

# Appendix B

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
 Miss or blank is a missing value

KEY WEST, FL (24°33'N, 88°39'W) 20 feet (6 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1019.5	1018.6	1017.2	1016.3	1015.6	1015.8	1017.5	1016.1	1014.4	1014.7	1016.8	1018.9	1016.8	44
<b>TEMPERATURE (°F)</b>														
Mean	70.2	71.0	74.1	77.2	80.7	83.4	84.7	84.6	83.5	80.3	75.9	71.6	78.1	46
Mean daily maximum	74.9	75.8	78.8	81.8	85.2	87.9	89.4	89.5	88.2	84.6	80.0	76.1	82.7	46
Mean daily minimum	64.9	65.7	68.9	72.1	75.7	78.3	79.4	79.2	78.3	75.5	71.3	66.6	73.0	46
Extreme (highest)	86	85	88	90	91	94	95	95	94	93	89	88	95	46
Extreme (lowest)	41	45	47	48	64	68	69	68	69	60	49	44	41	46
<b>RELATIVE HUMIDITY</b>														
Average percentage	70.0	60.6	47.5	37.6	31.0	33.3	49.7	35.8	19.5	21.7	43.3	64.0	42.7	46
<b>CLOUD COVER</b>														
Percent of time clear	21.7	25.0	21.0	19.1	13.3	4.4	2.4	2.0	2.1	11.2	17.6	20.7	13.3	44
Percent of time scattered	32.2	33.6	36.1	39.0	39.5	32.9	31.1	30.5	28.3	36.9	35.3	31.7	33.9	44
Percent of time broken	23.2	23.0	23.4	24.5	27.7	33.4	40.4	41.6	40.9	28.5	25.1	24.2	29.7	44
Percent of time overcast	16.5	13.1	13.6	12.0	12.9	20.1	15.9	15.3	18.6	15.5	14.9	16.1	15.4	44
<b>PRECIPITATION (inches)</b>														
Mean amount	2.2	1.5	1.7	1.9	3.2	4.8	3.6	5.0	6.4	4.80	2.44	2.08	39.9	46
Greatest amount	17.6	4.4	9.6	10.6	12.9	14.4	11.6	10.4	18.4	21.5	27.6	11.1	62.9	46
Least amount	T	0.0	T	0.0	0.3	0.3	0.4	2.2	1.7	0.7	T	0.07	19.9	46
Maximum amount (24 hours)	6.4	2.5	5.2	6.1	7.2	5.1	3.0	3.2	6.0	6.4	22.7	6.6	22.7	46
Mean number of days	11	9	9	8	11	16	17	19	21	16	11	12	160	46
<b>WIND</b>														
Percentage with gales	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.18	0.09	0.03	0.01	0.18	45
Mean wind speed (knots)	10.4	10.5	10.6	10.6	9.3	8.4	8.2	8.0	8.5	9.6	10.5	10.3	9.5	45
<b>Direction (percentage of observations)</b>														
North	9.5	10.4	8.0	7.0	4.9	2.6	1.6	2.4	2.8	6.6	8.1	9.2	6.1	45
North Northeast	11.2	9.6	6.5	4.8	3.4	1.9	1.4	2.1	2.7	8.7	11.8	12.9	6.4	45
Northeast	15.7	12.0	7.5	6.0	4.4	3.2	3.0	4.5	6.7	17.3	20.2	18.6	9.9	45
East Northeast	12.0	9.2	7.1	7.8	6.5	5.0	5.6	7.6	10.8	18.7	17.3	14.3	10.2	45
East	9.1	8.6	9.7	12.1	12.5	10.3	11.6	11.8	12.8	11.2	9.5	9.0	10.7	45
East Southeast	10.0	11.1	14.8	18.8	20.5	18.6	23.8	19.8	18.4	10.0	9.2	9.4	15.4	45
Southeast	7.8	10.1	14.7	15.1	17.0	18.8	21.2	18.9	13.9	6.8	6.6	7.4	13.2	45
South Southeast	4.0	5.1	7.2	5.9	7.3	9.4	9.0	8.7	6.6	3.3	2.5	2.9	6.0	45
South	3.6	4.1	5.4	3.8	4.7	7.9	6.3	5.8	5.5	2.7	2.1	2.8	4.6	45
South Southwest	2.3	2.3	2.6	2.1	2.5	4.8	2.9	3.1	3.4	1.8	1.2	1.3	2.5	45
Southwest	2.0	1.9	2.1	2.0	2.1	4.3	2.8	3.0	2.9	1.8	1.5	1.4	2.3	45
West Southwest	1.2	1.5	1.4	1.3	1.5	2.3	1.4	1.6	2.0	1.1	0.8	1.1	1.4	45
West	1.0	1.1	1.2	0.9	1.1	1.5	0.9	1.1	1.4	0.8	0.7	0.8	1.0	45
West Northwest	1.4	1.5	1.6	1.6	1.6	1.4	1.0	1.1	1.3	1.0	0.9	1.1	1.3	45
Northwest	2.4	3.4	3.0	3.3	3.1	2.0	1.4	1.8	2.0	1.9	2.1	2.1	2.4	45
North Northwest	4.9	6.0	5.1	5.5	3.8	2.0	1.2	1.8	1.8	3.1	3.2	3.5	3.5	45
Calm	2.0	2.0	2.1	1.9	3.0	3.9	4.9	4.8	5.1	3.2	2.2	2.2	3.1	45
<b>Direction (mean speed, knots)</b>														
North	12.3	12.0	11.5	10.4	7.9	7.2	7.0	7.1	7.3	9.7	11.8	11.9	10.7	45
North Northeast	11.0	10.9	10.5	9.9	8.3	7.2	6.6	7.2	7.7	10.1	11.2	11.1	10.3	45
Northeast	10.2	10.2	10.3	9.7	8.8	7.2	6.4	7.1	8.0	10.5	10.9	10.4	9.9	45
East Northeast	9.8	10.0	10.5	10.8	9.7	8.4	7.3	7.6	8.3	10.5	10.5	10.2	9.7	45
East	10.6	10.5	11.1	12.0	11.2	9.8	9.2	8.9	9.4	10.0	10.6	10.3	10.3	45
East Southeast	10.9	10.8	11.6	12.0	11.0	9.8	9.9	9.6	9.9	9.8	10.8	10.7	10.5	45
Southeast	10.2	10.4	11.2	11.2	10.0	9.2	9.2	9.0	9.5	9.2	10.8	10.7	9.9	45
South Southeast	9.1	9.6	10.2	10.0	8.6	8.2	7.9	7.8	8.6	9.1	9.4	9.1	8.8	45
South	9.5	9.6	9.3	9.1	7.9	8.6	7.5	7.6	9.0	9.9	8.6	8.9	8.6	45
South Southwest	9.1	9.6	9.3	9.2	7.4	8.7	7.4	7.1	9.3	10.1	9.7	8.4	8.7	45
Southwest	8.3	8.9	8.6	8.3	7.3	7.7	7.3	7.2	8.4	9.1	8.7	8.3	8.1	45
West Southwest	7.8	8.5	9.8	8.3	7.7	7.1	6.9	7.7	7.7	8.1	7.6	7.9	7.9	45
West	8.2	8.6	9.2	8.9	7.5	6.5	5.8	6.8	9.3	7.1	7.1	7.9	7.8	45
West Northwest	10.3	11.5	10.3	10.0	7.9	6.2	6.3	6.5	6.8	6.8	8.7	8.7	8.5	45
Northwest	12.3	12.4	12.2	10.1	7.7	6.1	6.7	7.0	7.6	8.1	10.3	11.9	9.7	45
North Northwest	13.4	12.9	12.5	10.8	8.1	6.8	7.6	7.1	7.6	9.7	11.9	12.6	10.9	45
<b>VISIBILITY</b>														
Mean number of days with fog	3	2	1	Miss	Miss	1	Miss	1	1	1	1	2	13	46

\* 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) amount of precipitation  
 Miss or blank is a missing value

FORT MYERS, FL (26°35'N, 81°52'W) 13 feet (4 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1020.3	1019.2	1017.5	1016.6	1015.5	1016.0	1017.8	1016.3	1015.0	1015.7	1017.7	1019.8	1017.3	38
<b>TEMPERATURE (°F)</b>														
Mean	64.7	65.5	69.7	73.7	78.6	82.0	83.1	83.3	82.3	77.4	70.8	66.0	74.8	40
Mean daily maximum	75.1	76.0	80.3	84.7	89.0	90.9	91.4	91.6	90.1	85.8	80.5	76.3	84.3	40
Mean daily minimum	53.8	54.4	58.7	62.2	67.6	72.7	74.2	74.6	74.0	68.5	60.7	55.1	64.7	40
Extreme (highest)	88	91	93	96	99	103	98	98	96	95	95	90	103	40
Extreme (lowest)	28	32	33	39	52	60	66	67	64	48	34	26	26	40
<b>RELATIVE HUMIDITY</b>														
Average percentage	78.4	67.2	50.0	41.2	29.6	35.3	52.8	38.0	25.3	32.0	52.0	73.5	47.9	38
<b>CLOUD COVER</b>														
Percent of time clear	33.4	32.8	31.2	32.0	27.5	16.1	12.5	14.1	16.7	27.8	31.9	32.7	25.6	38
Percent of time scattered	24.1	25.6	26.4	27.1	31.3	28.3	28.2	30.0	27.9	29.4	26.4	24.3	27.4	38
Percent of time broken	21.5	22.4	23.0	25.0	27.7	33.7	35.5	35.9	33.8	26.1	22.8	22.8	27.6	38
Percent of time overcast	15.7	14.3	14.7	11.8	8.9	14.5	15.7	13.0	14.8	12.4	14.6	14.7	13.7	38
<b>PRECIPITATION (inches)</b>														
Mean amount	2.0	2.1	2.6	1.6	3.5	9.2	8.9	8.9	8.2	3.4	1.4	1.4	53.8	40
Greatest amount	7.9	10.8	18.5	5.6	10.3	20.1	16.7	16.7	16.6	11.9	8.0	5.2	74.8	40
Least amount	0.0	0.0	0.0	T	0.3	1.9	2.2	3.9	1.9	0.0	0.0	0.0	32.8	40
Maximum amount (24 hours)	2.6	2.6	5.6	3.7	7.7	5.7	7.3	5.1	5.5	6.1	3.6	3.0	7.7	40
Mean number of days	8	8	7	6	10	18	22	21	19	11	7	7	144	40
<b>WIND</b>														
Percentage with gales	0.00	0.01	0.02	0.02	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.00	0.01	38
Mean wind speed (knots)	7.0	7.5	8.0	7.6	7.1	6.2	5.5	5.7	6.2	7.1	7.1	6.8	6.8	38
<b>Direction (percentage of observations)</b>														
North	7.1	6.7	4.8	4.1	2.8	2.1	2.2	2.6	2.8	6.5	8.0	7.8	4.8	38
North Northeast	8.7	8.0	5.9	4.3	3.7	3.2	2.9	3.9	6.5	13.0	12.5	10.4	6.9	38
Northeast	10.4	9.6	7.2	7.6	7.6	7.5	6.3	8.0	12.9	18.8	16.8	12.1	10.4	38
East Northeast	8.8	7.5	7.9	9.3	10.6	9.8	9.8	11.1	15.1	16.4	13.5	10.4	10.8	38
East	8.5	6.7	7.6	10.5	11.2	10.3	12.2	13.4	14.1	9.5	8.4	8.8	10.1	38
East Southeast	7.0	5.7	7.7	8.7	9.8	9.3	11.5	10.4	9.5	5.3	5.4	6.3	8.1	38
Southeast	4.4	5.1	6.4	5.6	6.1	7.2	8.4	7.3	5.8	2.6	3.5	4.4	5.6	38
South Southeast	3.5	3.9	4.5	3.5	3.4	4.5	5.0	4.4	3.2	1.9	2.4	3.3	3.6	38
South	5.5	6.2	6.5	3.7	3.0	3.8	4.3	4.0	2.8	1.7	3.0	4.0	4.0	38
South Southwest	3.8	4.8	5.8	4.4	3.3	3.4	2.9	3.2	2.3	1.3	2.3	3.1	3.4	38
Southwest	3.0	3.8	5.5	5.9	5.5	5.3	4.8	3.7	2.7	1.9	2.5	2.8	4.0	38
West Southwest	2.0	2.5	3.7	4.6	6.0	5.8	4.0	3.6	2.7	1.9	1.5	1.7	3.3	38
West	2.3	2.9	3.8	4.6	5.5	5.6	3.8	3.4	2.4	2.3	1.6	1.5	3.3	38
West Northwest	3.9	5.1	5.3	5.8	5.8	4.7	3.3	2.9	2.6	3.0	2.5	2.5	3.9	38
Northwest	5.1	6.3	4.8	4.5	3.7	3.2	2.0	2.6	2.1	2.5	2.7	4.0	3.6	38
North Northwest	5.2	5.0	4.2	3.4	2.1	1.9	1.6	2.0	1.7	3.1	3.8	4.6	3.2	38
Calm	10.7	10.3	8.3	9.5	10.0	12.5	15.0	13.5	10.6	8.3	9.6	12.2	10.9	38
<b>Direction (mean speed, knots)</b>														
North	8.4	8.6	8.4	8.2	6.8	6.6	6.1	6.6	6.9	8.0	8.9	8.5	8.1	38
North Northeast	8.0	8.3	8.2	7.6	7.2	6.5	5.6	6.4	7.1	7.9	8.1	7.8	7.7	38
Northeast	7.1	7.5	7.6	7.3	7.1	6.4	5.8	5.8	6.6	8.0	7.5	7.0	7.1	38
East Northeast	6.9	7.4	7.6	7.7	7.6	6.8	5.8	6.0	6.5	8.0	7.5	6.8	7.1	38
East	6.7	7.1	7.5	7.7	7.5	6.6	5.9	6.1	6.7	7.6	7.4	6.9	6.9	38
East Southeast	7.3	7.6	7.7	7.9	7.1	6.3	6.3	6.3	6.9	7.1	7.3	7.3	7.0	38
Southeast	7.3	7.6	7.8	7.6	6.7	6.1	6.1	6.2	6.5	7.0	7.0	7.4	6.8	38
South Southeast	7.6	7.8	8.2	7.7	6.5	6.5	6.3	6.2	6.8	6.7	7.1	7.5	7.1	38
South	8.9	9.4	9.9	9.2	7.9	7.1	6.4	6.5	7.1	7.7	7.9	8.2	8.2	38
South Southwest	8.8	9.7	10.4	9.8	9.4	8.2	7.4	7.8	8.2	8.1	8.8	9.2	9.0	38
Southwest	8.5	9.1	9.8	9.8	9.4	8.3	7.8	8.0	7.8	8.2	8.4	8.5	8.8	38
West Southwest	7.6	8.3	9.3	9.2	9.6	8.6	8.1	7.8	8.2	7.7	7.7	7.7	8.5	38
West	8.3	8.8	9.3	9.7	9.4	8.7	8.1	7.9	7.7	7.5	7.6	7.6	8.6	38
West Northwest	9.4	10.2	10.4	9.8	9.1	8.4	7.8	7.9	7.9	7.8	8.0	8.8	9.0	38
Northwest	9.3	9.7	9.8	8.9	8.0	7.3	6.9	7.0	7.1	7.2	8.8	9.2	8.6	38
North Northwest	8.7	9.0	9.0	8.1	6.8	6.3	6.5	6.5	7.1	7.6	9.0	8.7	8.2	38
<b>VISIBILITY</b>														
Mean number of days with fog	15	12	13	10	9	6	3	3	4	8	11	13	107	40

\* 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) amount of precipitation  
Miss or blank is a missing value

TAMPA, FL (27°58'N, 82°32'W) 39 feet (12 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1020.6	1019.6	1017.9	1017.3	1016.2	1016.2	1017.9	1016.6	1015.4	1016.3	1018.6	1020.4	1017.8	49
<b>TEMPERATURE (°F)</b>														
Mean	60.5	62.3	66.8	71.7	77.7	81.5	82.6	82.6	81.2	75.1	67.7	62.2	72.7	50
Mean daily maximum	70.5	72.2	76.5	81.7	87.3	89.7	90.3	90.4	89.1	84.0	77.5	72.1	81.8	50
Mean daily minimum	50.1	51.9	56.6	61.2	67.5	72.7	74.3	74.4	72.9	65.8	57.5	51.9	63.1	50
Extreme (highest)	86	88	91	93	98	99	97	98	96	94	90	86	99	50
Extreme (lowest)	21	24	29	40	49	53	63	67	57	40	23	18	18	50
<b>RELATIVE HUMIDITY</b>														
Average percentage	80.7	71.3	54.3	48.2	36.6	37.3	54.1	41.0	29.3	38.4	60.9	78.7	52.5	50
<b>CLOUD COVER</b>														
Percent of time clear	26.4	27.4	26.1	29.4	24.1	12.7	7.8	9.1	13.8	28.6	29.7	26.5	21.7	48
Percent of time scattered	20.1	20.5	23.3	25.7	30.2	29.1	27.4	28.1	27.7	26.9	24.2	22.7	25.5	48
Percent of time broken	17.8	19.2	19.9	21.4	25.5	31.6	34.2	32.8	29.0	21.7	18.9	18.9	24.3	48
Percent of time overcast	29.3	26.6	24.3	18.0	14.3	17.9	20.6	20.7	21.5	16.7	20.9	24.8	21.3	48
<b>PRECIPITATION (inches)</b>														
Mean amount	2.2	2.6	3.3	2.0	2.8	5.5	7.2	7.9	6.4	2.4	1.7	2.3	46.7	50
Greatest amount	8.0	7.9	12.6	10.7	17.6	13.7	20.5	18.5	13.9	7.3	6.1	15.5	76.5	50
Least amount	T	0.2	0.0	T	0.0	1.4	1.6	2.3	1.2	0.0	T	0.0	28.8	50
Maximum amount (24 hours)	3.4	3.1	4.3	5.4	11.4	5.4	9.0	4.9	7.5	2.6	3.8	4.3	11.4	50
Mean number of days	10	10	10	8	9	16	21	22	18	11	8	9	152	50
<b>SNOW</b>														
Mean amount	0.0	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	50
Greatest amount	0.2	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.2	50
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
Maximum amount (24 hours)	0.2	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.2	50
Mean number of days	Miss	Miss	Miss	0	0	0	0	0	0	0	0	Miss	Miss	50
<b>WIND</b>														
Percentage with gales	0.00	0.01	0.02	0.00	0.00	0.01	0.00	0.02	0.03	0.01	0.01	0.00	0.02	50
Mean wind speed (knots)	7.4	7.9	8.1	7.9	7.4	6.9	6.1	5.9	6.5	7.2	7.2	7.3	7.2	50
<b>Direction (percentage of observations)</b>														
North	8.2	7.0	5.6	4.5	3.7	2.8	2.6	3.3	3.7	8.9	10.2	9.9	5.9	50
North Northeast	8.3	6.5	4.8	4.0	3.5	3.1	2.5	3.8	6.8	12.1	11.6	9.3	6.4	50
Northeast	9.4	7.9	6.0	5.7	5.7	5.4	4.5	6.5	11.4	16.7	12.5	11.0	8.6	50
East Northeast	9.1	7.9	7.1	8.9	9.3	8.7	6.8	9.7	16.0	16.0	12.0	10.2	10.1	50
East	8.0	7.7	7.5	10.3	11.0	10.0	10.6	11.7	14.0	10.2	9.2	8.4	9.9	50
East Southeast	5.2	5.3	6.3	7.7	8.6	7.3	9.4	9.0	8.7	4.6	5.6	5.7	7.0	50
Southeast	5.1	5.0	6.4	5.9	6.5	6.3	8.1	7.5	5.7	3.1	4.4	5.7	5.8	50
South Southeast	4.8	5.4	5.5	4.5	4.0	5.0	6.9	5.5	3.9	2.2	3.6	4.4	4.6	50
South	6.2	6.8	6.9	4.5	3.5	4.3	4.8	4.2	3.0	1.8	3.9	5.4	4.6	50
South Southwest	4.9	5.9	7.0	4.9	3.4	4.1	4.1	3.7	2.1	1.6	2.9	4.2	4.1	50
Southwest	2.6	3.4	4.4	4.4	4.3	5.7	5.7	4.7	2.7	1.6	2.3	2.4	3.7	50
West Southwest	2.9	3.5	4.3	5.3	6.3	7.9	7.3	5.8	3.5	2.1	2.3	2.0	4.4	50
West	3.6	4.5	5.9	7.5	9.3	11.0	9.4	7.0	4.2	2.9	2.6	2.6	5.9	50
West Northwest	3.6	5.3	6.4	6.7	6.4	5.6	4.5	4.0	2.5	2.5	2.2	2.4	4.3	50
Northwest	6.2	7.0	6.6	6.3	5.5	3.8	3.2	3.4	2.8	3.5	4.1	4.9	4.8	50
North Northwest	6.9	6.0	4.6	4.3	3.8	2.6	2.4	2.7	2.5	4.5	5.6	6.1	4.3	50
Calm	5.1	4.9	4.7	4.6	5.2	6.3	7.3	7.6	6.6	5.5	4.9	5.5	5.7	50
<b>Direction (mean speed, knots)</b>														
North	7.8	7.9	8.0	7.3	6.6	6.4	6.4	6.5	6.7	7.5	7.8	8.1	7.5	50
North Northeast	7.8	7.7	7.7	7.0	7.1	6.8	5.6	6.0	7.4	8.1	7.9	7.9	7.6	50
Northeast	7.3	7.5	7.3	6.8	6.9	6.3	5.4	5.6	6.9	7.6	7.5	7.2	7.0	50
East Northeast	6.9	7.3	7.4	7.4	7.3	6.7	5.7	5.7	6.9	7.8	7.2	6.8	7.0	50
East	6.6	7.3	7.5	8.0	7.6	6.7	5.7	5.8	6.6	7.4	7.1	6.7	6.9	50
East Southeast	6.9	7.6	7.6	8.2	7.3	6.7	5.9	5.9	6.6	7.0	7.3	7.1	6.9	50
Southeast	7.3	7.7	8.1	8.2	7.3	6.4	6.2	6.1	6.8	7.1	7.3	7.5	7.1	50
South Southeast	8.1	8.3	8.7	8.5	7.6	6.7	6.3	6.3	6.8	7.5	7.5	7.7	7.5	50
South	8.5	9.3	9.6	9.3	7.7	7.2	6.7	6.6	7.3	7.8	7.9	8.3	8.2	50
South Southwest	8.6	9.2	10.1	9.6	8.8	8.2	7.1	7.5	7.7	7.8	8.1	8.2	8.6	50
Southwest	7.0	7.4	8.1	8.6	8.2	7.9	7.1	6.9	7.0	6.9	6.7	6.7	7.5	50
West Southwest	7.1	7.9	8.7	8.9	9.0	8.4	7.7	7.5	7.5	7.3	6.9	6.7	8.0	50
West	7.9	9.1	9.5	9.7	9.6	8.9	8.4	7.9	8.1	7.9	7.7	7.2	8.7	50
West Northwest	9.6	9.9	10.1	9.2	8.6	8.2	7.6	7.4	7.4	8.2	8.8	9.3	8.8	50
Northwest	9.6	9.5	9.1	8.1	7.6	7.0	6.6	6.4	6.6	7.4	8.5	9.3	8.2	50
North Northwest	9.1	9.4	8.6	8.3	7.3	6.9	6.5	6.8	6.9	7.6	8.5	9.0	8.2	50
<b>VISIBILITY</b>														
Mean number of days with fog	15	13	13	10	10	8	6	8	9	10	12	14	128	50

