.5	5.8	6.8	43
South Southeast	2.0	2.4	2.4	3.3	4.9	4.9	4.3	3.9	3.5	3.4	2.2	2.1	3.3	43
South	1.6	1.9	1.9	2.5	3.7	4.0	3.3	2.9	2.9	2.6	1.7	1.5	2.6	43
South Southwest	1.2	1.5	1.3	1.5	2.5	2.9	2.4	2.3	1.7	1.5	1.2	1.2	1.8	43
Southwest	0.9	1.3	1.9	2.5	3.2	4.7	4.7	3.4	2.1	1.8	1.0	1.1	2.4	43
West Southwest	0.9	1.3	1.9	3.5	4.8	7.3	7.0	4.8	2.9	1.7	1.3	1.3	3.2	43
West	0.7	1.2	1.5	2.6	4.6	7.2	6.0	4.2	2.5	1.1	1.0	0.9	2.8	43
West Northwest	0.6	1.2	1.5	3.3	5.4	7.9	6.9	4.9	3.0	1.2	0.7	0.9	3.1	43
Northwest	0.7	1.3	1.8	3.9	5.1	6.3	6.1	5.2	3.2	1.7	0.8	0.7	3.1	43
North Northwest	0.6	1.0	1.4	2.2	3.0	3.1	3.2	3.2	1.8	1.1	0.7	0.7	1.8	43
Calm	24.2	22.0	20.0	17.4	14.4	13.9	15.4	18.3	18.9	16.7	20.9	20.9	18.6	43
Direction (Mean Speed, knots)														
North	3.6	4.1	3.8	4.7	4.9	5.1	4.5	4.2	4.1	4.5	3.5	3.7	4.4	43
North Northeast	4.6	5.2	4.5	4.9	5.1	5.2	4.5	4.5	4.8	4.7	5.0	4.4	4.8	43
Northeast	5.8	6.0	5.6	5.4	5.3	5.2	4.8	5.1	5.4	5.6	5.5	6.0	5.6	43
East Northeast	7.2	7.2	7.0	6.6	6.2	5.8	5.6	5.5	6.3	6.8	6.7	7.1	6.7	43
East	8.5	8.6	8.2	7.7	7.7	7.1	6.8	6.8	7.5	8.3	8.3	8.7	8.0	43
East Southeast	10.6	10.0	9.3	9.8	9.8	8.8	8.3	8.9	9.6	10.7	10.1	10.0	9.7	43
Southeast	11.8	12.3	11.0	11.0	10.9	9.8	8.8	9.5	11.2	13.7	13.9	13.9	11.3	43
South Southeast	10.6	10.1	8.8	8.9	8.8	8.1	7.7	7.9	9.4	12.3	13.0	11.8	9.4	43
South	8.4	7.9	7.0	6.7	7.2	6.3	6.0	6.2	7.4	8.7	9.6	9.5	7.3	43
South Southwest	10.8	10.3	7.5	6.8	7.2	6.3	5.9	6.1	7.4	9.9	11.0	10.6	7.8	43
Southwest	11.9	10.7	7.4	6.8	7.2	6.9	6.5	6.3	7.2	9.8	11.0	10.8	7.6	43
West Southwest	9.7	9.5	6.9	6.9	7.2	7.4	6.8	6.5	6.6	8.3	10.7	10.5	7.4	43
West	7.8	6.6	6.0	5.9	6.5	6.9	6.6	6.0	6.2	6.4	7.1	7.3	6.5	43
West Northwest	8.3	6.4	6.4	6.5	6.8	6.9	6.5	6.1	6.0	6.1	7.2	7.2	6.6	43
Northwest	5.1	5.2	6.0	6.9	7.5	7.0	6.2	6.4	5.9	5.8	5.3	5.6	6.5	43
North Northwest	4.8	5.0	5.2	5.9	6.6	6.2	5.6	5.5	5.5	5.4	4.6	4.7	5.7	43
VISIBILITY														
Mean Number of Days with Fog	14	14	15	15	15	17	22	24	20	16	14	14	200	47
% Observations with Visibility <= ½ mile	1.82	1.52	1.71	1.06	0.80	1.05	0.89	1.60	1.26	0.23	0.49	1.06	1.12	43

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

CORDOVA, AK (60°30'N, 145°4730'W) 41 feet (12.5 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1006.9	1005.9	1006.6	1010.0	1013.9	1014.3	1015.7	1013.8	1009.4	1001.8	1002.5	1001.7	1008.6	19
TEMPERATURE (DEGREES F)														
Mean	23.4	26.4	29.9	36.9	44.3	50.7	54.2	53.7	48.3	39.7	30.3	25.4	38.7	47
Mean Daily Maximum	30.9	34.3	38.0	44.6	51.9	57.9	61.2	61.4	56.0	46.6	37.0	32.2	46.1	47
Mean Daily Minimum	15.3	18.0	21.3	28.8	36.1	42.9	46.7	45.5	40.1	32.4	23.0	18.1	30.8	47
Extreme - Highest	58	58	59	67	82	84	89	86	73	70	55	54	89	47
Extreme - Lowest	-30	-21	-24	-2	19	29	33	29	20	-1	-17	-23	-30	47
RELATIVE HUMIDITY														
Average Percentage	83.4	83.0	79.7	78.5	80.7	81.7	85.5	85.5	85.2	84.0	85.0	84.0	83.0	20
CLOUD COVER														
Percent of time Clear	19.8	19.1	19.9	16.0	8.1	5.7	4.8	8.6	9.6	12.1	15.5	17.5	13.0	19
Percent of time Scattered	12.8	11.4	12.8	11.0	10.6	10.1	8.0	10.9	9.8	10.4	10.4	11.3	10.8	19
Percent of time Broken	12.4	12.6	14.3	16.7	15.3	15.9	13.9	15.1	15.0	14.2	13.5	12.7	14.3	19
Percent of time Overcast	55.1	56.8	52.9	56.2	66.1	68.3	73.2	65.3	65.6	63.3	60.6	58.5	61.9	19
PRECIPITATION														
Mean Amount (inches)	6.59	6.39	5.98	5.57	6.21	5.26	6.42	8.94	14.19	12.87	8.27	8.67	95.36	47
Greatest Amount (inches)	19.62	18.97	16.42	12.17	13.56	12.40	18.28	32.52	29.28	26.63	30.59	26.38	139.34	47
Least Amount (inches)	0.64	0.64	0.00	0.28	1.91	0.69	1.71	2.57	4.32	2.40	0.38	1.87	66.77	47
Maximum Amount-24 hrs (inches)	2.93	3.70	3.60	4.43	2.85	2.85	4.62	7.61	6.20	4.96	4.63	4.80	7.61	47
Mean Number of Days with Precipitation	19	19	20	21	23	22	23	22	23	24	21	22	259	47
Snow - Mean Amount (inches)	22.1	21.5	25.2	12.4	1.4	0.0	0.0	0.0	T	3.0	11.8	26.7	124.2	47
Snow - Greatest Amount (inches)	65.9	80.2	89.3	61.2	18.5	0.0	0.0	0.0	T	18.1	47.9	80.2	222.3	47
Snow - Least Snowfall Amount (inches)	0.2	1.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	49.8	47
Snow - Maximum Amount in 24 hours (inches)	17.0	24.2	18.0	16.9	9.6	0.0	0.0	0.0	0.0	9.4	18.1	25.8	25.8	47
Mean Number of Days with Snow	14	15	16	11	2	0	0	0	0	4	13	17	92	47
WIND														
% of Observations with Gales	0.04	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	4.20	20
Mean Wind Speed (knots)	4.3	4.6	4.5	4.9	4.7	4.2	3.6	3.5	4.3	5.1	4.5	4.5	4.4	20
Direction (percentage of observations)														
North	5.0	3.8	4.4	4.1	2.3	2.1	1.8	2.7	2.8	3.3	4.6	4.2	3.4	20
North Northeast	3.5	2.4	3.0	2.4	1.9	1.8	2.3	2.0	3.0	3.4	3.3	3.3	2.7	20
Northeast	4.1	4.1	3.7	3.6	3.2	3.8	5.6	6.2	6.8	5.6	4.8	4.6	4.7	20
East Northeast	8.0	7.0	7.0	6.3	5.6	8.8	10.6	9.6	12.3	11.8	9.0	9.4	8.8	20
East	13.1	14.0	10.9	11.5	11.5	10.8	12.2	13.0	15.1	18.7	16.0	15.3	13.5	20
East Southeast	11.8	13.0	12.3	12.7	11.9	6.4	6.4	6.6	9.9	12.3	12.0	11.9	10.6	20
Southeast	4.0	4.2	5.8	7.0	7.6	5.9	4.3	4.4	4.7	4.5	4.3	4.3	5.1	20
South Southeast	0.7	1.1	1.6	2.2	3.4	2.8	2.2	2.1	1.6	1.4	0.9	0.7	1.7	20
South	0.7	1.0	2.0	2.5	3.2	3.1	2.3	2.0	1.2	0.9	0.9	0.7	1.7	20
South Southwest	0.4	0.7	1.6	2.7	2.6	3.5	3.5	2.4	1.4	0.7	0.4	0.3	1.7	20
Southwest	0.5	1.2	2.6	3.7	5.8	7.4	6.1	4.9	2.0	1.2	0.7	0.6	3.1	20
West Southwest	0.2	0.7	1.5	2.3	4.3	5.2	3.8	3.4	2.0	0.8	0.3	0.4	2.1	20
West	0.8	2.0	2.2	2.2	3.2	4.2	2.7	2.5	1.9	1.5	1.1	0.7	2.1	20
West Northwest	1.4	2.0	2.2	2.6	2.4	2.9	1.5	1.6	1.7	1.5	1.1	1.3	1.9	20
Northwest	2.0	2.5	1.8	2.4	1.5	1.7	1.4	1.4	1.7	2.1	1.7	2.1	1.8	20
North Northwest	2.7	2.4	2.3	2.6	1.7	1.1	0.9	1.4	1.9	1.7	2.6	2.5	2.0	20
Calm	41.1	37.9	35.2	29.0	28.0	28.3	32.7	33.9	30.2	28.7	36.2	37.9	33.2	20
Direction (Mean Speed, knots)														
North	5.6	5.9	5.0	4.7	4.0	3.8	3.4	4.1	4.6	4.6	5.7	5.7	5.0	20
North Northeast	5.1	7.4	6.1	4.9	4.4	3.6	3.4	3.9	4.6	4.6	5.6	5.8	5.0	20
Northeast	5.8	5.9	5.8	5.4	4.1	4.1	3.7	4.1	4.4	5.2	5.4	6.0	4.9	20
East Northeast	7.3	7.4	7.6	7.1	5.4	4.9	4.6	5.2	5.8	7.0	6.9	7.2	6.3	20
East	8.4	8.2	7.9	7.7	7.0	5.4	4.9	5.5	6.6	8.0	7.5	7.8	7.1	20
East Southeast	10.3	9.8	9.6	9.3	8.9	7.1	6.9	7.0	8.8	10.0	10.1	9.6	9.2	20
Southeast	7.7	7.8	7.5	8.1	8.0	7.1	7.1	6.4	7.5	7.5	7.2	7.7	7.5	20
South Southeast	5.7	6.9	6.2	6.6	7.2	6.7	6.2	5.4	6.6	6.6	7.3	6.8	6.5	20
South	4.2	5.1	4.8	5.7	5.7	5.8	5.2	5.0	5.8	4.9	4.2	5.2	5.3	20
South Southwest	5.1	4.9	4.7	5.6	5.6	5.9	5.8	5.7	5.4	5.4	6.0	5.4	5.6	20
Southwest	3.8	3.9	4.6	5.6	6.2	6.5	6.2	5.7	5.3	5.5	4.1	4.0	5.8	20
West Southwest	5.4	5.0	4.8	5.7	6.3	6.8	6.6	5.8	5.7	5.0	5.4	4.6	6.1	20
West	4.2	4.8	4.8	5.4	5.8	6.2	5.8	4.6	4.8	5.1	5.2	4.2	5.3	20
West Northwest	4.4	4.6	5.1	5.2	5.4	6.4	5.7	5.2	5.7	5.7	5.1	5.2	5.4	20
Northwest	4.1	4.6	4.3	4.5	3.9	4.4	4.0	3.6	3.6	4.5	4.5	4.4	4.2	20
North Northwest	5.4	5.8	5.2	5.2	3.8	4.0	3.4	4.0	4.6	4.6	5.0	6.0	4.9	20
VISIBILITY														
Mean Number of Days with Fog	10	10	9	9	10	12	17	17	14	12	10	11	141	47
% Observations with Visibility <= ½ mile	1.72	0.99	0.70	0.53	0.47	0.49	0.47	0.55	0.27	0.02	0.22	0.54	0.59	20

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

VALDEZ, AK (61°08'N, 146°21'W) 49 feet (14.9 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1005.8	1009.2	1008.8	1010.5	1013.3	1014.9	1017.0	1015.0	1011.6	1006.3	1004.4	1005.8	1010.2	15
TEMPERATURE (DEGREES F)														
Mean	24.9	25.5	31.1	38.2	46.2	52.4	55.3	53.8	47.3	38.8	28.5	25.1	39.1	21
Mean Daily Maximum	29.0	30.2	36.7	44.7	52.9	59.1	62.0	60.6	53.1	43.2	32.5	29.1	44.6	21
Mean Daily Minimum	20.4	20.3	25.0	31.2	39.1	45.1	48.1	46.5	41.1	33.8	23.9	20.7	33.1	21
Extreme - Highest	46	52	50	62	78	79	85	82	73	58	50	52	85	21
Extreme - Lowest	-8	-5	4	9	30	35	40	32	25	8	1	-6	-8	21
RELATIVE HUMIDITY														
Average Percentage	75.4	71.1	70.4	71.6	73.8	76.7	81.4	83.6	83.6	75.7	71.5	77.8	76.1	15
CLOUD COVER														
Percent of time Clear	18.0	24.4	22.7	16.4	10.8	7.7	8.0	11.1	11.5	15.4	20.4	14.3	15.0	14
Percent of time Scattered	9.5	10.2	9.8	13.0	11.0	11.0	9.8	10.8	9.2	9.2	11.8	8.9	10.3	14
Percent of time Broken	12.2	9.3	13.0	13.8	15.5	16.4	14.9	15.1	12.1	13.1	12.4	11.2	13.3	14
Percent of time Overcast	60.3	56.2	54.5	56.8	62.7	64.9	67.3	63.0	67.1	62.4	55.4	65.6	61.4	14
PRECIPITATION														
Mean Amount (inches)	7.23	5.46	5.15	3.35	3.05	3.04	4.11	6.57	10.33	9.05	5.97	8.37	71.67	21
Greatest Amount (inches)	12.53	9.76	9.99	8.11	6.29	6.05	8.96	18.23	16.69	15.43	20.59	17.34	93.30	21
Least Amount (inches)	0.99	0.57	0.81	0.57	0.71	0.93	1.25	2.08	4.78	2.49	0.42	1.34	54.81	21
Maximum Amount-24 hrs (inches)	2.79	2.69	1.85	2.03	1.32	1.30	1.84	3.17	2.98	3.28	3.93	3.05	3.93	21
Mean Number of Days with Precipitation	20	17	18	17	21	19	21	20	22	22	18	21	236	19
Snow - Mean Amount (inches)	67.4	52.8	60.0	20.4	0.9	0.0	0.0	0.0	0.2	10.1	43.4	78.7	333.9	21
Snow - Greatest Amount (inches)	148.5	100.8	113.9	71.4	6.5	0.0	0.0	0.0	4.6	39.0	108.2	137.1	445.8	21
Snow - Least Snowfall Amount (inches)	17.0	4.6	10.1	0.7	0.0	0.0	0.0	0.0	0.0	T	5.8	9.3	170.4	21
Snow - Maximum Amount in 24 hours (inches)	47.5	24.9	30.9	31.8	5.8	0.0	0.0	0.0	4.0	15.3	25.7	27.6	47.5	21
Mean Number of Days with Snow	18	15	17	9	1	0	0	0	0	7	17	20	104	19
WIND														
% of Observations with Gales	0.30	0.40	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.41	0.02	1.98	16
Mean Wind Speed (knots)	6.5	7.2	5.8	4.3	5.0	5.3	4.5	3.8	3.8	5.4	6.9	5.5	5.3	16
Direction (percentage of observations)														
North	4.1	4.5	3.6	2.9	1.6	1.0	0.8	1.4	3.6	4.2	4.5	4.4	3.0	16
North Northeast	4.5	4.1	3.3	2.6	1.0	0.9	0.8	1.5	3.8	3.8	4.1	4.5	2.9	16
Northeast	10.2	9.4	7.6	4.0	1.8	1.1	1.2	2.0	4.6	7.9	10.3	10.3	5.9	16
East Northeast	24.2	22.3	15.7	9.5	3.3	2.5	2.8	3.1	6.5	16.8	23.6	21.5	12.6	16
East	13.9	13.8	10.6	7.5	4.1	2.6	3.1	3.5	5.4	11.3	15.3	12.5	8.6	16
East Southeast	7.4	7.6	7.3	5.6	4.3	2.0	2.3	3.1	4.0	6.6	7.8	6.4	5.4	16
Southeast	2.6	3.5	3.1	3.4	2.7	2.1	1.5	2.0	2.8	3.8	3.1	2.3	2.7	16
South Southeast	1.0	1.0	1.5	2.1	2.2	1.7	1.8	2.1	1.8	1.3	0.8	1.2	1.5	16
South	0.9	1.1	1.5	2.7	3.9	2.5	3.3	3.6	2.9	1.8	0.9	0.9	2.2	16
South Southwest	0.6	0.9	1.5	3.8	4.4	4.6	5.4	4.8	3.3	1.5	0.5	0.6	2.7	16
Southwest	1.2	1.2	2.8	7.9	12.7	12.8	13.2	11.7	7.8	3.2	0.9	1.2	6.4	16
West Southwest	1.8	2.3	5.0	9.0	19.2	24.5	20.4	16.6	10.3	4.4	1.6	2.1	9.8	16
West	2.2	2.4	3.8	5.6	10.1	13.4	11.3	7.2	5.2	3.2	1.8	2.5	5.7	16
West Northwest	2.2	3.2	4.3	6.4	7.9	8.3	6.3	5.4	4.9	4.1	2.5	3.2	4.9	16
Northwest	2.7	2.9	4.4	4.1	3.7	1.9	1.7	2.4	3.4	3.5	3.0	2.9	3.1	16
North Northwest	2.9	3.1	3.7	3.2	2.0	1.0	0.9	1.5	3.1	3.3	3.3	3.1	2.6	16
Calm	17.8	16.7	20.1	20.1	15.4	17.5	23.9	28.6	26.3	19.0	16.3	20.7	20.2	16
Direction (Mean Speed, knots)														
North	8.0	11.3	9.7	5.3	4.8	2.9	3.2	5.3	6.2	7.3	11.4	6.7	7.9	16
North Northeast	6.9	8.9	7.2	4.9	4.1	4.4	4.1	5.2	5.4	6.7	7.2	6.1	6.5	16
Northeast	7.6	8.2	7.0	5.8	4.6	4.4	4.6	5.5	5.6	6.7	7.5	6.6	6.9	16
East Northeast	9.1	9.2	8.3	6.0	4.7	4.2	4.6	5.3	6.1	7.8	9.4	8.5	8.2	16
East	8.2	8.3	7.4	5.5	4.2	3.9	4.0	3.9	5.5	7.0	7.9	7.1	6.9	16
East Southeast	8.4	10.5	8.7	6.2	4.4	4.2	4.2	4.5	6.3	8.3	9.0	7.3	7.6	16
Southeast	9.7	11.5	10.9	6.6	4.7	4.3	4.2	5.0	5.4	8.5	8.7	7.9	7.6	16
South Southeast	5.9	6.2	5.2	4.7	4.4	3.7	3.9	4.2	4.4	5.2	6.2	5.1	4.7	16
South	3.8	4.8	4.1	3.8	3.8	3.7	3.4	3.5	3.2	4.0	3.9	4.3	3.7	16
South Southwest	5.3	5.5	4.2	4.4	4.6	4.3	4.2	4.1	4.1	4.3	6.3	4.6	4.4	16
Southwest	5.8	6.4	4.8	4.8	5.9	5.7	5.2	4.9	4.7	4.9	5.8	4.9	5.2	16
West Southwest	5.8	5.1	5.1	5.2	7.5	7.6	6.8	5.7	5.2	4.7	5.1	4.6	6.4	16
West	5.0	5.4	4.9	5.4	8.0	8.5	8.3	7.4	5.2	4.4	4.6	4.5	6.9	16
West Northwest	5.2	5.6	5.1	5.1	6.3	7.2	7.3	6.5	5.2	4.5	5.3	5.0	5.9	16
Northwest	5.9	6.3	6.2	5.4	4.9	5.3	5.4	5.1	5.2	5.3	6.2	5.2	5.6	16
North Northwest	8.5	9.3	8.8	5.8	5.2	4.1	4.2	4.5	6.0	7.1	9.1	7.4	7.2	16
VISIBILITY														
Mean Number of Days with Fog	11	10	12	9	8	10	17	18	17	15	10	11	148	19
% Observations with Visibility <= ½ mile	0.88	1.00	0.49	0.31	0.03	0.13	0.62	1.16	0.82	0.36	0.46	0.74	0.58	16