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
Miss or blank is a missing value

APALACHICOLA, FL (29°44'N, 85°02'W) 20 feet (6 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1020.8	1019.4	1017.6	1016.3	1016.4	1016.1	1017.6	1016.5	1016.6	1018.2	1019.2	1021.4	1018.1	18
<b>TEMPERATURE (°F)</b>														
Mean	52.9	54.8	61.1	68.2	74.5	80.1	81.6	81.6	78.8	70.4	62.1	55.8	68.4	30
Mean daily maximum	60.9	63.0	68.8	76.1	82.3	87.5	88.5	88.5	85.9	78.9	70.6	64.1	76.2	30
Mean daily minimum	44.3	46.0	52.8	59.7	66.2	72.2	74.2	74.2	71.3	61.5	53.0	46.9	60.1	30
Extreme (highest)	79	79	85	90	98	98	98	99	95	91	85	81	99	30
Extreme (lowest)	9	24	22	36	47	48	63	62	50	37	27	13	9	30
<b>RELATIVE HUMIDITY</b>														
Average percentage	83.0	69.2	51.5	38.3	38.5	36.4	51.1	40.3	41.1	57.0	66.8	88.7	55.6	18
<b>CLOUD COVER</b>														
Percent of time clear	28.2	27.2	31.9	33.2	22.3	13.7	8.4	9.9	23.2	38.2	33.9	27.2	24.8	18
Percent of time scattered	15.1	14.2	15.8	22.8	30.6	33.2	34.4	36.4	33.3	24.5	20.8	16.2	24.7	18
Percent of time broken	12.0	12.9	14.7	16.1	20.4	26.2	27.4	26.0	20.3	14.9	14.2	13.6	18.1	18
Percent of time overcast	40.7	41.7	33.5	23.1	21.7	21.3	23.0	21.7	18.7	19.2	27.1	38.2	27.6	18
<b>PRECIPITATION (inches)</b>														
Mean amount	4.4	3.8	4.8	2.9	3.0	4.4	8.2	7.7	7.5	3.4	3.0	3.9	57.6	30
Greatest amount	20.8	8.9	13.4	12.1	12.1	18.3	18.0	21.0	18.3	11.2	6.6	9.6	88.2	30
Least amount	0.8	0.4	0.7	0.1	0.2	0.3	0.7	2.3	0.6	0.0	0.4	0.9	38.0	30
Maximum amount (24 hours)	3.9	4.3	8.1	6.2	6.8	4.1	6.2	5.4	7.6	6.2	4.2	3.5	8.1	30
Mean number of days	13	12	12	8	8	12	17	17	14	7	10	11	141	28
<b>SNOW</b>														
Mean amount	0.0	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	30
Greatest amount	0.4	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.4	30
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30
Maximum amount (24 hours)	0.4	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.4	30
Mean number of days	Miss	Miss	Miss	0	0	0	0	0	0	0	0	Miss	1	28
<b>WIND</b>														
Percentage with gales	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.05	0.00	0.06	18
Mean wind speed (knots)	7.0	7.1	7.2	6.8	6.3	5.7	5.2	5.1	6.0	6.3	6.5	6.6	6.3	18
<b>Direction (percentage of observations)</b>														
North	11.6	8.3	6.5	5.9	4.6	3.9	4.4	4.3	5.6	10.0	8.2	10.3	7.0	18
North Northeast	8.4	5.7	3.9	3.7	3.4	3.1	3.4	4.1	5.5	8.6	6.8	7.5	5.4	18
Northeast	9.7	7.4	4.6	4.3	4.3	4.4	4.1	6.2	12.1	12.7	10.3	10.8	7.6	18
East Northeast	5.9	5.2	3.3	3.0	2.5	3.9	2.8	5.5	8.6	9.4	7.9	6.8	5.4	18
East	6.7	6.5	4.6	3.7	2.9	3.2	3.2	5.7	7.5	7.7	7.4	7.4	5.6	18
East Southeast	5.5	6.9	5.4	4.5	4.5	3.7	3.3	4.9	8.1	6.9	8.3	6.6	5.7	18
Southeast	6.8	9.5	12.9	10.4	9.7	6.7	6.7	9.3	8.8	6.8	9.0	7.7	8.7	18
South Southeast	4.9	5.6	9.0	8.0	9.6	5.4	5.3	6.0	4.9	4.0	5.2	4.9	6.0	18
South	3.7	5.6	8.1	8.6	10.0	7.0	7.0	6.0	4.3	3.7	5.0	4.6	6.1	18
South Southwest	2.2	3.3	4.9	5.3	6.8	6.8	5.7	3.8	2.5	2.0	2.6	2.7	4.0	18
Southwest	2.2	3.7	5.1	6.1	8.5	9.6	10.3	5.9	3.1	2.3	1.9	2.8	5.1	18
West Southwest	1.5	2.2	3.2	4.3	4.2	7.6	6.4	4.4	2.5	1.2	1.4	1.5	3.4	18
West	2.1	3.7	3.2	6.0	4.6	7.4	7.0	4.8	2.5	1.7	1.4	1.4	3.8	18
West Northwest	3.4	3.8	3.9	4.9	3.9	6.3	6.5	4.3	2.3	2.0	1.8	2.3	3.8	18
Northwest	7.2	7.1	6.0	6.5	5.1	6.0	6.5	5.2	4.0	4.0	4.7	5.1	5.6	18
North Northwest	8.6	6.2	5.8	4.6	3.4	3.1	2.9	3.5	3.7	4.8	5.8	5.9	4.9	18
Calm	9.6	9.2	9.7	10.2	11.8	11.9	14.4	16.0	13.7	12.3	12.3	11.7	12.0	18
<b>Direction (mean speed, knots)</b>														
North	8.9	8.4	8.5	7.3	6.0	5.1	5.3	4.9	5.9	7.1	7.9	8.9	7.5	18
North Northeast	7.9	7.4	7.5	7.0	6.0	5.3	5.2	5.3	6.1	6.9	7.1	7.9	6.9	18
Northeast	7.4	7.3	6.8	6.8	5.8	5.9	5.0	5.6	7.1	6.8	6.9	7.3	6.8	18
East Northeast	6.9	7.3	7.5	6.5	6.0	6.0	5.2	5.8	7.1	7.0	6.7	7.0	6.7	18
East	7.5	8.5	8.0	7.5	7.7	7.6	6.2	6.6	7.6	8.0	7.6	7.2	7.5	18
East Southeast	7.9	8.4	9.0	9.0	8.9	9.0	7.7	7.6	8.5	8.6	7.8	7.6	8.3	18
Southeast	7.5	8.2	8.9	9.0	9.0	8.1	7.8	7.6	8.3	8.3	7.9	7.5	8.2	18
South Southeast	7.5	7.9	8.3	8.5	8.1	7.3	6.7	6.8	7.7	7.7	6.9	7.2	7.6	18
South	6.5	6.6	7.5	7.5	7.0	6.7	6.2	6.1	6.4	6.4	6.4	6.0	6.7	18
South Southwest	6.0	6.0	6.8	6.9	6.8	6.7	5.9	6.0	6.1	6.3	5.9	5.8	6.4	18
Southwest	6.1	6.0	6.5	6.5	6.9	6.5	6.0	5.8	6.0	5.6	6.8	5.6	6.3	18
West Southwest	6.2	6.2	6.6	6.6	6.3	6.5	5.5	5.4	5.4	5.5	6.2	6.2	6.1	18
West	7.7	7.0	6.7	6.5	6.2	6.0	5.8	5.0	5.6	5.7	6.7	6.0	6.1	18
West Northwest	7.7	8.6	8.1	7.5	6.6	6.0	5.9	5.5	5.5	5.7	7.0	7.7	6.7	18
Northwest	8.6	8.9	8.9	7.7	6.3	5.7	5.7	5.1	5.7	6.8	9.2	8.6	7.3	18
North Northwest	9.0	9.4	9.0	7.6	6.6	5.3	5.7	5.1	6.0	7.5	8.1	9.0	7.8	18
<b>VISIBILITY</b>														
Mean number of days with fog	17	15	17	14	12	8	7	8	9	11	13	16	147	28

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
Miss or blank is a missing value

PENSACOLA, FL (30°28'N, 87°12'W) 115 feet (35 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1021.1	1019.8	1017.7	1017.1	1015.7	1015.9	1017.3	1016.6	1016.2	1017.9	1019.7	1020.7	1018.0	20
<b>TEMPERATURE (°F)</b>														
Mean	52.4	54.7	60.8	67.6	74.9	80.8	82.4	82.0	78.7	69.9	60.0	54.2	68.2	41
Mean daily maximum	61.2	63.9	69.7	76.5	83.4	89.1	90.1	89.8	86.7	79.5	69.7	63.3	76.9	41
Mean daily minimum	43.0	44.9	51.3	58.3	65.8	72.0	74.3	73.8	70.3	59.8	49.9	44.6	59.0	41
Extreme (highest)	81	82	86	96	102	101	106	104	98	95	85	81	106	41
Extreme (lowest)	5	13	22	33	47	56	61	62	43	32	22	11	5	41
<b>RELATIVE HUMIDITY</b>														
Average percentage	86.1	72.8	52.5	45.6	32.0	34.2	48.3	41.4	36.8	54.1	72.3	82.5	55.1	20
<b>CLOUD COVER</b>														
Percent of time clear	24.4	27.2	25.1	29.2	23.9	19.1	12.4	15.1	22.6	38.8	34.8	26.1	24.9	20
Percent of time scattered	13.8	14.7	15.5	18.5	23.0	29.6	28.8	31.0	27.0	22.2	18.2	14.3	21.3	20
Percent of time broken	16.2	16.4	17.3	20.5	26.5	30.6	34.5	31.0	25.8	17.8	17.3	16.2	22.5	20
Percent of time overcast	40.8	36.7	37.1	26.2	20.2	14.7	16.8	15.6	18.7	16.9	24.7	37.6	25.6	20
<b>PRECIPITATION (inches)</b>														
Mean amount	4.7	4.9	5.9	4.3	4.4	6.5	7.6	6.9	5.5	4.1	3.8	4.3	63.6	41
Greatest amount	18.7	11.6	12.9	15.5	10.3	21.1	20.3	14.1	15.7	16.1	13.2	15.2	92.6	41
Least amount	0.6	0.4	0.8	0.3	0.0	0.2	1.6	0.9	0.3	0.0	0.3	0.5	28.5	41
Maximum amount (24 hours)	5.4	4.7	11.1	5.8	4.9	6.4	5.1	6.2	9.3	10.4	4.9	3.5	11.1	41
Mean number of days	12	10	11	8	8	12	15	14	11	6	8	12	127	34
<b>SNOW</b>														
Mean amount	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.2	41
Greatest amount	2.5	1.9	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	2.5	41
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41
Maximum amount (24 hours)	1.5	1.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	2.3	41
Mean number of days	Miss	Miss	Miss	0	0	0	0	0	0	0	0	Miss	1	34
<b>WIND</b>														
Percentage with gales	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.08	0.00	0.00	0.02	0.06	20
Mean wind speed (knots)	7.9	8.4	8.7	8.3	7.4	6.6	6.1	5.9	6.7	6.9	7.6	8.0	7.4	20
<b>Direction (percentage of observations)</b>														
North	12.0	11.1	8.6	7.2	6.6	4.9	5.3	6.7	10.5	11.8	12.3	12.8	9.2	20
North Northeast	6.2	5.8	5.5	4.4	4.3	3.5	4.0	6.0	9.9	10.0	8.4	7.8	6.3	20
Northeast	5.8	5.6	4.4	3.6	3.6	4.5	4.5	8.2	10.7	11.2	8.6	6.8	6.4	20
East Northeast	5.7	5.1	3.6	3.5	3.5	3.7	3.9	4.8	8.4	9.3	6.4	6.7	5.4	20
East	6.4	6.1	4.9	4.2	3.8	3.2	3.4	3.9	5.3	5.9	6.2	7.2	5.1	20
East Southeast	6.6	7.6	8.1	7.1	5.8	4.2	3.6	4.4	5.9	5.7	7.6	7.2	6.2	20
Southeast	5.9	5.6	8.5	10.5	9.8	5.6	4.5	4.9	5.8	5.6	5.2	4.7	6.4	20
South Southeast	6.3	5.3	7.9	10.1	10.6	7.4	6.0	5.5	5.3	4.5	3.8	4.5	6.5	20
South	4.0	4.6	6.6	7.4	10.1	9.2	7.8	5.5	4.2	2.9	3.5	3.5	5.8	20
South Southwest	2.4	3.9	4.5	5.8	7.1	10.1	9.2	6.1	3.2	2.2	2.9	2.2	4.9	20
Southwest	2.6	4.4	4.4	5.3	6.6	9.7	9.3	5.8	3.0	1.8	2.3	2.6	4.8	20
West Southwest	3.1	5.0	4.9	5.1	4.4	7.3	7.3	5.6	2.5	2.0	2.2	3.0	4.4	20
West	3.4	3.6	3.2	3.2	3.3	4.7	5.5	4.7	2.1	1.8	2.7	2.7	3.4	20
West Northwest	4.6	4.2	4.3	3.5	3.1	4.5	5.1	5.5	2.5	3.0	3.6	4.1	4.0	20
Northwest	7.2	6.7	6.7	5.3	4.6	4.8	5.4	6.0	4.3	5.7	6.4	7.3	5.9	20
North Northwest	12.3	10.6	9.4	8.3	6.6	4.9	6.5	7.4	8.8	10.2	12.6	11.6	9.1	20
Calm	5.5	4.8	4.7	5.6	6.0	7.7	8.8	8.8	7.7	6.4	5.3	5.4	6.4	20
<b>Direction (mean speed, knots)</b>														
North	8.6	8.8	8.5	8.1	6.5	5.9	5.5	5.5	6.9	7.3	8.2	8.4	7.7	20
North Northeast	7.4	7.3	7.8	7.1	6.4	5.8	5.5	6.0	7.5	7.0	7.3	7.2	7.0	20
Northeast	6.5	7.1	6.7	6.7	5.9	5.9	5.9	6.1	7.2	6.9	6.8	6.9	6.6	20
East Northeast	7.1	7.2	7.3	6.9	6.3	6.7	6.1	6.2	7.4	7.2	6.3	7.9	7.0	20
East	8.2	8.7	7.8	7.8	7.5	6.8	7.3	6.8	7.6	7.4	7.0	8.3	7.7	20
East Southeast	9.0	9.5	9.9	10.5	9.2	8.0	8.2	8.0	7.9	8.1	8.8	9.1	9.0	20
Southeast	8.7	9.7	10.3	10.3	9.3	8.5	8.0	7.9	8.3	8.3	8.4	8.9	9.1	20
South Southeast	9.0	9.2	10.6	9.8	9.1	8.4	7.8	8.1	7.8	7.5	8.1	9.4	8.9	20
South	8.5	8.9	10.1	9.2	9.0	8.7	7.6	8.2	7.7	7.7	8.5	8.6	8.7	20
South Southwest	8.7	8.8	9.0	8.6	8.6	7.9	7.4	7.2	7.3	6.8	8.4	9.1	8.1	20
Southwest	8.1	9.3	9.0	8.6	8.1	7.4	7.0	6.5	6.2	5.9	7.7	8.7	7.7	20
West Southwest	7.9	9.0	8.5	8.3	6.7	7.0	6.5	6.2	5.6	6.4	8.4	7.9	7.4	20
West	7.9	7.6	7.8	7.8	6.2	6.3	6.1	5.7	5.3	5.7	7.6	7.9	6.8	20
West Northwest	8.6	9.6	9.1	7.4	6.5	6.2	6.2	6.1	5.6	6.6	7.8	7.9	7.3	20
Northwest	8.8	9.6	9.8	8.3	6.4	6.0	5.9	5.5	6.7	8.2	8.8	9.1	7.9	20
North Northwest	9.4	9.7	9.6	8.8	7.6	6.1	5.6	5.6	7.0	8.0	9.2	9.5	8.3	20
<b>VISIBILITY</b>														
Mean number of days with fog	18	14	17	15	15	12	12	14	13	13	13	16	172	34

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
Miss or blank is a missing value

MOBILE, AL (30°41'N, 88°15'W) 223 feet (68 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1021.0	1019.6	1017.5	1016.8	1015.8	1015.6	1017.0	1016.3	1015.9	1017.9	1019.7	1020.8	1017.8	34
<b>TEMPERATURE (°F)</b>														
Mean	50.9	54.2	60.4	67.4	74.7	80.4	82.2	81.8	77.9	68.6	59.1	53.2	67.6	50
Mean daily maximum	60.7	64.2	70.5	77.7	84.6	89.7	90.9	90.6	86.8	79.2	69.6	63.0	77.4	50
Mean daily minimum	40.7	43.7	49.7	56.7	64.3	70.5	72.9	72.5	68.5	57.5	48.0	43.0	57.4	50
Extreme (highest)	84	84	89	94	100	102	104	102	99	93	87	81	104	50
Extreme (lowest)	3	11	21	32	43	49	62	59	42	30	22	8	3	50
<b>RELATIVE HUMIDITY</b>														
Average percentage	85.5	70.8	50.5	43.1	32.7	31.2	45.2	38.4	34.4	53.5	71.8	83.2	53.3	35
<b>CLOUD COVER</b>														
Percent of time clear	24.1	25.7	24.1	27.0	23.9	19.6	12.8	17.6	24.9	39.9	33.8	26.3	25.0	38
Percent of time scattered	11.6	12.7	14.2	17.0	21.3	25.5	24.8	27.0	22.2	18.6	15.4	12.6	18.6	38
Percent of time broken	12.9	14.0	15.3	19.2	24.3	29.0	31.9	29.2	23.3	15.8	14.7	13.3	20.3	38
Percent of time overcast	46.2	42.4	40.6	30.4	24.1	18.4	21.2	18.6	23.3	21.6	30.7	43.1	30.0	38
<b>PRECIPITATION (inches)</b>														
Mean amount	5.0	5.1	6.6	5.4	5.5	5.4	7.8	6.7	5.8	3.0	4.2	5.3	66.3	50
Greatest amount	16.0	11.8	13.4	17.6	15.0	13.0	19.2	15.1	14.0	13.2	13.6	11.3	86.5	50
Least amount	0.9	1.3	0.5	0.4	0.3	1.1	1.7	1.0	0.5	T	0.2	1.2	42.3	50
Maximum amount (24 hours)	4.9	5.3	7.1	13.3	7.9	6.0	10.0	5.6	8.2	4.9	7.0	4.6	13.3	50
Mean number of days	14	13	14	10	11	14	19	17	13	8	11	14	158	50
<b>SNOW</b>														
Mean amount	0.1	0.2	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1	0.5	48
Greatest amount	3.5	3.6	2.7	T	0.0	0.0	0.0	0.0	0.0	0.0	T	3.0	3.6	48
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48
Maximum amount (24 hours)	3.5	3.6	2.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	3.0	3.6	48
Mean number of days	1	Miss	Miss	Miss	0	0	0	0	0	0	Miss	Miss	1	50
<b>WIND</b>														
Percentage with gales	0.00	0.02	0.04	0.00	0.03	0.00	0.01	0.00	0.02	0.01	0.01	0.00	0.04	40
Mean wind speed (knots)	9.0	9.2	9.4	8.8	7.6	6.6	6.1	5.9	6.9	7.3	8.3	8.6	7.8	40
<b>Direction (percentage of observations)</b>														
North	12.8	11.1	9.5	7.4	6.7	4.9	4.9	6.6	9.7	12.6	13.5	12.0	9.3	40
North Northeast	7.3	7.0	5.7	5.0	4.9	4.0	3.4	5.8	9.8	10.3	8.6	8.5	6.7	40
Northeast	6.7	6.6	5.9	5.1	5.8	6.7	6.4	9.3	13.6	14.1	9.5	8.0	8.1	40
East Northeast	4.7	4.5	3.5	3.5	3.5	4.2	4.0	6.2	10.0	8.2	6.0	4.9	5.3	40
East	4.4	4.5	4.2	3.8	3.9	4.0	4.8	5.8	8.2	7.5	5.1	4.9	5.1	40
East Southeast	5.0	4.7	4.1	4.0	3.9	3.0	2.7	3.3	4.2	4.7	5.3	5.4	4.2	40
Southeast	8.2	7.7	8.9	10.3	8.1	6.0	5.2	4.9	5.8	5.9	8.1	8.3	7.3	40
South Southeast	6.6	6.3	8.3	10.8	9.0	6.5	4.5	4.2	4.4	4.1	6.6	6.4	6.5	40
South	6.8	7.4	10.3	11.6	12.8	11.1	9.1	6.6	5.3	4.3	5.9	6.3	8.1	40
South Southwest	4.5	6.1	7.3	7.0	8.5	8.8	7.6	5.3	3.7	2.5	3.3	4.2	5.7	40
Southwest	4.9	6.0	6.0	6.0	7.0	9.4	9.2	5.9	3.4	2.5	2.9	4.1	5.6	40
West Southwest	2.8	4.0	3.0	3.4	3.8	5.2	5.7	4.2	2.1	1.7	2.1	2.6	3.4	40
West	3.2	3.7	3.4	3.7	4.2	6.1	7.6	6.3	2.6	2.5	3.0	3.1	4.1	40
West Northwest	3.3	3.4	3.4	3.5	3.4	4.0	6.0	5.1	2.3	2.6	2.7	3.3	3.6	40
Northwest	7.4	6.8	6.4	5.7	5.2	5.1	6.2	6.2	3.8	4.8	6.5	6.8	5.9	40
North Northwest	7.9	6.9	6.5	5.4	4.0	3.3	3.5	4.2	3.7	5.3	6.3	7.2	5.3	40
Calm	3.4	3.2	3.5	3.9	5.3	7.8	9.2	10.0	7.3	6.2	4.6	4.0	5.7	40
<b>Direction (mean speed, knots)</b>														
North	11.2	11.0	10.8	10.1	8.8	7.2	6.7	6.8	8.3	9.3	10.6	10.5	9.7	40
North Northeast	9.4	9.1	9.1	8.8	7.8	6.8	6.2	6.5	8.1	8.1	8.6	9.0	8.3	40
Northeast	7.9	7.9	8.1	7.4	6.8	6.7	6.2	6.6	7.5	7.4	7.4	7.6	7.3	40
East Northeast	7.3	7.9	7.4	7.0	6.8	6.7	6.3	6.5	7.8	7.4	6.9	7.2	7.2	40
East	8.1	8.7	8.0	7.7	7.4	7.0	6.6	6.9	8.0	7.9	7.3	7.8	7.6	40
East Southeast	8.6	9.5	9.1	8.9	8.1	7.7	6.7	7.1	7.7	7.8	8.0	8.8	8.2	40
Southeast	9.1	9.6	10.0	9.7	8.5	7.2	7.0	6.9	7.7	8.2	8.5	9.3	8.7	40
South Southeast	9.0	9.3	9.8	9.7	8.5	7.3	6.6	7.0	7.1	7.5	9.1	9.1	8.6	40
South	9.4	9.9	10.6	9.8	8.9	7.8	7.1	6.9	7.1	7.2	9.4	9.3	8.7	40
South Southwest	10.2	10.7	11.2	10.4	9.2	8.2	7.5	7.0	7.0	7.4	10.0	9.8	9.1	40
Southwest	9.2	9.5	10.1	9.4	8.2	7.5	7.1	6.6	6.3	6.6	8.9	9.2	8.2	40
West Southwest	7.8	8.3	8.1	8.2	7.0	6.7	6.5	6.1	5.8	6.0	7.7	8.1	7.2	40
West	7.5	8.1	7.8	7.7	6.6	6.7	6.5	6.3	5.5	6.0	7.7	7.7	6.9	40
West Northwest	8.3	9.5	9.6	8.5	6.7	6.4	6.2	5.9	5.3	6.5	7.6	8.1	7.3	40
Northwest	9.4	10.3	10.1	9.1	7.5	6.7	6.3	5.9	5.8	7.2	8.9	8.9	8.2	40
North Northwest	10.9	10.7	11.1	9.4	8.2	6.9	6.4	6.0	7.0	8.4	9.6	10.3	9.2	40
<b>VISIBILITY</b>														
Mean number of days with fog	16	13	16	15	14	10	10	13	13	12	13	14	159	50

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
 Miss or blank is a missing value

NEW ORLEANS, LA (29°59'N, 90°15'W) 20 feet (6 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1020.9	1019.4	1017.3	1016.3	1015.4	1015.3	1016.8	1016.0	1015.5	1017.6	1019.5	1020.6	1017.5	48
<b>TEMPERATURE (°F)</b>														
Mean	52.8	55.7	61.9	68.6	75.4	80.6	82.4	82.1	78.7	69.9	60.8	55.2	68.7	50
Mean daily maximum	61.9	65.0	71.3	78.1	84.6	89.4	90.7	90.4	86.8	79.5	70.5	64.5	77.8	50
Mean daily minimum	43.3	45.9	51.8	58.5	65.6	71.2	73.5	73.2	70.0	59.7	50.6	45.4	59.1	50
Extreme (highest)	83	85	89	92	96	100	101	102	101	92	87	84	102	50
Extreme (lowest)	14	16	25	32	41	50	60	60	42	35	24	11	11	50
<b>RELATIVE HUMIDITY</b>														
Average percentage	76.0	74.0	72.9	73.6	74.7	76.4	79.1	79.1	77.7	74.7	75.7	76.7	75.9	50
<b>CLOUD COVER</b>														
Percent of time clear	22.6	24.7	23.4	24.8	23.3	20.4	12.8	17.5	25.2	38.3	31.5	25.3	24.1	48
Percent of time scattered	12.5	13.4	14.6	18.5	23.4	28.7	26.1	27.6	23.5	20.3	16.9	13.1	19.9	48
Percent of time broken	14.0	14.8	15.8	20.3	23.3	25.4	29.9	27.5	21.8	16.2	15.5	13.7	19.8	48
Percent of time overcast	45.3	41.6	39.9	29.4	23.6	18.9	22.7	19.7	23.3	20.4	30.3	42.1	29.8	48
<b>PRECIPITATION (inches)</b>														
Mean amount	5.1	5.4	5.2	4.8	4.8	5.6	6.6	5.8	5.2	2.7	4.5	5.2	61.3	50
Greatest amount	9.2	12.5	19.0	16.1	21.1	15.0	13.1	16.1	16.7	13.2	19.8	10.7	102.3	50
Least amount	0.5	0.1	0.2	0.2	0.9	0.2	1.9	1.6	0.2	0.0	0.2	1.4	39.0	50
Maximum amount (24 hours)	4.6	4.8	7.8	6.4	12.2	4.1	4.3	4.8	5.3	4.2	10.9	6.4	12.2	50
Mean number of days	14	13	13	11	11	14	19	17	13	8	11	13	157	50
<b>SNOW</b>														
Mean amount	0.0	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	48
Greatest amount	0.4	2.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	48
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48
Maximum amount (24 hours)	0.4	2.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.7	48
Mean number of days	Miss	Miss	Miss	0	0	0	0	0	0	0	0	Miss	1	50
<b>WIND</b>														
Percentage with gales	0.00	0.00	0.00	0.01	0.01	0.00	0.02	0.01	0.08	0.00	0.00	0.00	0.05	50
Mean wind speed (knots)	8.1	8.5	8.6	8.2	7.0	5.9	5.2	5.1	6.3	6.6	7.5	7.8	7.1	50
<b>Direction (percentage of observations)</b>														
North	9.5	8.8	6.6	5.6	5.0	4.0	3.8	5.0	6.2	8.8	9.1	8.8	6.8	50
North Northeast	8.4	7.8	5.9	5.0	5.1	4.1	3.4	5.3	8.3	9.4	8.9	8.0	6.6	50
Northeast	8.5	8.2	6.9	5.2	5.3	5.0	4.4	7.0	12.7	12.3	9.0	8.8	7.8	50
East Northeast	8.3	7.5	5.9	5.2	5.0	4.8	4.0	6.0	12.0	11.3	9.2	8.6	7.3	50
East	5.6	5.2	4.8	4.3	4.3	3.8	3.6	5.1	7.8	6.8	6.3	6.4	5.3	50
East Southeast	4.8	4.6	6.1	6.6	6.4	4.6	3.5	4.7	5.8	6.1	5.8	5.4	5.4	50
Southeast	5.3	5.4	8.1	9.8	8.7	5.9	4.1	4.1	5.2	5.2	6.0	5.8	6.1	50
South Southeast	7.1	7.0	8.9	12.3	10.7	7.7	5.0	4.5	4.3	4.3	6.3	7.1	7.1	50
South	7.3	7.4	9.9	12.3	11.4	9.9	8.1	5.7	4.4	3.3	6.0	6.9	7.7	50
South Southwest	4.6	5.9	6.4	6.2	7.6	9.7	8.3	5.8	2.9	1.7	3.4	4.0	5.5	50
Southwest	3.1	4.9	4.5	4.4	5.3	7.8	9.0	6.3	2.6	1.7	2.3	2.7	4.5	50
West Southwest	3.0	3.4	3.4	2.7	3.1	5.1	6.8	4.9	2.1	1.7	2.2	2.3	3.4	50
West	2.7	2.9	3.0	2.7	2.9	4.3	6.3	5.0	2.4	2.3	2.6	2.5	3.3	50
West Northwest	3.1	3.2	3.5	2.9	2.5	3.6	5.6	4.8	2.2	2.2	2.9	2.9	3.3	50
Northwest	4.8	4.9	4.6	3.1	2.8	3.1	4.4	4.4	2.6	3.1	3.9	4.5	3.9	50
North Northwest	7.7	7.3	5.7	4.4	4.1	3.6	3.9	4.3	4.0	5.7	7.0	7.5	5.4	50
Calm	6.3	5.6	5.8	7.3	9.7	13.0	15.8	17.1	14.6	14.2	9.3	7.5	10.6	50
<b>Direction (mean speed, knots)</b>														
North	10.1	9.8	9.7	8.9	7.7	6.5	5.9	6.3	7.7	8.6	9.7	9.4	8.7	50
North Northeast	9.4	9.3	9.3	9.0	7.9	6.9	6.5	7.1	8.1	8.6	9.0	8.9	8.5	50
Northeast	8.5	8.6	8.5	8.1	7.8	6.9	6.6	7.0	8.2	8.3	7.9	8.3	8.0	50
East Northeast	7.8	8.4	8.1	8.0	7.4	6.9	6.5	6.7	8.3	7.8	7.3	7.5	7.7	50
East	7.3	7.9	7.7	7.7	7.1	6.7	6.5	6.3	7.5	7.3	7.0	7.2	7.2	50
East Southeast	7.4	8.2	8.4	8.1	7.3	6.7	6.1	6.1	6.8	7.0	7.0	7.2	7.2	50
Southeast	7.6	8.3	8.7	8.7	7.9	6.9	6.4	6.3	6.8	7.3	7.6	8.0	7.7	50
South Southeast	8.6	9.4	9.8	10.0	9.0	7.8	7.1	6.8	7.6	8.0	9.4	9.1	8.8	50
South	8.7	9.4	10.1	10.0	9.0	7.7	6.5	6.5	7.2	7.4	8.8	8.8	8.6	50
South Southwest	8.8	9.2	9.5	8.8	7.8	6.8	6.4	5.9	6.3	6.9	8.0	8.6	7.7	50
Southwest	7.3	8.0	7.9	7.6	6.9	6.4	6.1	6.0	5.9	6.4	7.5	7.4	6.8	50
West Southwest	7.2	7.8	7.7	7.4	6.2	6.4	6.0	5.6	5.3	5.4	6.7	7.2	6.5	50
West	8.1	8.7	8.4	7.8	5.6	5.6	5.4	5.1	5.0	5.4	6.7	7.4	6.4	50
West Northwest	8.7	9.3	8.8	7.9	5.9	5.7	5.6	5.3	5.3	6.3	7.7	8.2	6.9	50
Northwest	9.8	9.8	10.0	9.1	6.8	5.8	5.9	5.7	5.7	7.3	9.3	9.4	8.1	50
North Northwest	10.4	10.2	10.4	9.5	8.0	6.2	6.3	6.1	7.0	8.4	9.8	10.0	8.9	50
<b>VISIBILITY</b>														
Mean number of days with fog	17	14	16	16	16	11	12	12	12	15	15	17	173	50

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
Miss or blank is a missing value

PORT ARTHUR, TX (29°57'N, 94°01'W) 13 feet (4 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1020.8	1019.2	1016.7	1015.4	1014.5	1014.6	1016.3	1015.7	1015.2	1017.5	1019.2	1020.2	1017.1	48
<b>TEMPERATURE (°F)</b>														
Mean	52.2	55.4	61.6	68.8	75.7	81.2	83.1	82.8	79.0	70.3	60.9	54.8	68.9	50
Mean daily maximum	61.3	64.9	71.3	77.9	84.3	89.7	91.8	91.7	88.0	80.7	70.9	64.2	78.1	50
Mean daily minimum	42.5	45.4	51.4	59.2	66.5	72.1	74.0	73.4	69.6	59.4	50.4	44.9	59.1	50
Extreme (highest)	81	85	87	94	97	100	103	107	100	95	88	84	107	50
Extreme (lowest)	14	13	23	32	46	56	61	60	45	30	22	12	12	50
<b>RELATIVE HUMIDITY</b>														
Average percentage	79.7	77.8	76.4	77.5	78.8	78.9	80.6	80.3	79.0	76.7	77.6	79.7	78.6	50
<b>CLOUD COVER</b>														
Percent of time clear	21.8	24.1	22.9	21.3	17.9	19.8	16.8	19.1	26.4	35.9	30.6	24.9	23.4	47
Percent of time scattered	10.8	11.5	12.3	13.6	21.8	32.1	30.8	30.4	25.1	21.0	15.0	11.3	19.7	47
Percent of time broken	12.6	13.6	14.8	19.5	26.4	27.1	29.6	29.0	23.4	17.9	16.0	13.4	20.3	47
Percent of time overcast	50.5	47.0	45.1	39.7	27.5	15.8	16.3	15.9	19.6	21.3	33.2	45.9	31.4	47
<b>PRECIPITATION (inches)</b>														
Mean amount	4.8	4.0	3.2	3.9	5.1	5.5	5.4	5.1	5.6	4.2	4.3	5.2	56.7	50
Greatest amount	4.8	13.1	10.2	15.3	13.1	18.9	18.7	17.2	21.9	15.0	10.8	17.9	81.5	50
Least amount	0.6	0.2	0.0	0.2	0.1	0.7	0.6	0.9	0.5	0.0	0.1	1.3	33.0	50
Maximum amount (24 hours)	4.3	9.4	4.2	10.0	9.8	8.7	8.6	8.3	12.0	7.9	5.7	8.0	12.0	50
Mean number of days	14	13	13	12	11	12	15	15	12	8	10	13	148	50
<b>SNOW</b>														
Mean amount	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.4	48
Greatest amount	3.0	4.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.7	4.4	48
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48
Maximum amount (24 hours)	3.0	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.7	3.5	48
Mean number of days	1	1	Miss	0	0	0	0	0	0	0	Miss	Miss	2	50
<b>WIND</b>														
Percentage with gales	0.01	0.02	0.01	0.00	0.00	0.04	0.00	0.00	0.01	0.02	0.03	0.02	0.06	50
Mean wind speed (knots)	9.3	9.7	10.0	10.0	8.8	7.5	6.4	6.1	7.1	7.6	8.7	9.0	8.3	50
<b>Direction (percentage of observations)</b>														
North	11.3	9.7	7.4	5.6	5.3	3.8	3.3	4.6	8.8	10.9	10.8	10.3	7.6	50
North Northeast	8.6	7.1	5.5	5.0	4.7	4.0	3.4	6.1	10.6	10.0	8.3	7.6	6.7	50
Northeast	7.2	6.5	5.1	4.8	4.6	4.9	4.3	7.2	12.5	9.5	7.7	7.1	6.8	50
East Northeast	6.3	6.6	4.4	4.1	4.3	3.9	3.4	5.8	9.1	7.0	6.4	6.4	5.6	50
East	7.3	6.6	5.2	4.7	4.3	4.1	3.8	5.4	7.7	7.8	7.3	8.6	6.1	50
East Southeast	7.6	6.8	8.5	7.7	6.5	4.5	3.6	5.1	6.4	8.2	8.1	8.4	6.8	50
Southeast	5.9	6.4	10.4	13.3	12.0	7.6	5.0	5.5	6.4	8.6	8.0	6.7	8.0	50
South Southeast	6.2	7.3	11.1	15.9	15.8	12.6	6.9	6.1	6.7	7.0	7.4	6.3	9.1	50
South	8.4	9.8	11.5	14.2	17.2	20.5	16.5	12.1	8.7	7.4	7.7	7.3	11.8	50
South Southwest	4.5	5.3	6.6	5.9	7.1	10.7	13.5	9.8	3.9	3.0	4.0	4.1	6.5	50
Southwest	3.5	4.6	3.7	2.9	3.4	5.8	9.6	6.7	2.2	1.8	2.6	3.1	4.2	50
West Southwest	2.4	3.0	2.4	1.9	2.0	2.9	5.6	4.7	1.6	1.5	1.8	2.2	2.7	50
West	2.5	2.7	2.4	2.1	1.8	2.3	4.7	3.9	1.7	1.6	1.9	2.6	2.5	50
West Northwest	3.8	3.9	3.6	3.0	2.2	2.4	3.6	3.2	1.9	2.4	3.4	3.6	3.1	50
Northwest	5.4	5.7	5.0	3.5	2.4	2.2	2.9	3.1	2.9	3.7	5.2	6.1	4.0	50
North Northwest	6.1	5.9	4.9	3.5	2.7	2.3	2.2	2.7	3.4	4.9	6.1	6.4	4.3	50
Calm	3.0	2.2	2.3	2.0	3.6	5.5	7.8	8.0	5.6	4.5	3.1	3.4	4.3	50
<b>Direction (mean speed, knots)</b>														
North	10.3	10.4	10.3	9.3	8.0	6.4	5.4	5.4	7.6	8.3	9.5	9.8	8.9	50
North Northeast	9.7	9.8	9.5	9.0	7.8	6.8	6.1	6.2	7.7	8.3	8.9	9.0	8.4	50
Northeast	8.9	8.9	9.1	8.4	7.7	6.9	6.2	6.4	7.5	7.3	7.9	8.2	7.7	50
East Northeast	9.1	9.5	9.2	8.9	8.1	7.1	6.9	6.9	8.0	7.5	8.1	8.3	8.1	50
East	9.0	9.4	9.3	9.2	8.2	7.7	6.9	7.0	7.9	7.9	8.3	8.7	8.3	50
East Southeast	9.0	9.7	10.2	10.3	9.5	8.1	7.2	7.3	8.0	8.4	8.6	9.1	8.9	50
Southeast	9.9	10.4	11.2	11.6	10.8	9.0	7.3	7.1	7.7	8.7	9.4	9.8	9.7	50
South Southeast	10.3	10.9	11.3	11.8	10.7	8.8	7.4	6.9	7.7	8.4	10.4	10.3	9.9	50
South	10.1	10.3	10.9	10.9	9.6	8.7	7.5	7.2	7.7	7.9	10.0	10.3	9.2	50
South Southwest	9.5	10.1	10.3	10.2	8.7	8.8	7.9	7.4	7.4	7.6	9.6	9.6	8.8	50
Southwest	8.6	8.8	8.3	8.4	7.1	7.3	7.0	6.3	6.2	6.7	8.2	8.7	7.5	50
West Southwest	7.6	8.1	8.3	7.3	6.3	6.4	6.4	6.0	5.6	5.8	7.2	7.7	6.8	50
West	8.0	8.3	8.7	7.9	6.9	6.5	6.2	5.9	5.5	5.9	7.5	7.7	7.0	50
West Northwest	9.4	9.6	9.8	9.1	7.1	6.0	6.1	5.9	5.9	6.9	8.0	8.6	7.9	50
Northwest	10.7	11.0	11.1	9.6	7.6	6.5	5.8	5.5	5.9	8.0	9.2	9.8	8.9	50
North Northwest	10.7	10.6	11.0	9.6	7.5	6.2	5.6	5.3	6.8	8.3	10.2	10.2	9.1	50
<b>VISIBILITY</b>														
Mean number of days with fog	18	16	18	15	14	10	9	12	15	16	15	17	175	50