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

ANCHORAGE, AK (61°10'N, 150°01'W) 114 feet (34.7 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1007.9	1006.8	1008.1	1009.2	1011.3	1012.8	1014.8	1012.3	1008.8	1003.5	1004.1	1004.1	1008.6	42
TEMPERATURE (DEGREES F)														
Mean	15.3	18.4	25.2	36.1	47.0	54.9	58.5	56.6	48.4	34.8	21.7	16.3	36.1	42
Mean Daily Maximum	21.6	25.5	32.8	43.3	54.7	62.1	65.1	63.2	55.1	40.5	27.5	22.3	42.8	42
Mean Daily Minimum	8.3	10.8	17.1	28.5	38.9	47.2	51.4	49.4	41.3	28.5	15.3	9.6	28.9	42
Extreme - Highest	50	48	51	65	77	85	82	82	73	61	53	48	85	42
Extreme - Lowest	-34	-26	-24	-4	17	33	36	31	19	-5	-21	-30	-34	42
RELATIVE HUMIDITY														
Average Percentage	73.9	71.5	66.6	64.8	61.9	65.4	71.7	74.9	75.9	74.4	76.6	77.0	71.2	42
CLOUD COVER														
Percent of time Clear	19.2	21.3	23.3	15.2	8.8	5.4	6.4	8.2	10.0	14.6	17.9	16.1	13.8	42
Percent of time Scattered	13.1	12.1	13.3	15.9	15.8	15.6	15.0	15.1	13.6	12.2	12.9	12.0	13.9	42
Percent of time Broken	15.1	14.4	14.9	17.4	20.6	23.8	20.6	18.8	16.7	15.3	15.2	14.0	17.2	42
Percent of time Overcast	52.5	52.1	48.4	51.5	54.8	55.2	57.9	57.9	59.8	57.8	53.9	57.9	55.0	42
PRECIPITATION														
Mean Amount (inches)	0.79	0.84	0.66	0.59	0.67	1.04	1.88	2.45	2.66	1.89	1.13	1.08	15.68	42
Greatest Amount (inches)	2.71	3.07	2.76	1.91	1.93	3.40	4.44	9.77	6.64	4.11	2.84	2.67	27.55	42
Least Amount (inches)	0.02	0.07	T	T	0.02	0.17	0.42	0.33	0.76	0.35	0.08	0.09	8.08	42
Maximum Amount-24 hrs (inches)	1.10	1.16	1.25	0.78	0.97	1.62	2.00	2.71	1.32	1.60	1.16	1.39	2.71	42
Mean Number of Days with Precipitation	18	15	14	13	15	16	18	19	20	18	17	20	203	42
Snow - Mean Amount (inches)	9.6	12.1	9.7	5.3	0.2	0.0	0.0	0.0	0.3	8.0	11.6	14.6	71.4	42
Snow - Greatest Amount (inches)	27.5	48.5	31.0	27.6	3.9	0.0	0.0	0.0	4.6	27.1	38.8	41.6	171.6	42
Snow - Least Snowfall Amount (inches)	0.5	0.6	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.9	1.4	28.9	42
Snow - Maximum Amount in 24 hours (inches)	7.8	12.4	14.3	8.3	3.9	0.0	0.0	0.0	3.0	8.6	10.9	15.6	15.6	42
Mean Number of Days with Snow	17	14	13	9	1	0	0	0	1	9	15	19	98	42
WIND														
% of Observations with Gales	0.11	0.14	0.06	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.80	42
Mean Wind Speed (knots)	5.6	6.1	6.0	6.3	7.3	7.3	6.4	6.0	5.8	5.9	5.6	5.4	6.1	42
Direction (percentage of observations)														
North	15.8	16.7	15.5	10.2	4.1	2.8	3.7	5.9	8.4	17.7	18.3	16.5	11.3	42
North Northeast	13.4	14.4	13.0	9.1	3.7	2.5	4.0	6.5	9.1	13.8	15.2	14.0	9.9	42
Northeast	8.5	9.1	7.6	5.5	2.8	1.9	2.8	4.5	5.8	7.7	9.7	8.2	6.2	42
East Northeast	5.2	3.8	2.7	1.6	1.5	1.1	1.3	2.2	2.6	3.8	4.7	4.7	2.9	42
East	3.8	2.6	1.8	1.3	1.1	1.0	1.0	1.5	1.6	2.3	3.4	3.9	2.1	42
East Southeast	2.9	2.5	1.5	1.6	1.4	1.2	1.4	1.8	2.0	2.0	2.7	2.7	2.0	42
Southeast	2.6	2.7	3.0	3.5	5.3	4.3	3.8	4.6	4.2	2.7	2.4	2.3	3.4	42
South Southeast	3.4	4.0	5.5	9.7	17.7	18.2	14.5	13.2	12.3	5.8	3.7	3.3	9.3	42
South	4.6	4.5	5.3	9.6	15.7	15.8	13.2	11.3	10.6	5.7	4.5	4.7	8.8	42
South Southwest	3.0	3.4	3.8	5.1	7.8	9.0	8.5	7.9	6.3	4.0	2.8	3.0	5.4	42
Southwest	1.9	2.0	2.5	3.5	5.4	6.2	6.3	4.8	3.2	2.2	1.6	2.1	3.5	42
West Southwest	2.3	2.3	2.8	3.7	4.7	6.3	6.2	4.6	3.1	1.8	1.8	1.9	3.4	42
West	2.6	2.9	4.4	6.0	5.9	6.6	6.9	4.6	3.8	2.5	1.9	2.4	4.2	42
West Northwest	3.8	4.6	6.3	9.7	9.3	10.9	11.5	7.5	4.8	3.7	3.2	3.7	6.6	42
Northwest	4.4	4.3	5.5	6.6	5.8	6.1	6.4	6.2	5.0	4.8	4.1	4.7	5.3	42
North Northwest	7.7	8.2	9.3	6.6	3.4	2.2	2.6	4.1	5.9	9.3	8.2	8.4	6.3	42
Calm	13.9	11.8	9.5	6.4	4.5	4.5	6.1	8.9	11.2	10.1	12.0	13.4	9.4	42
Direction (Mean Speed, knots)														
North	7.5	7.8	6.9	6.3	5.2	4.5	4.5	5.2	5.8	6.9	7.2	7.3	6.8	42
North Northeast	7.7	8.3	7.6	6.6	6.3	5.9	5.9	5.9	6.1	7.0	7.1	7.3	7.1	42
Northeast	6.5	7.3	6.7	6.2	5.7	5.9	6.1	5.8	5.9	5.9	5.8	5.6	6.2	42
East Northeast	4.7	4.8	4.8	5.0	5.2	4.8	4.7	4.8	4.8	4.6	4.6	4.5	4.7	42
East	3.7	3.7	3.5	3.7	4.0	4.0	3.8	3.7	3.9	4.1	3.8	3.9	3.8	42
East Southeast	4.4	4.2	4.7	5.5	5.7	4.7	4.6	5.3	4.7	4.7	4.3	4.2	4.6	42
Southeast	6.4	6.8	7.4	8.5	8.9	8.9	7.7	7.8	8.3	7.6	6.1	5.7	7.7	42
South Southeast	8.7	9.2	9.1	9.6	10.7	10.8	9.7	9.5	9.2	9.2	9.3	8.0	9.8	42
South	6.5	6.8	7.4	7.8	8.9	8.8	7.9	7.6	7.5	7.5	7.2	6.8	7.9	42
South Southwest	7.3	6.9	6.6	6.5	7.1	7.1	6.4	7.0	7.0	7.8	7.4	7.2	7.0	42
Southwest	6.5	6.1	5.7	5.7	6.3	6.1	5.8	5.7	5.6	5.6	5.2	5.9	5.9	42
West Southwest	4.5	4.8	4.5	5.2	6.2	6.1	5.8	5.2	4.7	4.5	4.3	4.3	5.3	42
West	4.1	4.5	4.6	5.2	6.0	6.2	5.6	5.0	4.5	4.4	4.0	4.3	5.1	42
West Northwest	5.5	5.4	5.3	5.9	6.7	6.7	6.3	5.8	5.2	5.3	5.3	5.5	6.0	42
Northwest	5.7	5.9	6.3	6.5	6.6	6.5	6.1	5.6	5.8	6.2	5.9	5.9	6.1	42
North Northwest	7.2	7.0	7.5	6.8	5.9	5.2	5.0	5.3	6.2	6.5	6.6	6.6	6.6	42
VISIBILITY														
Mean Number of Days with Fog	11	9	5	4	1	2	4	5	6	7	10	12	76	42
% Observations with Visibility <= ½ mile	3.81	2.64	0.59	0.28	0.07	0.01	0.02	0.26	0.45	0.70	1.79	2.51	1.10	42

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

KING SALMON, AK (58°41'N, 156°39'W) 49 feet (14.9 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1004.5	1006.5	1007.0	1008.0	1009.6	1011.2	1014.2	1011.9	1007.2	1002.9	1001.8	1002.2	1007.2	26
TEMPERATURE (DEGREES F)														
Mean	15.0	15.1	22.2	32.0	43.0	50.6	55.1	54.4	47.5	33.4	23.0	15.4	34.0	47
Mean Daily Maximum	21.9	22.7	30.1	39.7	51.5	59.2	63.2	61.6	54.8	40.6	29.9	22.6	41.6	47
Mean Daily Minimum	7.1	6.4	13.6	23.8	34.1	41.6	46.6	46.7	39.8	25.7	15.4	7.2	25.8	47
Extreme - Highest	53	57	54	65	79	88	86	84	74	67	56	48	88	47
Extreme - Lowest	-48	-41	-42	-19	5	29	33	25	15	-12	-28	-37	-48	47
RELATIVE HUMIDITY														
Average Percentage	80.9	78.1	76.6	75.0	72.7	74.6	79.9	82.2	80.7	81.7	82.3	80.3	78.8	26
CLOUD COVER														
Percent of time Clear	21.2	24.3	21.0	13.5	6.5	3.6	2.2	1.9	4.9	11.7	17.2	17.6	12.0	26
Percent of time Scattered	16.8	17.3	17.6	17.6	15.6	11.5	11.2	12.1	14.5	20.0	19.1	16.8	15.8	26
Percent of time Broken	16.7	15.9	18.4	21.1	27.8	28.1	24.2	23.2	27.3	22.9	18.8	17.9	21.9	26
Percent of time Overcast	45.3	42.6	42.9	47.8	50.1	56.8	62.4	62.9	53.3	45.4	44.9	47.6	50.2	26
PRECIPITATION														
Mean Amount (inches)	1.08	0.83	1.06	1.01	1.28	1.57	2.16	3.11	2.87	1.96	1.49	1.32	19.74	47
Greatest Amount (inches)	3.02	2.80	2.41	2.99	2.95	3.77	5.08	6.43	7.30	3.29	3.35	3.65	26.87	47
Least Amount (inches)	0.16	0.11	0.04	0.19	0.22	0.26	0.32	1.05	0.89	0.20	T	0.12	9.77	47
Maximum Amount-24 hrs (inches)	1.05	1.28	1.03	1.21	0.98	0.87	1.11	1.59	1.67	1.32	1.37	1.15	1.67	47
Mean Number of Days with Precipitation	18	16	18	19	21	22	22	24	22	21	20	20	243	47
Snow - Mean Amount (inches)	8.1	6.5	7.5	4.6	0.9	0.0	0.0	0.0	0.0	2.8	6.4	9.2	46.0	47
Snow - Greatest Amount (inches)	30.6	20.3	20.0	16.0	6.1	1.3	0.0	0.0	0.6	15.7	17.9	28.4	93.6	47
Snow - Least Snowfall Amount (inches)	1.1	T	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	1.5	16.3	47
Snow - Maximum Amount in 24 hours (inches)	17.8	7.9	11.0	4.5	3.8	1.2	0.0	0.0	0.6	8.7	5.1	6.4	17.8	47
Mean Number of Days with Snow	15	13	16	14	5	0	0	0	1	9	15	17	105	47
WIND														
% of Observations with Gales	0.28	0.34	0.26	0.14	0.12	0.08	0.03	0.07	0.32	0.25	0.40	0.30	0.40	26
Mean Wind Speed (knots)	9.6	9.5	10.1	9.3	9.5	9.2	8.1	8.9	9.1	8.9	9.5	9.1	9.2	26
Direction (percentage of observations)														
North	20.3	22.9	16.6	12.1	5.1	3.1	2.7	3.6	8.3	14.7	17.1	17.6	12.0	26
North Northeast	10.2	12.4	9.3	6.7	4.5	2.8	2.5	2.2	5.4	8.3	9.5	10.8	7.0	26
Northeast	6.0	4.3	5.2	5.3	4.4	3.0	2.7	2.7	4.1	5.9	5.3	5.4	4.5	26
East Northeast	5.2	4.0	4.9	5.0	5.3	3.8	3.1	2.7	4.4	4.4	5.0	4.7	4.4	26
East	10.3	8.2	9.5	7.9	11.3	8.9	5.2	4.8	7.1	6.9	9.1	9.0	8.2	26
East Southeast	6.1	4.4	6.3	5.1	6.6	6.7	4.2	4.5	6.9	5.8	6.8	5.5	5.7	26
Southeast	5.3	4.5	5.1	4.5	5.8	5.9	4.7	6.6	7.1	4.6	6.3	5.7	5.5	26
South Southeast	5.1	4.0	5.7	5.8	8.8	8.7	8.6	10.2	9.3	5.9	6.6	5.0	7.0	26
South	3.0	3.2	3.8	5.1	9.1	11.0	12.6	10.7	7.9	5.0	4.3	3.5	6.6	26
South Southwest	2.2	2.7	3.3	4.9	6.3	9.6	12.8	11.2	5.7	3.4	2.9	3.0	5.7	26
Southwest	1.7	2.2	3.4	4.7	6.1	10.4	12.3	11.1	5.6	2.5	1.7	2.1	5.3	26
West Southwest	1.2	2.2	2.5	4.7	5.0	6.2	7.5	8.2	4.0	2.6	1.3	1.5	3.9	26
West	1.3	1.7	2.3	4.3	4.9	5.7	6.1	5.5	3.6	3.1	1.5	1.3	3.5	26
West Northwest	1.4	1.9	1.8	3.7	3.3	4.4	3.8	4.3	3.5	3.3	1.8	1.5	2.9	26
Northwest	2.8	3.7	4.0	4.6	3.1	2.3	2.1	2.9	4.3	5.3	3.5	3.2	3.5	26
North Northwest	7.6	8.7	8.8	9.0	4.0	2.2	2.2	2.7	6.3	10.3	8.9	9.5	6.7	26
Calm	10.4	8.8	8.0	6.4	6.5	5.5	6.8	6.3	6.4	7.5	8.4	10.6	7.6	26
Direction (Mean Speed, knots)														
North	10.7	10.6	10.4	9.7	8.2	7.0	6.4	6.7	9.1	9.5	9.9	9.8	9.8	26
North Northeast	9.4	9.9	9.8	8.9	8.3	7.2	6.8	7.7	8.7	8.7	9.0	9.4	9.1	26
Northeast	10.1	8.7	8.7	9.5	8.9	8.3	6.5	8.2	8.0	8.0	8.6	8.9	8.7	26
East Northeast	10.8	9.5	10.5	9.5	9.7	9.6	7.9	8.5	8.8	9.5	10.6	10.3	9.7	26
East	13.9	14.1	13.1	11.7	13.6	13.7	10.6	9.5	11.1	12.4	14.1	14.1	12.9	26
East Southeast	12.1	11.3	12.1	10.6	11.6	11.3	8.6	9.1	10.5	11.4	12.1	11.3	11.1	26
Southeast	10.4	11.0	11.2	11.3	9.5	9.3	7.5	9.2	10.3	9.2	11.0	10.3	10.0	26
South Southeast	12.5	11.5	14.2	12.4	12.0	10.6	9.6	11.3	11.3	10.6	11.3	11.1	11.4	26
South	8.5	10.3	10.1	8.9	10.6	10.0	10.1	10.7	10.4	9.2	9.4	8.8	10.0	26
South Southwest	9.9	10.4	10.6	9.3	9.4	9.4	9.0	9.4	9.3	9.9	9.4	10.2	9.5	26
Southwest	9.9	10.3	11.1	9.2	8.9	9.1	8.6	9.3	9.2	9.2	9.8	8.4	9.2	26
West Southwest	9.7	11.2	11.5	9.9	9.4	8.9	8.4	9.7	9.1	9.7	10.3	9.6	9.5	26
West	8.5	7.7	9.3	9.4	8.6	8.7	8.4	9.4	9.5	9.6	9.3	8.1	8.9	26
West Northwest	7.6	7.2	9.0	8.4	8.3	8.4	8.1	8.6	9.1	9.0	9.0	7.6	8.5	26
Northwest	7.9	8.4	9.6	8.4	8.7	8.4	7.9	8.2	9.5	8.8	8.2	8.6	8.6	26
North Northwest	9.4	10.0	10.8	10.2	9.3	7.9	7.3	8.6	9.1	9.7	9.6	10.1	9.7	26
VISIBILITY														
Mean Number of Days with Fog	9	7	8	9	9	12	18	19	12	10	12	11	136	47
% Observations with Visibility <= ½ mile	1.12	0.88	0.69	0.54	1.18	1.28	1.75	1.65	0.83	0.94	1.44	1.03	1.12	26

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

COLD BAY, AK (55°12'N, 162°43'W) 96 feet (29.3 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1000.9	1005.0	1006.6	1009.8	1009.7	1011.6	1015.3	1013.1	1007.7	1005.8	1002.3	1000.3	1007.3	23
TEMPERATURE (DEGREES F)														
Mean	28.8	28.0	29.8	33.5	40.0	45.9	50.7	51.7	48.0	40.0	34.6	31.0	38.6	41
Mean Daily Maximum	33.0	32.4	34.5	38.0	44.6	50.4	54.9	55.7	52.2	44.6	38.9	35.1	43.0	41
Mean Daily Minimum	24.1	23.1	24.5	28.6	34.8	41.0	45.9	47.2	43.2	35.0	29.8	26.4	33.7	41
Extreme - Highest	51	50	56	58	67	72	77	75	76	69	59	54	77	41
Extreme - Lowest	-8	-5	-13	4	18	30	33	35	26	10	1	-1	-13	41
RELATIVE HUMIDITY														
Average Percentage	84.9	84.1	82.9	83.4	83.9	85.5	89.0	89.5	86.2	82.7	83.5	85.3	85.1	23.0
CLOUD COVER														
Percent of time Clear	4.4	5.7	5.7	1.9	1.3	1.6	0.5	0.5	1.0	2.0	2.3	3.0	2.5	23.0
Percent of time Scattered	13.3	11.1	12.7	9.7	6.9	5.7	4.5	4.4	7.5	11.4	14.9	13.7	9.7	23.0
Percent of time Broken	21.2	20.2	22.1	21.3	20.6	16.1	13.0	13.7	21.3	28.3	24.5	21.7	20.4	23.0
Percent of time Overcast	61.1	63.0	59.5	67.1	71.1	76.5	82.0	81.4	70.3	58.3	58.2	61.5	67.5	23.0
PRECIPITATION														
Mean Amount (inches)	2.85	2.30	2.19	1.99	2.36	2.18	2.47	3.41	4.40	4.37	4.26	3.55	36.31	41
Greatest Amount (inches)	6.45	4.93	4.70	6.55	6.37	6.67	6.13	5.73	9.79	8.02	8.94	7.31	53.15	41
Least Amount (inches)	0.60	0.43	0.41	0.21	0.54	0.12	0.45	1.10	1.30	1.88	1.15	0.19	23.41	41
Maximum Amount-24 hrs (inches)	1.85	2.09	2.06	2.16	2.13	2.03	1.77	1.99	2.78	4.90	3.31	2.44	4.90	41
Mean Number of Days with Precipitation	27	24	27	27	27	25	26	28	27	29	27	28	322	40
Snow - Mean Amount (inches)	11.0	11.3	10.9	6.2	1.8	0.0	0.0	0.0	0.0	3.2	7.4	10.4	62.3	40
Snow - Greatest Amount (inches)	34.6	48.4	28.6	19.5	9.3	0.5	0.0	0.0	0.2	15.6	16.3	24.2	108.3	40
Snow - Least Snowfall Amount (inches)	0.9	1.6	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	T	19.3	40
Snow - Maximum Amount in 24 hours (inches)	12.2	16.5	7.4	5.2	3.0	0.5	0.0	0.0	0.2	11.4	8.6	7.5	16.5	40
Mean Number of Days with Snow	21	20	23	21	10	0	0	0	1	11	17	21	145	40
WIND														
% of Observations with Gales	3.00	2.46	1.84	1.52	1.05	0.76	0.47	0.68	1.05	1.50	2.49	2.58	1.61	23
Mean Wind Speed (knots)	15.4	15.6	15.1	15.0	14.1	13.6	13.5	14.3	14.3	14.8	15.2	15.2	14.7	23
Direction (percentage of observations)														
North	10.2	9.5	8.9	8.5	5.0	5.1	3.5	3.0	4.7	6.6	8.1	8.3	6.7	23
North Northeast	6.4	5.3	5.4	3.5	2.3	2.5	1.6	1.6	2.7	3.2	4.0	4.7	3.6	23
Northeast	1.5	1.7	1.4	1.0	1.6	1.4	1.3	1.1	0.9	1.1	1.7	1.2	1.3	23
East Northeast	1.5	1.6	1.6	1.4	1.4	1.2	0.8	1.0	1.0	1.0	0.9	1.5	1.2	23
East	3.1	2.3	2.1	1.7	2.4	2.1	1.4	1.3	1.4	1.5	1.8	2.6	2.0	23
East Southeast	6.0	6.6	5.9	3.1	5.0	4.1	2.6	3.6	4.5	3.7	4.5	5.3	4.5	23
Southeast	13.1	14.2	12.6	10.5	16.1	16.4	14.7	14.7	12.3	8.7	9.4	11.6	12.8	23
South Southeast	13.5	14.0	11.5	12.9	17.5	17.8	20.6	16.4	17.0	9.2	10.9	14.9	14.7	23
South	4.2	4.4	4.0	3.5	4.5	3.3	3.1	3.0	4.3	3.5	4.5	4.8	3.9	23
South Southwest	1.5	1.0	1.4	0.9	0.8	0.4	0.3	0.5	1.0	1.3	2.1	1.6	1.1	23
Southwest	2.2	1.3	2.1	1.4	1.3	0.7	0.6	1.5	2.2	3.5	4.2	3.2	2.0	23
West Southwest	5.6	3.3	4.9	4.5	2.9	2.1	3.3	8.2	7.9	10.7	10.5	7.3	6.0	23
West	4.5	4.1	5.2	6.8	6.4	6.9	11.3	14.7	10.2	8.6	6.7	5.7	7.7	23
West Northwest	5.8	5.3	7.9	10.2	11.1	14.5	16.3	15.5	11.6	10.7	7.7	7.0	10.4	23
Northwest	7.1	9.0	10.6	14.2	11.7	13.2	12.2	8.4	9.5	12.2	9.5	7.6	10.4	23
North Northwest	12.3	15.0	12.9	15.1	9.4	7.6	5.2	4.6	7.5	13.6	12.7	11.1	10.5	23
Calm	2.2	2.3	2.3	1.4	1.6	1.5	2.3	1.6	1.8	1.3	1.3	2.2	1.8	23
Direction (Mean Speed, knots)														
North	15.0	14.7	13.4	13.4	11.0	10.0	8.2	9.1	11.8	13.3	14.5	13.7	13.0	23
North Northeast	17.8	15.5	16.0	12.7	9.9	9.4	7.8	9.1	13.5	14.7	16.0	16.3	14.5	23
Northeast	13.6	11.2	11.1	8.9	7.5	7.3	6.4	6.4	10.8	10.2	13.3	13.9	10.2	23
East Northeast	19.5	14.5	12.9	12.4	11.5	10.2	8.8	9.2	14.0	14.5	16.0	16.9	13.6	23
East	15.5	15.5	14.1	11.9	11.1	10.5	8.4	10.1	11.2	10.6	11.7	15.5	12.6	23
East Southeast	17.5	17.5	17.8	14.1	15.0	14.6	13.1	15.8	14.4	15.8	15.9	17.5	16.1	23
Southeast	19.7	20.2	17.9	18.1	17.5	17.4	16.4	17.9	16.0	17.7	18.2	17.8	17.9	23
South Southeast	18.7	18.7	17.4	19.3	18.3	17.8	17.9	18.3	17.9	17.8	18.0	18.8	18.2	23
South	12.4	13.1	14.0	13.7	12.9	12.8	13.1	12.4	13.0	11.4	12.2	12.8	12.8	23
South Southwest	9.1	10.1	12.0	11.7	10.4	7.7	7.9	11.4	9.9	9.9	11.2	11.3	10.6	23
Southwest	11.2	13.6	14.6	11.6	12.6	8.5	11.4	12.3	12.4	11.8	11.9	13.0	12.3	23
West Southwest	12.8	15.1	17.2	15.3	14.6	13.1	14.0	15.7	14.4	15.4	15.5	15.2	15.1	23
West	10.7	11.2	14.4	13.7	13.3	12.2	14.2	14.7	13.8	15.0	13.7	12.3	13.7	23
West Northwest	11.5	10.7	12.6	14.1	12.3	12.2	12.0	12.7	13.2	14.3	13.3	12.1	12.7	23
Northwest	13.7	13.7	14.6	14.5	12.0	11.3	10.9	10.8	13.8	15.2	15.2	14.1	13.3	23
North Northwest	15.8	15.8	15.1	14.9	12.8	11.6	10.1	10.3	13.9	15.2	16.7	15.4	14.6	23
VISIBILITY														
Mean Number of Days with Fog	13	11	14	14	15	18	24	24	17	12	12	12	186	40
% Observations with Visibility <= ½ mile	2.08	2.44	1.23	0.79	0.32	0.87	1.82	1.08	0.27	0.13	0.66	1.75	1.11	23