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

## CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
Miss or blank is a missing value

GALVESTON, TX (29°18'N, 94°48'W) 7 feet (2 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>TEMPERATURE (°F)</b>														
Mean	53.9	56.0	62.0	69.3	76.1	81.6	83.6	83.7	80.4	73.3	63.7	57.3	70.1	51
Mean daily maximum	59.2	61.1	66.7	73.3	79.9	85.3	87.5	87.8	84.8	77.8	68.8	62.5	74.6	51
Mean daily minimum	48.2	50.5	56.8	64.8	71.9	77.3	79.3	79.1	75.6	68.2	58.1	51.6	65.2	51
Extreme (highest)	78	80	83	92	94	95	97	99	98	94	85	79	99	51
Extreme (lowest)	18	17	26	42	52	60	67	67	55	39	30	14	14	51
<b>PRECIPITATION (inches)</b>														
Mean amount	3.3	2.5	2.3	2.5	3.5	4.0	3.9	4.1	5.3	3.0	3.2	3.5	41.5	51
Greatest amount	10.7	8.3	9.4	10.4	11.0	14.7	18.7	15.2	15.4	9.3	10.8	9.4	63.9	51
Least amount	0.18	0.09	0.06	T	T	0.2	T	0.1	0.2	T	0.4	0.5	21.4	51
Maximum amount (24 hours)	4.1	6.2	8.0	5.09	7.14	10.4	13.6	10.8	6.9	6.6	7.5	6.3	13.6	51
<b>SNOW</b>														
Mean amount	0.1	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	51
Greatest amount	2.5	2.2	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.1	51
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51
Maximum amount (24 hours)	2.5	1.8	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.5	51
Mean number of days	Miss	Miss	0	0	0	0	0	0	0	0	0	Miss	1	14
<b>VISIBILITY</b>														
Mean number of days with fog	5	5	6	4	3	2	Miss	1	1	3	4	5	39	14

\* 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) amount of precipitation  
 Miss or blank is a missing value

HOUSTON, TX (29°58'N, 95°21'W) 121 feet (37 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1020.8	1019.5	1016.0	1014.8	1013.6	1014.2	1016.0	1015.4	1015.4	1017.3	1018.9	1020.1	1016.8	27
<b>TEMPERATURE (°F)</b>														
Mean	51.4	55.0	62.1	68.6	75.3	81.2	83.6	83.2	78.9	70.3	60.8	54.5	68.9	27
Mean daily maximum	61.2	65.6	72.7	78.9	84.9	90.7	93.6	93.3	88.8	81.5	71.6	64.8	79.2	27
Mean daily minimum	41.0	43.8	51.0	57.8	65.2	71.1	73.1	72.7	68.4	58.5	49.6	43.6	58.2	27
Extreme (highest)	84	91	91	95	97	103	104	107	102	96	89	85	107	27
Extreme (lowest)	12	20	22	31	44	52	62	60	48	29	19	7	7	27
<b>RELATIVE HUMIDITY</b>														
Average percentage	75.2	73.4	72.8	73.7	75.6	75.2	74.3	75.1	76.4	75.2	75.9	76.1	74.9	27
<b>CLOUD COVER</b>														
Percent of time clear	20.8	23.8	22.4	20.7	16.2	18.6	16.7	17.3	24.5	32.3	27.9	22.4	22.0	27
Percent of time scattered	11.2	11.3	11.8	13.7	18.3	27.4	30.6	31.0	25.4	19.2	14.2	11.1	18.9	27
Percent of time broken	10.9	12.8	13.8	18.5	25.5	28.9	31.3	30.9	24.8	19.0	15.5	13.4	20.5	27
Percent of time overcast	51.5	46.4	46.5	39.7	31.3	16.9	13.9	12.9	18.1	22.8	35.9	46.6	31.6	27
<b>PRECIPITATION (inches)</b>														
Mean amount	3.8	2.9	3.4	3.5	5.5	5.1	3.3	3.7	4.2	4.6	3.7	3.6	47.8	27
Greatest amount	9.7	5.9	8.5	10.9	14.3	16.2	8.1	9.4	11.3	16.0	8.9	9.3	70.1	27
Least amount	0.3	0.3	0.8	0.4	0.7	0.2	0.4	0.3	0.8	0.0	0.4	0.6	22.9	27
Maximum amount (24 hours)	2.5	2.2	7.4	8.1	6.1	10.	3.5	6.6	7.6	9.2	3.8	3.4	10.3	27
Mean number of days	15	12	14	12	13	11	12	13	12	10	12	13	149	27
<b>WIND</b>														
Percentage with gales	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	27
Mean wind speed (knots)	7.2	7.6	8.1	8.0	7.2	6.7	6.1	5.5	5.9	6.1	6.9	6.9	6.8	27
<b>Direction (percentage of observations)</b>														
North	12.3	10.4	7.6	6.2	5.8	3.8	3.0	3.4	8.3	9.0	10.0	11.1	7.6	27
North Northeast	8.7	5.4	5.0	4.4	4.7	3.7	2.9	4.8	8.7	7.5	6.9	7.4	5.8	27
Northeast	5.8	4.6	4.1	4.0	4.5	5.0	4.1	6.3	9.5	7.7	5.3	5.2	5.5	27
East Northeast	6.1	5.7	4.7	5.6	6.1	5.9	5.2	6.8	10.1	8.9	6.8	6.5	6.5	27
East	7.3	6.9	5.6	5.8	6.7	5.3	5.0	6.4	7.8	7.6	7.3	7.1	6.6	27
East Southeast	7.4	7.7	9.2	10.1	10.5	8.4	6.7	8.1	8.6	9.6	8.4	7.5	8.5	27
Southeast	5.2	7.1	12.0	17.0	17.1	13.5	9.9	9.5	9.5	10.2	7.6	7.2	10.5	27
South Southeast	4.1	6.5	9.6	11.6	10.9	11.4	9.5	7.0	5.4	5.8	6.0	5.6	7.8	27
South	5.3	7.4	9.0	9.5	9.5	12.3	13.1	9.6	5.4	4.9	6.1	5.5	8.1	27
South Southwest	3.3	3.7	4.2	3.0	3.5	6.0	9.6	6.2	2.6	2.2	3.4	3.4	4.3	27
Southwest	3.3	2.9	2.7	1.8	1.9	4.1	7.0	4.7	1.8	1.5	2.3	2.5	3.1	27
West Southwest	2.5	3.0	2.5	1.5	1.5	3.3	5.4	3.6	1.4	1.4	1.5	1.8	2.5	27
West	2.5	3.2	2.5	1.6	1.7	2.5	3.3	3.1	1.5	1.3	2.0	2.0	2.3	27
West Northwest	3.6	3.9	3.5	2.9	2.1	2.0	2.1	2.8	1.7	2.1	3.2	3.6	2.8	27
Northwest	5.6	5.5	4.5	3.8	2.8	2.0	1.7	2.2	2.5	2.9	5.0	5.7	3.7	27
North Northwest	9.0	8.3	6.9	4.7	4.1	2.0	1.7	2.0	4.1	6.0	8.3	9.0	5.5	27
Calm	8.3	7.4	6.3	6.4	6.8	8.6	9.9	13.6	11.3	11.6	9.7	8.8	9.1	27
<b>Direction (mean speed, knots)</b>														
North	7.8	8.2	7.8	7.1	6.0	5.4	4.6	4.6	6.3	6.6	7.4	7.7	7.0	27
North Northeast	7.1	7.2	7.6	7.6	6.5	6.0	5.3	5.1	6.3	6.4	7.1	6.9	6.7	27
Northeast	7.1	7.3	7.9	7.4	6.4	6.2	5.7	5.6	6.0	6.0	6.6	6.5	6.4	27
East Northeast	7.1	7.3	7.1	7.0	6.5	6.3	6.0	5.9	6.3	6.2	6.3	6.3	6.5	27
East	7.0	7.3	7.5	7.5	7.1	6.9	6.5	6.3	6.7	6.4	7.0	6.9	6.9	27
East Southeast	8.1	8.5	8.9	9.1	8.6	8.3	7.9	7.5	7.3	7.7	8.0	7.8	8.2	27
Southeast	8.9	9.1	9.5	9.6	8.8	8.6	8.1	7.6	7.6	7.8	8.9	8.5	8.6	27
South Southeast	8.4	9.0	9.7	9.5	8.9	8.5	7.7	7.2	7.3	8.0	8.9	8.7	8.6	27
South	8.0	8.5	9.1	8.9	8.2	8.1	7.3	6.6	7.0	7.4	8.3	8.1	8.0	27
South Southwest	8.6	9.3	8.5	9.3	7.9	7.7	6.8	6.3	7.3	7.3	8.5	8.7	7.8	27
Southwest	8.7	8.8	8.8	8.4	7.1	7.4	6.6	6.3	7.2	7.1	8.9	8.6	7.6	27
West Southwest	7.4	7.4	8.2	7.7	6.1	6.7	6.5	6.2	6.6	6.5	6.5	8.2	6.9	27
West	6.2	6.8	7.0	6.3	5.3	5.3	5.5	5.0	4.6	5.1	5.5	5.6	5.7	27
West Northwest	7.6	8.4	8.5	7.4	6.3	6.1	5.6	5.4	5.6	5.4	6.6	7.2	6.9	27
Northwest	8.7	9.4	9.8	9.3	7.5	6.2	5.3	5.2	6.6	7.7	8.1	8.1	8.1	27
North Northwest	8.6	9.0	9.1	8.3	7.4	6.3	5.2	5.3	6.8	7.6	8.0	8.2	8.0	27
<b>VISIBILITY</b>														
Mean number of days with fog	18	15	18	17	19	13	11	14	16	16	15	17	189	27

\* 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) amount of precipitation  
 Miss or blank is a missing value

CORPUS CHRISTI, TX (27°46'N, 97°30'W) 56 feet (17 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1020.0	1018.3	1015.4	1013.6	1012.7	1013.1	1015.1	1014.5	1014.0	1016.4	1018.2	1019.4	1015.9	48
<b>TEMPERATURE (°F)</b>														
Mean	56.4	59.8	65.8	72.4	78.0	82.5	84.5	84.6	81.3	74.3	65.4	59.2	72.1	50
Mean daily maximum	65.9	69.6	75.3	81.2	85.9	90.7	93.4	93.5	89.8	83.8	75.1	68.9	81.2	50
Mean daily minimum	46.4	49.5	55.8	63.2	69.6	73.8	75.1	75.2	72.3	64.3	55.3	49.1	62.5	50
Extreme (highest)	91	97	102	102	103	101	101	103	103	98	98	91	103	50
Extreme (lowest)	14	18	24	33	47	58	64	64	52	28	28	13	13	50
<b>RELATIVE HUMIDITY</b>														
Average percentage	77.4	76.7	74.6	76.9	79.3	77.6	74.8	74.6	76.0	74.8	75.1	76.1	76.1	49
<b>CLOUD COVER</b>														
Percent of time clear	22.2	25.3	21.3	17.5	13.7	17.2	23.7	23.3	23.1	32.6	30.0	24.6	22.9	47
Percent of time scattered	11.1	12.1	13.0	12.9	19.3	32.5	34.3	34.0	30.6	24.5	16.5	12.3	21.2	47
Percent of time broken	13.0	12.9	15.9	20.4	28.0	31.8	29.0	28.0	26.4	20.6	18.0	14.6	21.6	47
Percent of time overcast	49.2	44.9	44.1	42.5	30.5	12.5	7.7	9.1	14.2	17.4	30.2	42.8	28.6	47
<b>PRECIPITATION (inches)</b>														
Mean amount	1.6	1.8	1.2	2.1	3.1	3.1	1.8	3.2	5.2	3.4	1.5	1.6	30.2	50
Greatest amount	10.7	8.1	4.8	8.0	9.3	13.3	11.9	14.7	20.3	12.0	5.2	9.8	48.0	50
Least amount	0.0	T	T	T	T	0.0	0.0	0.1	0.4	0.0	T	0.0	14.6	50
Maximum amount (24 hours)	4.4	4.7	2.7	7.1	4.0	4.8	3.7	6.9	7.6	7.9	2.7	6.7	7.9	50
Mean number of days	13	11	11	10	10	9	7	9	12	9	9	12	122	50
<b>SNOW</b>														
Mean amount	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.1	48
Greatest amount	1.0	1.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	1.3	48
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48
Maximum amount (24 hours)	1.0	1.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	1.0	48
Mean number of days	1	Miss	Miss	0	0	0	0	0	0	0	Miss	Miss	1	50
<b>WIND</b>														
Percentage with gales	0.02	0.04	0.04	0.02	0.01	0.00	0.00	0.06	0.12	0.00	0.00	0.00	0.03	50
Mean wind speed (knots)	10.6	11.3	12.2	12.5	11.1	10.0	10.1	9.5	9.1	9.2	10.3	10.1	10.5	50
<b>Direction (percentage of observations)</b>														
North	12.1	9.8	7.1	4.4	3.3	1.7	0.7	1.8	6.5	8.2	11.1	12.3	6.6	50
North Northeast	13.5	11.0	7.8	5.6	4.0	1.8	1.0	2.1	8.2	10.3	11.9	11.9	7.4	50
Northeast	8.7	8.3	5.5	4.6	3.1	1.9	1.1	2.3	6.1	6.9	7.6	7.9	5.3	50
East Northeast	4.8	5.7	4.8	3.9	3.2	2.1	1.5	2.6	5.3	5.2	4.2	4.5	3.9	50
East	5.0	6.4	7.8	7.7	7.3	5.9	4.5	7.4	10.6	8.7	5.2	4.4	6.7	50
East Southeast	3.7	6.0	9.4	11.7	13.7	12.9	11.1	13.7	13.4	11.1	5.7	4.6	9.8	50
Southeast	7.5	11.7	18.0	24.2	29.8	30.5	29.2	24.7	17.1	16.6	12.3	9.0	19.3	50
South Southeast	13.9	15.4	19.0	22.2	22.2	25.5	29.2	21.6	10.6	11.9	14.7	13.0	18.3	50
South	6.5	5.7	5.8	5.1	4.8	7.4	12.3	10.5	6.0	4.8	6.5	6.8	6.9	50
South Southwest	2.4	2.2	1.7	1.6	1.0	1.9	2.9	3.2	2.1	1.7	2.4	2.6	2.1	50
Southwest	1.4	1.6	1.2	0.8	0.7	0.8	1.0	1.2	1.4	1.0	1.3	1.7	1.2	50
West Southwest	1.3	1.0	0.9	0.6	0.4	0.5	0.4	0.8	0.8	0.8	1.1	1.1	0.8	50
West	1.2	1.4	0.8	0.7	0.7	0.6	0.4	0.6	0.9	0.9	1.0	1.4	0.9	50
West Northwest	2.4	2.1	1.5	1.0	0.7	0.9	0.4	0.8	1.1	1.4	1.8	2.3	1.4	50
Northwest	4.8	3.9	2.9	1.9	1.1	0.9	0.4	1.0	2.0	2.4	3.9	4.9	2.5	50
North Northwest	8.1	6.0	4.4	2.6	1.7	1.0	0.4	1.1	3.5	4.5	7.0	8.4	4.0	50
Calm	2.6	1.7	1.4	1.5	2.3	3.7	3.6	4.6	4.5	3.9	2.4	3.1	3.0	50
<b>Direction (mean speed, knots)</b>														
North	11.7	12.3	12.4	12.1	10.4	8.2	6.2	6.4	9.1	9.9	11.4	11.2	11.0	50
North Northeast	11.5	11.9	12.4	12.1	10.7	8.7	7.5	7.7	10.0	10.1	11.3	11.0	11.0	50
Northeast	10.6	11.0	11.2	11.3	9.7	8.6	8.1	8.4	10.2	9.7	10.1	9.9	10.2	50
East Northeast	9.6	10.3	10.8	10.9	9.8	9.3	9.0	9.3	9.7	9.3	8.9	9.1	9.7	50
East	8.3	9.5	11.0	11.2	10.3	10.2	10.2	11.1	10.3	9.3	8.5	7.9	10.0	50
East Southeast	8.2	9.6	10.8	11.4	10.7	10.4	10.7	10.9	9.8	8.7	8.4	7.7	10.1	50
Southeast	10.6	11.7	12.8	13.5	12.1	11.2	11.4	11.0	9.7	9.8	10.5	10.3	11.4	50
South Southeast	12.9	14.0	15.0	15.0	13.2	11.5	11.0	10.6	10.2	11.3	12.7	12.9	12.5	50
South	11.2	11.2	12.3	12.0	10.3	8.8	9.1	9.1	8.7	9.5	11.0	11.5	10.2	50
South Southwest	9.3	9.5	9.4	9.6	7.7	8.1	8.2	7.8	7.5	7.4	9.1	9.0	8.6	50
Southwest	7.1	7.8	7.6	8.1	5.7	5.6	6.1	6.3	6.0	5.9	6.6	6.9	6.7	50
West Southwest	6.5	7.0	7.8	6.4	6.1	5.5	5.4	5.5	6.5	5.8	6.1	6.7	6.4	50
West	6.9	7.4	8.0	6.5	6.2	5.5	4.9	4.7	5.9	5.1	6.0	6.7	6.3	50
West Northwest	8.8	9.9	10.1	8.6	7.0	5.6	4.7	4.8	6.3	5.7	7.9	8.2	7.8	50
Northwest	10.5	12.1	12.4	10.5	7.4	6.4	5.1	5.4	7.7	7.9	10.0	10.2	9.9	50
North Northwest	11.6	12.3	13.3	12.0	9.9	7.0	5.8	5.6	8.4	10.0	11.1	11.4	11.0	50
<b>VISIBILITY</b>														
Mean number of days with fog	16	14	14	13	10	5	3	3	5	8	11	14	116	50

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
Miss or blank is a missing value