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

ADAK, AK (51°53'N, 176°39'W) 17 feet (5.2 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1000.1	1000.6	1004.1	1010.3	1008.9	1010.4	1014.2	1012.4	1009.0	1008.4	1003.7	1000.6	1006.9	33
TEMPERATURE (DEGREES F)														
Mean	33.2	32.9	34.9	37.6	41.1	45.2	49.6	51.6	48.3	43.1	37.7	34.5	40.8	43
Mean Daily Maximum	37.0	36.9	38.9	41.5	45.1	49.2	53.9	56.0	52.3	47.1	41.6	38.2	44.9	43
Mean Daily Minimum	28.9	28.4	30.4	33.1	36.6	40.8	44.7	46.6	43.7	38.5	33.2	30.2	36.3	43
Extreme - Highest	50	54	57	56	65	67	72	75	71	61	57	55	75	43
Extreme - Lowest	3	3	12	21	20	29	33	33	28	22	12	8	3	43
RELATIVE HUMIDITY														
Average Percentage	79.9	79.1	80.4	78.9	80.3	83.2	86.1	85.6	82.2	79.3	79.3	80.9	81.3	34
CLOUD COVER														
Percent of time Clear	1.4	1.2	0.8	0.6	0.3	0.4	0.3	0.5	0.7	1.0	1.2	1.4	0.8	34
Percent of time Scattered	11.7	10.8	9.4	6.0	4.6	3.2	3.4	5.3	8.3	11.2	13.9	13.0	8.4	34
Percent of time Broken	34.6	34.8	34.1	37.5	31.4	24.0	22.5	24.6	31.9	38.6	37.0	36.1	32.2	34
Percent of time Overcast	52.3	53.3	55.8	55.9	63.7	72.4	73.8	69.7	59.0	49.2	47.9	49.5	58.6	34
PRECIPITATION														
Mean Amount (inches)	6.11	4.45	5.76	4.29	3.93	2.98	2.89	4.10	5.44	6.52	7.65	7.21	61.35	43
Greatest Amount (inches)	14.45	9.57	13.31	10.17	16.10	9.37	6.10	9.65	11.30	13.25	13.72	13.58	92.66	43
Least Amount (inches)	2.71	1.75	2.33	1.30	0.64	0.01	0.69	0.98	2.52	2.58	2.66	2.58	37.37	43
Maximum Amount-24 hrs (inches)	3.59	2.25	3.22	4.76	4.85	2.52	2.37	2.46	3.52	3.36	2.94	4.68	4.85	43
Mean Number of Days with Precipitation	29	27	30	28	29	26	28	28	27	30	29	30	341	35
Snow - Mean Amount (inches)	20.7	18.8	10.3	9.8	1.8	T	0.0	T	0.1	1.6	11.8	20.1	95.0	42
Snow - Greatest Amount (inches)	70.7	47.6	18.0	31.2	8.9	T	0.0	T	2.8	7.7	30.0	40.2	159.0	42
Snow - Least Snowfall Amount (inches)	2.2	0.6	1.9	T	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.9	35.3	42
Snow - Maximum Amount in 24 hours (inches)	11.8	9.2	2.0	15.4	4.8	0.0	0.0	0.0	1.8	3.6	7.2	10.1	15.4	42
Mean Number of Days with Snow	23	23	25	21	9	0	0	0	0	7	19	24	151	35
WIND														
% of Observations with Gales	1.36	1.91	2.23	1.50	0.97	0.32	0.15	0.43	0.81	1.48	1.73	2.34	2.40	34
Mean Wind Speed (knots)	12.3	12.2	12.8	12.8	11.5	9.8	9.4	10.2	11	12.2	12.3	12.3	11.6	34
Direction (percentage of observations)														
North	6.0	7.4	7.0	7.3	10.1	9.7	6.2	5.4	8.8	6.3	6.0	5.4	7.1	34
North Northeast	10.0	11.1	7.2	6.6	7.4	8.5	5.6	4.0	7.1	5.1	5.0	6.4	7.0	34
Northeast	5.9	5.2	4.0	3.3	3.1	5.8	5.0	3.3	4.7	3.4	3.0	4.4	4.3	34
East Northeast	6.1	6.2	6.0	3.2	4.4	6.6	5.1	3.2	3.6	3.2	3.0	4.7	4.6	34
East	5.8	6.1	5.0	3.4	3.2	6.0	5.2	3.1	2.8	2.9	2.7	3.8	4.2	34
East Southeast	3.4	3.9	3.7	2.5	2.1	2.9	2.7	2.1	1.7	1.7	1.6	2.6	2.6	34
Southeast	3.0	3.2	3.3	2.2	2.9	2.7	2.8	2.6	1.6	1.8	1.7	2.4	2.5	34
South Southeast	6.1	4.5	4.7	4.5	5.6	5.3	5.6	4.7	3.7	2.9	3.7	4.9	4.7	34
South	6.1	5.2	6.1	6.2	6.2	6.0	6.3	6.0	4.8	5.0	5.6	5.6	5.8	34
South Southwest	5.5	6.1	6.8	6.5	5.0	3.2	4.0	5.2	5.1	4.8	6.3	6.9	5.5	34
Southwest	7.5	6.8	8.3	9.9	7.9	6.2	7.2	8.9	7.7	10.0	11.3	9.5	8.4	34
West Southwest	7.6	7.5	9.2	13.3	12.9	11.9	15.9	18.1	13.9	14.7	14.1	11.1	12.5	34
West	5.7	5.5	7.0	9.9	9.3	10.1	16.7	19.1	13.2	12.6	9.9	8.2	10.6	34
West Northwest	4.2	3.0	4.9	6.1	5.0	3.2	2.2	3.3	5.0	6.9	6.4	5.4	4.6	34
Northwest	2.8	3.0	3.6	3.7	3.3	1.7	0.6	1.2	3.4	4.9	4.6	3.5	3.0	34
North Northwest	4.1	4.9	5.3	6.1	5.6	4.0	1.6	2.3	6.1	6.6	5.6	4.3	4.7	34
Calm	10.4	10.3	7.8	5.2	6.0	6.2	7.2	7.5	6.7	7.3	9.5	11.0	7.9	34
Direction (Mean Speed, knots)														
North	12.4	11.6	12.2	11.4	11.6	10.8	9.0	10.1	11.4	11.8	10.9	12.3	11.3	34
North Northeast	14.0	13.1	13.0	12.2	11.6	9.2	7.3	8.3	10.0	11.9	11.5	12.8	11.5	34
Northeast	14.7	13.7	13.7	12.6	10.5	9.0	6.9	6.9	10.3	10.8	13.2	15.6	11.5	34
East Northeast	13.7	13.6	14.3	11.4	9.0	8.3	6.4	7.0	8.9	10.9	11.9	14.1	11.0	34
East	13.6	13.5	10.7	9.8	8.1	8.1	6.0	5.7	7.6	11.5	10.6	12.1	10.0	34
East Southeast	14.2	14.4	12.7	11.3	8.0	8.7	6.2	5.6	11.1	13.0	11.2	13.1	11.1	34
Southeast	13.6	13.5	14.3	12.9	9.9	9.2	8.0	8.5	11.2	11.7	12.9	13.6	11.6	34
South Southeast	14.5	14.3	14.0	11.7	10.7	10.3	9.0	9.2	11.1	12.6	13.5	14.9	12.1	34
South	12.9	12.3	13.0	12.8	11.2	10.0	9.7	10.5	10.2	11.2	13.5	12.2	11.6	34
South Southwest	13.0	14.4	14.8	15.0	13.0	11.3	10.3	11.1	11.8	13.2	14.7	14.2	13.3	34
Southwest	15.1	16.5	16.7	16.1	15.1	12.4	12.0	13.0	13.5	14.6	15.6	14.3	14.7	34
West Southwest	14.2	15.3	16.2	15.8	14.7	12.3	12.8	12.7	13.1	14.5	15.5	14.7	14.2	34
West	12.6	12.0	13.5	13.9	13.3	11.5	12.7	12.6	11.8	13.5	13.9	14.0	12.9	34
West Northwest	13.6	13.6	14.1	13.9	14.2	11.2	12.4	12.1	13.9	14.3	14.5	14.7	13.8	34
Northwest	12.9	11.8	13.4	12.6	12.2	11.2	10.0	11.8	13.6	13.3	11.3	12.8	12.5	34
North Northwest	12.7	12.8	13.6	12.5	11.8	11.0	10.6	11.8	13.1	13.0	12.6	14.1	12.6	34
VISIBILITY														
Mean Number of Days with Fog	9	7	9	11	15	20	26	26	18	13	10	9	173	35
% Observations with Visibility <= ½ mile	0.95	1.10	1.06	0.18	0.05	0.49	0.98	0.80	0.09	0.08	0.23	0.70	0.56	34

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

SHEMYA, AK (52°43'N, 174°06'W) 122 feet (37.2 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	998.1	1002.0	1003.4	1010.5	1011.9	1012.8	1014.8	1012.4	1013.9	1010.5	1003.3	999.6	1007.8	16
TEMPERATURE (DEGREES F)														
Mean	31.4	31.1	32.3	35.3	38.7	42.6	46.9	49.6	48.1	42.6	36.5	32.9	39.0	46
Mean Daily Maximum	33.8	33.4	34.8	37.9	41.2	44.9	49.0	51.7	50.6	45.4	39.2	35.4	41.5	46
Mean Daily Minimum	28.5	28.3	29.3	32.3	35.8	39.9	44.2	46.9	45.0	39.3	33.3	29.8	36.1	46
Extreme - Highest	44	44	43	47	48	57	64	61	59	54	48	48	64	46
Extreme - Lowest	9	7	11	18	24	27	36	38	33	26	15	7	7	46
RELATIVE HUMIDITY														
Average Percentage	76.0	74.8	75.7	76.4	80.8	88.9	91.5	91.1	83.6	79.2	77.1	76.6	81.0	16
CLOUD COVER														
Percent of time Clear	0.5	0.7	0.5	0.9	0.2	0.1	0.1	0.4	1.6	0.7	0.6	0.5	0.6	16
Percent of time Scattered	16.8	13.7	14.7	12.2	6.4	3.2	1.7	5.3	16.6	18.5	18.0	15.6	11.9	16
Percent of time Broken	35.0	37.6	35.6	31.3	24.4	13.1	9.6	12.9	29.4	34.0	37.3	37.1	28.0	16
Percent of time Overcast	44.5	44.8	46.9	53.4	65.1	71.1	67.9	60.8	48.6	45.5	42.5	44.6	53.0	16
PRECIPITATION														
Mean Amount (inches)	2.45	1.99	2.06	1.61	1.76	1.71	2.75	3.41	2.89	3.64	3.68	2.86	30.83	46
Greatest Amount (inches)	5.63	5.03	4.86	3.97	5.44	4.95	8.71	9.35	5.06	8.59	7.96	6.00	43.93	46
Least Amount (inches)	1.13	0.71	0.42	0.34	0.14	0.14	0.72	0.71	0.62	1.85	0.95	0.78	15.82	46
Maximum Amount-24 hrs (inches)	1.32	2.12	1.44	1.55	1.46	1.88	1.89	2.24	2.08	5.20	2.46	1.57	5.20	46
Mean Number of Days with Precipitation	30	27	30	28	28	25	26	26	25	28	29	30	332	44
Snow - Mean Amount (inches)	15.6	14.2	12.8	4.9	1.2	0.0	0.0	0.0	T	0.8	8.4	16.2	74.2	44
Snow - Greatest Amount (inches)	55.1	32.8	46.0	13.1	6.3	0.1	0.0	0.0	T	4.3	29.3	49.2	158.3	44
Snow - Least Snowfall Amount (inches)	0.5	1.1	2.1	0.1	T	0.0	0.0	0.0	0.0	0.0	0.7	3.2	29.8	44
Snow - Maximum Amount in 24 hours (inches)	11.6	15.3	11.8	4.3	3.9	0.1	0.0	0.0	0.0	4.1	11.2	11.1	15.3	44
Mean Number of Days with Snow	28	26	28	23	12	0	0	0	0	7	21	26	171	44
WIND														
% of Observations with Gales	4.59	5.53	3.68	2.48	0.70	0.32	0.08	0.18	0.79	2.96	7.47	6.83	2.95	16
Mean Wind Speed (knots)	16.6	17.3	16.8	15.7	13.5	12.1	10.8	11.8	12.8	14.6	17.7	17.6	14.8	16
Direction (percentage of observations)														
North	14.6	15.3	15.7	12.8	14.3	14.1	7.6	9.4	13.0	12.8	11.5	13.9	12.9	16
North Northeast	8.1	11.8	9.6	5.3	6.5	5.5	4.2	2.6	4.2	5.2	4.7	7.9	6.3	16
Northeast	8.2	9.9	8.4	4.5	3.7	3.5	3.7	1.8	3.4	3.8	3.7	7.0	5.1	16
East Northeast	8.3	7.4	6.2	3.8	3.2	3.6	3.9	1.8	2.5	3.6	3.4	6.3	4.5	16
East	9.6	8.2	4.7	4.5	3.8	4.6	4.9	3.0	3.0	4.2	3.3	5.2	4.9	16
East Southeast	4.7	4.7	3.3	3.1	3.3	4.1	3.9	3.3	2.6	3.5	2.3	3.5	3.5	16
Southeast	4.2	4.3	3.7	3.9	3.4	4.2	4.1	4.2	2.5	3.2	2.2	2.2	3.5	16
South Southeast	3.4	4.3	3.3	3.9	3.9	4.3	5.6	4.7	3.6	4.7	4.5	3.1	4.1	16
South	4.7	5.2	5.2	6.8	5.8	8.4	9.1	11.1	8.6	7.0	7.5	4.5	7.0	16
South Southwest	4.2	4.3	5.9	7.5	6.7	8.6	11.1	11.4	7.7	7.3	7.5	4.9	7.3	16
Southwest	4.4	3.5	5.6	7.1	7.0	6.8	9.7	9.2	8.2	7.1	6.8	5.7	6.8	16
West Southwest	4.0	4.0	5.1	8.6	7.7	9.7	10.0	11.9	9.1	7.6	8.2	6.4	7.7	16
West	6.2	4.4	6.1	7.4	7.1	6.6	7.5	9.3	7.9	7.9	11.4	8.8	7.6	16
West Northwest	4.3	3.1	3.8	4.0	3.7	2.2	2.0	3.0	4.4	5.5	7.5	6.1	4.1	16
Northwest	4.3	3.4	5.3	7.2	8.4	5.6	4.4	5.6	8.2	7.5	7.2	6.9	6.2	16
North Northwest	4.7	4.9	6.0	8.2	10.4	6.7	5.9	5.8	8.6	6.9	7.1	6.2	6.8	16
Calm	2.2	1.4	2.0	1.6	1.2	1.6	2.6	2.0	2.5	2.2	1.0	1.4	1.8	16
Direction (Mean Speed, knots)														
North	16.6	17.1	16.1	13.9	12.5	12.4	11.3	12.1	12.1	13.6	15.2	16.5	14.3	16
North Northeast	17.2	17.1	19.9	15.2	13.4	12.9	9.5	13.3	10.1	14.0	13.6	16.9	15.3	16
Northeast	18.5	17.6	18.4	14.7	11.5	12.1	10.3	12.9	13.1	14.4	16.1	17.6	15.8	16
East Northeast	16.6	16.8	17.5	16.0	11.2	11.3	11.3	12.2	12.2	16.9	16.1	18.3	15.5	16
East	16.4	18.8	17.2	15.6	12.1	11.1	12.1	11.2	12.1	15.4	17.0	16.1	15.1	16
East Southeast	18.4	20.8	18.1	15.2	12.2	10.1	10.0	9.9	11.8	13.6	18.6	17.9	14.8	16
Southeast	19.3	19.1	18.7	15.7	11.7	9.7	8.4	10.0	13.0	13.8	16.7	17.9	14.3	16
South Southeast	15.9	17.7	16.5	16.2	12.5	11.5	9.6	11.5	13.6	15.7	18.8	19.3	14.6	16
South	15.5	18.4	17.2	17.0	14.8	11.5	11.6	12.8	14.3	17.4	21.2	21.7	15.5	16
South Southwest	19.4	19.1	20.4	19.2	16.7	14.0	12.4	13.2	14.5	18.1	20.7	25.6	16.9	16
Southwest	20.3	20.4	19.6	19.6	16.2	13.8	11.6	13.2	16.3	18.7	21.2	22.6	17.1	16
West Southwest	19.3	22.1	19.8	18.9	15.8	13.6	11.4	12.1	14.5	16.4	21.8	21.5	16.4	16
West	16.0	16.4	16.5	14.0	12.5	10.6	9.0	9.9	9.8	12.1	18.8	17.0	13.6	16
West Northwest	12.4	11.1	11.6	11.7	13.1	14.4	8.5	10.4	12.2	11.7	13.5	11.8	12.1	16
Northwest	14.7	12.7	12.5	15.0	14.4	13.1	12.9	12.8	13.9	13.4	18.2	14.5	14.2	16
North Northwest	15.4	14.9	13.8	14.9	13.8	12.6	12.7	12.7	13.3	13.7	15.6	16.0	14.1	16
VISIBILITY														
Mean Number of Days with Fog	11	9	13	16	19	24	29	27	19	14	12	12	205	44
% Observations with Visibility <= ½ mile	2.28	2.44	1.71	1.36	3.30	12.48	20.21	21.06	3.45	1.35	1.00	1.55	6.07	16

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

ST. PAUL ISLAND, AK (57°10'N, 170°13'W) 20 feet (6.1 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1003.0	1006.2	1006.1	1009.8	1009.5	1010.1	1013.9	1010.9	1007.2	1005.4	1001.2	1000.6	1006.9	16
TEMPERATURE (DEGREES F)														
Mean	26.4	22.8	24.3	28.3	35.4	41.6	46.4	48.1	44.8	38.2	33.3	29.0	35.0	47
Mean Daily Maximum	30.3	27.0	28.8	32.4	39.2	45.7	49.8	51.2	48.7	42.1	37.1	32.8	38.8	47
Mean Daily Minimum	22.0	18.1	19.3	23.7	31.1	37.0	42.4	44.5	40.4	33.8	29.1	24.7	30.6	47
Extreme - Highest	44	41	50	49	58	61	63	66	61	53	48	44	66	47
Extreme - Lowest	-14	-16	-19	-8	8	16	28	29	22	12	4	-3	-19	47
RELATIVE HUMIDITY														
Average Percentage	83.6	84.4	85.3	85.4	88.1	90.1	93.5	92.9	88.2	82.8	81.9	83.0	86.6	21
CLOUD COVER														
Percent of time Clear	5.1	6.3	6.4	4.3	1.9	2.5	0.9	0.8	1.5	1.5	2.2	3.2	3.0	12
Percent of time Scattered	13.4	12.2	13.6	11.8	5.6	5.7	2.9	3.1	11.3	14.2	15.7	13.5	10.4	12
Percent of time Broken	17.3	18.5	15.6	18.4	11.4	11.1	6.5	8.6	17.3	23.2	23.0	18.4	15.9	12
Percent of time Overcast	64.2	63.1	64.4	65.5	81.1	80.7	89.7	87.5	69.9	61.1	59.2	64.9	70.7	12
PRECIPITATION														
Mean Amount (inches)	1.73	1.30	1.20	1.17	1.24	1.28	2.05	3.15	2.87	2.92	2.77	2.02	23.69	47
Greatest Amount (inches)	4.99	5.68	3.28	3.21	2.24	3.59	5.85	9.32	5.00	6.21	5.40	4.18	36.60	47
Least Amount (inches)	0.28	0.02	0.08	0.08	0.50	0.01	0.36	0.17	0.62	0.96	0.88	0.65	9.82	47
Maximum Amount-24 hrs (inches)	1.38	1.35	1.04	1.12	0.77	1.08	1.43	1.47	1.50	1.93	1.46	1.00	1.93	47
Mean Number of Days with Precipitation	27	24	27	26	26	23	27	28	27	29	28	28	320	42
Snow - Mean Amount (inches)	10.1	9.4	9.8	5.9	2.2	0.1	0.0	0.0	0.0	2.7	7.1	9.0	56.4	47
Snow - Greatest Amount (inches)	35.7	55.7	31.4	15.7	12.7	1.6	0.0	0.0	1.0	12.5	27.3	19.0	158.5	47
Snow - Least Snowfall Amount (inches)	0.8	0.2	0.8	0.3	T	0.0	0.0	0.0	0.0	0.0	2.0	0.8	25.8	47
Snow - Maximum Amount in 24 hours (inches)	13.8	13.5	10.4	10.0	3.4	1.0	0.0	0.0	1.0	9.3	11.8	6.9	13.8	47
Mean Number of Days with Snow	23	22	25	23	14	1	0	0	1	13	20	23	165	42
WIND														
% of Observations with Gales	2.06	2.66	2.03	0.63	0.25	0.00	0.00	0.05	0.32	1.44	1.80	2.80	1.83	17
Mean Wind Speed (knots)	16.1	16.9	16.1	14.3	12.7	11.8	10.7	11.9	13.1	15	15.8	16.5	14.3	17
Direction (percentage of observations)														
North	11.4	12.7	9.9	11.4	10.7	8.0	6.5	4.2	7.7	10.1	9.7	9.4	9.3	17
North Northeast	12.3	12.9	10.6	7.4	5.8	4.9	3.3	2.6	4.1	6.0	9.0	10.3	7.5	17
Northeast	8.5	10.9	9.9	6.2	7.5	8.1	5.7	2.5	4.5	4.4	5.5	7.6	6.7	17
East Northeast	8.3	10.2	10.3	5.7	6.9	7.9	5.0	3.4	3.9	4.1	4.6	7.2	6.4	17
East	8.4	8.2	7.8	5.5	6.4	7.8	5.2	4.1	4.6	4.4	4.9	7.2	6.2	17
East Southeast	6.7	7.8	5.5	4.7	5.6	7.7	6.7	4.6	4.4	3.9	4.5	5.1	5.5	17
Southeast	7.0	6.1	4.8	4.4	5.8	6.2	6.9	5.5	4.8	3.5	5.1	5.6	5.4	17
South Southeast	4.6	4.1	3.7	5.5	4.6	5.2	5.6	5.6	4.7	3.0	4.4	4.4	4.6	17
South	5.3	3.7	4.5	6.1	6.1	6.6	9.4	11.6	8.4	5.9	5.4	6.0	6.6	17
South Southwest	3.3	2.5	3.3	4.7	4.4	3.9	6.7	9.7	6.5	4.5	5.1	4.7	4.9	17
Southwest	3.0	2.1	2.8	4.0	3.7	3.8	7.1	11.0	5.8	5.1	6.4	4.5	5.0	17
West Southwest	2.4	2.1	3.1	4.8	4.8	4.6	8.0	9.9	5.4	5.6	5.2	3.4	4.9	17
West	2.7	2.1	3.1	3.8	3.8	3.9	5.7	6.8	6.5	7.7	6.5	3.8	4.7	17
West Northwest	3.0	2.0	4.2	4.8	4.5	4.5	5.4	6.3	6.5	8.8	6.4	4.9	5.2	17
Northwest	4.3	3.8	6.4	8.8	7.5	6.0	5.5	6.2	11.3	11.7	8.5	7.5	7.3	17
North Northwest	5.8	6.7	8.1	10.7	9.8	10.0	5.3	4.3	8.6	9.8	6.6	6.4	7.7	17
Calm	3.0	1.8	2.1	1.7	2.1	1.0	1.9	1.6	2.1	1.3	2.2	2.2	1.9	17
Direction (Mean Speed, knots)														
North	16.8	18.9	16.1	14.5	13.0	11.5	11.0	11.3	13.1	13.6	15.5	15.8	14.7	17
North Northeast	18.2	18.6	16.1	14.5	13.9	12.2	11.9	12.1	13.7	15.1	15.6	17.2	15.9	17
Northeast	18.2	18.7	18.0	14.2	14.0	13.3	12.6	12.9	14.5	15.9	16.6	20.4	16.4	17
East Northeast	18.5	18.3	17.6	13.6	12.9	12.2	11.3	12.3	14.0	15.8	17.6	19.3	15.9	17
East	16.8	16.6	17.0	13.9	12.2	12.5	9.9	12.0	12.6	16.3	16.8	18.4	15.0	17
East Southeast	16.1	17.1	16.8	16.0	12.1	11.5	10.3	11.9	13.4	17.3	17.5	17.5	14.7	17
Southeast	16.5	15.5	16.3	14.9	13.0	12.1	10.3	12.3	13.4	18.0	17.7	18.7	14.8	17
South Southeast	15.6	15.7	16.5	14.2	12.2	10.6	9.7	11.1	15.5	18.5	18.3	16.5	14.3	17
South	15.0	14.8	14.4	13.4	12.4	10.2	9.6	11.4	13.4	16.1	16.7	15.8	13.2	17
South Southwest	15.3	15.1	15.1	14.6	12.9	11.4	10.4	12.0	13.2	15.8	17.3	16.4	13.8	17
Southwest	17.1	14.5	16.5	14.8	13.6	13.2	11.1	12.7	12.8	15.4	16.6	16.0	14.2	17
West Southwest	15.0	12.6	16.4	13.1	12.8	11.7	10.9	12.5	12.7	16.0	16.5	15.6	13.6	17
West	12.2	11.5	12.1	11.8	10.6	11.0	11.0	11.9	11.2	13.6	13.8	12.2	12.1	17
West Northwest	12.9	14.6	13.8	12.6	12.6	10.6	11.1	12.2	11.7	13.1	14.0	13.9	12.7	17
Northwest	14.3	17.0	17.9	16.0	13.6	12.5	12.6	13.5	14.2	14.8	15.7	15.6	14.8	17
North Northwest	16.5	18.3	16.2	16.7	13.9	12.7	12.0	12.7	15.1	15.1	15.3	16.4	15.2	17
VISIBILITY														
Mean Number of Days with Fog	12	11	13	15	22	26	29	27	17	11	11	11	205	42
% Observations with Visibility <= ½ mile	3.32	6.79	5.22	3.20	3.88	6.42	10.31	6.31	2.43	0.20	0.36	2.00	4.08	17

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

BETHEL, AK (60°47'N, 161°48'W) 125 feet (38.1 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1007.2	1009.5	1009.1	1010.1	1010.0	1011.7	1013.8	1010.8	1007.1	1004.7	1003.6	1004.2	1008.5	30
TEMPERATURE (DEGREES F)														
Mean	6.7	6.9	13.3	24.5	40.8	51.2	55.3	53.2	45.3	30.2	17.6	7.9	29.6	47
Mean Daily Maximum	12.7	13.3	21.1	32.2	48.9	59.2	62.4	59.3	51.8	35.6	23.3	13.9	36.3	47
Mean Daily Minimum	-0.6	-0.8	4.6	16.3	32.2	42.7	47.8	46.5	38.4	24.3	11.1	0.8	22.1	47
Extreme - Highest	48	46	48	58	80	86	86	84	72	65	48	45	86	47
Extreme - Lowest	-48	-39	-42	-31	-5	28	31	28	18	-5	-24	-44	-48	47
RELATIVE HUMIDITY														
Average Percentage	78.0	75.9	79.1	80.0	77.0	75.4	80.8	85.9	84.4	84.3	82.9	78.8	80.3	31
CLOUD COVER														
Percent of time Clear	25.6	31.2	27.2	20.9	8.8	4.5	3.5	3.3	7.2	13.6	18.4	21.0	15.2	30
Percent of time Scattered	14.1	12.7	14.0	15.8	14.0	15.0	12.4	8.6	11.8	14.2	14.3	14.4	13.4	30
Percent of time Broken	14.5	13.5	13.7	17.1	22.6	25.9	20.7	16.9	20.3	17.3	14.4	14.6	17.6	30
Percent of time Overcast	45.8	42.6	45.0	46.2	54.6	54.6	63.4	71.2	60.7	54.9	52.9	50.0	53.8	30
PRECIPITATION														
Mean Amount (inches)	0.78	0.64	0.83	0.66	0.84	1.42	2.04	3.39	2.33	1.40	1.14	1.12	16.59	47
Greatest Amount (inches)	6.48	3.61	3.44	3.89	2.25	3.33	5.30	12.37	5.21	2.79	4.19	6.17	39.47	47
Least Amount (inches)	0.06	T	T	0.02	0.02	0.25	0.49	0.99	0.42	0.11	0.04	0.05	7.29	47
Maximum Amount-24 hrs (inches)	1.76	0.95	1.21	0.92	0.73	1.36	3.10	2.30	1.97	1.37	1.12	1.18	3.10	47
Mean Number of Days with Precipitation	20	18	20	20	21	21	23	26	23	23	22	22	259	44
Snow - Mean Amount (inches)	7.5	6.7	9.2	4.9	1.7	0.1	0.0	0.0	0.3	3.9	8.9	10.2	53.4	47
Snow - Greatest Amount (inches)	57.4	35.8	36.1	14.3	6.2	2.2	0.0	0.0	4.8	12.8	34.7	47.0	149.5	47
Snow - Least Snowfall Amount (inches)	0.3	T	T	0.3	0.0	0.0	0.0	0.0	0.0	T	1.8	0.4	21.4	47
Snow - Maximum Amount in 24 hours (inches)	17.6	11.3	12.7	4.4	4.0	1.2	0.0	0.0	4.8	6.0	9.3	8.3	17.6	47
Mean Number of Days with Snow	19	17	20	18	8	1	0	0	2	16	20	21	142	44
WIND														
% of Observations with Gales	0.24	0.32	0.29	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.13	0.13	1.20	31
Mean Wind Speed (knots)	11.9	12.3	11.5	10.3	9.6	9.2	8.9	9.4	9.8	10.2	10.8	11.3	10.4	31
Direction (percentage of observations)														
North	10.9	12.9	10.3	10.0	7.6	5.2	4.7	4.0	6.8	10.0	8.7	8.9	8.3	31
North Northeast	18.8	19.8	15.7	8.3	4.4	2.8	2.9	3.4	6.5	12.1	16.9	17.7	10.7	31
Northeast	20.9	18.5	13.8	7.0	3.9	3.1	2.7	4.3	8.6	11.6	16.0	18.4	10.7	31
East Northeast	7.4	5.7	5.1	4.0	5.2	3.3	2.9	3.9	6.8	6.0	7.3	7.1	5.4	31
East	4.6	3.9	4.6	5.1	6.7	5.5	3.8	4.7	6.3	4.1	4.7	4.7	4.9	31
East Southeast	4.0	3.3	3.8	4.4	6.5	5.5	3.4	4.3	5.1	3.6	3.8	3.2	4.3	31
Southeast	3.1	3.0	3.5	3.2	5.1	4.3	3.4	4.1	4.2	3.5	3.7	3.4	3.7	31
South Southeast	3.7	3.9	4.5	4.5	5.2	4.6	4.3	6.8	6.2	5.3	4.5	4.8	4.9	31
South	4.8	5.5	6.2	7.4	9.1	8.4	10.8	12.3	8.7	6.7	8.0	6.5	7.9	31
South Southwest	2.4	3.0	4.0	3.6	6.9	9.0	13.4	13.3	6.7	3.9	3.7	3.4	6.2	31
Southwest	1.7	2.4	3.2	3.4	4.8	8.2	11.0	9.9	5.2	3.4	2.4	2.3	4.9	31
West Southwest	1.6	1.8	2.4	3.1	3.7	6.6	7.0	5.9	4.4	3.2	2.3	1.9	3.7	31
West	1.3	1.5	2.5	3.6	4.1	5.6	5.3	5.1	3.5	3.3	2.3	1.7	3.3	31
West Northwest	2.3	2.8	3.8	6.5	6.4	7.2	6.4	5.3	5.0	5.0	2.9	3.0	4.7	31
Northwest	3.8	5.3	8.3	13.2	11.3	11.7	9.1	5.9	7.0	8.0	4.8	4.6	7.7	31
North Northwest	5.5	5.8	6.1	10.5	7.5	7.3	6.9	4.5	6.9	8.1	5.2	5.7	6.6	31
Calm	3.6	1.4	2.1	2.2	1.3	1.5	2.1	2.3	2.0	2.2	3.1	3.2	2.3	31
Direction (Mean Speed, knots)														
North	10.4	11.3	10.0	9.5	8.6	8.0	7.3	7.5	8.7	9.6	9.2	9.8	9.5	31
North Northeast	14.5	14.6	13.4	11.4	9.2	8.6	8.2	8.7	9.8	12.0	13.2	13.6	12.8	31
Northeast	14.0	13.7	13.4	11.2	8.8	8.1	7.6	8.4	10.2	11.7	12.4	12.9	12.3	31
East Northeast	10.5	10.8	10.1	9.8	9.1	8.7	7.7	8.4	9.8	9.9	10.5	10.0	9.8	31
East	9.5	9.2	9.5	8.9	9.1	9.0	7.4	7.3	8.1	8.3	8.7	9.0	8.7	31
East Southeast	11.3	11.2	10.2	9.4	9.4	9.1	7.4	7.7	8.4	9.3	10.2	11.3	9.5	31
Southeast	11.9	12.1	11.1	9.7	9.7	9.0	8.0	8.2	9.1	9.6	10.1	11.2	9.8	31
South Southeast	14.5	14.1	13.3	13.3	11.5	10.4	10.0	11.3	11.5	11.5	12.5	13.1	12.1	31
South	13.5	13.9	12.9	12.2	11.7	10.3	10.5	12.1	11.8	11.1	11.4	12.8	11.8	31
South Southwest	13.7	13.8	12.8	11.4	11.2	10.4	11.1	11.8	11.9	11.3	11.6	12.5	11.6	31
Southwest	10.6	12.1	10.1	10.6	10.3	9.5	9.2	9.7	10.2	11.0	10.8	10.3	10.0	31
West Southwest	10.3	10.5	10.9	9.5	8.8	8.8	8.6	9.0	8.9	9.0	9.0	10.0	9.1	31
West	7.9	9.0	9.3	8.3	8.5	8.4	8.3	8.2	8.2	8.9	8.1	8.7	8.4	31
West Northwest	9.3	10.1	11.8	10.6	9.7	9.3	8.8	9.2	9.6	10.0	10.4	9.9	9.8	31
Northwest	10.2	9.9	11.6	11.0	10.0	10.4	9.3	8.8	10.3	10.2	10.3	9.9	10.2	31
North Northwest	9.7	10.4	9.9	10.1	9.2	9.1	8.7	7.7	10.1	9.4	9.3	10.4	9.5	31
VISIBILITY														
Mean Number of Days with Fog	14	10	13	13	11	11	16	20	14	13	13	13	161	44
% Observations with Visibility <= ½ mile	2.50	2.16	1.67	1.44	1.30	0.60	0.95	1.35	1.04	1.40	1.65	2.54	1.55	31

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

NOME, AK (64°30'N, 165°26'W) 13 feet (4 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1010.0	1012.8	1011.8	1012.1	1011.3	1011.7	1012.2	1009.3	1007.8	1005.1	1006.3	1007.0	1009.7	34
TEMPERATURE (DEGREES F)														
Mean	6.7	4.8	8.6	18.8	36.3	46.3	51.4	50.1	42.5	28.5	16.4	7.1	26.7	47
Mean Daily Maximum	13.8	12.4	17.0	26.3	42.4	53.0	57.2	55.6	48.4	34.0	22.6	14.1	33.3	47
Mean Daily Minimum	-1.6	-4.2	-0.8	10.6	29.6	39.1	45.0	44.1	36.1	22.4	9.6	-1.1	19.3	47
Extreme - Highest	43	48	43	51	78	81	86	83	71	59	45	43	86	47
Extreme - Lowest	-54	-42	-46	-30	-11	23	30	26	9	-10	-39	-41	-54	47
RELATIVE HUMIDITY														
Average Percentage	75.2	72.8	73.0	77.1	77.4	77.7	83.0	83.9	79.4	77.7	76.7	74.7	77.4	34
CLOUD COVER														
Percent of time Clear	33.6	38.2	34.8	27.0	16.7	13.8	8.8	6.5	11.7	18.8	25.3	29.5	21.8	34
Percent of time Scattered	11.2	11.8	13.1	14.5	16.1	19.5	15.0	12.9	14.6	15.8	12.6	12.7	14.2	34
Percent of time Broken	9.9	10.1	11.0	13.3	17.4	21.1	17.0	16.7	17.8	16.5	12.4	11.1	14.5	34
Percent of time Overcast	45.3	39.9	41.1	45.3	49.7	45.5	59.2	63.9	55.9	48.9	49.7	46.7	49.4	34
PRECIPITATION														
Mean Amount (inches)	0.87	0.64	0.64	0.67	0.62	1.09	2.18	3.28	2.49	1.41	1.05	0.86	15.79	47
Greatest Amount (inches)	2.10	2.11	1.95	2.15	2.02	4.15	4.66	7.82	7.46	3.84	4.39	2.16	24.25	47
Least Amount (inches)	T	T	T	0.01	0.04	0.04	0.25	0.40	0.39	T	0.03	0.03	7.42	47
Maximum Amount-24 hrs (inches)	1.09	0.59	0.54	0.65	0.75	1.37	1.68	2.36	1.28	1.50	0.80	0.69	2.36	47
Mean Number of Days with Precipitation	18	14	17	17	16	16	20	21	19	19	20	18	215	47
Snow - Mean Amount (inches)	9.3	6.7	7.4	6.7	2.1	0.1	0.0	0.0	0.5	4.7	11.3	9.9	58.7	47
Snow - Greatest Amount (inches)	23.7	23.2	19.7	23.3	10.0	2.5	0.0	0.1	3.5	13.6	30.9	29.7	101.9	47
Snow - Least Snowfall Amount (inches)	T	T	T	0.1	0.0	0.0	0.0	0.0	0.0	T	0.4	1.1	18.6	47
Snow - Maximum Amount in 24 hours (inches)	7.0	7.9	5.0	6.3	4.6	1.7	0.0	0.1	2.4	5.8	8.6	7.8	8.6	47
Mean Number of Days with Snow	18	14	17	16	10	1	0	0	3	15	19	18	131	47
WIND														
% of Observations with Gales	0.63	0.55	0.33	0.06	0.05	0.00	0.00	0.02	0.07	0.29	0.23	0.32	1.99	34
Mean Wind Speed (knots)	9.9	9.4	8.6	8.9	8.8	8.3	8.3	9.2	9.8	9.5	10.0	9.2	9.2	34
Direction (percentage of observations)														
North	10.0	10.1	10.9	10.2	8.9	5.5	4.2	7.0	12.8	14.7	13.3	12.5	10.0	34
North Northeast	8.7	8.3	9.1	6.3	5.9	2.8	1.9	3.5	7.8	8.9	8.7	8.3	6.7	34
Northeast	12.3	12.2	12.1	8.7	6.9	3.1	2.6	4.0	9.6	11.4	12.4	11.0	8.8	34
East Northeast	12.7	11.6	11.1	9.8	6.9	3.0	3.1	4.9	7.9	10.4	14.8	13.8	9.2	34
East	16.8	13.5	12.0	11.7	9.5	4.3	4.5	5.5	6.8	7.3	13.0	14.6	9.9	34
East Southeast	4.4	5.0	3.9	5.3	7.6	5.7	4.6	5.5	4.4	3.4	4.2	4.3	4.9	34
Southeast	2.5	3.0	2.8	3.6	6.3	6.4	6.8	6.7	4.4	3.6	2.6	2.1	4.2	34
South Southeast	1.4	1.9	1.4	3.1	3.9	4.9	6.1	5.2	4.5	2.9	1.4	1.4	3.2	34
South	1.5	2.2	1.6	3.8	4.4	6.1	8.6	7.5	4.3	3.2	1.3	1.5	3.8	34
South Southwest	0.9	1.2	1.1	2.3	3.6	5.5	8.4	8.0	3.6	1.8	1.0	0.7	3.2	34
Southwest	1.2	1.0	1.4	4.1	6.1	9.5	10.9	9.4	4.6	1.9	1.3	0.9	4.4	34
West Southwest	1.2	1.1	1.9	3.1	7.0	15.1	12.7	8.2	4.0	1.7	1.0	0.9	4.8	34
West	2.1	2.9	3.1	4.6	6.3	11.3	9.4	5.7	3.4	2.2	1.5	1.9	4.5	34
West Northwest	2.9	3.0	3.6	4.5	3.7	5.3	5.2	5.2	4.8	4.7	3.4	2.9	4.1	34
Northwest	3.9	4.4	4.6	5.1	3.6	4.3	4.7	5.3	6.3	8.1	6.1	4.9	5.1	34
North Northwest	5.2	6.1	6.4	6.2	5.6	4.0	3.1	5.2	7.3	9.5	7.5	7.1	6.1	34
Calm	12.1	12.6	13.2	7.6	3.8	3.6	3.2	3.3	3.7	4.4	6.6	11.5	7.1	34
Direction (Mean Speed, knots)														
North	7.8	7.8	7.9	7.8	8.5	7.4	6.5	7.3	8.5	7.8	7.4	7.5	7.8	34
North Northeast	11.3	11.2	11.4	10.6	11.5	9.4	6.7	8.2	10.5	9.5	9.4	9.7	10.3	34
Northeast	12.5	12.3	11.6	12.1	11.5	9.6	7.1	8.8	10.4	9.5	11.2	11.1	11.1	34
East Northeast	13.3	13.4	12.5	12.1	11.0	9.1	8.2	9.7	10.6	10.7	12.6	13.0	12.0	34
East	14.1	13.5	11.3	11.6	10.5	8.8	8.2	9.5	10.7	10.9	14.0	13.9	12.2	34
East Southeast	12.5	11.2	10.7	10.4	10.6	9.9	9.5	11.5	12.4	13.9	13.6	12.3	11.4	34
Southeast	10.0	9.7	8.5	9.8	9.0	9.1	9.4	11.0	12.2	15.2	14.1	11.1	10.5	34
South Southeast	11.7	9.8	8.1	10.1	8.3	7.5	9.1	10.2	12.9	15.7	13.5	12.1	10.4	34
South	10.8	9.7	7.2	9.0	7.1	6.6	8.4	9.7	10.6	13.3	12.6	9.5	9.1	34
South Southwest	11.4	11.5	9.0	9.3	7.4	6.6	9.1	10.9	12.0	13.5	13.5	10.5	9.7	34
Southwest	9.5	8.9	9.5	10.1	8.0	7.7	8.3	10.5	10.9	14.3	15.3	8.2	9.4	34
West Southwest	9.3	9.2	8.7	7.6	8.6	10.3	10.0	10.0	11.1	11.8	11.3	9.0	9.8	34
West	8.0	8.2	7.4	6.6	7.9	10.2	9.7	9.4	9.4	8.0	7.1	6.5	8.7	34
West Northwest	8.4	8.6	8.3	7.8	7.8	8.4	8.0	8.6	9.1	8.7	8.4	7.4	8.3	34
Northwest	6.9	7.2	7.0	7.3	7.0	6.8	6.9	8.5	8.5	8.2	7.7	6.7	7.5	34
North Northwest	7.4	6.7	6.8	6.4	7.0	7.4	6.2	7.2	8.1	7.3	6.5	6.8	7.0	34
VISIBILITY														
Mean Number of Days with Fog	10	7	9	9	10	12	16	15	8	7	8	9	120	47
% Observations with Visibility <= ½ mile	2.47	1.63	1.78	0.94	1.01	1.64	1.16	0.45	0.10	0.25	1.21	1.73	1.19	34

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

KOTZEBUE, AK (66°52'N, 162°38'W) 10 feet (3 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1013.8	1016.1	1014.8	1014.2	1012.9	1011.9	1012.0	1009.8	1009.3	1007.8	1009.6	1010.6	1011.9	34
TEMPERATURE (DEGREES F)														
Mean	-1.3	-4.0	0.8	12.4	31.7	44.2	54.0	52.0	41.8	23.5	8.5	-1.2	22.0	47
Mean Daily Maximum	4.5	2.3	8.5	20.9	38.1	50.0	59.2	56.6	46.5	28.0	13.4	4.4	27.8	47
Mean Daily Minimum	-8.7	-12.0	-8.3	2.9	24.7	38.0	48.4	46.9	36.5	18.4	2.5	-8.4	15.2	47
Extreme - Highest	39	40	39	48	70	85	85	80	69	51	38	37	85	47
Extreme - Lowest	-49	-52	-48	-31	-12	24	30	29	13	-19	-36	-47	-52	47
RELATIVE HUMIDITY														
Average Percentage	73.0	72.3	72.4	78.0	82.4	83.3	81.7	83.2	80.5	80.8	77.0	75.0	78.4	34
CLOUD COVER														
Percent of time Clear	34.7	40.4	36.2	29.8	20.0	15.1	9.9	8.0	14.4	21.4	28.9	32.8	24.1	34
Percent of time Scattered	14.2	13.8	16.0	16.8	17.7	21.0	17.6	13.5	14.2	14.2	13.2	14.0	15.5	34
Percent of time Broken	11.6	9.8	11.7	14.3	18.2	22.9	21.0	18.0	17.3	13.8	12.7	11.0	15.2	34
Percent of time Overcast	39.4	36.0	36.1	39.0	44.1	40.9	51.5	60.4	54.1	50.6	45.2	42.2	45.2	34
PRECIPITATION														
Mean Amount (inches)	0.41	0.34	0.38	0.35	0.35	0.54	1.44	2.08	1.52	0.78	0.58	0.48	9.27	47
Greatest Amount (inches)	1.77	1.23	1.23	1.41	1.05	1.43	3.51	5.18	4.31	3.20	2.22	1.40	14.76	47
Least Amount (inches)	T	0.00	T	0.05	T	0.01	0.01	0.08	0.03	0.04	0.09	T	5.07	47
Maximum Amount-24 hrs (inches)	0.64	0.68	0.37	0.44	0.49	0.70	0.98	1.48	1.64	0.80	0.51	0.40	1.64	47
Mean Number of Days with Precipitation	16	13	15	15	14	13	16	20	18	17	18	17	192	47
Snow - Mean Amount (inches)	6.3	5.1	6.1	4.8	1.6	0.1	0.0	0.0	1.2	6.8	8.8	8.1	49.0	47
Snow - Greatest Amount (inches)	23.9	14.0	21.9	18.1	12.0	2.4	0.1	0.3	7.4	18.0	24.3	23.6	88.0	47
Snow - Least Snowfall Amount (inches)	T	0.0	T	0.3	0.0	0.0	0.0	0.0	0.0	0.5	1.1	1.2	21.1	47
Snow - Maximum Amount in 24 hours (inches)	8.1	6.8	6.6	4.6	3.5	2.1	0.1	0.2	5.0	7.3	6.2	11.0	11.0	47
Mean Number of Days with Snow	16	13	15	15	9	2	0	0	4	15	18	17	124	47
WIND														
% of Observations with Gales	1.65	1.80	0.81	0.54	0.02	0.02	0.00	0.05	0.10	0.32	1.41	1.75	1.77	34
Mean Wind Speed (knots)	12.1	11.6	10.2	10.3	9.5	10.3	10.9	11.4	11.4	11.6	12.1	11.7	11.1	34
Direction (percentage of observations)														
North	4.3	5.4	4.3	4.1	4.0	2.8	2.8	3.9	8.5	9.8	6.2	5.2	5.1	34
North Northeast	5.4	5.2	5.7	4.7	4.0	1.9	1.8	2.9	5.8	9.0	7.2	6.9	5.1	34
Northeast	11.5	9.9	9.6	7.2	6.6	2.4	2.1	3.3	6.4	11.1	11.9	13.2	7.9	34
East Northeast	10.3	10.3	10.1	7.0	6.0	2.1	2.7	4.2	8.4	12.8	16.1	13.9	8.7	34
East	18.4	15.2	13.9	8.5	7.8	2.6	3.8	6.5	12.0	14.5	19.8	20.5	12.0	34
East Southeast	20.2	16.0	13.5	12.5	8.7	3.2	4.8	9.3	14.0	16.4	19.5	15.9	12.8	34
Southeast	3.8	3.9	3.7	5.1	5.0	3.8	6.2	8.1	6.0	4.4	3.1	3.3	4.7	34
South Southeast	1.8	2.4	1.8	3.7	3.8	3.5	5.0	5.8	3.6	1.9	1.2	1.1	3.0	34
South	1.5	2.0	2.1	2.9	3.5	3.9	6.0	5.8	2.6	1.4	0.9	1.0	2.8	34
South Southwest	1.1	1.7	2.3	3.2	3.2	3.9	5.1	4.0	1.9	0.9	0.6	0.9	2.4	34
Southwest	2.0	2.4	3.3	4.2	4.9	6.6	6.5	4.5	3.0	1.8	1.0	1.3	3.5	34
West Southwest	1.9	3.3	4.9	6.2	7.8	11.2	8.0	5.8	3.1	1.8	0.9	1.6	4.7	34
West	3.6	5.0	6.9	9.5	12.8	22.8	16.2	11.0	5.0	1.9	1.5	3.1	8.2	34
West Northwest	4.8	5.6	7.7	11.0	12.9	20.6	19.9	13.9	7.0	2.1	1.9	3.1	9.2	34
Northwest	3.5	3.1	3.0	3.5	3.7	5.0	5.6	6.0	6.1	3.4	2.7	2.9	4.0	34
North Northwest	2.9	3.4	2.6	2.7	2.6	2.5	2.3	3.5	5.5	5.8	3.8	3.2	3.4	34
Calm	3.5	5.3	4.4	3.9	3.0	1.4	1.4	1.3	1.2	1.2	2.2	3.1	2.6	34
Direction (Mean Speed, knots)														
North	8.8	9.3	8.0	8.2	7.0	7.8	7.4	9.0	10.0	10.6	8.4	8.6	8.9	34
North Northeast	7.1	7.4	7.3	7.4	6.7	6.9	7.8	7.4	8.4	8.1	7.5	6.9	7.5	34
Northeast	6.8	7.3	7.1	7.5	7.3	7.3	7.6	7.2	8.4	7.3	7.3	6.4	7.2	34
East Northeast	8.5	8.4	8.3	9.2	9.3	8.8	8.9	9.2	10.9	9.2	9.0	8.5	9.0	34
East	15.3	16.0	13.7	13.3	12.4	10.9	9.7	11.1	12.7	13.6	15.7	16.1	14.3	34
East Southeast	17.6	17.9	15.8	15.3	12.6	10.8	11.1	12.4	13.0	15.5	17.6	18.1	15.7	34
Southeast	13.2	13.3	11.8	13.3	12.2	11.3	12.1	12.9	12.7	14.1	14.1	14.3	12.9	34
South Southeast	14.0	13.2	9.4	13.4	11.7	11.2	12.0	13.3	12.4	14.4	12.8	12.9	12.5	34
South	10.4	9.4	6.6	8.9	8.7	9.3	10.5	11.6	12.1	12.2	10.3	7.6	10.0	34
South Southwest	11.1	8.8	7.3	7.5	7.9	8.3	10.5	11.5	10.9	13.8	12.0	8.4	9.5	34
Southwest	11.1	8.8	6.5	7.3	7.5	7.7	10.0	11.5	13.0	13.8	13.4	11.2	9.5	34
West Southwest	11.3	10.1	8.8	8.7	7.9	9.0	10.4	11.4	12.2	14.6	13.6	10.8	9.9	34
West	11.6	12.5	11.0	10.3	9.8	11.9	12.2	11.9	11.0	12.5	14.1	12.0	11.5	34
West Northwest	14.8	13.6	13.2	11.8	11.7	12.8	12.8	13.3	12.8	12.9	13.6	13.7	12.9	34
Northwest	12.1	11.6	10.6	9.8	8.6	9.1	9.9	11.6	12.2	12.6	13.6	13.5	11.2	34
North Northwest	11.0	9.8	8.7	8.7	8.1	7.6	8.1	10.6	11.6	12.0	10.9	10.3	10.2	34
VISIBILITY														
Mean Number of Days with Fog	7	7	8	9	10	11	9	9	7	6	5	7	95	47
% Observations with Visibility <= ½ mile	2.61	3.12	2.06	1.42	1.82	2.12	0.95	0.27	0.25	0.52	1.91	2.25	1.59	34