BROWNSVILLE, TX (25°54'N, 97°26'W) 20 feet (6 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1019.2	1017.5	1014.7	1012.9	1012.1	1012.6	1014.7	1014.1	1013.3	1015.7	1017.5	1018.7	1015.2	48
<b>TEMPERATURE (°F)</b>														
Mean	60.5	63.5	68.9	74.9	79.7	83.2	84.6	84.7	81.8	75.8	68.4	62.8	74.1	50
Mean daily maximum	69.6	72.8	77.9	83.2	87.4	91.0	93.0	93.3	90.1	84.8	77.6	72.0	82.8	50
Mean daily minimum	50.8	53.7	59.4	66.2	71.6	75.0	75.8	75.6	73.0	66.3	58.6	53.0	65.0	50
Extreme (highest)	93	94	106	102	102	102	101	102	99	96	97	94	106	50
Extreme (lowest)	19	22	32	38	52	60	67	63	55	35	31	16	16	50
<b>RELATIVE HUMIDITY</b>														
Average percentage	79.3	77.8	75.6	76.0	76.9	75.8	73.7	74.4	76.8	76.0	76.5	78.1	76.4	50
<b>CLOUD COVER</b>														
Percent of time clear	20.3	24.0	20.2	15.9	14.6	20.7	27.0	28.2	25.5	31.5	28.9	21.6	23.2	46
Percent of time scattered	11.7	11.9	13.4	14.9	22.4	32.8	33.5	32.4	28.6	26.6	18.8	14.5	21.8	46
Percent of time broken	14.5	15.0	17.7	21.4	28.6	29.1	26.3	24.9	25.1	20.3	17.9	16.0	21.4	46
Percent of time overcast	48.6	43.6	42.0	40.4	27.5	12.0	9.2	9.7	15.0	17.1	29.0	42.6	28.0	46
<b>PRECIPITATION (inches)</b>														
Mean amount	1.3	1.3	0.7	1.6	2.4	2.8	1.5	2.7	5.3	3.6	1.4	1.1	26.3	50
Greatest amount	4.7	10.2	5.9	10.3	9.1	8.5	9.4	9.5	20.1	17.1	7.6	3.9	47.5	50
Least amount	T	T	T	T	T	0.0	T	0.0	0.0	0.3	0.0	T	11.5	50
Maximum amount (24 hours)	2.2	4.2	2.5	9.1	3.4	7.5	3.7	5.4	12.0	9.0	4.0	2.5	12.0	50
Mean number of days	13	11	10	9	9	9	8	10	14	11	10	12	126	50
<b>SNOW</b>														
Mean amount	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	50
Greatest amount	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	50
Least amount	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
Maximum amount (24 hours)	T	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	T	50
Mean number of days	Miss	Miss	Miss	0	0	0	0	0	0	0	Miss	Miss	1	50
<b>WIND</b>														
Percentage with gales	0.00	0.01	0.03	0.02	0.00	0.02	0.00	0.04	0.05	0.00	0.00	0.00	0.04	50
Mean wind speed (knots)	9.7	10.4	11.5	11.9	11.2	10.2	9.9	8.8	8.1	8.3	9.2	9.2	9.8	50
<b>Direction (percentage of observations)</b>														
North	9.4	9.0	5.7	3.5	2.0	1.2	0.5	1.5	4.7	6.4	7.8	8.3	5.0	50
North Northeast	4.6	5.7	4.6	3.8	2.1	1.2	0.7	1.4	4.5	4.6	4.6	4.0	3.5	50
Northeast	3.7	4.9	5.7	4.7	3.4	2.2	1.2	3.1	6.5	6.5	4.2	3.4	4.1	50
East Northeast	2.7	4.3	4.7	4.8	4.3	3.5	1.7	3.8	6.4	5.8	3.4	2.6	4.0	50
East	2.4	4.5	5.3	6.0	5.9	5.7	3.8	6.1	7.4	6.0	3.5	2.7	4.9	50
East Southeast	4.4	6.3	8.8	10.6	13.5	13.3	10.0	12.3	11.2	9.6	5.7	4.5	9.2	50
Southeast	9.4	12.2	17.4	23.2	29.6	31.6	31.1	26.7	15.3	16.0	11.5	9.6	19.5	50
South Southeast	13.9	15.7	20.9	24.4	24.4	25.0	32.9	23.3	13.2	13.8	15.9	13.7	19.8	50
South	10.0	9.8	9.2	7.7	5.4	7.1	10.6	9.4	5.8	5.2	9.3	10.7	8.3	50
South Southwest	2.5	2.3	1.6	1.2	0.7	1.1	1.6	1.7	1.6	1.1	2.4	2.8	1.7	50
Southwest	1.1	1.1	0.9	0.6	0.4	0.6	0.4	0.6	0.9	0.7	1.2	1.3	0.8	50
West Southwest	1.1	1.1	0.7	0.4	0.3	0.3	0.2	0.5	0.8	0.7	0.9	1.1	0.7	50
West	1.1	1.0	0.7	0.4	0.3	0.4	0.1	0.4	0.8	0.8	1.1	1.4	0.7	50
West Northwest	2.8	1.9	1.3	0.8	0.8	0.5	0.3	0.5	1.5	1.7	2.3	2.7	1.4	50
Northwest	10.5	6.5	3.5	2.1	1.8	1.1	0.5	1.3	6.1	6.9	9.2	10.3	5.0	50
North Northwest	16.1	10.6	6.2	3.3	2.4	1.3	0.6	1.5	6.2	8.8	12.8	16.4	7.2	50
Calm	4.2	3.0	2.6	2.5	2.6	3.8	3.9	6.1	7.1	5.5	4.3	4.7	4.2	50
<b>Direction (mean speed, knots)</b>														
North	9.9	10.5	10.8	10.1	8.8	5.8	5.1	6.1	7.7	8.1	9.5	9.4	9.3	50
North Northeast	9.2	10.1	11.2	10.6	9.4	7.7	5.8	6.7	8.7	8.8	8.8	8.7	9.3	50
Northeast	7.7	9.1	10.1	9.9	8.9	8.5	7.1	8.2	9.4	8.7	7.9	7.7	8.8	50
East Northeast	6.7	7.9	8.9	9.1	8.5	8.0	7.2	8.3	8.3	7.7	7.2	6.8	8.0	50
East	7.3	8.3	9.5	9.9	9.0	9.1	8.8	8.8	8.3	7.7	6.8	6.7	8.5	50
East Southeast	7.7	9.3	10.2	10.8	10.3	9.9	9.5	9.2	8.4	7.9	7.6	7.6	9.3	50
Southeast	9.8	10.9	12.4	13.1	12.5	11.4	10.7	10.1	9.1	9.1	8.9	9.1	10.9	50
South Southeast	11.9	13.0	14.4	14.7	13.7	11.9	11.2	10.4	10.2	10.7	11.5	11.3	12.2	50
South	12.5	13.2	14.3	14.4	12.7	10.8	10.2	9.6	9.2	10.5	12.2	12.3	11.9	50
South Southwest	9.5	10.1	9.7	9.9	7.8	8.2	8.6	8.3	7.7	7.7	9.2	9.3	9.0	50
Southwest	5.9	6.9	6.4	7.4	6.5	6.8	5.4	5.5	5.7	6.2	6.2	5.9	6.2	50
West Southwest	5.8	5.4	6.2	5.3	6.2	6.6	5.2	5.8	6.6	5.2	5.8	5.4	5.8	50
West	6.0	6.4	6.9	6.7	5.9	6.2	4.9	4.9	6.7	5.5	5.9	6.2	6.1	50
West Northwest	7.4	7.9	7.9	7.2	6.7	6.2	4.6	4.7	7.3	6.9	7.2	7.5	7.2	50
Northwest	9.9	10.5	10.1	8.6	7.9	6.3	4.9	5.3	7.2	8.3	9.6	9.6	9.1	50
North Northwest	11.3	11.5	11.8	10.0	8.5	5.9	4.9	5.3	7.9	8.5	10.6	10.5	10.2	50
<b>VISIBILITY</b>														
Mean number of days with fog	17	14	13	12	10	4	3	4	6	8	12	15	118	50

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
 Miss or blank is a missing value

SAN JUAN, PR (18°26'N, 66°00'W) 7 feet (2 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1017.0	1017.0	1016.3	1015.3	1015.2	1016.6	1017.1	1015.7	1014.2	1013.4	1014.0	1015.9	1015.6	41
<b>TEMPERATURE (°F)</b>														
Mean	77.1	77.3	78.1	79.5	81.0	82.4	82.7	82.9	82.7	82.1	80.1	78.3	80.4	42
Mean daily maximum	83.2	83.6	84.6	85.8	87.1	88.5	88.4	88.8	88.8	88.4	86.0	84.0	86.4	42
Mean daily minimum	70.5	70.4	71.1	72.7	74.3	75.8	76.5	76.5	76.0	75.3	73.8	72.1	73.8	42
Extreme (highest)	92	96	96	97	96	97	95	97	97	98	96	94	98	42
Extreme (lowest)	61	62	60	64	66	69	69	70	69	67	66	63	60	42
<b>RELATIVE HUMIDITY</b>														
Average percentage	45.4	45.0	38.4	28.2	27.1	40.7	45.7	32.4	16.9	9.4	15.5	34.2	31.4	42
<b>CLOUD COVER</b>														
Percent of time clear	11.6	12.3	13.3	9.0	5.5	5.4	3.2	4.0	5.0	7.3	5.5	8.9	7.6	41
Percent of time scattered	44.3	42.1	42.3	40.3	29.9	35.0	38.4	41.2	36.5	37.5	40.4	40.9	39.1	41
Percent of time broken	31.6	32.2	30.2	34.3	34.8	36.2	39.2	36.5	36.9	35.3	37.3	35.2	35.0	41
Percent of time overcast	6.3	6.8	7.5	8.4	18.0	13.4	10.7	10.8	12.1	11.5	8.9	7.6	10.2	41
<b>PRECIPITATION (inches)</b>														
Mean amount	3.0	2.2	2.3	3.6	5.9	4.3	4.6	5.3	5.5	5.3	5.9	4.5	52.9	42
Greatest amount	7.6	6.6	5.4	10.3	14.9	10.9	9.3	11.3	15.1	15.0	15.9	16.8	74.5	42
Least amount	0.6	0.2	0.7	0.0	0.4	0.2	1.1	1.8	1.7	1.1	1.9	0.6	35.5	42
Maximum amount (24 hours)	4.9	2.7	3.1	7.1	4.5	3.5	2.9	4.0	8.8	4.3	7.0	6.9	8.8	42
Mean number of days	22	18	18	18	21	21	24	23	22	21	23	24	255	42
<b>WIND</b>														
Percentage with gales	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	0.05	42
Mean wind speed (knots)	7.3	7.6	7.9	7.7	7.3	7.9	8.4	7.7	6.5	5.8	6.5	7.0	7.3	42
<b>Direction (percentage of observations)</b>														
North	1.5	1.3	1.8	1.9	0.9	0.2	0.1	0.6	1.0	1.3	1.4	1.6	1.1	42
North Northeast	2.4	2.0	3.1	2.8	1.2	0.2	0.2	0.6	1.4	1.3	2.0	2.7	1.7	42
Northeast	6.2	6.2	7.4	7.9	4.6	2.3	3.1	4.1	3.9	4.3	6.7	7.3	5.3	42
East Northeast	19.4	20.7	21.4	22.6	20.0	21.3	28.2	24.0	18.1	13.4	17.3	20.6	20.6	42
East	17.5	16.9	16.6	15.1	16.6	22.5	24.6	20.2	13.8	11.2	13.7	15.0	17.0	42
East Southeast	13.3	13.8	12.9	12.7	17.2	21.4	20.4	18.0	14.4	12.6	11.4	11.1	14.9	42
Southeast	9.0	9.7	9.4	8.9	10.6	11.9	9.6	10.2	10.4	10.1	9.0	8.5	9.7	42
South Southeast	6.4	7.2	6.5	6.6	7.7	6.6	4.4	6.1	8.6	9.7	6.7	6.3	6.9	42
South	5.7	5.3	5.9	5.4	5.8	3.9	2.6	4.0	7.0	9.4	7.3	5.8	5.7	42
South Southwest	2.4	2.5	2.5	2.5	2.2	1.1	0.8	1.7	3.8	5.1	3.8	3.0	2.6	42
Southwest	1.8	1.6	1.6	1.5	1.3	0.5	0.3	0.6	2.1	3.2	3.0	2.0	1.6	42
West Southwest	1.0	1.2	1.0	1.2	0.9	0.3	0.3	0.4	1.3	1.8	1.9	1.2	1.0	42
West	0.4	0.5	0.5	0.6	0.5	0.2	0.1	0.2	0.8	0.7	0.7	0.6	0.5	42
West Northwest	0.4	0.4	0.4	0.4	0.4	0.1	0.1	0.2	0.5	0.4	0.6	0.4	0.3	42
Northwest	0.5	0.7	0.5	0.5	0.2	0.1	0.0	0.2	0.4	0.4	0.8	0.6	0.4	42
North Northwest	0.8	0.7	0.8	1.1	0.4	0.0	0.1	0.4	0.5	0.6	1.0	0.9	0.6	42
Calm	11.3	9.4	7.8	8.4	9.5	7.4	5.1	8.3	12.0	14.5	12.9	12.3	9.9	42
<b>Direction (mean speed, knots)</b>														
North	7.7	7.7	8.0	7.8	7.1	5.4	7.7	7.4	7.5	6.8	6.9	7.9	7.5	42
North Northeast	9.1	9.1	9.5	9.0	7.8	8.0	9.8	9.0	8.9	7.7	8.4	9.1	8.9	42
Northeast	10.2	10.3	10.3	10.5	10.1	11.3	11.8	10.7	9.8	9.0	9.7	10.3	10.2	42
East Northeast	11.1	11.4	11.7	11.5	11.4	11.9	11.9	11.6	10.9	10.1	10.3	10.7	11.3	42
East	10.0	10.0	10.0	9.5	9.1	9.3	9.4	9.3	8.8	8.6	8.9	9.5	9.4	42
East Southeast	7.4	7.1	7.0	6.6	6.4	6.9	6.8	6.7	6.4	6.6	6.9	7.0	6.8	42
Southeast	5.4	5.7	5.6	5.6	5.8	5.6	5.5	5.3	5.3	5.3	5.3	5.4	5.5	42
South Southeast	5.0	5.4	5.9	6.0	6.4	6.3	5.1	5.1	5.2	5.3	4.8	4.9	5.5	42
South	4.7	5.0	5.5	5.8	6.1	6.2	5.0	4.8	4.9	5.1	4.7	4.4	5.1	42
South Southwest	4.3	4.4	5.0	4.9	5.7	5.0	4.4	4.7	4.9	4.6	4.6	4.5	4.7	42
Southwest	4.5	4.3	4.4	4.9	4.7	4.8	4.3	4.2	4.8	4.6	4.8	4.5	4.6	42
West Southwest	4.5	5.3	4.9	5.2	4.8	4.7	4.6	5.5	5.4	4.8	5.0	4.6	5.0	42
West	4.8	5.1	5.5	5.5	4.9	4.5	4.4	6.0	6.3	5.0	5.3	4.9	5.3	42
West Northwest	5.8	7.9	6.2	5.1	5.0	6.7	4.6	6.4	7.8	5.1	6.5	5.6	6.2	42
Northwest	7.5	8.9	7.3	6.7	5.6	4.6	12.8	6.4	7.4	6.4	7.5	7.6	7.4	42
North Northwest	7.7	8.3	6.5	6.8	6.5	4.2	6.9	8.7	6.8	6.3	7.2	7.1	7.1	42
<b>VISIBILITY</b>														
Mean number of days with fog	Miss	1	Miss	Miss	1	1	1	1	1	1	1	1	9	42

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

CLIMATOLOGICAL TABLES

T = trace (not measurable) amount of precipitation  
 Miss or blank is a missing value

ST. CROIX, VI (17°42'N, 64°48'W) 16 feet (5 m)														
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEARS OF RECORD
<b>SEA LEVEL PRESSURE*</b>														
Mean (millibars)	1016.3	1016.6	1016.0	1015.3	1015.1	1016.1	1016.4	1014.9	1013.7	1013.3	1013.4	1015.0	1015.2	10
<b>TEMPERATURE (°F)</b>														
Mean	77.2	77.7	78.4	79.5	80.8	82.4	82.2	82.5	82.1	81.6	80.2	78.5	80.2	10
Mean daily maximum	83.4	84.0	84.8	85.7	86.7	88.1	88.0	88.5	88.3	87.9	86.4	84.6	86.3	10
Mean daily minimum	70.6	70.8	71.4	72.8	74.5	76.2	75.9	75.9	75.4	75.0	73.5	71.8	73.6	10
Extreme (highest)	88	89	90	93	92	92	91	92	93	93	93	90	93	10
Extreme (lowest)	61	64	65	63	68	67	68	70	67	67	65	61	61	10
<b>RELATIVE HUMIDITY</b>														
Average percentage	37.8	41.3	35.3	27.8	26.4	35.8	38.8	24.0	11.6	8.5	8.7	25.4	26.9	10
<b>CLOUD COVER</b>														
Percent of time clear	18.2	15.3	17.7	10.5	5.1	3.7	6.0	6.6	5.3	7.0	10.8	10.3	9.7	10
Percent of time scattered	44.8	48.6	49.4	45.3	37.6	34.8	39.9	43.9	36.0	40.4	47.0	44.8	42.7	10
Percent of time broken	26.0	23.0	22.3	28.7	31.2	34.2	29.6	31.8	31.9	28.9	28.7	30.4	28.8	10
Percent of time overcast	6.3	9.0	7.1	10.5	19.9	19.0	18.4	12.5	18.6	18.5	7.9	9.6	13.1	10
<b>PRECIPITATION (inches)</b>														
Mean amount	2.4	1.6	1.4	3.1	3.4	2.7	4.3	4.7	4.9	4.6	3.8	3.8	41.3	10
Greatest amount	7.3	3.5	2.4	5.1	7.3	4.7	7.6	6.9	9.0	11.7	7.1	14.0	54.9	10
Least amount	0.6	0.7	0.5	1.6	0.8	0.8	1.4	3.4	2.1	1.0	1.0	0.7	31.3	10
Maximum amount (24 hours)	4.4	1.0	1.3	1.8	2.9	2.1	3.7	3.6	3.1	4.0	2.9	8.0	8.0	10
Mean number of days	20	14	17	18	15	13	21	19	21	16	20	18	212	2
<b>WIND</b>														
Percentage with gales	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00	0.00	0.00	0.01	10
Mean wind speed (knots)	7.6	8.2	8.2	8.5	8.9	10.5	9.9	9.1	7.3	7.1	6.5	7.2	8.2	10
<b>Direction (percentage of observations)</b>														
North	2.8	2.7	1.9	1.1	0.8	0.2	0.2	0.7	1.9	2.9	4.3	2.4	1.8	10
North Northeast	6.4	4.2	2.6	1.8	1.5	0.8	0.5	1.9	3.1	4.2	5.8	4.9	3.1	10
Northeast	20.5	14.8	12.7	10.0	9.9	6.1	9.0	15.6	13.7	16.3	22.5	20.8	14.2	10
East Northeast	36.2	36.4	33.2	27.7	23.4	29.5	41.9	34.0	25.0	22.8	29.6	40.3	31.6	10
East	8.2	11.5	12.5	15.5	15.8	22.9	19.3	12.6	11.4	11.5	9.8	9.4	13.4	10
East Southeast	12.0	16.3	16.9	24.9	27.9	30.8	24.4	21.5	20.2	20.0	12.4	11.3	19.9	10
Southeast	2.8	5.4	8.8	7.3	11.0	6.5	2.7	5.9	8.1	7.9	2.5	2.7	6.0	10
South Southeast	0.7	2.0	2.1	4.1	2.7	1.5	0.6	1.9	3.8	4.0	1.2	0.8	2.1	10
South	0.5	0.3	0.7	0.9	0.9	0.1	0.1	0.8	1.3	0.5	1.3	0.3	0.6	10
South Southwest	0.7	0.2	0.1	0.2	0.5	0.0	0.0	0.7	0.5	0.3	0.6	0.1	0.3	10
Southwest	0.5	0.0	0.1	0.1	0.1	11.8	9.8	0.2	0.3	0.2	0.9	0.0	2.0	10
West Southwest	0.3	11.8	0.0	11.4	10.4	11.8	9.9	0.2	0.1	0.1	0.4	0.0	4.7	10
West	0.3	11.8	9.1	0.0	0.1	0.0	9.9	0.2	0.3	0.1	0.3	0.1	2.7	10
West Northwest	0.4	0.1	0.0	0.0	10.4	11.9	9.9	0.3	0.3	9.8	0.2	0.0	3.7	10
Northwest	0.4	0.1	0.2	0.2	0.1	12.0	9.9	0.1	0.5	0.0	0.5	0.2	2.0	10
North Northwest	1.2	0.5	0.6	0.1	0.1	12.0	0.0	0.4	0.5	0.2	0.5	0.4	1.3	10
Calm	6.2	5.6	7.5	6.2	5.2	1.5	1.3	3.0	9.2	9.1	7.2	6.3	5.7	10
<b>Direction (mean speed, knots)</b>														
North	5.1	4.6	5.5	4.0	4.1	4.3	6.5	4.4	5.1	4.6	4.5	5.4	4.8	10
North Northeast	5.7	5.9	5.7	5.6	4.6	5.3	5.0	5.4	4.8	4.6	4.5	5.4	5.2	10
Northeast	6.3	5.9	5.9	5.2	5.2	5.7	6.0	6.1	5.5	5.4	5.5	6.2	5.8	10
East Northeast	8.5	8.4	8.4	7.3	7.3	8.7	8.5	8.2	6.7	6.9	6.9	7.9	7.9	10
East	9.9	10.9	10.8	10.3	10.8	11.8	11.1	11.3	9.0	9.5	9.0	8.5	10.5	10
East Southeast	11.3	11.6	11.6	12.0	11.6	12.7	13.3	12.4	10.6	10.5	10.1	9.9	11.7	10
Southeast	9.9	9.5	9.0	9.6	10.7	11.8	12.2	10.4	9.4	9.0	7.0	8.9	9.9	10
South Southeast	7.7	8.6	7.3	9.3	9.8	10.6	12.6	11.1	10.6	8.6	7.4	9.4	9.4	10
South	7.5	6.8	6.4	7.3	8.9	7.0	9.5	11.4	10.4	7.2	6.6	7.7	8.2	10
South Southwest	7.4	6.5	7.7	9.2	7.6	20.0	6.0	9.1	8.1	5.7	8.5	4.5	8.0	10
Southwest	6.7	1.0	8.5	6.5	8.2	1.0	1.0	9.6	10.5	7.5	11.8	4.0	1.8	10
West Southwest	6.8	1.0	3.0	1.0	1.0	1.0	1.0	14.5	3.0	8.0	11.3	2.0	1.2	10
West	4.9	1.0	1.0	10.0	2.5	16.0	1.0	7.2	6.0	4.3	5.9	4.7	1.2	10
West Northwest	3.0	4.0	5.0	6.0	1.0	1.0	1.0	6.2	8.4	1.0	5.8	5.0	1.1	10
Northwest	4.8	8.0	5.2	5.0	3.5	1.0	1.0	8.5	5.8	8.0	5.3	8.5	1.4	10
North Northwest	5.6	8.5	9.8	2.5	4.7	1.0	3.0	7.0	5.0	4.8	5.7	5.0	2.5	10
<b>VISIBILITY</b>														
Mean number of days with fog	0	0	0	1	0	0	0	0	0	0	0	Miss	1	2