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

BARROW, AK (71°18'N, 156°47'W) 31 feet (9.4 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1019.4	1021.2	1020.8	1019.3	1018.3	1014.7	1013.5	1011.9	1012.7	1012.2	1015.6	1017.0	1016.3	30
TEMPERATURE (DEGREES F)														
Mean	-12.9	-17.0	-13.7	-0.3	19.7	34.2	39.6	38.4	30.8	14.9	-0.7	-10.7	10.4	47
Mean Daily Maximum	-7.6	-12.1	-8.5	5.9	24.4	38.2	45.2	42.8	33.9	19.3	4.2	-5.9	15.2	47
Mean Daily Minimum	-20.3	-24.2	-21.2	-8.2	14.6	29.7	33.6	33.4	27.1	9.7	-7.1	-17.7	4.3	47
Extreme - Highest	36	36	33	38	46	71	79	76	62	43	37	32	79	47
Extreme - Lowest	-53	-56	-52	-38	-19	4	25	21	1	-32	-38	-51	-56	47
RELATIVE HUMIDITY														
Average Percentage	68.1	67.1	66.7	73.5	85.6	88.9	89.3	91.4	90.0	84.8	76.8	70.2	79.7	31
CLOUD COVER														
Percent of time Clear	36.5	36.5	38.7	31.0	10.7	6.5	7.5	2.7	2.1	6.2	22.5	34.2	19.3	30
Percent of time Scattered	18.7	18.1	17.6	15.4	8.4	11.2	12.9	7.3	4.9	9.0	17.5	17.1	13.1	30
Percent of time Broken	11.6	12.5	13.3	12.6	9.7	16.7	19.2	13.7	11.3	13.0	13.1	10.9	13.1	30
Percent of time Overcast	33.1	33.0	30.3	41.0	71.1	65.5	60.4	76.3	81.7	71.8	46.9	37.8	54.5	30
PRECIPITATION														
Mean Amount (inches)	0.18	0.16	0.15	0.18	0.15	0.34	0.89	1.00	0.63	0.48	0.25	0.17	4.57	47
Greatest Amount (inches)	1.04	0.81	1.49	1.36	0.51	1.15	3.19	2.81	1.56	1.40	1.15	0.76	9.77	47
Least Amount (inches)	T	T	T	T	T	0.02	0.08	0.09	0.01	0.13	T	0.01	1.75	47
Maximum Amount-24 hrs (inches)	0.47	0.30	0.70	0.42	0.29	0.82	1.28	0.83	0.56	0.45	0.39	0.21	1.28	47
Mean Number of Days with Precipitation	18	17	18	18	24	21	19	24	26	26	21	20	252	47
Snow - Mean Amount (inches)	2.2	2.1	2.0	2.4	1.9	0.7	0.3	0.8	4.1	6.6	3.4	2.2	28.6	47
Snow - Greatest Amount (inches)	11.9	8.8	15.8	15.4	7.4	4.1	3.5	4.0	16.2	15.1	12.8	9.2	62.1	47
Snow - Least Snowfall Amount (inches)	T	T	T	T	0.1	T	0.0	0.0	0.1	2.2	0.1	0.1	13.1	47
Snow - Maximum Amount in 24 hours (inches)	4.7	3.0	7.0	4.2	3.8	3.2	2.9	2.1	5.1	5.1	3.9	2.6	7.0	47
Mean Number of Days with Snow	18	17	18	18	23	13	5	10	22	26	21	20	211	47
WIND														
% of Observations with Gales	0.31	0.16	0.21	0.01	0.00	0.01	0.01	0.03	0.09	0.13	0.29	0.15	2.36	30
Mean Wind Speed (knots)	10.8	10.1	10.0	10.2	10.8	10.3	10.3	11.1	11.6	11.8	11.4	10.5	10.8	30
Direction (percentage of observations)														
North	3.1	4.6	4.9	4.3	2.9	5.0	5.3	5.2	4.2	3.1	2.5	2.7	4.0	30
North Northeast	3.4	2.6	5.1	5.1	3.6	4.4	4.9	4.2	3.6	3.4	2.6	3.7	3.9	30
Northeast	12.8	10.5	14.8	15.3	12.3	9.5	8.0	7.5	9.4	11.5	14.3	13.6	11.6	30
East Northeast	17.3	13.5	16.9	17.9	22.1	16.6	13.6	11.6	16.8	17.4	21.3	21.3	17.2	30
East	11.0	12.2	10.8	12.0	18.1	18.1	14.7	14.5	13.7	13.0	14.0	12.8	13.7	30
East Southeast	8.2	7.4	5.7	6.8	10.2	8.0	6.4	8.1	8.7	8.7	7.4	6.1	7.6	30
Southeast	4.3	4.0	3.9	4.7	5.1	4.0	3.3	4.7	5.4	6.8	5.2	4.6	4.7	30
South Southeast	2.7	2.3	2.0	2.9	2.0	2.2	2.5	3.0	3.8	5.3	4.3	2.2	3.0	30
South	4.6	4.2	3.4	4.6	3.1	2.5	2.7	3.2	5.2	6.9	6.1	3.9	4.2	30
South Southwest	5.0	4.2	4.1	3.7	2.9	1.9	2.8	3.2	3.2	3.9	3.8	3.5	3.5	30
Southwest	4.3	5.2	4.6	4.1	3.4	4.6	6.2	5.2	3.4	2.4	2.1	3.7	4.1	30
West Southwest	5.0	5.4	5.2	3.8	3.4	6.5	9.3	8.2	4.2	2.1	2.5	4.3	5.0	30
West	5.5	7.8	5.9	4.2	3.0	5.4	7.2	6.9	5.0	3.1	3.1	5.6	5.2	30
West Northwest	4.5	6.1	4.8	3.1	2.0	4.1	5.2	5.3	4.9	3.7	3.9	4.2	4.3	30
Northwest	3.9	4.5	3.5	3.7	2.6	3.6	3.9	4.9	4.3	4.3	3.3	3.4	3.8	30
North Northwest	3.0	3.6	3.3	3.0	2.4	3.3	3.5	3.7	3.0	3.8	2.6	2.6	3.1	30
Calm	1.7	1.9	1.2	1.0	0.9	0.5	0.7	0.6	1.0	0.9	1.3	2.1	1.1	30
Direction (Mean Speed, knots)														
North	8.1	7.2	7.8	7.5	7.9	7.3	7.2	7.3	8.5	9.9	9.0	7.6	7.8	30
North Northeast	9.1	7.8	9.3	9.0	8.8	8.5	8.5	9.3	10.2	11.4	9.9	8.4	9.2	30
Northeast	10.7	9.8	10.3	11.0	10.8	10.0	10.3	11.5	11.6	12.4	11.6	10.8	10.9	30
East Northeast	12.1	11.3	11.7	11.8	12.6	11.7	11.7	12.8	13.4	13.9	13.3	12.2	12.4	30
East	12.5	11.3	11.4	11.0	12.0	12.5	12.2	13.2	12.8	12.1	12.2	11.6	12.1	30
East Southeast	12.8	12.1	11.4	11.8	11.8	11.6	11.2	12.5	11.9	10.9	10.6	11.1	11.7	30
Southeast	10.1	9.5	9.6	9.7	10.2	9.9	10.5	10.3	9.8	10.4	9.3	9.7	9.9	30
South Southeast	8.7	7.6	7.7	9.2	8.4	8.8	10.0	9.7	9.5	9.2	8.3	8.1	8.9	30
South	9.0	8.0	7.5	8.3	7.9	7.8	9.8	9.4	9.2	9.7	8.6	7.2	8.6	30
South Southwest	9.7	10.4	8.7	9.7	9.2	9.6	11.1	11.4	12.0	11.0	11.5	9.4	10.3	30
Southwest	9.8	10.6	9.2	9.7	9.8	10.3	11.0	11.6	11.9	12.6	14.1	10.4	10.7	30
West Southwest	11.9	11.3	9.9	9.4	10.5	10.0	11.0	11.4	12.7	12.8	12.1	11.4	11.1	30
West	12.3	11.2	10.6	10.2	9.5	9.8	9.9	10.8	12.6	13.9	12.5	11.2	11.1	30
West Northwest	10.6	11.2	10.6	9.9	9.1	8.6	8.8	10.5	13.3	14.3	13.6	12.0	11.1	30
Northwest	9.4	9.7	8.6	9.1	8.0	8.2	7.8	9.0	11.2	12.7	12.0	9.3	9.6	30
North Northwest	8.9	8.5	7.5	7.6	8.4	7.9	7.7	8.7	9.6	11.0	10.2	8.4	8.7	30
VISIBILITY														
Mean Number of Days with Fog	14	14	13	14	20	22	23	24	20	17	15	14	210	47
% Observations with Visibility <= ½ mile	3.27	2.12	1.56	1.55	3.20	4.87	5.40	5.72	2.23	1.73	2.62	1.97	3.04	30

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

CLIMATOLOGICAL TABLES

T = trace (not measurable) of precipitation.
MISS or (blank) is a missing value.

BARTER ISLAND, AK (70°08'N, 143°38'W) 39 feet (11.9 m)

WEATHER ELEMENTS	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.	YEAR	YEARS OF RECORD
SEA LEVEL PRESSURE*														
Mean (Millibars)	1019.8	1020.1	1020.7	1018.7	1018.2	1014.1	1013.4	1012.1	1012.5	1012.0	1014.4	1016.2	1015.9	22
TEMPERATURE (DEGREES F)														
Mean	-12.9	-19.1	-14.4	-0.8	21.1	34.6	40.3	39.4	32.0	15.5	0.0	-10.8	10.6	39
Mean Daily Maximum	-7.6	-14.0	-8.7	6.5	26.2	38.4	45.3	43.8	35.4	20.3	5.1	-5.7	15.7	39
Mean Daily Minimum	-20.4	-26.5	-22.5	-9.6	15.5	30.3	34.8	34.5	27.9	10.1	-6.7	-18.3	4.3	40
Extreme - Highest	39	37	36	43	52	68	78	72	66	46	37	37	78	39
Extreme - Lowest	-54	-59	-51	-44	-16	13	24	20	4	-26	-44	-51	-59	40
RELATIVE HUMIDITY														
Average Percentage	68.7	68.6	67.7	72.7	84.0	89.1	89.0	90.7	89.5	83.9	74.5	70.3	79.4	22
CLOUD COVER														
Percent of time Clear	32.1	31.1	33.4	24.4	9.9	8.2	6.8	3.6	5.3	8.4	21.1	28.4	17.5	23
Percent of time Scattered	17.6	19.1	19.1	19.8	10.7	13.5	17.3	10.5	10.6	11.1	14.4	16.3	14.9	23
Percent of time Broken	12.7	12.4	14.5	14.9	11.1	17.8	21.4	18.0	15.6	12.4	11.4	13.0	14.6	23
Percent of time Overcast	37.6	37.4	33.1	40.9	68.3	60.5	54.5	67.9	68.5	68.2	53.2	42.3	53.0	23
PRECIPITATION														
Mean Amount (inches)	0.45	0.20	0.22	0.19	0.30	0.50	0.98	1.03	0.77	0.75	0.41	0.27	6.07	40
Greatest Amount (inches)	4.08	1.63	1.44	1.22	1.51	2.09	3.01	2.25	4.90	3.09	1.50	1.17	15.80	40
Least Amount (inches)	T	T	T	T	0.02	0.03	T	0.16	0.07	0.12	0.04	T	2.93	40
Maximum Amount-24 hrs (inches)	2.25	0.38	0.54	0.44	0.73	1.15	1.64	0.88	2.04	1.98	0.43	0.52	2.25	40
Mean Number of Days with Precipitation	15	13	14	14	19	16	16	18	19	21	17	17	199	44
Snow - Mean Amount (inches)	4.6	2.5	2.6	2.4	2.9	1.6	0.5	1.5	5.6	9.5	5.1	3.4	42.3	40
Snow - Greatest Amount (inches)	35.0	15.3	15.0	12.2	11.1	9.4	3.8	7.6	35.8	32.2	20.2	12.9	130.3	40
Snow - Least Snowfall Amount (inches)	T	T	T	0.3	0.1	T	0.0	0.0	T	1.8	0.4	T	22.8	40
Snow - Maximum Amount in 24 hours (inches)	14.8	3.8	5.4	4.4	7.3	5.4	3.4	3.4	16.1	16.0	6.1	5.2	16.1	40
Mean Number of Days with Snow	15	13	14	14	18	8	3	5	14	20	17	17	158	44
WIND														
% of Observations with Gales	3.19	3.48	1.83	0.58	0.27	0.05	0.00	0.22	1.12	2.51	2.12	2.27	4.62	23
Mean Wind Speed (knots)	12.9	12.5	11.6	10.3	10.6	9.8	9.3	10.2	11.1	13.3	12.8	12.4	11.4	23
Direction (percentage of observations)														
North	0.4	0.5	0.6	0.9	1.9	2.5	3.3	3.0	2.2	1.3	0.5	0.6	1.5	23
North Northeast	0.5	0.4	0.6	0.9	1.4	2.3	2.9	2.5	2.0	1.2	0.9	0.6	1.4	23
Northeast	1.7	1.8	2.9	2.3	5.4	7.1	6.6	5.8	4.5	3.1	3.1	2.0	3.9	23
East Northeast	10.9	9.2	14.0	13.5	16.9	21.7	19.4	16.2	13.3	11.0	14.4	12.1	14.4	23
East	23.6	17.1	18.5	20.5	29.2	27.9	20.2	21.3	19.7	19.3	21.4	17.0	21.3	23
East Southeast	9.0	8.0	6.8	7.1	9.6	6.3	7.4	8.0	10.2	9.5	9.8	7.8	8.3	23
Southeast	3.2	1.4	1.3	1.3	1.7	0.7	1.4	2.2	3.2	3.7	2.3	2.0	2.1	23
South Southeast	0.7	0.7	0.5	0.7	0.8	0.4	0.7	1.1	1.5	1.4	1.1	0.8	0.9	23
South	2.1	1.5	1.6	1.8	1.2	0.5	1.3	1.2	2.0	3.8	2.5	1.7	1.8	23
South Southwest	2.0	2.4	1.9	1.8	1.3	0.5	0.7	1.4	2.4	5.1	3.6	3.7	2.2	23
Southwest	6.7	7.0	5.9	5.5	3.6	0.9	1.2	1.6	2.8	6.5	6.0	7.8	4.6	23
West Southwest	11.4	13.4	12.3	11.1	4.3	2.9	3.1	3.4	5.6	8.3	9.3	11.8	8.0	23
West	16.0	21.8	20.1	18.4	9.7	8.0	9.5	10.6	12.0	12.9	12.9	19.0	14.1	23
West Northwest	6.3	9.5	7.8	7.0	6.5	8.2	9.1	11.6	8.8	7.7	6.3	7.3	8.0	23
Northwest	1.4	1.8	1.3	1.8	2.6	4.6	6.2	4.9	4.1	1.9	1.6	1.4	2.8	23
North Northwest	0.3	0.4	0.5	0.6	1.3	2.0	3.0	2.4	1.9	0.9	0.5	0.6	1.2	23
Calm	3.6	3.3	3.0	4.9	2.7	3.4	4.0	3.0	3.6	2.4	3.8	3.5	3.4	23
Direction (Mean Speed, knots)														
North	4.1	4.8	3.5	4.2	4.5	4.6	4.9	5.1	5.8	7.4	5.4	4.6	5.1	23
North Northeast	6.6	4.6	5.6	5.4	5.6	5.2	5.6	6.0	7.4	8.7	6.7	5.2	6.1	23
Northeast	6.9	7.1	7.4	7.4	7.4	6.5	7.1	7.8	9.2	11.2	8.5	7.8	7.8	23
East Northeast	12.4	11.6	13.1	11.4	10.7	10.5	10.2	11.8	12.6	16.1	14.4	12.4	12.1	23
East	14.8	13.1	13.3	12.7	13.7	12.4	11.6	13.0	13.5	17.9	17.2	15.0	14.0	23
East Southeast	12.0	13.0	9.8	10.1	11.8	12.7	11.3	10.5	12.0	12.1	14.3	12.3	11.9	23
Southeast	8.2	8.5	7.4	6.7	7.8	8.5	8.1	8.5	9.0	8.0	9.1	9.0	8.3	23
South Southeast	9.4	6.4	6.3	6.9	5.1	6.2	6.9	6.7	6.5	7.0	6.4	6.7	6.7	23
South	6.9	5.8	5.6	5.8	5.6	5.2	6.3	6.1	6.8	6.8	6.1	6.4	6.3	23
South Southwest	6.9	7.0	6.0	6.0	5.9	5.7	6.9	7.2	7.4	7.3	7.1	6.8	6.9	23
Southwest	7.8	7.6	7.4	7.5	7.6	6.6	7.9	8.2	8.1	8.2	8.1	9.0	7.9	23
West Southwest	14.2	11.1	9.9	9.1	9.2	10.4	10.5	10.1	11.7	12.5	12.2	11.3	11.2	23
West	17.3	16.7	15.0	13.1	12.4	10.9	11.0	11.3	14.5	17.4	14.4	16.3	14.6	23
West Northwest	18.2	17.7	15.6	12.1	11.1	9.4	9.7	10.8	12.0	16.4	14.0	16.7	13.4	23
Northwest	10.9	12.9	10.6	7.4	7.1	6.8	7.7	8.5	8.3	12.4	10.9	11.2	8.8	23
North Northwest	6.6	5.6	5.1	5.3	6.3	5.3	5.9	6.0	6.8	9.4	6.2	8.1	6.2	23
VISIBILITY														
Mean Number of Days with Fog	8	7	8	10	19	18	19	21	16	12	9	7	154	44
% Observations with Visibility <= ½ mile	8.44	9.38	5.33	3.95	3.60	6.85	10.13	12.37	10.40	3.52	4.62	4.91	6.97	23

* Sea level pressure is station pressure reduced to sea level.

These tables were prepared by the National Climatic Data Center (NCDC), National Environmental Satellite, Data & Information Service (NESDIS), NOAA

METEOROLOGICAL TABLE FOR COASTAL AREA OFF CORDOVA, AK

Boundaries: Between 57°N TO 61°N FROM 140°W TO 146°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	13.2	11.2	6.3	5.7	2.3	1.1	0.6	1.5	5.2	9.0	13.3	12.1	6.6
Wave Height > 9 ft (1)	18.8	16.9	11.6	9.5	4.7	2.5	1.5	3.6	8.2	13.2	16.4	18.3	10.1
Visibility < 2 nm (1)	6.4	8.8	4.8	4.7	4.7	3.7	5.1	5.5	4.9	3.9	4.2	5.4	5.1
Precipitation (1)	22.6	22.2	19.0	18.4	16.6	12.9	14.3	15.7	20.6	20.8	22.0	25.6	19.0
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.1	0.0	0.0	0.0	0.1
Mean Temperature (F)	38.8	38.3	39.4	41.7	46.1	51.2	55.3	57.1	54.1	47.8	42.3	39.7	46.4
Temperature < 33 F (1)	12.1	11.9	6.1	0.9	0.1	0.1	0.0	0.0	0.0	0.5	3.6	8.8	3.4
Mean RH (%)	84	84	81	81	83	83	85	85	83	80	80	83	83
Overcast or Obscured (1)	55.2	56.8	46.9	48.1	55.5	56.1	62.7	57.4	50.0	45.1	46.3	54.7	53.0
Mean Cloud Cover (8ths)	6.5	6.5	6.1	6.2	6.6	6.7	7.0	6.6	6.3	6.3	6.3	6.6	6.5
Mean SLP (mbs)	1003	1004	1007	1009	1012	1014	1016	1014	1010	1003	1002	1002	1008
Ext. Max. SLP (mbs)	1049	1054	1040	1050	1040	1041	1047	1038	1038	1036	1046	1047	1054
Ext. Min. SLP (mbs)	959	941	962	968	972	975	985	972	961	950	955	939	939
Prevailing Wind Direction	SE	SE	SE	SE	SE	SE	W	W	SE	SE	SE	SE	SE
Thunder and Lightning (1)	0.3	0.4	0.3	0.3	0.2	0.1	0.2	0.3	0.2	0.2	0.6	0.3	0.3

METEOROLOGICAL TABLE FOR COASTAL AREA OFF SEWARD, AK

Boundaries: Between 57°N TO 61°N FROM 146°W TO 151°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	12.6	11.2	8.0	5.3	2.5	1.0	0.4	1.3	3.9	7.9	10.6	14.4	5.9
Wave Height > 9 ft (1)	17.2	15.9	12.6	8.9	5.3	3.0	2.0	3.8	7.7	13.5	15.2	18.5	9.6
Visibility < 2 nm (1)	6.5	7.8	4.8	5.0	5.0	6.5	7.3	8.1	5.2	4.0	4.3	5.4	5.8
Precipitation (1)	24.4	21.9	19.8	19.2	19.4	14.3	15.5	15.4	21.6	22.9	20.0	22.9	19.4
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.3	0.1	0.0	0.0	0.0	0.1
Mean Temperature (F)	37.4	36.1	37.6	40.2	44.8	49.9	54.6	56.0	52.0	45.4	40.4	37.4	45.2
Temperature < 33 F (1)	15.5	20.9	13.3	3.8	0.3	0.0	0.0	0.0	0.1	1.6	6.3	16.7	5.5
Mean RH (%)	84	83	81	82	83	85	86	86	84	81	80	82	83
Overcast or Obscured (1)	54.2	51.9	45.7	48.1	53.7	57.3	58.5	53.9	50.2	45.9	43.2	47.7	51.2
Mean Cloud Cover (8ths)	6.3	6.3	6.0	6.1	6.3	6.6	6.7	6.2	6.1	6.0	6.0	6.1	6.2
Mean SLP (mbs)	1004	1004	1005	1008	1011	1013	1015	1013	1008	1001	1000	1001	1007
Ext. Max. SLP (mbs)	1055	1056	1037	1050	1054	1053	1041	1049	1041	1043	1050	1047	1056
Ext. Min. SLP (mbs)	958	939	954	951	976	979	991	966	963	951	951	948	939
Prevailing Wind Direction	E	E	E	E	E	E	E	W	SE	W	NW	E	E
Thunder and Lightning (1)	0.3	0.1	0.4	0.5	0.2	0.1	0.2	0.1	0.3	0.3	0.4	0.2	0.2

METEOROLOGICAL TABLE FOR COASTAL AREA OFF KODIAK, AK

Boundaries: Between 56°N TO 61°N FROM 151°W TO 157°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	8.3	9.2	6.3	4.0	2.1	0.8	0.4	1.2	3.4	7.1	11.0	10.0	4.4
Wave Height > 9 ft (1)	14.5	14.9	6.7	5.6	2.9	1.5	0.8	2.4	4.6	12.6	15.7	16.5	6.5
Visibility < 2 nm (1)	7.9	7.3	5.3	5.3	5.2	6.6	8.2	9.6	6.4	3.9	4.3	6.8	6.5
Precipitation (1)	23.3	19.0	17.4	16.0	18.4	18.0	14.4	16.4	19.1	19.2	20.9	18.2	18.0
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.0	0.0	0.1
Mean Temperature (F)	35.9	33.2	36.4	38.4	43.5	48.3	53.4	54.5	51.6	44.5	38.6	35.0	44.2
Temperature < 33 F (1)	22.8	34.4	19.7	10.7	0.4	0.0	0.2	0.0	0.1	3.2	15.2	27.8	8.7
Mean RH (%)	84	82	84	85	85	86	86	87	85	82	82	84	85
Overcast or Obscured (1)	53.2	48.3	44.5	42.5	48.3	54.5	51.6	52.1	48.0	42.7	45.6	44.7	48.4
Mean Cloud Cover (8ths)	6.2	5.9	5.9	5.8	6.1	6.4	6.3	6.2	6.1	5.8	5.8	5.9	6.1
Mean SLP (mbs)	1003	1004	1005	1007	1010	1012	1015	1013	1009	999	1001	1003	1008
Ext. Max. SLP (mbs)	1048	1055	1050	1039	1037	1053	1040	1056	1040	1052	1051	1050	1056
Ext. Min. SLP (mbs)	952	956	950	961	959	969	975	972	959	953	954	951	950
Prevailing Wind Direction	E	NW	NE	NW	E	SW	SW	SW	SW	W	NW	W	SW
Thunder and Lightning (1)	0.4	0.4	0.2	0.1	0.3	0.1	0.1	0.2	0.1	0.1	0.3	0.1	0.2

(1) Percentage Frequency

These data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible thus biasing the data toward good weather samples.

METEOROLOGICAL TABLE FOR COASTAL AREA OFF UNIMAK, AK

Boundaries: Between 53°N TO 56°N FROM 157°W TO 165°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	11.7	11.2	8.9	5.9	2.8	1.4	0.9	1.7	4.9	10.5	12.9	14.7	7.1
Wave Height > 9 ft (1)	22.4	22.4	19.0	17.0	10.2	6.0	6.0	8.1	14.2	20.7	25.1	28.2	16.5
Visibility < 2 nm (1)	11.3	13.0	12.6	12.1	11.5	13.1	18.6	20.8	10.9	5.8	7.5	11.9	12.4
Precipitation (1)	19.8	20.9	18.8	18.4	16.4	15.1	12.4	15.0	15.2	15.6	18.8	21.1	17.2
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	36.6	35.4	36.1	37.4	41.9	46.9	51.1	53.1	51.0	45.4	40.7	38.2	42.7
Temperature < 33 F (1)	16.9	23.0	18.7	14.8	2.3	0.1	0.1	0.0	0.0	0.7	4.5	12.5	7.8
Mean RH (%)	85	85	85	85	85	87	88	89	85	82	82	84	85
Overcast or Obscured (1)	51.1	51.5	50.6	50.6	55.6	62.2	67.8	67.4	50.8	39.8	44.8	50.7	53.7
Mean Cloud Cover (8ths)	6.4	6.5	6.4	6.5	6.7	6.9	7.1	7.1	6.5	6.2	6.3	6.5	6.6
Mean SLP (mbs)	1000	1002	1004	1007	1008	1011	1015	1013	1008	1004	1001	999	1006
Ext. Max. SLP (mbs)	1050	1060	1059	1060	1049	1055	1060	1054	1058	1053	1060	1046	1060
Ext. Min. SLP (mbs)	944	951	938	951	950	964	975	963	949	937	942	944	937
Prevailing Wind Direction	W	NW	NW	W	W	W	W	W	W	NW	W	W	W
Thunder and Lightning (1)	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.4	0.2

METEOROLOGICAL TABLE FOR COASTAL AREA OFF DUTCH HARBOR, AK

Boundaries: Between 51°N TO 55°N FROM 165°W TO 172°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	11.7	9.9	9.3	7.2	4.1	1.5	1.3	1.6	5.2	8.8	12.7	13.0	6.9
Wave Height > 9 ft (1)	21.8	18.3	17.5	17.0	10.7	5.4	4.4	6.9	11.9	17.9	23.0	23.8	14.6
Visibility < 2 nm (1)	10.4	10.8	11.1	10.9	10.0	15.4	28.6	28.5	12.1	6.3	7.9	9.7	13.8
Precipitation (1)	22.9	23.2	20.7	20.8	16.1	14.8	14.8	15.2	14.7	17.1	19.9	21.8	18.3
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	35.7	35.0	35.8	37.4	41.2	45.4	48.9	50.7	49.3	44.3	40.0	37.8	42.0
Temperature < 33 F (1)	21.4	25.3	21.1	12.5	1.1	0.1	0.0	0.0	0.0	0.4	4.2	11.7	8.0
Mean RH (%)	85	84	84	84	84	87	89	90	86	83	82	83	85
Overcast or Obscured (1)	50.3	51.7	51.3	55.3	61.2	73.4	81.3	77.1	57.1	46.0	45.0	48.5	58.9
Mean Cloud Cover (8ths)	6.6	6.6	6.6	6.8	7.1	7.5	7.8	7.6	6.9	6.5	6.4	6.5	6.9
Mean SLP (mbs)	999	1001	1004	1009	1009	1011	1015	1013	1008	1006	1002	999	1007
Ext. Max. SLP (mbs)	1060	1060	1054	1048	1055	1046	1050	1041	1043	1060	1055	1060	1060
Ext. Min. SLP (mbs)	946	935	937	958	950	963	968	970	945	942	936	942	935
Prevailing Wind Direction	NE	N	W	W	W	W	W	W	W	W	W	W	W
Thunder and Lightning (1)	0.2	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.2

METEOROLOGICAL TABLE FOR COASTAL AREA OFF ADAK, AK

Boundaries: Between 51°N TO 55°N FROM 172°W TO 180°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	14.1	12.7	12.8	9.4	4.3	1.3	1.2	1.6	4.9	8.4	14.3	15.8	7.7
Wave Height > 9 ft (1)	28.0	25.0	25.3	21.7	12.7	6.5	5.2	8.0	14.4	19.7	27.8	29.3	17.9
Visibility < 2 nm (1)	12.1	12.2	13.7	11.3	12.7	19.8	34.2	31.1	13.8	7.1	8.9	11.4	16.5
Precipitation (1)	24.0	23.3	23.8	21.4	16.8	14.5	13.8	14.8	15.7	16.5	19.9	24.7	18.7
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	35.3	35.1	35.7	37.5	40.7	44.3	48.1	50.2	48.8	44.5	39.9	37.2	41.9
Temperature < 33 F (1)	23.1	25.1	20.7	8.4	0.7	0.1	0.1	0.0	0.1	0.2	3.3	11.9	7.1
Mean RH (%)	84	85	84	84	85	88	90	90	86	83	82	83	86
Overcast or Obscured (1)	50.5	55.1	56.1	57.8	67.6	79.7	86.4	79.9	59.1	47.0	49.0	50.0	62.9
Mean Cloud Cover (8ths)	6.6	6.8	6.9	7.0	7.3	7.7	7.9	7.7	7.0	6.5	6.5	6.6	7.1
Mean SLP (mbs)	997	1000	1003	1008	1009	1011	1014	1012	1009	1007	1002	998	1006
Ext. Max. SLP (mbs)	1039	1055	1045	1053	1053	1044	1060	1054	1042	1049	1055	1054	1060
Ext. Min. SLP (mbs)	931	950	951	957	963	962	969	971	960	940	952	940	931
Prevailing Wind Direction	NE	NE	N	NW	W	W	W	SW	W	W	W	W	W
Thunder and Lightning (1)	0.4	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.2

(1) Percentage Frequency

These data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible thus biasing the data toward good weather samples.

METEOROLOGICAL TABLE FOR COASTAL AREA OFF ATTU, AK

Boundaries: Between 51°N TO 55°N FROM 172°W TO 180°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	14.8	13.6	12.0	8.5	4.1	1.2	1.0	1.7	4.0	8.5	17.4	14.8	7.7
Wave Height > 9 ft (1)	29.1	30.6	26.8	21.9	12.3	6.3	5.3	6.9	12.4	20.0	30.1	29.9	18.3
Visibility < 2 nm (1)	13.0	13.8	15.1	12.6	12.7	23.6	40.7	35.3	14.3	7.2	10.0	12.2	18.5
Precipitation (1)	25.3	25.7	25.3	21.0	15.3	15.3	14.4	15.8	15.3	17.1	22.2	25.8	19.3
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	34.2	33.9	34.7	36.8	39.9	43.1	47.3	49.8	48.8	44.5	39.0	35.9	40.9
Temperature < 33 F (1)	31.8	34.5	27.4	11.9	0.9	0.1	0.1	0.1	0.1	0.3	5.5	17.8	10.1
Mean RH (%)	84	84	84	83	85	89	91	91	87	82	82	83	86
Overcast or Obscured (1)	50.4	53.6	55.4	57.7	69.7	84.3	87.3	80.4	58.4	48.4	49.2	52.3	64.6
Mean Cloud Cover (8ths)	6.7	6.8	6.9	6.9	7.3	7.8	8.0	7.7	6.8	6.5	6.6	6.7	7.1
Mean SLP (mbs)	996	999	1003	1008	1011	1011	1013	1011	1010	1009	1002	998	1006
Ext. Max. SLP (mbs)	1050	1047	1048	1047	1051	1060	1060	1052	1041	1052	1056	1059	1060
Ext. Min. SLP (mbs)	939	939	945	933	960	971	970	975	951	956	939	937	933
Prevailing Wind Direction	E	NE	NE	W	NW	W	SW	SW	W	W	W	W	W
Thunder and Lightning (1)	0.4	0.4	0.5	0.4	0.2	0.0	0.1	0.0	0.2	0.2	0.4	0.4	0.2

METEOROLOGICAL TABLE FOR COASTAL AREA OFF BRISTOL BAY, AK

Boundaries: Between 55°N TO 59°N FROM 157°W TO 165°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	5.5	8.1	4.0	3.6	1.5	0.5	0.4	1.2	3.1	7.5	10.7	8.7	2.8
Wave Height > 9 ft (1)	11.2	13.5	7.9	10.8	3.6	2.5	2.6	3.1	7.2	10.1	19.0	17.6	7.0
Visibility < 2 nm (1)	10.0	8.6	11.7	14.0	13.7	18.0	19.3	17.0	10.0	5.0	6.2	7.5	14.0
Precipitation (1)	23.0	25.2	20.0	20.3	16.2	12.6	15.3	19.0	15.7	16.6	21.8	19.2	17.3
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	33.1	30.9	32.1	34.0	39.0	44.6	49.3	50.9	49.0	43.3	38.4	36.2	41.7
Temperature < 33 F (1)	33.9	44.2	40.4	33.7	8.7	0.8	0.1	0.0	0.0	1.8	10.3	19.3	12.2
Mean RH (%)	89	85	89	91	88	90	91	91	88	84	84	85	89
Overcast or Obscured (1)	49.4	49.7	49.5	53.4	53.9	57.0	67.2	71.0	49.3	45.6	47.9	49.0	56.4
Mean Cloud Cover (8ths)	6.2	6.3	6.2	6.5	6.5	6.7	7.1	7.2	6.4	6.2	6.3	6.3	6.6
Mean SLP (mbs)	1006	1008	1009	1010	1009	1011	1015	1012	1007	1003	1004	1001	1010
Ext. Max. SLP (mbs)	1043	1057	1056	1060	1043	1060	1040	1040	1040	1046	1042	1045	1060
Ext. Min. SLP (mbs)	946	951	941	955	950	963	975	960	956	938	960	955	938
Prevailing Wind Direction	N	N	N	NW	E	W	W	SW	NW	NW	NW	E	W
Thunder and Lightning (1)	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.0	0.1	0.4	0.2	0.5	0.1

METEOROLOGICAL TABLE FOR COASTAL AREA OFF ST PAUL, AK

Boundaries: Between 55°N TO 59°N FROM 165°W TO 172°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	9.6	7.5	4.9	4.0	1.6	0.7	0.4	1.1	3.6	6.4	10.2	9.5	4.4
Wave Height > 9 ft (1)	21.6	15.5	13.8	9.2	4.8	1.6	1.3	4.7	7.6	13.1	20.2	23.4	11.0
Visibility < 2 nm (1)	16.8	18.0	15.6	13.8	19.5	22.4	29.2	25.0	13.4	7.8	9.4	14.5	17.5
Precipitation (1)	32.2	34.1	27.1	28.4	19.4	15.0	19.1	20.5	19.8	20.6	24.8	32.1	23.6
Temperature > 69 F (1)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	31.8	27.2	29.1	31.3	36.8	42.6	46.9	48.9	46.9	41.4	37.0	33.4	38.8
Temperature < 33 F (1)	39.0	60.9	55.6	48.2	14.8	0.6	0.0	0.0	0.0	3.2	15.7	37.9	21.0
Mean RH (%)	86	86	88	88	89	92	93	93	88	85	84	86	89
Overcast or Obscured (1)	55.4	57.2	59.5	59.1	68.6	75.7	81.7	78.1	60.1	51.1	52.5	60.9	64.2
Mean Cloud Cover (8ths)	6.7	6.8	6.7	6.8	7.2	7.4	7.7	7.6	7.0	6.8	6.7	7.0	7.1
Mean SLP (mbs)	1007	1003	1007	1008	1009	1012	1013	1010	1006	1004	1002	1003	1007
Ext. Max. SLP (mbs)	1049	1057	1048	1052	1039	1041	1042	1040	1050	1041	1054	1056	1057
Ext. Min. SLP (mbs)	958	953	944	965	959	961	981	972	961	936	951	935	935
Prevailing Wind Direction	NE	N	N	NW	N	NW	W	SW	NW	NW	NW	N	NW
Thunder and Lightning (1)	0.0	0.2	0.1	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.1	0.1

(1) Percentage Frequency

These data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible thus biasing the data toward good weather samples.

METEOROLOGICAL TABLE FOR COASTAL AREA OFF NUNIVAK, AK

Boundaries: Between 59°N TO 62°N FROM 165°W TO 171°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	3.4	4.9	3.1	1.6	4.6	2.6	0.8	0.9	3.9	9.0	13.1	4.7	3.1
Wave Height > 9 ft (1)	19.9	10.6	1.4	2.7	5.1	4.2	1.1	2.9	6.2	11.4	18.3	11.8	5.9
Visibility < 2 nm (1)	24.7	22.5	20.5	10.9	18.5	20.5	25.9	22.4	10.2	5.1	13.3	20.1	19.4
Precipitation (1)	28.3	26.6	27.8	29.5	15.2	14.3	14.7	16.0	19.1	24.6	38.4	19.8	19.1
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	26.6	22.1	24.8	27.2	36.6	40.4	46.2	48.0	46.3	40.1	32.1	23.4	40.0
Temperature < 33 F (1)	78.2	90.2	75.9	71.9	22.3	4.1	0.1	0.0	0.1	9.9	44.8	86.9	20.1
Mean RH (%)	92	76	90	86	88	91	92	92	88	86	82	85	90
Overcast or Obscured (1)	65.4	58.5	66.7	55.7	70.4	69.2	74.4	76.5	62.5	60.2	63.0	60.8	68.0
Mean Cloud Cover (8ths)	6.8	5.9	6.5	6.4	6.8	7.1	7.5	7.4	7.2	7.1	7.1	6.9	7.1
Mean SLP (mbs)	1011	1008	1009	1010	1009	1012	1013	1011	1009	1004	1001	1008	1010
Ext. Max. SLP (mbs)	1043	1043	1035	1032	1031	1043	1035	1029	1037	1030	1030	1042	1043
Ext. Min. SLP (mbs)	966	967	971	984	976	981	986	981	978	959	970	973	959
Prevailing Wind Direction	SE	NE	SE	N	E	N	S	SW	N	N	N	N	N
Thunder and Lightning (1)	0.0	0.3	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.4	0.0	0.0	0.1

METEOROLOGICAL TABLE FOR COASTAL AREA OFF ST. MATTHEW, AK

Boundaries: Between 59°N TO 62°N FROM 171°W TO 178°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	8.3	10.1	8.2	3.8	2.9	0.5	0.3	1.0	4.8	3.6	7.2	9.1	5.2
Wave Height > 9 ft (1)	26.5	23.8	10.0	13.4	4.0	0.7	1.0	1.0	5.9	11.2	20.5	24.8	13.6
Visibility < 2 nm (1)	22.8	28.6	24.9	22.5	22.6	30.3	30.7	27.4	14.6	6.8	14.0	24.0	23.4
Precipitation (1)	31.3	36.5	27.4	31.6	19.5	12.9	14.7	26.0	26.5	29.3	32.5	37.7	28.1
Temperature > 69 F (1)	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	27.0	19.2	19.7	24.8	33.8	39.8	46.6	48.4	45.8	38.5	30.0	23.5	33.7
Temperature < 33 F (1)	64.2	87.0	94.3	73.1	37.9	1.6	0.0	0.2	0.2	8.5	61.1	81.5	41.6
Mean RH (%)	88	85	82	80	90	91	92	92	88	86	84	91	89
Overcast or Obscured (1)	65.8	62.3	54.8	58.1	79.5	80.2	83.4	79.5	64.7	70.8	70.9	68.2	70.5
Mean Cloud Cover (8ths)	6.9	6.8	6.3	6.6	7.6	7.6	7.7	7.6	7.2	7.4	7.3	7.3	7.2
Mean SLP (mbs)	1001	1002	1009	1010	1009	1012	1013	1008	1007	1006	1003	1004	1006
Ext. Max. SLP (mbs)	1045	1050	1042	1041	1035	1032	1041	1045	1041	1040	1040	1041	1050
Ext. Min. SLP (mbs)	961	964	964	981	978	983	971	975	968	965	963	955	955
Prevailing Wind Direction	NE	NE	NE	NE	NE	E	SW	SW	NE	N	NE	NE	NE
Thunder and Lightning (1)	0.1	0.1	0.2	0.0	0.0	0.1	0.1	0.0	0.1	0.3	0.2	0.2	0.1

METEOROLOGICAL TABLE FOR COASTAL AREA OFF ST. LAWRENCE, AK

Boundaries: Between 62°N TO 66°N FROM 160°W TO 172°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	5.1	2.3	2.7	3.4	0.6	0.3	0.6	0.5	2.6	6.1	14.4	5.3	1.6
Wave Height > 9 ft (1)	25.0	0.0	1.0	0.7	0.0	0.3	0.9	2.3	3.6	3.3	10.3	25.0	2.1
Visibility < 2 nm (1)	22.4	17.5	11.6	12.8	16.5	18.9	20.1	13.7	7.6	6.8	7.9	10.0	14.5
Precipitation (1)	20.8	33.3	18.5	21.1	25.1	7.9	10.4	13.6	17.9	22.6	38.7	15.0	15.0
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	23.8	11.8	14.5	17.2	32.5	41.8	47.6	48.4	43.6	33.2	25.9	23.9	42.5
Temperature < 33 F (1)	95.7	97.0	95.3	94.1	46.5	2.4	0.1	0.0	1.2	40.4	68.9	81.8	12.7
Mean RH (%)	98	90	78	82	90	87	89	88	86	85	88	91	87
Overcast or Obscured (1)	69.4	62.6	37.4	31.1	68.7	52.6	60.6	55.6	53.4	49.8	65.7	52.4	55.5
Mean Cloud Cover (8ths)	6.7	6.7	4.6	4.2	6.8	6.2	6.7	6.7	6.6	6.3	6.9	6.3	6.5
Mean SLP (mbs)	1015	1002	1013	1013	1007	1012	1012	1010	1009	1005	1003	1000	1010
Ext. Max. SLP (mbs)	1042	1039	1043	1034	1025	1030	1032	1033	1042	1036	1032	1030	1043
Ext. Min. SLP (mbs)	979	981	976	983	989	980	991	976	973	971	960	980	960
Prevailing Wind Direction	SE	N	N	N	N	S	S	N	N	N	N	N	N
Thunder and Lightning (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.9	0.0	0.1

(1) Percentage Frequency

These data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible thus biasing the data toward good weather samples.