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

COASTAL AREA OFF KEY WEST, FL Between 23°N to 25°N and 79°W to 83°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	0.5	0.5	0.3	0.2	0.1	0.3	0.1	0.2	0.5	0.6	0.5	0.5	0.3
Wave Height > 9 feet <sup>1</sup>	2.0	2.0	1.9	1.7	1.1	0.8	0.4	0.7	0.7	2.4	2.5	1.9	1.5
Visibility < 2 nautical miles <sup>1</sup>	0.4	0.4	0.3	0.2	0.3	0.5	0.2	0.4	0.4	0.7	0.3	0.4	0.4
Precipitation <sup>1</sup>	2.8	2.6	1.8	1.4	2.5	3.7	2.3	2.9	3.9	4.6	2.9	2.6	2.8
Temperature > 69° F	70.1	69.7	81.9	95.2	99.7	99.9	99.9	100.0	99.9	99.3	93.3	77.1	90.9
Mean Temperature (°F)	72.2	72.4	74.3	76.8	79.7	82.8	83.7	84.0	83.2	80.5	76.9	73.5	78.5
Temperature < 33° F <sup>1</sup>	0	0	0	0	0	0	0	0	0	0	0	0	0
Mean RH (%)	78	78	78	77	78	79	77	77	79	78	77	77	78
Overcast or Obscured <sup>1</sup>	12.8	11.7	9.8	7.2	9.4	12.9	6.8	7.1	10.1	12.4	10.4	12.3	10.2
Mean Cloud Cover (8 <sup>ths</sup> )	3.8	3.7	3.5	3.4	3.7	4.2	4.0	4.0	4.3	4.3	4.0	4.0	3.9
Mean SLP (mbs)	1019	1018	1017	1017	1015	1016	1017	1016	1014	1014	1017	1019	1017
Ext. Max. SLP (mbs)	1038	1036	1035	1035	1031	1032	1030	1029	1030	1031	1034	1037	1038
Ext. Min. SLP (mbs)	997	1000	997	998	1000	997	1004	1002	996	991	1000	1000	991
Prevailing Wind Direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Thunder and Lightning <sup>1</sup>	0.5	0.7	0.5	0.6	2.0	3.0	4.8	5.0	5.9	3.2	1.2	0.6	2.4

COASTAL AREA OFF FORT MYERS, FL Between 25°N to 27°N and 81.5°W to 85°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	0.7	0.6	0.5	0.1	0.0	0.2	0.0	0.2	0.5	0.5	0.5	0.3	0.3
Wave Height > 9 feet <sup>1</sup>	3.1	2.7	2.8	1.6	0.5	0.7	0.3	0.7	1.4	2.7	3.1	2.5	1.8
Visibility < 2 nautical miles <sup>1</sup>	0.5	0.8	0.6	0.5	0.3	0.5	0.2	0.4	0.5	0.2	0.2	0.2	0.4
Precipitation <sup>1</sup>	3.5	3.0	2.5	1.7	1.9	2.9	2.3	3.2	4.0	3.1	2.3	2.2	2.7
Temperature > 69° F	51.6	51.5	65.7	87.3	99.2	100.0	100.0	100.0	100.0	98.7	86.8	62.6	84.0
Mean Temperature (°F)	70.1	70.2	72.1	75.1	78.9	82.1	83.8	84.0	83.0	79.6	75.2	71.6	77.3
Temperature < 33° F <sup>1</sup>	0.0	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 RH (%)	78	78	79	79	79	79	77	77	79	77	77	77	78
Overcast or Obscured <sup>1</sup>	17.8	15.8	13.8	10.2	9.0	10.3	7.3	7.6	11.8	11.1	11.7	14.2	11.7
Mean Cloud Cover (8 <sup>ths</sup> )	4.2	4.0	3.8	3.4	3.4	3.8	3.9	4.0	4.4	4.0	3.9	4.1	3.9
Mean SLP (mbs)	1019	1018	1017	1017	1016	1016	1018	1016	1015	1015	1017	1019	1017
Ext. Max. SLP (mbs)	1040	1037	1037	1032	1029	1030	1030	1030	1033	1029	1035	1040	1040
Ext. Min. SLP (mbs)	995	992	993	1000	1000	999	1004	1001	997	997	996	999	992
Prevailing Wind Direction	E	E	SE	E	E	E	E	E	E	NE	E	E	E
Thunder and Lightning <sup>1</sup>	1.1	1.0	1.1	0.8	1.5	2.8	4.1	5.1	4.5	2.4	1.0	0.9	2.2

COASTAL AREA OFF APALACHICOLA, FL Between 27°N to 30°N and 82.5°W to 86°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	1.1	1.2	0.6	0.1	0.1	0.1	0.2	0.2	1.1	0.6	0.8	1.0	0.5
Wave Height > 9 feet <sup>1</sup>	5.0	3.5	2.3	0.8	0.1	0.4	0.8	0.3	2.0	2.3	3.0	3.1	1.8
Visibility < 2 nautical miles <sup>1</sup>	3.4	1.8	3.6	1.1	1.0	0.2	1.0	1.0	1.3	0.4	0.6	2.0	1.4
Precipitation <sup>1</sup>	4.8	3.6	3.0	1.4	1.8	3.9	4.3	4.5	5.7	3.1	3.1	3.6	3.6
Temperature > 69° F	23.8	25.3	37.9	70.3	94.5	100.0	99.9	99.7	99.5	93.3	66.9	33.7	74.0
Mean Temperature (°F)	63.2	65.5	68.1	72.5	77.1	81.1	83.4	83.2	82.1	77.4	71.8	66.1	75.2
Temperature < 33° F <sup>1</sup>	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean RH (%)	78	78	80	79	79	80	77	78	79	75	76	76	78
Overcast or Obscured <sup>1</sup>	23.6	22.7	18.4	16.2	8.2	15.7	10.7	11.8	15.9	13.1	15.3	18.0	15.5
Mean Cloud Cover (8 <sup>ths</sup> )	4.5	4.4	4.0	3.6	3.4	4.2	4.2	4.2	4.5	3.9	4.0	4.2	4.1
Mean SLP (mbs)	1020	1019	1018	1017	1016	1016	1018	1016	1015	1016	1018	1020	1017
Ext. Max. SLP (mbs)	1040	1043	1033	1032	1030	1027	1032	1027	1027	1031	1030	1037	1043
Ext. Min. SLP (mbs)	992	1000	1000	998	1000	999	1004	1001	997	997	995	1000	992
Prevailing Wind Direction	N	E	SE	SE	E	E	SW	E	E	NE	NE	E	E
Thunder and Lightning <sup>1</sup>	1.7	1.6	1.6	0.7	1.2	3.8	5.4	5.5	6.4	1.4	0.6	0.9	2.7

<sup>1</sup> Percentage Frequency

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

COASTAL AREA OFF PENSACOLA, FL Between 27°N to 31°N and 86°W to 89°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	1.3	1.2	0.7	0.4	0.1	0.2	0.2	0.2	0.8	0.8	0.8	0.8	0.6
Wave Height > 9 feet <sup>1</sup>	4.5	3.8	3.4	1.8	0.7	0.5	0.5	0.7	3.0	2.9	3.3	3.3	2.3
Visibility < 2 nautical miles <sup>1</sup>	1.7	1.4	2.2	1.0	0.7	0.4	0.5	0.6	0.7	0.5	0.5	0.8	0.9
Precipitation <sup>1</sup>	5.0	4.9	3.9	2.8	2.8	3.0	4.0	4.1	4.9	3.9	3.6	4.0	3.9
Temperature > 69° F	26.8	25.9	36.8	64.3	95.2	99.8	99.9	99.9	98.9	89.4	60.4	37.0	71.8
Mean Temperature (°F)	64.6	64.9	67.6	71.8	77.1	81.5	83.4	83.4	81.5	76.6	70.8	66.5	74.7
Temperature < 33° F <sup>1</sup>	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean RH (%)	77	77	78	78	79	78	77	77	78	74	75	75	77
Overcast or Obscured <sup>1</sup>	27.2	25.5	22.1	15.6	12.4	10.1	11.4	11.5	16.5	13.8	17.5	22.0	16.8
Mean Cloud Cover (8 <sup>ths</sup> )	4.8	4.6	4.3	3.7	3.6	3.7	4.1	4.2	4.4	3.9	4.1	4.6	4.2
Mean SLP (mbs)	1020	1019	1017	1017	1016	1016	1017	1016	1015	1016	1019	1020	1017
Ext. Max. SLP (mbs)	1042	1042	1040	1033	1034	1030	1031	1031	1026	1036	1033	1037	1042
Ext. Min. SLP (mbs)	996	989	991	995	999	1000	997	1002	993	989	995	995	989
Prevailing Wind Direction	N	SE	SE	SE	SE	SE	SE	E	E	E	E	E	E
Thunder and Lightning <sup>1</sup>	1.0	1.2	1.4	1.4	1.6	2.7	3.6	4.0	3.2	1.2	0.9	0.9	2.0

COASTAL AREA OFF NEW ORLEANS, LA Between 27°N to 31°N and 89°W to 92°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	1.4	1.0	0.9	0.5	0.1	0.1	0.1	0.4	0.9	0.8	1.0	0.8	0.6
Wave Height > 9 feet <sup>1</sup>	4.9	4.8	3.5	1.9	0.8	0.7	0.3	1.0	2.5	2.9	3.3	3.9	2.4
Visibility < 2 nautical miles <sup>1</sup>	1.3	1.3	1.4	0.9	0.5	0.3	0.4	0.4	0.5	0.5	0.4	0.7	0.7
Precipitation <sup>1</sup>	4.1	4.6	3.1	2.1	1.9	2.3	3.2	3.5	4.3	3.0	3.6	3.9	3.3
Temperature > 69° F	26.6	28.0	40.4	70.0	96.2	99.9	100.0	100.0	99.7	90.6	62.1	38.1	72.6
Mean Temperature (°F)	64.3	65.7	68.2	72.5	77.5	82.0	83.9	83.9	82.3	77.2	71.2	66.8	75.1
Temperature < 33° F <sup>1</sup>	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean RH (%)	78	78	79	80	80	79	77	76	78	74	75	77	78
Overcast or Obscured <sup>1</sup>	28.5	27.6	24.0	18.5	12.1	8.4	9.1	10.4	14.7	12.9	19.6	24.0	17.1
Mean Cloud Cover (8 <sup>ths</sup> )	4.8	4.7	4.4	3.9	3.6	3.6	3.9	4.0	4.3	3.8	4.3	4.7	4.2
Mean SLP (mbs)	1020	1018	1017	1016	1015	1016	1017	1016	1015	1017	1019	1020	1017
Ext. Max. SLP (mbs)	1039	1041	1035	1033	1030	1032	1032	1031	1029	1036	1037	1044	1044
Ext. Min. SLP (mbs)	992	990	993	998	996	999	1002	1001	994	994	998	996	990
Prevailing Wind Direction	N	SE	SE	SE	SE	SE	SE	SE	E	E	E	N	SE
Thunder and Lightning <sup>1</sup>	0.8	1.1	1.1	1.1	1.2	2.0	2.9	3.2	2.4	1.2	1.0	0.8	1.6

COASTAL AREA OFF GALVESTON, TX Between 27°N to 30°N and 92°W to 96°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	1.6	1.6	1.0	0.4	0.2	0.1	0.1	0.4	0.8	0.9	1.0	1.1	0.7
Wave Height > 9 feet <sup>1</sup>	5.4	5.0	3.4	2.4	1.2	1.2	0.3	0.8	2.3	3.6	3.7	4.0	2.6
Visibility < 2 nautical miles <sup>1</sup>	2.7	2.8	3.3	1.9	0.6	0.5	0.5	0.4	0.5	0.5	0.8	2.0	1.3
Precipitation <sup>1</sup>	4.5	4.9	2.6	2.3	2.0	2.3	2.6	3.1	4.2	3.4	3.7	4.6	3.3
Temperature > 69° F	17.3	16.9	26.7	61.4	94.9	99.9	99.9	99.9	99.3	86.3	55.2	27.8	68.2
Mean Temperature (°F)	61.9	63.4	66.3	71.3	76.8	81.9	84.0	84.0	82.0	76.3	69.8	64.5	74.2
Temperature < 33° F <sup>1</sup>	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean RH (%)	79	79	80	82	82	80	78	77	77	75	76	77	78
Overcast or Obscured <sup>1</sup>	33.9	32.6	30.7	24.0	16.0	8.5	9.2	9.8	14.9	15.0	21.8	30.2	19.7
Mean Cloud Cover (8 <sup>ths</sup> )	4.9	4.8	4.8	4.4	4.0	3.6	3.8	4.0	4.2	3.8	4.2	4.7	4.2
Mean SLP (mbs)	1020	1019	1017	1016	1015	1015	1017	1016	1015	1017	1019	1020	1017
Ext. Max. SLP (mbs)	1041	1042	1035	1038	1031	1030	1032	1030	1030	1037	1041	1041	1042
Ext. Min. SLP (mbs)	999	990	998	989	997	992	1001	1001	987	994	994	990	987
Prevailing Wind Direction	N	SE	SE	SE	SE	SE	S	SE	E	E	SE	SE	SE
Thunder and Lightning <sup>1</sup>	0.5	1.0	0.8	1.0	1.5	1.6	2.2	2.4	2.6	1.2	1.3	0.9	1.5

<sup>1</sup> Percentage Frequency

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

COASTAL AREA OFF CORPUS CHRISTI, TX Between 26°N to 29°N and 95°W to 98°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	1.6	2.0	0.8	0.4	0.3	0.1	0.0	0.1	0.6	0.8	1.5	1.5	0.7
Wave Height > 9 feet <sup>1</sup>	3.8	4.2	2.7	1.8	1.0	0.7	0.4	0.1	1.1	1.8	3.8	4.2	1.9
Visibility < 2 nautical miles <sup>1</sup>	4.3	2.4	3.5	3.3	1.1	0.6	0.3	0.2	0.5	0.3	0.8	1.9	1.5
Precipitation <sup>1</sup>	6.1	4.4	2.8	2.3	2.3	2.6	1.5	3.0	3.9	2.4	3.2	5.7	3.3
Temperature > 69° F	20.0	22.0	30.0	69.8	95.9	99.9	100.0	100.0	99.4	91.1	64.6	34.7	72.5
Mean Temperature (°F)	62.4	64.7	67.3	72.1	77.1	82.2	83.6	83.7	82.3	77.2	71.1	65.7	74.9
Temperature < 33° F <sup>1</sup>	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Mean RH (%)	80	78	81	83	84	81	79	79	77	75	78	78	79
Overcast or Obscured <sup>1</sup>	42.5	32.3	35.4	27.6	17.5	8.3	6.2	8.5	11.8	12.3	24.8	35.7	20.6
Mean Cloud Cover (8 <sup>ths</sup> )	5.5	4.8	5.1	4.8	4.3	3.6	3.5	3.9	4.0	3.7	4.5	5.2	4.3
Mean SLP (mbs)	1020	1018	1016	1014	1013	1014	1016	1015	1014	1017	1018	1019	1016
Ext. Max. SLP (mbs)	1040	1041	1036	1034	1031	1027	1025	1029	1027	1033	1041	1040	1041
Ext. Min. SLP (mbs)	999	1000	990	991	990	1001	1001	1001	992	997	994	998	990
Prevailing Wind Direction	N	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	N	SE
Thunder and Lightning <sup>1</sup>	0.8	0.6	0.8	1.1	2.3	2.1	1.2	2.4	2.8	1.1	1.6	1.0	1.5

COASTAL AREA OFF MONA PASSAGE, PR Between 17°N to 19°N and 67°W to 69°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.1
Wave Height > 9 feet <sup>1</sup>	2.2	2.1	1.9	1.4	0.7	1.2	1.9	1.7	1.5	1.0	2.1	2.7	1.7
Visibility < 2 nautical miles <sup>1</sup>	0.2	0.2	0.2	0.2	0.4	0.3	0.4	0.3	0.6	0.5	0.3	0.2	0.3
Precipitation <sup>1</sup>	2.6	3.2	2.2	2.1	4.6	3.3	3.7	3.1	4.2	4.2	4.4	3.8	3.4
Temperature > 69° F	99.8	99.7	99.8	99.8	99.9	100.0	100.0	100.0	99.9	100.0	99.9	99.9	99.9
Mean Temperature (°F)	78.1	77.6	78.0	79.0	80.5	81.8	82.2	82.8	82.8	82.4	81.2	79.4	80.5
Temperature < 33° F <sup>1</sup>	0.0	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 RH (%)	78	78	78	78	81	81	80	80	80	80	78	78	79
Overcast or Obscured <sup>1</sup>	4.6	5.2	4.0	4.9	11.8	10.9	10.7	8.2	9.6	8.8	6.9	5.3	7.6
Mean Cloud Cover (8 <sup>ths</sup> )	3.2	3.2	3.1	3.3	4.2	4.2	4.0	3.8	4.0	3.9	3.6	3.4	3.7
Mean SLP (mbs)	1016	1016	1016	1015	1015	1016	1016	1015	1014	1013	1013	1015	1015
Ext. Max. SLP (mbs)	1031	1030	1029	1030	1028	1026	1029	1029	1026	1026	1025	1029	1031
Ext. Min. SLP (mbs)	1001	1001	1002	1001	1002	1004	1003	1001	1000	1000	999	1001	999
Prevailing Wind Direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Thunder and Lightning <sup>1</sup>	0.5	0.3	0.2	0.6	2.8	3.6	3.7	4.5	6.5	6.6	3.1	1.3	2.9