METEOROLOGICAL TABLE FOR COASTAL AREA OFF CAPE LISBURNE, AK

Boundaries: Between 66°N TO 70°N FROM 170°W TO 180°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	0.0	0.0	0.0	0.0	0.0	0.7	0.4	0.7	1.7	5.8	3.4	27.3	1.4
Wave Height > 9 ft (1)	25.0	0.0	50.0	0.0	0.0	0.0	1.2	3.0	8.4	11.4	28.6	44.4	4.5
Visibility < 2 nm (1)	33.3	33.3	25.0	33.3	18.2	25.6	24.1	22.5	9.8	16.7	16.7	0.0	19.9
Precipitation (1)	0.0	50.0	33.3	50.0	37.5	7.3	7.5	9.5	15.9	35.1	50.0	22.2	12.8
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	33.3	14.4	27.5	32.7	36.9	39.7	42.2	41.2	35.0	26.4	14.1	9.0	38.2
Temperature < 33 F (1)	50.0	66.7	50.0	66.7	23.1	9.0	2.9	4.5	29.9	80.1	92.9	91.7	18.3
Mean RH (%)	90			88	97	72	93	89	89	86	91		89
Overcast or Obscured (1)	100.0	0.0	75.0	66.7	83.3	41.3	43.5	59.9	60.5	63.6	66.7	45.5	54.1
Mean Cloud Cover (8ths)	8.5	5.8	7.3	7.7	7.4	5.7	6.0	6.8	6.7	7.0	6.7	5.9	6.5
Mean SLP (mbs)	991	1017	1010	1003	1011	1013	1011	1012	1012	1010	1013	1006	1011
Ext. Max. SLP (mbs)	1004	1038	1027	1009	1023	1029	1046	1035	1040	1044	1030	1021	1046
Ext. Min. SLP (mbs)	979	1002	996	997	992	987	987	985	975	975	979	984	975
Prevailing Wind Direction	SE	N	W	W	N	SE	SE	N	NW	N	NE	N	NW
Thunder and Lightning (1)	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.1

METEOROLOGICAL TABLE FOR COASTAL AREA OFF BARROW, AK

Boundaries: Between 70°N TO 74°N FROM 145°W TO 170°W

WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
Wind > 33 Knots (1)	0.8	0.0	0.0	2.9	0.4	0.5	0.5	0.5	1.2	1.8	3.5	1.7	1.0
Wave Height > 9 ft (1)	0.0	0.0	0.8	2.6	0.0	0.0	0.6	0.3	1.9	0.8	7.1	0.0	1.0
Visibility < 2 nm (1)	16.7	12.6	7.6	12.2	9.4	18.5	29.1	21.7	19.5	17.1	9.7	10.0	21.4
Precipitation (1)	30.3	17.3	18.4	25.9	28.9	21.2	11.6	13.8	26.2	32.5	18.3	23.8	18.8
Temperature > 69 F (1)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean Temperature (F)	-16.4	-14.6	-15.7	2.6	22.0	31.2	37.6	37.0	30.7	12.4	-8.5	-13.0	27.0
Temperature < 33 F (1)	100	99.5	100	98.6	92.3	69.1	9.7	20.5	58.1	93.5	99.3	100	45
Mean RH (%)	99	89	91	95	97	97	91	91	91	90	94	100	92
Overcast or Obscured (1)	27.0	26.4	20.5	33.9	65.2	47.8	47.4	61.7	68.0	50.2	30.1	35.9	54.7
Mean Cloud Cover (8ths)	4.4	4.2	3.8	4.9	6.8	6.3	6.0	6.8	7.1	5.8	3.7	4.4	6.3
Mean SLP (mbs)	1022	1023	1018	1016	1021	1016	1014	1012	1012	1014	1017	1019	1014
Ext. Max. SLP (mbs)	1045	1046	1039	1042	1041	1038	1035	1033	1039	1042	1050	1048	1050
Ext. Min. SLP (mbs)	992	996	998	989	990	994	981	976	983	986	983	981	976
Prevailing Wind Direction	W	N	NE	E	E	N	E	E	E	NE	E	E	E
Thunder and Lightning (1)	1.5	0.9	0.0	0.0	0.7	0.0	0.0	0.0	0.1	0.1	0.0	0.9	0.1

(1) Percentage Frequency

These data are based upon observations made by ships in passage. Such ships tend to avoid bad weather when possible thus biasing the data toward good weather samples.

MEAN SURFACE WATER TEMPERATURES (T) AND DENSITIES (D)

Stations	Years	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Mean	
		(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)	(T) ºC	(D)
Ketchikan 55°20'N., 131°38'W.	44	5.2	21.0	5.1	21.6	5.4	21.8	6.4	21.7	8.9	20.6	12.2	19.1	13.8	18.5	14.0	18.3	12.0	18.7	9.5	18.5	7.2	18.5	5.8	19.9	8.8	19.8
Sitka 57°03'N., 135°20'W.	24	4.5	22.1	4.2	22.4	4.4	22.2	5.9	21.8	8.8	20.0	11.3	18.8	13.4	18.5	13.9	19.0	12.1	19.1	9.3	19.9	7.1	21.0	5.6	21.6	8.4	20.5
Juneau 58°18'N., 134°25'W.	29	2.2	21.2	2.1	21.8	2.8	21.9	4.5	20.9	7.6	15.2	10.3	10.7	11.0	9.3	10.6	10.0	9.1	11.7	6.6	14.4	4.6	18.0	3.2	20.4	6.2	16.3
Skagway 59°27'N., 135°19'W.	22	2.5	23.2	2.2	23.3	2.3	23.2	3.4	23.0	6.7	17.9	9.9	8.0	10.6	3.5	10.2	3.4	8.8	9.1	6.5	16.2	4.4	20.3	3.3	22.4	5.9	16.1
Yakutat 59°33'N., 139°44'W.	26	3.8	22.3	3.5	22.4	3.8	22.4	5.3	22.0	7.7	21.2	10.8	19.7	12.8	17.6	12.9	17.7	11.4	19.1	9.0	20.6	6.7	21.5	4.9	22.1	7.7	20.7
Cordova 60°33'N., 145°46'W.	14	2.9	23.3	2.7	23.3	2.6	23.4	4.0	23.3	6.0	22.8	8.3	21.7	10.2	20.5	11.2	19.4	10.0	19.8	7.8	21.0	6.2	22.5	4.7	22.8	6.4	22.0
Seward 60°06'N., 149°27'W.	35	3.4	22.2	3.1	22.1	3.2	22.1	4.5	21.3	7.3	16.5	10.5	9.8	12.2	6.5	12.2	9.2	10.7	13.3	8.1	17.5	5.9	19.9	4.5	21.5	7.1	16.8
Womens Bay 57°43'N., 152°31'W.	17	0.7	21.1	0.9	21.6	1.5	22.5	3.6	22.4	6.4	19.0	8.7	16.1	11.3	17.0	11.7	20.2	10.0	19.8	6.9	20.9	4.0	20.7	1.8	21.6	5.6	20.2
Anchorage 61°15'N., 149°53'W.	9	-0.9	14.3	-0.9	16.2	-0.4	16.6	0.9	16.3	6.1	15.4	11.4	11.4	14.2	6.2	13.6	4.9	11.2	5.9	5.9	7.8	0.8	9.9	-0.6	12.3	5.1	11.4
Massacre Bay 52°48'N., 173°10'W.	15	2.3	24.3	2.1	24.4	2.2	24.6	3.2	24.3	4.6	23.5	6.5	23.0	8.3	22.8	9.5	23.2	8.8	23.8	6.8	23.9	4.4	23.6	2.7	24.3	5.1	23.9
Unalaska 53°53'N., 166°32'W.	12	2.5	21.5	2.0	21.7	2.4	22.2	3.6	21.5	5.2	20.2	7.3	19.9	8.9	21.1	9.5	22.0	8.3	21.1	6.1	20.8	4.5	21.5	3.1	21.6	5.3	21.2
Sweeper Cove 51°51'N., 176°39'W.	23	2.8	23.2	2.6	22.9	3.1	22.5	3.5	22.1	4.6	22.4	6.2	23.2	7.2	23.5	7.6	23.7	7.4	23.4	5.9	23.4	4.6	23.4	3.4	23.4	4.9	23.1

F (Farenheit) = 1.8C (Celsius) + 32

Density as used in this table is the specific gravity of the sea water or the ratio between the weight of a sea-water sample and the weight of an equal volume of distilled water at 15ºC (59ºF). These figures representing density at 15º (D_{15}) are expressed in terms of sigma-t (F_t) where t = 15º C and $F_{15} = (D_{15} - 1)\,1000$. Thus, for $D_{15} = 1.02238$, $F_{15} = 23.8$.

PACIFIC OCEAN DISTANCES

(Nautical Miles)

	Midway Island	Port Allen, HI.	Nawiliwili, HI	Pearl Harbor, HI	Honolulu, HI	Kahalui, HI	Kawaihae, HI	Hilo, HI	Kuluk Bay, AK	UNIMAK PASS, AK	Kodiak, AK	Anchorage, AK	Seward, AK	Port Valdez, AK	CAPE SPENCER, AK	Sitka, AK	Ketchikan, AK	Seattle, WA	SWIFTSURE BANK, WA	CAPE FLATTERY, WA	Portland, OR	Astoria, OR	San Francisco, CA	Los Angeles, CA	Long Beach, CA	San Diego, CA
PANAMA CANAL 8°53.0'N. 79°31.0'W.	5707	4777	4767	4690	4685	4609	4594	4527	5604	5228	4924	5117	4940	4984	4603	4538	4387	4044	-	3920	3888	3803	3270	2939	2939	2867
San Diego, CA 32°43.0N., 117°10.5'W.	3097	2347	2330	2283	2278	2212	2219	2175	2806	2412	2115	2303	2124	2174	1787	1723	1575	1228	-	1104	1074	989	455	95	94	-
Long Beach, CA 33°46.2'N., 118°13.3'W.	3034	2302	2284	2241	2236	2173	2183	2143	2725	2331	2034	2223	2043	2092	1707	1643	1497	1148	-	1024	992	908	374	3	-	
Los Angeles, CA 33°45.0'N., 118°16.2'W.	3031	2299	2281	2238	2233	2170	2180	2140	2722	2328	2031	2220	2040	2089	1703	1639	1493	1144	-	1020	989	904	371	-		
San Francisco, CA 37°48.5'N., 122°24.0'W.	2792	2146	2128	2096	2091	2036	2051	2019	2403	1990	1693	1882	1702	1745	1366	1302	1156	807	-	683	652	567	-			
Astoria, OR 46°11.7'N., 123°50.0'W.	2724	2281	2262	2251	2246	2207	2235	2214	2071	1626	1261	1435	1242	1239	883	815	660	278	-	153	85	-				
Portland, OR 45°33.0'N., 122°41.7'W.	2809	2366	2347	2336	2331	2292	2320	2299	2156	1711	1346	1520	1327	1324	968	900	745	362	-	238	-					
CAPE FLATTERY, WA 48°26.0'N., 124°47.0'W.	2694	2308	2289	2290	2285	2245	2276	2260	-	-	-	-	-	-	-	-	-	124	10	-						
SWIFTSURE BANK, WA 48°31.0N., 125°00.0'W.	-	-	-	-	-	-	-	-	1973	1510	1124	1294	1100	1100	739	681	518	134	-							
Seattle, WA 47°36.2'N., 122°20.3'W.	2818	2432	2413	2414	2409	2369	2400	2384	2107	1644	1258	1428	1234	1234	976*	815	659*	-								
Ketchikan, AK 55°20.5'N., 131°38.7'W.	2570	2387	2368	2388	2383	2361	2405	2398	1656	1193	742	892	682	713	307	224	-									
Sitka, AK 57°03.1'N., 135°20.5'W.	2481	2380	2361	2390	2385	2365	2412	2410	1490	1027	564	708	494	479	85	-										
CAPE SPENCER, AK 58°10.0'N., 136°38.3'W.	2472	2407	2388	2416	2411	2398	2445	2447	1450	987	505	641	422	400	-											
Port Valdez, AK 61°06.0'N., 146°24.0'W.	2386	2445	2429	2473	2468	2463	2513	2524	1224	761	280	385	144	-												
Seward, AK 60°06.0'N., 149°26.0'W.	2250	2351	2332	2378	2373	2377	2432	2439	1115	652	175	274	-													
Anchorage, AK 61°14.2'N., 149°53.3'W.	2305	2459	2440	2482	2477	2479	2535	2542	1151	688	242	-														
Kodiak, AK 57°47.1'N., 152°25.1'W.	2088	2203	2184	2235	2230	2233	2289	2296	968	505	-															
UNIMAK PASS, AK 54°20.0'N., 164°45.0'W.	1680	1972	1963	2024	2028	2044	2110	2126	463	-																
Kuluk Bay, AK 51°51.6'N., 176°37.6'W.	1460	1990	1989	2057	2061	2099	2164	2198	-																	
Hilo, HI 19°44.1'N., 155°03.5'W.	1338	297	287	201	196	121	83	-																		
Kawaihae, HI 20°02.3'N., 155°49.9'W.	1278	240	230	145	140	85	-																			
Kahalui, HI 20°54.0'N., 156°28.2'W.	1232	193	181	94	89	-																				
Honolulu, HI 21°18.5N., 157°52.3'W.	1150	106	96	9	-																					
Pearl Harbor, HI 21°20.0'N., 157°58.3'W.	1146	102	92	-																						
Nawiliwili, HI 21°57.4'N., 159°21.5'W.	1069	21	-																							
Port Allen, HI 24°51.1'N., 159°35.6'W.	1042	-																								
Midway Island 28°13.0'N., 177°22.0'W.	-																									

* Via inside passage

GULF OF ALASKA DISTANCES

(Nautical Miles)

	Unimak Pass	False Pass	Unga	Chignik	Uyak	Kodiak	Anchorage	Homer	Seldova	Seward	Latouche	Whittier	Port Valdez	Cordova	Yakutat	Cape Spencer	Sitka	Cape Decision	Dixon Entrance	Swiftsure Bank
Swiftsure Bank 48º31.0'N., 125º00.0'W.	1510	1473	1394	1301	1200	1124	1294	1178	1167	1100	1076	1113	1100	1093	869	739	681	588	500	-
Dixon Entrance 54º28.0'N., 132º52.0'W.	1120	1064	953	874	762	687	845	729	718	642	617	647	634	627	402	259	192	106	-	
Cape Decision 55º59.4'N., 134º08.1'W.	1064	1016	892	811	689	613	763	647	636	553	527	542	529	522	295	162	95	-		
Sitka 57º03.1'N., 135º20.5'W.	1027	980	865	772	628	564	708	591	580	494	467	492	479	472	231	85	-			
Cape Spencer 58º10.0'N., 136º38.3'W.	987	926	811	717	571	505	641	525	514	422	395	413	400	393	141	-				
Yakutat 59º32.9'N., 139º43.9'W.	897	844	730	636	480	414	538	422	411	312	286	298	285	278	-					
Cordova 60º33.4'N., 145º45.3'W.	763	711	597	503	339	282	387	270	260	146	85	96	78	-						
Port Valdez 61º06.0'N., 146º24.0'W	761	709	595	501	337	280	385	267	257	144	83	96	-							
Whittier 60º46.8'N., 148º39.6'W.	742	689	574	481	317	261	367	249	239	125	64	-								
Latouche 60º03.3'N., 147º54.1'W.	678	626	511	418	254	201	300	183	172	61	-									
Seward 60º006.0'N., 149º26.0'W.	652	600	485	392	228	175	274	158	147	-										
Seldova 59º26.5'N., 151º43.0'W.	562	510	395	302	138	115	139	16	-											
Homer 59º36.0'N., 151º24.0'W.	573	521	406	313	149	126	143	-												
Anchorage 61º14.2'N., 149º53.3'W.	688	636	521	428	264	242	-													
Kodiak 57º47.1'N., 152º25.1'W.	505	453	338	245	80	-														
Uyak 57º38.6'N., 154º00.0'W.	440	388	273	180	-															
Chignik 56º17.8'N., 158º24.0'W.	289	236	122	-																
Unga 55º10.6N., 160º29.8'W.	187	135	-																	
False Pass 54º51.4'N., 163º24.0'W.	86	-																		
Unimak Pass 54º20.0'N., 164º45.0'W.	-																			

BERING SEA and ARCTIC OCEAN DISTANCES

ALASKA

(Nautical Miles)

	Alaska-Canada Boundary	Barter Island	Barrow	Wainwright	Point Lay	Point Hope	Deering	Cape Prince of Wales	Port Clarence	Savoonga	Nome	Golovnin Bay	Unalakleet	St. Michael	Apoon Pass	Hooper Bay	Bethel	Platinum	Dillingham	Naknek	Meshik	Port Moller	St. Paul Island	Massacre Bay	Alcan Harbor	Kiska	Constantine Harbor	Kuluk Bay	Dutch Harbor	Unimak Pass
UNIMAK PASS 5420.0'N., 16445.0'W.	1490	1428	1155	1079	998	868	900	702	708	642	646	686	737	711	708	472	421	307	384	377	277	208	254	833	805	672	614	463	75	-
Dutch Harbor 53 52.7'N., 166 31.8'W.	1503	1440	1167	1092	1011	881	913	715	720	654	659	699	750	724	721	485	464	343	432	425	325	256	239	777	749	616	558	407	-	
Kuluk Bay 51 51.6'N., 176 37.6'W.	1678	1616	1343	1268	1187	1057	1089	891	896	830	835	875	926	900	897	678	776	662	785	779	694	627	387	396	368	235	175	-		
Constantine Harbor 51 24.0'N., 179 18.1'W.	1763	1701	1428	1353	1272	1142	1174	976	981	915	920	960	1011	985	982	775	903	789	919	912	832	769	501	249	222	79	-			
Kiska 51 58.3'N., 177 34.5'W.	1762	1700	1427	1352	1271	1141	1173	975	980	914	919	958	1009	984	981	783	931	817	951	945	871	809	526	185	157	-				
Alcan Harbor 52 44.0'N., 174 04.5'W.	1795	1733	1460	1385	1304	1174	1206	1008	1013	945	950	990	1044	1018	1015	830	1007	893	1036	1029	978	920	604	33	-					
Massacre Bay 52 48.9'N., 173 15.6'W.	1819	1756	1483	1408	1327	1197	1229	1031	1036	970	975	1015	1066	1040	1037	854	1034	921	1062	1056	991	934	632	-						
St. Paul Island 57 07.6'N., 170 17.9'W.	1317	1255	982	906	825	695	727	529	535	468	470	504	555	529	528	304	415	302	444	437	381	335	-							
Port Moller 55 59.0'N., 160 36.5'W.	1469	1407	1134	1059	978	848	880	682	687	621	618	652	703	678	676	452	310	196	207	198	88	-								
Meshik 56 56.5'N., 158 49.0'W.	1477	1414	1141	1066	985	855	887	689	695	628	625	660	712	685	684	459	293	179	130	118	-									
Naknek 58 41.5'N., 157 16.0'W.	1507	1442	1169	1094	1012	883	915	717	722	656	653	687	738	712	711	486	315	202	72	-										
Dillingham 59 02.0'N., 158 29.0'W.	1513	1448	1175	1100	1019	889	921	723	728	662	659	693	744	719	718	493	322	208	-											
Platinum 59 01.5'N., 161 52.0'W.	1358	1296	1023	948	866	737	769	571	576	510	507	541	592	566	565	340	120	-												
Bethel 60 49.0'N., 161 47.0'W.	1472	1410	1137	1061	980	850	883	685	690	624	620	655	706	680	679	454	-													
Hooper Bay 61 29.0'N., 166 04.0'W.	1058	995	722	647	566	436	468	270	276	209	200	235	286	260	259	-														
Apoon Pass 63 02.6'N., 163 22.3'W.	1010	947	674	599	518	388	420	222	228	229	116	85	88	53	-															
St. Michael 63 32.4'N., 161 54.8'W.	1007	945	672	596	515	385	417	219	225	230	110	59	35	-																
Unalakleet 63 53.0'N., 160 50.0'W.	1025	963	690	615	534	404	436	238	244	254	126	66	-																	
Golovnin Bay 64 22.3'N., 163 06.7'W.	961	899	626	551	470	340	372	174	179	197	62	-																		
Nome 6429.0'N., 16526.0'W	901	839	566	490	409	279	312	114	119	139	-																			
Savoonga 6343.0'N., 17027.0'W.	912	850	577	502	420	291	323	125	151	-																				
Port Clarence 6517.1'N., 16624.5'W.	846	783	510	435	354	223	255	57	-																					
Cape Prince of Wales 6537.6'N., 16831.5'W.	787	725	452	377	296	166	198	-																						
Deering 6606.0'N., 16244.0'W.	794	732	458	383	302	172	-																							
Point Hope 6821.0'N., 16718.0'W.	621	560	286	211	130	-																								
Point Lay 6821.0'N., 16308.0'W.	496	434	161	86	-																									
Wainwright 7040.0'N., 16000.0'W.	412	350	77	-																										
Barrow 7118.0'N., 15648.0'W.	337	274	-																											
Barter Island 7009.0'N., 14340.0'W.	62	-																												
Alaska-Canada Boundary 6943.0'N., 14100.0'W.	-																													

Distance of Visibility of Objects of Various Elevations at Sea

This table gives the approximate geographic range of visibility for an object which may be seen by an observer. It is necessary to add to the distance for the height of any object the distance corresponding to the height of the observer's eye above sea level.