COASTAL AREA OFF SOUTHERN PUERTO RICO Between 16°N to 18°N and 65°W to 68°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.2	0.1	0.2
Wave Height > 9 feet <sup>1</sup>	1.7	1.4	1.1	1.0	0.7	1.6	2.4	1.7	1.3	0.2	2.0	2.1	1.4
Visibility < 2 nautical miles <sup>1</sup>	0.2	0.2	0.2	0.3	0.4	0.2	0.4	0.4	0.5	0.3	0.5	0.3	0.3
Precipitation <sup>1</sup>	2.6	2.4	2.5	2.0	4.1	2.1	3.8	3.1	4.7	4.9	4.7	3.8	3.3
Temperature > 69° F	99.7	99.9	99.7	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9
Mean Temperature (°F)	78.5	78.0	78.2	79.3	80.8	82.0	82.3	82.8	82.9	82.6	81.4	79.8	80.5
Temperature < 33° F <sup>1</sup>	0.0	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 RH (%)	78	77	78	78	80	80	80	80	80	80	79	78	79
Overcast or Obscured <sup>1</sup>	3.1	2.8	4.6	4.1	10.6	8.0	9.9	8.1	10.0	8.5	5.7	4.3	6.4
Mean Cloud Cover (8 <sup>ths</sup> )	3.2	3.3	3.3	3.4	4.2	4.1	4.0	3.9	4.0	3.9	3.7	3.5	3.7
Mean SLP (mbs)	1016	1016	1016	1015	1015	1016	1016	1015	1013	1013	1013	1014	1015
Ext. Max. SLP (mbs)	1032	1031	1030	1030	1028	1028	1027	1028	1025	1025	1026	1029	1032
Ext. Min. SLP (mbs)	1001	1001	1002	1001	1002	1004	1004	1000	1001	1000	999	1001	999
Prevailing Wind Direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Thunder and Lightning <sup>1</sup>	0.3	0.3	0.1	0.3	2.0	1.8	2.2	3.2	5.1	5.9	2.4	0.9	1.9

<sup>1</sup> Percentage Frequency

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

COASTAL AREA OFF NORTHERN PUERTO RICO Between 18°N to 20°N and 65°W to 68°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.2	0.3	0.2
Wave Height > 9 feet <sup>1</sup>	1.9	1.3	1.4	1.2	0.7	0.5	1.7	1.5	1.2	0.8	1.7	3.1	1.4
Visibility < 2 nautical miles <sup>1</sup>	0.2	0.2	0.2	0.2	0.3	0.2	0.4	0.3	0.3	0.3	0.2	0.2	0.2
Precipitation <sup>1</sup>	3.2	2.9	2.3	2.4	3.7	2.9	3.2	3.5	3.8	4.1	4.4	4.2	3.3
Temperature > 69° F	99.6	99.6	99.6	99.8	99.9	99.9	100.0	100.0	100.0	100.0	99.9	99.9	99.8
Mean Temperature (°F)	77.6	77.3	77.7	78.5	80.0	81.6	82.1	82.6	82.7	82.2	80.8	78.9	79.9
Temperature < 33° F <sup>1</sup>	0.0	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 RH (%)	77	77	77	78	80	80	80	80	79	79	78	77	78
Overcast or Obscured <sup>1</sup>	4.6	4.7	4.2	5.4	11.2	9.8	9.1	8.1	8.3	7.9	6.8	6.6	7.0
Mean Cloud Cover (8 <sup>ths</sup> )	3.4	3.4	3.2	3.4	4.2	4.1	4.1	3.8	3.9	3.9	3.8	3.7	3.7
Mean SLP (mbs)	1017	1017	1017	1016	1015	1017	1017	1016	1014	1013	1014	1016	1016
Ext. Max. SLP (mbs)	1030	1031	1031	1030	1028	1029	1029	1029	1026	1026	1026	1028	1031
Ext. Min. SLP (mbs)	1000	1001	1002	1001	1002	1003	1003	1000	1001	1000	999	1000	999
Prevailing Wind Direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Thunder and Lightning <sup>1</sup>	0.2	0.2	0.1	0.4	2.2	2.4	2.6	2.8	4.8	5.4	2.8	1.0	1.9

COASTAL AREA OFF VIEQUES ISLAND Between 18°N to 19°N and 65°W to 66°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	0.2	0.1	0.0	0.1	0.1	0.0	0.1	0.0	0.2	0.0	0.3	0.1	0.1
Wave Height > 9 feet <sup>1</sup>	0.9	0.3	0.4	0.4	0.2	0.3	0.6	0.7	0.9	0.5	0.4	2.1	0.6
Visibility < 2 nautical miles <sup>1</sup>	0.1	0.2	0.1	0.3	0.6	0.1	0.2	0.4	0.3	0.1	0.2	0.3	0.2
Precipitation <sup>1</sup>	3.0	2.2	2.7	2.8	4.7	3.1	3.8	4.4	4.7	3.0	5.2	4.7	3.4
Temperature > 69° F	99.9	99.8	99.6	99.8	99.8	99.9	99.9	100.0	100.0	100.0	99.9	100.0	99.9
Mean Temperature (°F)	78.1	77.9	78.0	79.1	80.4	82.0	82.6	82.9	83.0	82.7	81.3	79.4	80.0
Temperature < 33° F <sup>1</sup>	0.0	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 RH (%)	77	76	75	76	80	79	79	79	79	80	78	75	77
Overcast or Obscured <sup>1</sup>	3.9	3.1	3.7	4.8	11.8	10.3	8.3	9.2	8.2	7.4	6.1	7.4	6.3
Mean Cloud Cover (8 <sup>ths</sup> )	3.4	3.4	3.3	3.5	4.3	4.3	4.1	4.0	4.1	4.0	3.8	3.9	3.7
Mean SLP (mbs)	1017	1017	1017	1016	1015	1017	1017	1015	1014	1013	1013	1015	1016
Ext. Max. SLP (mbs)	1028	1030	1028	1026	1023	1028	1027	1026	1025	1025	1023	1022	1030
Ext. Min. SLP (mbs)	1002	1001	1002	1001	1002	1003	1007	1002	1001	1000	1000	1000	1000
Prevailing Wind Direction	E	E	E	E	E	E	E	E	E	E	E	NE	E
Thunder and Lightning <sup>1</sup>	0.1	0.1	0.0	0.1	1.2	1.2	1.7	1.5	3.6	4.1	2.2	0.4	1.0

COASTAL AREA OFF VIRGIN ISLANDS Between 17°N to 19°N and 64°W to 66°W													
WEATHER ELEMENTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
Wind > 33 knots <sup>1</sup>	0.2	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.3	0.0	0.3	0.1	0.1
Wave Height > 9 feet <sup>1</sup>	1.1	0.7	1.0	0.7	0.4	0.5	0.8	0.8	1.0	0.4	1.3	1.6	0.9
Visibility < 2 nautical miles <sup>1</sup>	0.1	0.2	0.2	0.2	0.5	0.2	0.4	0.4	0.4	0.2	0.7	0.3	0.3
Precipitation <sup>1</sup>	2.9	2.3	2.9	2.5	5.3	3.9	3.6	4.4	4.5	3.8	6.6	4.9	3.7
Temperature > 69° F	99.7	99.8	99.6	99.9	99.9	100.0	99.9	100.0	100.0	100.0	100.0	100.0	99.9
Mean Temperature (°F)	78.1	77.9	77.9	79.0	80.5	81.9	82.4	82.7	82.8	82.5	81.2	79.5	80.1
Temperature < 33° F <sup>1</sup>	0.0	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 RH (%)	77	76	76	77	80	79	79	80	79	80	78	77	78
Overcast or Obscured <sup>1</sup>	3.3	3.1	4.2	4.3	11.3	8.2	7.9	7.9	8.9	7.3	6.3	6.0	6.0
Mean Cloud Cover (8 <sup>ths</sup> )	3.3	3.3	3.3	3.5	4.3	4.1	4.0	3.9	4.1	3.9	3.8	3.7	3.7
Mean SLP (mbs)	1016	1016	1016	1015	1015	1016	1017	1015	1014	1013	1013	1015	1015
Ext. Max. SLP (mbs)	1032	1031	1030	1028	1027	1028	1027	1028	1025	1026	1025	1028	1032
Ext. Min. SLP (mbs)	1001	1001	1002	1001	1002	1003	1005	1001	1001	1000	999	1000	999
Prevailing Wind Direction	E	E	E	E	E	E	E	E	E	E	E	E	E
Thunder and Lightning <sup>1</sup>	0.1	0.1	0.1	0.1	1.5	1.4	1.8	2.3	4.3	4.4	2.3	0.7	1.3

<sup>1</sup> Percentage Frequency

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

**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

Mean Surface Water Temperatures and Densities																
		Key West, FL	St. Petersburg, FL	Cedar Keys, FL	Pensacola, FL	Grand Isle, LA	Eugene Island, LA	Galveston, TX	Freeport Harbor, TX	Rockport, TX	Port Aransas, TX	Port Mansfield, TX	Brazos Santiago, TX	Port Isabel, TX	San Juan, PR	Isle Maguey, PR
<b>Years of Record</b>		41	25	31	48	21	28	50	16	7	11	9	14	24	10	15

<b>Jan</b>	<b>Temp (°C)</b>	21.7	16.7	14.4	13.1	16.1	10.8	13.1	11.9	16.7	13.6	14.6	14.6	16.0	26.6	26.6
	<b>Density</b>	26.8	19.7	19.9	13.0	22.6	1.9	17.1	18.1	20.6	22.5	25.8	24.2	24.8	25.4	26.3
<b>Feb</b>	<b>Temp (°C)</b>	22.2	17.6	15.7	14.3	16.2	11.9	14.2	13.5	16.8	14.3	16.1	15.3	17.3	26.4	26.4
	<b>Density</b>	26.9	19.6	19.1	11.9	21.0	1.1	16.7	17.6	20.0	23.1	26.0	24.6	25.0	26.0	26.7
<b>Mar</b>	<b>Temp (°C)</b>	23.7	19.7	18.4	17.1	17.6	15.3	16.8	16.2	19.8	16.7	18.6	17.4	19.8	26.9	27.1
	<b>Density</b>	27.1	19.4	18.1	9.5	20.3	1.1	16.6	18.9	19.6	23.4	26.2	25.1	24.7	26.1	26.8
<b>Apr</b>	<b>Temp (°C)</b>	25.8	23.1	22.9	21.6	20.9	19.9	21.4	21.4	23.5	22.2	23.8	21.3	23.6	27.4	28.0
	<b>Density</b>	27.3	19.5	18.1	8.2	17.3	0.8	16.2	18.5	20.6	22.9	26.3	25.3	25.3	26.2	27.0
<b>May</b>	<b>Temp (°C)</b>	27.9	26.4	26.4	25.4	25.2	24.6	25.6	25.1	27.1	25.8	26.1	24.7	26.8	27.3	28.6
	<b>Density</b>	27.5	20.5	19.1	10.9	16.7	0.6	15.1	17.0	20.9	21.8	24.9	25.3	25.4	25.3	27.0
<b>Jun</b>	<b>Temp (°C)</b>	29.6	28.8	29.1	28.6	28.3	28.3	28.8	27.7	30.1	28.8	28.3	26.3	29.0	28.1	28.8
	<b>Density</b>	27.2	21.2	20.2	12.8	17.3	0.6	16.0	19.1	22.4	24.3	24.7	26.7	26.4	25.5	26.9
<b>Jul</b>	<b>Temp (°C)</b>	30.4	29.7	29.8	29.6	29.3	29.4	30.2	28.7	30.8	29.8	29.2	25.9	29.6	28.3	28.9
	<b>Density</b>	27.3	20.6	19.9	12.9	20.1	1.0	19.1	22.5	25.6	26.2	27.1	27.2	27.5	25.6	26.9
<b>Aug</b>	<b>Temp (°C)</b>	30.6	29.7	29.8	29.7	29.4	29.6	30.3	29.3	30.8	30.0	29.2	26.7	29.6	28.4	29.3
	<b>Density</b>	27.3	18.6	19.0	12.9	20.8	2.4	22.1	24.5	27.6	27.2	30.1	27.5	27.6	25.1	26.6
<b>Sep</b>	<b>Temp (°C)</b>	29.7	28.7	28.3	27.8	28.3	27.9	28.5	27.9	29.1	29.2	28.3	28.2	29.1	28.8	29.6
	<b>Density</b>	26.9	17.1	18.8	14.6	21.2	5.7	19.9	20.9	23.2	24.8	29.7	26.6	25.7	24.4	26.2
<b>Oct</b>	<b>Temp (°C)</b>	27.6	25.4	24.2	23.5	25.0	23.3	24.4	23.8	25.6	25.3	24.6	25.8	25.9	28.6	29.2
	<b>Density</b>	26.6	17.5	19.2	15.9	22.7	5.5	18.6	18.4	20.4	22.6	28.0	25.2	24.3	24.0	5.9
<b>Nov</b>	<b>Temp (°C)</b>	24.4	21.0	19.0	18.1	21.2	17.3	18.8	18.9	20.1	20.7	20.7	21.7	21.4	28.2	28.6
	<b>Density</b>	27.0	18.8	20.2	17.2	24.1	4.7	18.8	19.0	20.5	22.8	28.8	25.5	25.1	24.1	25.9
<b>Dec</b>	<b>Temp (°C)</b>	22.3	17.6	15.4	14.2	18.1	12.6	14.8	14.9	16.9	16.3	16.7	17.6	17.5	27.1	27.2
	<b>Density</b>	26.9	19.5	20.1	15.5	23.9	3.3	18.2	18.4	19.2	23.3	27.6	24.6	25.3	24.5	26.1
<b>Mean</b>	<b>Temp (°C)</b>	26.3	23.7	22.8	21.9	23.0	20.9	22.3	21.6	23.9	22.7	23.0	22.1	23.8	27.7	28.2
	<b>Density</b>	27.1	19.3	19.3	12.9	20.7	2.4	17.9	19.4	21.7	23.7	27.1	25.7	25.6	25.2	26.5

F (Fahrenheit) = 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 15°C (59°F).

Table for Estimating Time of Transit																			
Distance (nautical miles)	Speed (knots)																		
	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	30
	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	0/1	-	-	-	-	-
20	0/3	0/2	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
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
1000	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
2000	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
3000	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
4000	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
5000	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
6000	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

Determination of Wind Speed by Sea Condition					
Miles per hour	Knots	Descriptive	Sea Conditions	Wind Force (Beaufort)	Probable Wave Height (feet)
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

Atlantic Ocean Distances - Montreal, Canada to the Panama Canal (nautical miles)																												
	Panama Canal (Pacific)	Panama Canal (Atlantic)	Yucatan Channel	San Juan, PR	Corpus Christi, TX	Galveston, TX	Port Arthur, TX	New Orleans, LA (via SW Pass)	Mobile, AL	Pensacola, FL	Tampa, FL	Straits of Florida	Key West, FL	Jacksonville, FL	Savannah, GA	Charleston, SC	Wilmington, NC	Diamond Shoals	Norfolk, VA	Chesapeake Bay (entrance)	Baltimore, MD	Philadelphia, PA	New York, NY	Nantucket Shoals	Boston, MA	Portland, ME	Gut of Canso (Lock)	Cabot Strait
Montreal, Quebec* (St. Lambert Lock)	3249	3203	2730	2445	3347	3242	3240	3080	3011	2977	2772	2540	2479	2172	2088	2014	1948	1729	1716	1689	1838	1682	1534	1311	1318	1276	717	681
Cabot Strait 45°07.0'N., 60°17.0'W.	2568	2522	2049	1764	2666	2561	2559	2399	2330	2296	2091	1859	1798	1491	1407	1333	1267	1048	1035	1008	1157	1001	853	630	637	595	120	-
Gut of Canso (Lock) 45°39.0'N., 61°25.0'W.	2465	2419	1937	1669	2558	2453	2451	2291	2222	2188	1983	1751	1690	1379	1295	1221	1155	936	923	896	1046	890	742	519	526	484	-	-
Portland, ME 43°39.4'N., 70°14.7'W.	2235	2189	1629	1531	2255	2150	2148	1988	1919	1885	1680	1448	1387	1071	987	913	847	628	611	584	734	575	426	203	100	-	-	-
Boston, MA 42°22.0'N., 71°03.0'W.	2195	2149	1589	1486	2215	2110	2108	1948	1879	1845	1640	1408	1347	1031	947	873	807	588	571	544	694	535	386	163	-	-	-	-
Nantucket Shoals 40°30.0'N., 69°25.0'W.	2032	1986	1426	1334	2052	1947	1945	1785	1716	1682	1477	1245	1184	868	784	710	644	425	408	381	531	372	223	-	-	-	-	-
New York, NY 40°42.0'N., 74°01.0'W.	2018	1972	1346	1399	1977	1872	1870	1710	1641	1607	1402	1170	1109	788	704	630	564	345	294	267	417	240	-	-	-	-	-	-
Philadelphia, PA 39°56.8'N., 75°08.3'W.	2001	1955	1323	1395	1954	1849	1847	1687	1618	1584	1379	1147	1086	765	681	607	541	322	269	242	392	-	-	-	-	-	-	-
Baltimore, MD 39°16.0'N., 76°34.5'W.	1950	1904	1268	1375	1899	1794	1792	1632	1563	1529	1324	1092	1031	710	626	552	486	267	173	150	-	-	-	-	-	-	-	-
Chesapeake Bay (entrance) 36°56.3'N., 75°58.6'W.	1800	1754	1118	1225	1749	1644	1642	1482	1413	1379	1174	942	881	560	476	402	336	117	27	-	-	-	-	-	-	-	-	-
Norfolk, VA 36°50.9'N., 76°17.9'W.	1827	1781	1145	1252	1776	1671	1669	1509	1440	1406	1201	969	908	587	503	429	363	144	-	-	-	-	-	-	-	-	-	-
Diamond Shoals 35°08.0'N., 75°15.0'W.	1683	1637	1001	1114	1632	1527	1525	1365	1296	1262	1057	825	764	443	359	285	219	-	-	-	-	-	-	-	-	-	-	-
Wilmington, NC 34°14.0'N., 77°57.0'W.	1655	1609	904	1153	1535	1430	1428	1268	1199	1165	960	728	667	315	227	151	-	-	-	-	-	-	-	-	-	-	-	-
Charleston, SC 32°47.2'N., 79°55.2'W.	1609	1563	809	1138	1440	1335	1333	1173	1104	1070	865	633	572	197	102	-	-	-	-	-	-	-	-	-	-	-	-	-
Savannah, GA 32°05.0'N., 81°05.7'W.	1610	1564	780	1156	1411	1306	1304	1144	1075	1041	836	604	543	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jacksonville, FL 30°19.2'N., 81°39.0'W.	1559	1513	699	1121	1330	1225	1223	1063	994	960	755	523	462	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Key West, FL 24°33.7'N., 81°48.5'W.	1106	1060	251	966	880	775	773	613	544	510	305	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Straits of Florida 24°25.0'N., 83°00.0'W.	1047	1001	192	1017	807	702	700	540	471	437	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tampa, FL 27°56.5'N., 82°26.7'W.	1259	1213	404	1249	810	703	697	502	389	347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pensacola, FL 30°24.0'N., 87°13.0'W.	1388	1342	533	1448	618	509	504	288	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile, AL 30°42.5'N., 88°02.5'W.	1417	1371	562	1448	605	496	491	269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans, LA (via SW Pass) 29°57.0'N., 90°03.7'W.	1442	1396	587	1557	555	446	441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Arthur, TX 29°49.5'N., 93°57.6'W.	1533	1487	691	1717	249	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galveston, TX 29°19.0'N., 94°47.0'W.	1539	1493	696	1719	207	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corpus Christi, TX 27°48.8'N., 97°24.0'W.	1595	1549	769	1824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
San Juan, PR 18°27.8'N., 66°06.7'W.	1036	990	1111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yucatan Channel 21°50.0'N., 85°03.0'W.	855	809	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Panama Canal (Atlantic) 9°23.5'N., 79°55.3'W.	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Panama Canal (Pacific) 8°53.0'N., 79°31.0'W.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All tabular distances are by outside routes which can be used by the deepest-draft vessel that the listed ports can accommodate. Lighter-draft vessels can save considerable mileage by transiting Canso Lock (Canada), the Cape Cod Canal (Massachusetts), and the Chesapeake and Delaware Canal (Delaware-Maryland); see the detailed tables. Gulf of Mexico distances are through the Shipping Safety Fairways.  
\*For Quebec City, Canada – subtract 139 miles