Height (feet)	Distance - Naut. miles	Distance - Statute miles	Height (meters)	Height (feet)	Distance - Naut. miles	Distance - Statute miles	Height (meter)
1	1.2	1.3	0.3	120	12.8	14.7	36.6
2	1.7	1.9	0.6	125	13.1	15.1	38.1
3	2.0	2.3	0.9	130	13.3	15.4	39.6
4	2.3	2.7	1.2	135	13.6	15.6	41.2
5	2.6	3.0	1.5	140	13.8	15.9	42.7
6	2.9	3.3	1.8	145	14.1	16.2	44.2
7	3.1	3.6	2.1	150	14.3	16.5	45.7
8	3.3	3.8	2.4	160	14.8	17.0	48.8
9	3.5	4.0	2.7	170	15.3	17.6	51.8
10	3.7	4.3	3.1	180	15.7	18.1	54.9
11	3.9	4.5	3.4	190	16.1	18.6	57.9
12	4.1	4.7	3.7	200	16.5	19.0	61.0
13	4.2	4.9	4.0	210	17.0	19.5	64.0
14	4.4	5.0	4.3	220	17.4	20.0	67.1
15	4.5	5.2	4.6	230	17.7	20.4	70.1
16	4.7	5.4	4.9	240	18.1	20.9	73.2
17	4.8	5.6	5.2	250	18.5	21.3	76.2
18	5.0	5.7	5.5	260	18.9	21.7	79.3
19	5.1	5.9	5.8	270	19.2	22.1	82.3
20	5.2	6.0	6.1	280	19.6	22.5	85.3
21	5.4	6.2	6.4	290	19.9	22.9	88.4
22	5.5	6.3	6.7	300	20.3	23.3	91.4
23	5.6	6.5	7.0	310	20.6	23.7	94.5
24	5.7	6.6	7.3	320	20.9	24.1	97.5
25	5.9	6.7	7.6	330	21.3	24.5	100.6
26	6.0	6.9	7.9	340	21.6	24.8	103.6
27	6.1	7.0	8.2	350	21.9	25.2	106.7
28	6.2	7.1	8.5	360	22.2	25.5	109.7
29	6.3	7.3	8.8	370	22.5	25.9	112.8
30	6.4	7.4	9.1	380	22.8	26.2	115.8
31	6.5	7.5	9.5	390	23.1	26.6	118.9
32	6.6	7.6	9.8	400	23.4	26.9	121.9
33	6.7	7.7	10.1	410	23.7	27.3	125.0
34	6.8	7.9	10.4	420	24.0	27.6	128.0
35	6.9	8.0	10.7	430	24.3	27.9	131.1
36	7.0	8.1	11.0	440	24.5	28.2	134.1
37	7.1	8.2	11.3	450	24.8	28.6	137.2
38	7.2	8.3	11.6	460	25.1	28.9	140.2
39	7.3	8.4	11.9	470	25.4	29.2	143.3
40	7.4	8.5	12.2	480	25.6	29.5	146.3
41	7.5	8.6	12.5	490	25.9	29.8	149.4
42	7.6	8.7	12.8	500	26.2	30.1	152.4
43	7.7	8.8	13.1	510	26.4	30.4	155.5
44	7.8	8.9	13.4	520	26.7	30.7	158.5
45	7.8	9.0	13.7	530	26.9	31.0	161.5
46	7.9	9.1	14.0	540	27.2	31.3	164.6
47	8.0	9.2	14.3	550	27.4	31.6	167.6
48	8.1	9.3	14.6	560	27.7	31.9	170.7
49	8.2	9.4	14.9	570	27.9	32.1	173.7
50	8.3	9.5	15.2	580	28.2	32.4	176.8
55	8.7	10.0	16.8	590	28.4	32.7	179.8
60	9.1	10.4	18.3	600	28.7	33.0	182.9
65	9.4	10.9	19.8	620	29.1	33.5	189.0
70	9.8	11.3	21.3	640	29.5	34.1	195.1
75	10.1	11.7	22.9	660	30.1	34.6	201.2
80	10.5	12.0	24.4	680	30.5	35.1	207.3
85	10.8	12.4	25.9	700	31.0	35.6	213.4
90	11.1	12.8	27.4	720	31.4	36.1	219.5
95	11.4	13.1	29.0	740	31.8	36.6	225.6
100	11.7	13.5	30.5	760	32.3	37.1	231.7
105	12.0	13.8	32.0	780	32.7	37.6	237.7
110	12.3	14.1	33.5	800	33.1	38.1	243.8
115	12.5	14.4	33.1	820	33.5	38.6	249.9

Example: Determine the geographic visibility of an object 65 feet above the water, for an observer whose eye is 35 above the water:

Height of object	65 feet	9.4 nautical miles
Height of observer	35 feet	6.9 nautical miles
Computed geographic visibility		16.3 nautical miles

Conversion of Degrees to Points and Points to Degrees

°	'	Points	°	'	Points
000	00	N	180	00	S
002	49		182	49	
005	38	N ½ E	185	38	S ½ W
008	26		188	26	
011	15	N x E	191	15	S x W
014	04		194	04	
016	53	N x E ½ E	196	53	S x W ½ W
019	41		199	41	
022	30	NNE	202	30	SSW
025	19		205	19	
028	08	NNE ½ E	208	08	SSW ½ W
030	56		210	56	
033	45	NE x N	213	45	SW x W
036	34		216	34	
039	23	NE ½ N	219	23	SW ½ S
042	11		222	11	
045	00	NE	225	00	SW
047	49		227	49	
050	38	NE ½ E	230	38	SW ½ W
053	26		233	26	
056	15	NE x E	236	15	SW x W
059	04		239	04	
061	53	NE x E ½ E	241	53	SW x W ½ W
064	41		244	41	
067	30	ENE	247	30	WSW
070	19		250	19	
073	08	ENE ½ E	253	08	WSW ½ W
075	56		255	56	
078	45	E x N	258	45	W x S
081	34		261	34	
084	23	E ½ N	264	23	W ½ S
087	11		267	11	
090	00	E	270	00	W
092	49		272	49	
095	38	E ½ S	275	38	W ½ S
098	26		278	26	
101	15	E x S	281	15	W x N
104	04		284	04	
106	53	ESE ½ E	286	53	WNW ½ W
109	41		289	41	
112	30	ESE	292	30	WNW
115	19		295	19	
118	08	SE x E ½ E	298	08	NW x W ½ W
120	56		300	56	
123	45	SE x E	303	45	NW x W
126	34		306	34	
129	23	SE ½ E	309	23	NW ½ W
132	11		312	11	
135	00	SE	315	00	NW
137	49		317	49	
140	38	SE ½ S	320	38	NW ½ N
143	26		323	26	
146	15	SE x S	326	15	NW x N
149	04		329	04	
151	53	SSE ½ E	331	53	NNW ½ W
154	41		334	41	
157	30	SSE	337	30	NNW
160	19		340	19	
163	08	S x E ½ E	343	08	N x W ½ W
165	56		345	56	
168	45	S x E	348	45	N x W
171	34		351	34	
174	23	S ½ E	354	23	N ½ W
177	11		357	11	

DETERMINATION OF WIND SPEED BY SEA CONDITION

Miles Per Hour	Knots	Descriptive	Sea Conditions	Wind Force (Beaufort)	Probable Wave Height (ft.)
0-1	0-1	Calm	Sea smooth and mirror-like.	0	-
1-3	1-3	Light air	Scale-like ripples without foam crests	1	¼
4-7	4-6	Light breeze	Small, short wavelets; crests have a glassy appearance and do not break.	2	½
8-12	7-10	Gentle breeze	Large wavelets; some crests begin to break; foam has glassy appearance. Occasional white foam crests.	3	2
13-18	11-16	Moderate breeze	Small waves, become longer; fairly frequent white foam crests.	4	4
19-24	17-21	Fresh breeze	Moderate waves, taking a more pronounced long form; many white foam crests; there may be some spray.	5	6
25-31	22-27	Strong breeze	Large waves begin to form; white foam crests are more extensive everywhere; there may be some spray.	6	10
32-38	28-33	Near gale	Sea heaps up and white foam from breaking waves begin to be blown in streaks along the direction of the wind; spindrift begins.	7	14
39-46	34-40	Gale	Moderately high waves of greater length; edges of crests break into spindrift; foam is blown in well-marked streaks along the direction of the wind.	8	18
47-54	41-47	Strong gale	High waves; dense streaks of foam along the direction of the wind; crests of waves begin to topple, tumble and roll over; spray may reduce visibility.	9	23
55-63	48-55	Storm	Very high waves with long overhanging crests. The resulting foam in great patches is blown in dense white streaks along the direction of the wind. On the whole, the surface of the sea is white in appearance. The tumbling of the sea becomes heavy and shock-like. Visibility is reduced.	10	29
64-72	56-63	Violent storm	Exceptionally high waves that may obscure small and medium-sized ships. The sea is completely covered with long white patches of foam lying along the direction of the wind. Everywhere the edges of the wave crests are blown into froth. Visibility is reduced.	11	37
73+	64+	Hurricane	The air is filled with foam and spray. Sea completely white with driving spray; visibility is very much reduced.	12	45

ATMOSPHERIC PRESSURE CONVERSION TABLE

Inches	Millibars	Inches	Millibars	Inches	Millibars
28.44	963	29.32	993	30.21	1023
28.53	966	29.41	996	30.30	1026
28.62	969	29.50	999	30.39	1029
28.70	972	29.59	1002	30.48	1032
28.79	975	29.68	1005	30.56	1035
28.88	978	29.77	1008	30.65	1038
28.97	981	29.86	1011	30.74	1041
29.06	984	29.94	1014	30.83	1044
29.15	987	30.03	1017	30.92	1047
29.24	990	30.12	1020	31.01	1050

Table For Estimating Time of Transit

Distance	Speed in knots																		
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	30
Nautical Miles	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours	Days-hours
10	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	.....	.....	.....	.....	.....	.....
20	0-3	0-2	0-2	0-2	0-2	0-2	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
30	0-4	0-3	0-3	0-3	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-1	0-1	0-1	0-1	0-1	0-1
40	0-5	0-4	0-4	0-4	0-3	0-3	0-3	0-3	0-3	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-1
50	0-6	0-6	0-5	0-5	0-4	0-4	0-4	0-3	0-3	0-3	0-3	0-3	0-3	0-2	0-2	0-2	0-2	0-2	0-2
60	0-8	0-7	0-6	0-5	0-5	0-5	0-4	0-4	0-4	0-4	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-2	0-2
70	0-9	0-8	0-7	0-6	0-6	0-5	0-5	0-5	0-4	0-4	0-4	0-4	0-4	0-3	0-3	0-3	0-3	0-3	0-2
80	0-10	0-9	0-8	0-7	0-7	0-6	0-6	0-5	0-5	0-5	0-4	0-4	0-4	0-4	0-4	0-3	0-3	0-3	0-3
90	0-11	0-10	0-9	0-8	0-8	0-7	0-6	0-6	0-6	0-5	0-5	0-5	0-5	0-4	0-4	0-4	0-4	0-4	0-3
100	0-13	0-11	0-10	0-9	0-8	0-8	0-7	0-7	0-6	0-6	0-6	0-5	0-5	0-5	0-5	0-4	0-4	0-4	0-3
200	1-1	0-22	0-20	0-18	0-17	0-15	0-14	0-13	0-13	0-12	0-11	0-11	0-10	0-10	0-9	0-9	0-8	0-8	0-7
300	1-14	1-9	1-6	1-3	1-1	0-23	0-21	0-20	0-19	0-18	0-17	0-16	0-15	0-14	0-14	0-13	0-13	0-12	0-10
400	2-2	1-20	1-16	1-12	1-9	1-7	1-5	1-3	1-1	1-0	0-22	0-21	0-20	0-19	0-18	0-17	0-17	0-16	0-13
500	2-15	2-8	2-2	1-21	1-18	1-14	1-12	1-9	1-7	1-5	1-4	1-2	1-1	1-0	0-23	0-22	0-21	0-20	0-17
600	3-3	2-19	2-12	2-7	2-2	1-22	1-19	1-16	1-14	1-11	1-9	1-8	1-6	1-5	1-3	1-2	1-1	1-0	0-20
700	3-16	3-6	2-22	2-16	2-10	2-6	2-2	1-23	1-20	1-17	1-15	1-13	1-11	1-9	1-8	1-6	1-5	1-4	0-23
800	4-4	3-17	3-8	3-1	2-19	2-14	2-9	2-5	2-2	1-23	1-20	1-18	1-16	1-14	1-12	1-11	1-9	1-8	1-3
900	4-17	4-4	3-18	3-10	3-3	2-21	2-16	2-12	2-8	2-5	2-2	1-23	1-21	1-19	1-17	1-15	1-14	1-12	1-6
1,000	5-5	4-15	4-4	3-19	3-11	3-5	2-23	2-19	2-15	2-11	2-8	2-5	2-2	2-0	1-21	1-19	1-18	1-16	1-9
2,000	10-10	9-6	8-8	7-14	6-23	6-10	5-23	5-13	5-5	4-22	4-15	4-9	4-4	3-23	3-19	3-15	3-11	3-8	2-19
3,000	15-15	13-21	12-12	11-9	10-10	9-15	8-22	8-8	7-20	7-8	6-23	6-14	6-6	5-23	5-16	5-10	5-5	5-0	4-4
4,000	20-20	18-21	16-16	15-4	13-21	12-20	11-22	11-3	10-10	9-19	9-6	8-19	8-8	7-22	7-14	7-6	6-23	6-16	5-13
5,000	26-1	23-4	20-20	18-23	17-9	16-1	14-21	13-21	13-1	12-6	11-14	10-23	10-10	9-22	9-11	9-1	8-16	8-8	6-23
6,000	31-6	27-19	25-0	22-17	20-20	19-6	17-21	16-16	15-15	14-17	13-21	13-4	12-12	11-22	11-9	10-21	10-10	10-0	8-8

STANDARD ABBREVIATIONS FOR BROADCASTS

AIDS TO NAVIGATION	
Aeronautical Radiobeacon	AERO RBN
Articulated Daybeacon	ART DBN
Articulated Light	ART LT
Destroyed	DESTR
Discontinued	DISCONTD
Established	ESTAB
Exposed Location Buoy	ELB
Fog Signal Station	FOG SIG
Large Navigation Buoy	LNB
Light	LT
Light List Number	LLNR
Lighted Bell Buoy	LBB
Lighted Buoy	LB
Lighted Gong Buoy	LGB
Lighted Horn Buoy	LHB
Lighted Whistle Buoy	LWB
Ocean Data Acquisition System	ODAS
Privately Maintained	PRIV MAINTD
Radar Responder Buoy	RACON
Radar Reflector	RA REF
Radiobeacon	RBN
Temporarily Replaced by Unlighted Buoy	TRUB
Temporarily Replaced by Lighted Buoy	TRLB
Whistle	WHIS

CHARACTERISTICS	
Fixed	F
Occulting	OC
Group-Occulting	OC(2)
Composite Group-Occulting	OC(2+1)
Isophase	ISO
Single-Flashing	FL
Group-Flashing	FL(3)
Composite Group Flashing	FL(2+1)
Continuous Quick-Flashing	Q
Interrupted Quick-Flashing	IQ
Morse Code	MO(a)
Fixed and Flashing	FFL
Alternating	AL
Characteristics	CHAR

Color[1]	
Black	B
Blue	BU
Green	G
Orange	OR
Red	R
White	W
Yellow	Y

ORGANIZATIONS	
Coast Guard	CG
Commander, Coast Guard District (#)	CCCD(#)
Corp of Engineers	COE
National Geospatial-Intelligence Agency	NGA
National Ocean Service	NOS
National Weather Service	NWS

VESSELS	
Aircraft	A/C
Fishing Vessel	F/V
Liquified Natural Gas Carrier	LNG
Motor Vessel	M/V[2]
Pleasure Craft	P/C
Research Vessel	R/V
Sailing Vessel	S/V

COMPASS DIRECTIONS	
East	E
North	N
Northeast	NE
Northwest	NW
South	S
Southeast	SE
Southwest	SW
West	W

MONTHS	
January	JAN
February	FEB
March	MAR
April	APR
May	MAY
June	JUN
July	JUL
August	AUG
September	SEP
October	OCT
November	NOV
December	DEC

[1] Color refers to light characteristics of Aids to Navigation only.
[2] M/V includes: Steam Ship, Container Vessel, Cargo Vessel, etc.

STANDARD ABBREVIATIONS FOR BROADCASTS (Cont'd)

DAYS OF THE WEEK

Monday	MON
Tuesday	TUE
Wednesday	WED
Thursday	THU
Friday	FRI
Saturday	SAT
Sunday	SUN

COUNTRIES AND STATES

Alabama	AL
Alaska	AK
American Samoa	AS
Arizona	AZ
Arkansas	AR
California	CA
Canada	CN
Colorado	CO
Connecticut	CT
Delaware	DE
District of Columbia	DC
Federated States of Micronesia	FSM
Florida	FL
Georgia	GA
Guam	GU
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Massachusetts	MA
Mexico	MX
Michigan	MI
Minnesota	MN
Mississippi	MS
Missouri	MO
Montana	MT
Nebraska	NE
New Hampshire	NH
Nevada	NV
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Ohio	OH
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Puerto Rico	PR
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
United States	US
Utah	UT
Vermont	VT
Virgin Islands	VI
Virginia	VA
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY

VARIOUS

Anchorage	ANCH
Anchorage Prohibited	ANCH PROHIB
Approximate	APPROX
Atlantic	ATLC
Authorized	AUTH
Average	AVG
Bearing	BRG
Breakwater	BKW
Broadcast Notice to Mariners	BNM
Channel	CHAN
Code of Federal Regulations	CFR
Continue	CONT
Degrees (temperature; Geographic Position)	DEG
Diameter	DIA
Edition	ED
Effect/Effective	EFF
Entrance	ENTR
Explosive Anchorage	EXPLOS ANCH
Fathom(s)	FM(S)
Foot/Feet	FT
Harbor	HBR
Height	HT
Hertz	HZ
Horizontal Clearance	HOR CL
Hour	HR
International Regulations For Preventing Collisions at Sea	COLREGS
Kilohertz	KHZ
Kilometer	KM
Knot(s)	KT(S)
Latitude	LAT
Local Notice to Mariners	LNM
Longitude	LONG
Maintained	MAINTD
Maximum	MAX
Megahertz	MHZ
Millibar	MB
Millimeter	MM
Minute (temperature; geographic position)	MIN
Moderate	MOD
Mountain, Mount	MT
Nautical Mile(s)	NM
Notice to Mariners	NM
Obstruction	OBSTR
Occasion/Occasionally	OCCASION

STANDARD ABBREVIATIONS FOR BROADCASTS (Cont'd)

Operating Area	OPAREA
Pacific	PAC
Point(s)	PT(S)
Position	PSN
Position Approximate	PA
Pressure	PRES
Private, Privately	PRIV
Prohibited	PROHIB
Publication	PUB
Range	RGE
Reported	REP
Restricted	RESTR
Rock	RK
Saint	ST
Second (time; geographic position)	SEC
Signal Station	SIG STA
Station	STA
Statute Mile(s)	SM
Storm Signal Station	S SIG STA
Temporary	TEMP
Through	THRU
Thunderstorm	TSTM
True	T
Uncovers, Dries	UNCOV
Universal Coordinate Time	UTC
Urgent Marine Information Broadcast	UMIB
Velocity	VEL
Vertical Clearance	VERT CL
Visibility	VSBY
Warning	WARN
Weather	WX
Wreck	WK
Yard(s)	YD

MEASUREMENT AND CONVERSION FACTORS

EQUIVALENCIES

nautical mile	1,852.0 meters 6,076.12 feet
statute mile	5,280 feet; 1,609.3 meters; 1.6 093 kilometers
cable	0.1 nautical mile (Canada); 720 feet (U.S.)
fathom	6 feet; 1.8 288 meters
foot	0.3 048 meter
inch	2.54 centimeters
meter	39.37 inches; 3.281 feet; 1.0 936 yards
kilometer	1,000 meters
knot	1.6 877 feet per second 0.5 144 meters per second
miles (statute) per hour	1.466 feet per second 0.44 704 meters per second
acre	43,560 square feet 4,046.82 square meters
pound (avoirdupois)	453.59 gram
gram	0.0 022 046 pound (avoirdupois)
short ton	2,000 pounds
long ton	2,240 pounds
metric ton	2,204.6 pounds;
gram	0.035 274 ounce
kilogram	2.2 pounds
liter	1.0 567 quarts
barrel (petroleum)	42 gallons (U.S.)

CONVERSION FACTORS

SYMBOL	WHEN YOU KNOW	MULTIPLY BY	TO FIND	SYMBOL
LINEAR				
in	inches	25.40	millimeters	mm
in	inches	2.540	centimeters	cm
cm	centimeters	0.032 808	feet	ft
ft	feet	30.48	centimeters	cm
ft	feet	0.3 048	meters	m
ft	feet	0.00 016 458	nautical miles	nm
yd	yards	0.9 144	meters	m
m	meters	3.2 808	feet	ft
m	meters	1.094	yards	yd
m	meters	0.0 005 399	nautical miles	nm
sm	statute miles	0.86 897	nautical miles	nm
sm	statute miles	1.6 093	kilometers	km
sm	statute miles	1,609.3	meters	m
nm	nautical miles	1.151	statute miles	sm
AREA				
ft^2	square feet	0.0 929	square meters	m^2
m^2	square meters	10.764	square feet	ft^2
	acres	4,046.9	square meters	m^2
	acres	43,560	square feet	ft^2
m^2	square meters	0.0 002 471	acres	
ft^2	square feet	0.00 002 296	acres	
ha	hectare	2.471 054	acre	
ha	hectare	10,000	square meters	m^2
ha	hectare	$1.07\ 639 \times 10^5$	square feet	ft^2
	acre	0.404 685	hectare	ha
DEPTHS				
	fathoms	1.8 288	meters	m
m	meters	0.54 681	fathoms	
m	meters	3.2 808	feet	ft
ft	feet	0.3 048	meters	m

CONVERSION FACTORS (Cont'd)

SYMBOL	WHEN YOU KNOW	MULTIPLY BY	TO FIND	SYMBOL
RATES				
ft/sec	feet per second	0.5 925	knots	kt
ft/sec	feet per second	0.6 818	miles per hour	mph
ft/sec	feet per second	30.48	centimeters per second	cm/s
mph	statute miles per hour	0.8 689	knots	kt
mph	statute miles per hour	1.467	feet per second	fps
mph	statute miles per hour	0.447	meters per second	m/s
kt	knots	1.151	miles per hour	mph
kt	knots	0.5 144	meters per second	m/s
kt	knots	1.6 878	feet per second	fps
cm/sec	centimeter per second	0.01 944	knots	kt
cm/sec	centimeter per second	0.02 237	miles per hour	mph
cm/sec	centimeter per second	0.032 808	feet per second	fps
MASS				
g	grams	0.035 275	ounces (avoirdupois)	oz
g	grams	0.002 205	pounds (avoirdupois)	lb
oz	ounces (avoirdupois)	28.349	grams	g
lb	pounds	0.45 359	kilograms	kg
	short tons	2,000	pounds	Lb
	short tons	0.89 286	long tons	
	short tons	0.9 072	metric tons	t
	long tons	2,240	pounds	Lb
	long tons	1.12	short tons	
	long tons	1.016	metric tons	t
t	metric tons	1,000	kilograms	kg
t	metric tons	0.9 842	long tons	
t	metric tons	1.1 023	short tons	
t	metric tons	2,204.6	pounds	Lb
VOLUME				
	barrels (petroleum)	42	gallons (U.S.)	gal
	barrels (petroleum)	158.99	liters	L
	barrels (liquid, U.S.)	31.5	gallons (U.S.)	gal
	barrels (liquid, U.S.)	26.229	gallons (British)	gal
	barrels (liquid, U.S.)	119.24	liters	L
gal	gallons (U.S.)	0.02 381	barrels (petroleum)	
L	liters	0.26 417	gallons (U.S.)	Gal
gal	gallons (U.S.)	3.7 854	liters	L
TEMPERATURE				
	Degrees Fahrenheit	5/9 (after subtracting 32)	Degrees Celsius	
	Degrees Celsius	9/5 (then add 32)	Degrees Fahrenheit	

METRIC STYLE GUIDE

Prefixes: Some of the metric units listed include prefixes such as kilo, centi, and milli. Prefixes, added to a unit name, create larger or smaller units by factors that are powers of 10. For example, add the prefix kilo, which means a thousand, to the unit gram to indicate 1000 grams; thus 1000 grams become 1 kilogram. The more common prefixes follow.

Factor		Prefix	Symbol
1 000 000	10^6	mega	M
1 000	10^3	kilo	k
1/100	10^{-2}	centi	c
1/1000	10^{-3}	milli	m
1/1 000 000	10^{-6}	micro	µ

Spelling: All units and prefixes should be spelled as shown in this guide.

Conversions: Conversions should follow a rule of reason; do not include figures that imply more accuracy than justified by the original data. For example, 36 inches should be converted to 91 centimeters, not 91.44 centimeters (36 inches x 2.54 centimeters per inch = 91.44 centimeters), and 40.1 inches converts to 101.9 centimeters, not 101.854.

Capitalization of Units: The names of all units start with a lower case letter except, of course, at the beginning of the sentence. There is one exception: in "degree Celsius" (symbol °C) the unit "degree" is lower case but the modifier "Celsius" is capitalized. Thus body temperature is written as 37 degrees Celsius.

Capitalization of Symbols: Unit symbols are written in lower case letters except for liter and those units derived from the name of a person (m for meter, but W for Watt, Pa for Pascal, etc.).

Capitalization of Prefixes: Symbols of prefixes that mean a million or more are capitalized and those less than a million are lower case (M for mega (millions), m for milli (thousandths)).

Pluralizations of Units: Names of units are made plural only when the numerical value that precedes them is more than 1. For example, 0.25 liter or 1/4 liter, but 250 milliliters. Zero degrees Celsius is an exception to this rule.

Pluralization of Symbols: Symbols for units are never pluralized (250 mm=250 millimeters).

Incorrect Terms: The prefix "kilo" stands for one thousand of the named unit. It is not a stand-alone term in the metric system. The most common misuse of this is the use of "kilo" for a "kilogram" of something. The word "micron" is an obsolete term for the quantity "micrometer." Also "degree centigrade" is no longer the correct unit term for temperature in the metric system; it has been replaced by degree Celsius.

Spacing: A space is used between the number and the symbol to which it refers. For example: 7 m, 31.4 kg, 37° C.

When a metric value is used as a one-thought modifier before a noun, hyphenating the quantity is not necessary. However, if a hyphen is used, write out the name of the metric quantity with the hyphen between the numeral and the quantity. For example:

a 2-liter bottle, not a 2-L bottle;
a 100-meter relay, not a 100-m relay;
35-millimeter film, not 35-mm film.

In names or symbols for units having prefixes, there is no space between letters making up the symbol or name. Examples: milligram, mg; kilometer, km.

Spaces (not commas) are used in writing metric values containing five or more digits. Examples 1 234 567 km, 0.123 456 mm. For values with four digits, either a space or no space is acceptable.

Period: Do not use a period with metric unit names and symbols except at the end of a sentence.

Decimal Point: The dot or period is used as the decimal point within numbers. In numbers less than one, zero should be written before the decimal point. Examples: 7.038 g; 0.038 g.