Gulf of Mexico Distances – Key West, FL to Port Brownsville, TX (nautical miles)																													
	Port Brownsville, TX	Port Isabel, TX	Corpus Christi, TX	La Quinta, TX	Port Comfort, TX	Freeport, TX	Houston, TX	Texas City, TX	Galveston, TX	Beaufort, TX	Orange, TX	Port Arthur, TX	Lake Charles, LA	Morgan City, LA	New Orleans, LA (SW Pass)*	New Orleans, LA (South Pass)*	New Orleans, LA (Gulf Outlet)*	Gulfport, MS	Pascagoula, MS	Mobile, AL	Pensacola, FL	Panama City, FL	Port St. Joe, FL	Tampa, FL	Port Tampa, FL	St. Petersburg, FL	Port Boca Grande, FL	Key West, FL	Straits of Florida
Yucatan Channel	729	718	769	763	761	717	740	702	696	717	713	691	705	602	587	579	575	576	554	562	533	506	495	404	399	389	332	251	192
Straits of Florida	793	782	807	802	797	743	746	707	702	726	722	700	715	581	540	524	513	792	469	471	437	381	369	232	228	219	150	73	-
Key West, FL	866	855	880	875	870	816	819	780	775	799	795	773	789	653	613	597	586	564	542	544	510	454	442	305	301	292	223	-	-
Port Boca Grande, FL	825	814	816	811	806	747	752	714	709	730	726	704	717	564	512	489	474	436	414	413	372	294	281	113	109	100	-	-	-
St. Petersburg, FL	813	802	797	792	786	729	733	695	690	710	707	684	697	539	488	459	444	401	379	377	334	252	240	18	8	-	-	-	-
Port Tampa, FL	822	810	805	800	795	738	742	704	699	719	715	693	706	548	496	467	452	409	387	386	343	261	248	18	-	-	-	-	-
Tampa, FL	826	815	810	804	799	742	746	708	703	723	719	697	710	552	502	472	457	413	392	389	347	265	252	-	-	-	-	-	-
Port St. Joe, FL	695	684	671	666	661	604	605	567	562	581	577	565	568	397	346	308	288	235	213	206	154	42	-	-	-	-	-	-	-
Panama City, FL	684	673	659	654	649	593	594	555	550	571	567	545	558	385	333	295	274	222	200	193	139	-	-	-	-	-	-	-	-
Pensacola, FL	643	632	618	614	609	552	553	514	509	530	526	504	517	339	288	253	186	117	94	89	-	-	-	-	-	-	-	-	-
Mobile, AL	629	618	605	600	595	538	539	501	496	517	513	491	504	324	269	236	170	98	75	-	-	-	-	-	-	-	-	-	-
Pascagoula, MS	609	598	585	580	575	518	519	481	476	497	493	471	484	304	250	216	149	52	-	-	-	-	-	-	-	-	-	-	-
Gulfport, MS	632	621	607	602	597	540	542	503	498	519	515	493	506	330	271	238	171	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans, LA (Gulf Outlet)*	604	593	580	575	570	513	514	476	471	492	488	466	479	304	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans, LA (South Pass)*	599	588	574	569	564	508	470	465	486	482	460	472	298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Orleans, LA (SW Pass)*	580	569	555	550	545	489	490	451	446	467	463	441	454	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Morgan City, LA	426	415	395	390	354	273	278	240	235	216	212	190	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lake Charles, LA	387	376	289	283	248	166	172	133	128	109	105	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Arthur, TX	347	336	249	244	208	126	132	94	89	26	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orange, TX	369	358	271	266	230	148	154	116	111	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beaumont, TX	373	362	275	270	234	152	158	120	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Galveston, TX	304	293	207	201	165	84	47	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Texas City, TX	309	298	212	206	170	89	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Houston, TX	348	337	250	244	209	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freeport, TX	258	247	160	154	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Point Comfort, TX	215	204	117	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Quinta, TX	148	137	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corpus Christi, TX	154	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Isabel, TX	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Port Brownsville, TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Key West Entrance Lighted Whistle Buoy KW (24°27'41"N., 81°48'02"W.) to Key West	6.3 miles
Tampa Bay Lighted Buoy T (27°35'19"N., 83°00'43"W.) to Tampa	43 miles
Entrance Lighted Bell Buoy 2 (30°16'18"N., 87°17'24"W.) to Pensacola	11.6 miles
Mobile Entrance Lighted Horn Buoy M (30°07'31"N., 88°04'07"W.) to Mobile	35 miles
Mississippi River-Gulf Outlet Lighted Bell Buoy 2 (29°25'30"N., 88°59'18"W.) to New Orleans	75 miles
South Pass Lighted Bell Buoy 2 (28°58'42"N., 89°06'30"W.) to New Orleans	102 miles
Southwest Pass Entrance Lighted Whistle Buoy SW (28°52'39"N., 89°25'55"W.) to Lake Charles	50 miles
Calcasieu Channel Lighted Buoy 2B (29°27'18"N., 93°13'18"W.) to Lake Charles	50 miles
Sabine Pass Lighted Buoy 32 (29°36'47"N., 93°48'32"W.) to Port Arthur	16.7 miles
Galveston Bay Entrance Lighted Whistle Buoy GA (29°09'29"N., 94°25'54"W.) to Galveston/Texas City/Houston	23/28/67 miles
Aransas Pass Entrance Lighted Whistle Buoy AP (27°47'36"N., 96°57'24"W.) to Corpus Christi	25 miles
Brazos Santiago Pass Entrance Lighted Whistle Buoy BS (26°03'54"N., 97°06'36"W.) to Port Brownsville	17.5 miles

All tabular distances are via Straits of Florida (24°25'N., 82°00'W.), and through the Shipping Safety Fairways. For distances from Key West to west Florida ports via Rebecca Shoal Channel (24°24.4'N., 82°42.4'W.), subtract 24 miles from Port Boca Grande distance, 17 miles from Tampa Bay distance, 9 miles from Port St. Joe and Panama City distances, and 5 miles from Pensacola.  
 \*Baton Rouge, LA – add 115 miles.

Coastwise and Inside Route Distances – Key West, FL to Apalachicola, FL (nautical miles)																		
	Apalachicola, FL			Cedar Key, FL			Tampa, FL			Sarasota, FL			Fort Myers, FL			Cape Sable, FL		
	Carrabelle, FL	St. Marks, FL		Tarpon Springs, FL	Clearwater, FL		St. Petersburg, FL	Bradenton, FL		Venice, FL	Port Boca Grande, FL		Naples, FL	Everglades, FL		Flamingo, FL	Matecumbe Harbor, FL	
Key West, FL	406	389	367	310	250	234	232	218	210	186	172	144	134	96	88	57	70	65
Marathon, FL	408	391	389	313	253	237	235	221	213	189	174	146	136	100	80	31	37	29
Matecumbe Harbor, FL	411	394	392	316	255	240	237	224	215	191	177	149	139	103	81	32	35	-
Flamingo, FL	396	379	377	301	240	225	222	209	200	176	162	134	124	88	66	17	-	-
Cape Sable, FL	379	362	360	284	223	208	205	192	183	159	145	117	107	71	49	-	-	-
Everglades, FL	350	334	332	255	195	179	177	163	155	131	116	88	79	38	-	-	-	-
Naples, FL	316	299	297	221	160	145	143	129	120	96	82	54	44	-	-	-	-	-
Fort Myers, FL	297	280	278	202	142	126	124	110	102	78	63	35	-	-	-	-	-	-
Port Boca Grande, FL	262	245	244	167	107	91	89	75	67	43	28	-	-	-	-	-	-	-
Venice, FL	234	218	216	139	79	63	61	47	39	15	-	-	-	-	-	-	-	-
Sarasota, FL	221	204	202	125	65	49	42	33	25	-	-	-	-	-	-	-	-	-
Bradenton, FL	209	193	191	114	54	38	36	22	-	-	-	-	-	-	-	-	-	-
St. Petersburg, FL	202	186	184	107	47	31	18	-	-	-	-	-	-	-	-	-	-	-
Tampa, FL	218	202	200	123	63	47	-	-	-	-	-	-	-	-	-	-	-	-
Clearwater, FL	174	157	155	79	18	-	-	-	-	-	-	-	-	-	-	-	-	-
Tarpon Springs, FL	164	147	145	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cedar Key, FL	118	101	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
St. Marks, FL	69	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carrabelle, FL	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Apalachicola, FL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Routes used in table:**

- Hawk Channel – between Marathon and Key West
- Northwest Channel (Key West) and outside to places between Cape Sable and San Carlos Bay, thence inside to Anclote Keys, thence outside to St. George Sound.

Distances from Everglades northward are inside via Big Marco River and Gordon Pass.

Puerto Rico and Virgin Islands Distances (nautical miles)																		
	Krause Lagoon, St. Croix, VI			Road Town, Tortola, BVI			Isabel Segunda, Vieques			Bahia de Aguadilla, PR			Bahia de Guayanilla, PR			Bahia de Jobos, PR		
	Frederiksted, St. Croix, VI	Christiansted, St. Croix, VI		Cruz Bay, St. John, VI	Charlotte Amalie, St. Thomas, VI		Ensenada Honda, Culebra	Puerto Arecibo, PR		Mayaguez, PR	Bahia de Guanica, PR		Bahia de Tallaboa, PR	Ponce, PR		Humacao, PR	Ensenada Honda, PR	
San Juan, PR	112	96	103	94	82	80	55	59	43	74	92	138*	145*	145*	152*	103	59	52
Fajardo, PR	77	61	68	66	53	46	18	25	72	103	121	99	89	88	83	65	21	14
Ensenada Honda, PR	72	60	69	65	51	44	12	25	84	115	133	90	80	79	74	56	11	-
Humacao, PR	70	58	68	71	57	50	17	31	92	123	131	82	72	71	65	48	-	-
Bahia de Jobos, PR	101	89	101	113	99	93	62	76	140	105	96	47	37	36	31	-	-	-
Ponce, PR	117	106	119	131	116	110	79	93	118	83	74	22	14	13	-	-	-	-
Bahia de Tallaboa, PR	122	111	124	136	121	116	85	98	112	76	67	16	5	-	-	-	-	-
Bahia de Guayanilla, PR	123	112	125	137	122	117	86	99	112	77	67	15	-	-	-	-	-	-
Bahia de Guanica, PR	133	122	135	147	132	126	96	109	105	70	60	-	-	-	-	-	-	-
Mayaguez, PR	182	171	184	175	164	161	136	141	58	23	-	-	-	-	-	-	-	-
Bahia de Aguadilla, PR	176	159	166	157	146	144	118	123	40	-	-	-	-	-	-	-	-	-
Puerto Arecibo, PR	144	128	135	126	115	112	87	92	-	-	-	-	-	-	-	-	-	-
Ensenada Honda, Culebra	59	42	48	47	31	24	15	-	-	-	-	-	-	-	-	-	-	-
Isabel Segunda, Vieques	62	46	54	55	40	33	-	-	-	-	-	-	-	-	-	-	-	-
Charlotte Amalie, St. Thomas, VI	54	38	38	24	11	-	-	-	-	-	-	-	-	-	-	-	-	-
Cruz Bay, St. John, VI	55	39	37	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Road Town, Tortola, BVI	62	46	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Christiansted, St. Croix, VI	35	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Frederiksted, St. Croix, VI	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Krause Lagoon, St. Croix, VI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

\* via Mona Passage

Limetree Bay, St. Croix, VI, is 1 mile E of Krause Lagoon

Intracoastal Waterway Distances – Apalachicola, FL to Port Brownsville, TX (nautical and statute miles)																												
	Port Brownsville, TX	Port Isabel, TX	Port Mansfield, TX	Corpus Christi, TX	La Quinta, TX	Aransas Pass, TX	Rockport, TX	Port O'Connor, TX	Freeport, TX	Texas City, TX	Houston, TX	Galveston, TX	Port Arthur, TX	Beaumont, TX	Orange, TX	Lake Charles, LA	Morgan City, LA	Houma, LA	New Orleans, LA	Gulfport, MS	Biloxi, MS	Pascagoula, MS	Mobile, AL	Pensacola, FL	Fort Walton Beach, FL	Panama City, FL	Port St. Joe, FL	Apalachicola, FL
Apalachicola, FL	900	887	856	786	780	769	762	717	651	615	653	614	556	562	537	525	388	356	302	248	236	222	214	150	112	51	27	•
Port St. Joe, FL	885	872	841	771	766	754	748	703	636	600	636	599	542	547	523	510	374	341	288	233	224	208	200	135	98	36	•	31
Panama City, FL	849	836	805	735	730	718	712	666	600	564	602	563	506	511	487	474	338	305	252	197	188	171	164	99	62	•	41	59
Fort Walton Beach, FL	788	775	743	673	666	656	650	605	539	503	541	502	444	450	425	412	276	243	190	136	126	110	102	37	•	71	113	129
Pensacola, FL	758	746	714	644	639	627	621	576	510	474	512	473	415	421	396	383	247	214	161	106	97	81	73	•	43	114	155	173
Mobile, AL	736	723	692	622	616	605	598	553	487	451	489	450	392	396	373	361	224	191	138	84	74	58	•	84	117	189	230	246
Pascagoula, MS	693	980	649	579	574	562	556	510	444	408	446	407	350	355	331	318	182	149	96	41	32	•	67	93	127	197	239	255
Biloxi, MS	680	668	636	566	561	549	543	496	431	396	433	394	337	342	318	305	169	136	83	26	•	37	85	112	145	216	258	274
Gulfport, MS	664	651	620	550	544	533	526	481	415	379	417	378	320	326	302	289	152	120	66	•	32	47	97	122	157	227	268	285
New Orleans, LA	598	585	553	483	578	466	460	415	349	313	351	312	254	260	235	222	86	53	•	76	96	110	159	185	219	290	331	348
Houma, LA	544	532	500	430	425	413	407	362	295	260	297	258	201	206	182	169	33	•	61	138	157	171	220	246	280	351	392	410
Morgan City, LA	512	499	467	397	392	380	374	329	263	227	265	226	168	174	149	136	•	38	99	175	194	209	258	284	318	389	430	447
Lake Charles, LA	395	382	351	280	275	264	257	212	146	110	148	109	51	57	32	•	157	194	255	333	351	266	415	441	474	545	587	604
Orange, TX	364	352	320	250	245	233	227	182	115	80	117	78	21	26	•	37	171	209	270	348	366	381	429	456	489	560	602	618
Beaumont, TX	370	357	326	255	250	236	232	187	121	85	123	84	26	•	30	66	200	237	299	375	394	409	458	484	518	588	629	647
Port Arthur, TX	344	331	300	229	224	212	206	161	95	59	97	58	•	30	24	59	193	231	292	368	388	403	451	478	511	582	624	640
Galveston, TX	289	276	244	174	169	158	151	106	40	10	48	•	67	97	90	125	260	297	359	435	453	468	518	544	578	648	689	707
Houston, TX	333	320	289	219	213	202	195	150	84	48	•	55	112	142	135	170	305	342	404	480	496	513	563	589	623	693	734	751
Texas City, TX	294	281	249	179	174	162	156	111	44	•	55	12	68	98	92	127	261	299	360	436	456	470	519	545	579	649	690	708
Freeport, TX	253	240	209	139	133	122	115	70	•	51	97	46	109	139	132	168	303	339	402	478	496	511	560	587	620	690	732	749
Port O'Connor, TX	183	170	136	68	63	52	45	•	81	128	173	122	185	215	209	244	379	417	478	554	573	587	636	663	696	766	809	825
Rockport, TX	140	127	96	26	20	9	•	52	132	180	224	174	237	267	261	296	430	468	529	605	625	640	688	715	748	819	861	877
Aransas Pass, TX	131	118	87	17	12	•	10	60	140	186	232	182	244	274	268	304	437	475	536	613	632	647	696	722	755	826	868	885
La Quinta, TX	129	116	85	15	•	14	23	72	153	200	245	194	258	288	282	316	451	489	550	626	646	661	709	735	769	840	881	898
Corpus Christi, TX	133	120	89	•	17	20	30	78	160	206	252	200	264	293	288	322	457	495	556	633	651	666	716	741	774	846	887	905
Port Mansfield, TX	46	33	•	102	98	100	110	159	241	287	333	281	345	375	368	404	537	575	636	713	732	747	796	822	855	926	968	985
Port Isabel, TX	13	•	38	138	133	136	146	196	276	323	368	318	381	411	405	440	574	612	673	749	769	783	832	858	892	962	1003	1021
Port Brownsville, TX	•	15	53	153	148	151	161	211	291	338	383	333	396	426	419	455	589	626	688	764	783	797	847	872	907	977	1018	1036

### Distance of Visibility for Objects Having Various Elevations

Height (feet)	Distance (nautical miles)	Distance (statute miles)	Height (meters)
1	1.2	1.3	0.3
2	1.7	1.9	0.6
3	2.0	2.3	0.9
4	2.3	2.7	1.2
5	2.6	3.0	1.5
6	2.9	3.3	1.8
7	3.1	3.6	2.1
8	3.3	3.8	2.4
9	3.5	4.0	2.7
10	3.7	4.3	3.1
11	3.9	4.5	3.4
12	4.1	4.7	3.7
13	4.2	4.9	4.0
14	4.4	5.0	4.3
15	4.5	5.2	4.6
16	4.7	5.4	4.9
17	4.8	5.6	5.2
18	5.0	5.7	5.5
19	5.1	5.9	5.8
20	5.2	6.0	6.1
21	5.4	6.2	6.4
22	5.5	6.3	6.7
23	5.6	6.5	7.0
24	5.7	6.6	7.3
25	5.9	6.7	7.6
26	6.0	6.9	7.9
27	6.1	7.0	8.2
28	6.2	7.1	8.5
29	6.3	7.3	8.8
30	6.4	7.4	9.1
31	6.5	7.5	9.5
32	6.6	7.6	9.8
33	6.7	7.7	10.1
34	6.8	7.9	10.4
35	6.9	8.0	10.7
36	7.0	8.1	11.0
37	7.1	8.2	11.3
38	7.2	8.3	11.6
39	7.3	8.4	11.9
40	7.4	8.5	12.2
41	7.5	8.6	12.5
42	7.6	8.7	12.8
43	7.7	8.8	13.1
44	7.8	8.9	13.4
45	7.8	9.0	13.7
46	7.9	9.1	14.0
47	8.0	9.2	14.3
48	8.1	9.3	14.6
49	8.2	9.4	14.9
50	8.3	9.5	15.2
55	8.7	10.0	16.8
60	9.1	10.4	18.3
65	9.4	10.9	19.8
70	9.8	11.3	21.3
75	10.1	11.7	22.9
80	10.5	12.0	24.4
85	10.8	12.4	25.9
90	11.1	12.8	27.4
95	11.4	13.1	29.0
100	11.7	13.5	30.5
105	12.0	13.8	32.0
110	12.3	14.1	33.5
115	12.5	14.4	33.1

Height (feet)	Distance (nautical miles)	Distance (statute miles)	Height (meters)
120	12.8	14.7	36.6
125	13.1	15.1	38.1
130	13.3	15.4	39.6
135	13.6	15.6	41.2
140	13.8	15.9	42.7
145	14.1	16.2	44.2
150	14.3	16.5	45.7
160	14.8	17.0	48.8
170	15.3	17.6	51.8
180	15.7	18.1	54.9
190	16.1	18.6	57.9
200	16.5	19.0	61.0
210	17.0	19.5	64.0
220	17.4	20.0	67.1
230	17.7	20.4	70.1
240	18.1	20.9	73.2
250	18.5	21.3	76.2
260	18.9	21.7	79.3
270	19.2	22.1	82.3
280	19.6	22.5	85.3
290	19.9	22.9	88.4
300	20.3	23.3	91.4
310	20.6	23.7	94.5
320	20.9	24.1	97.5
330	21.3	24.5	100.6
340	21.6	24.8	103.6
350	21.9	25.2	106.7
360	22.2	25.5	109.7
370	22.5	25.9	112.8
380	22.8	26.2	115.8
390	23.1	26.6	118.9
400	23.4	26.9	121.9
410	23.7	27.3	125.0
420	24.0	27.6	128.0
430	24.3	27.9	131.1
440	24.5	28.2	134.1
450	24.8	28.6	137.2
460	25.1	28.9	140.2
470	25.4	29.2	143.3
480	25.6	29.5	146.3
490	25.9	29.8	149.4
500	26.2	30.1	152.4
510	26.4	30.4	155.5
520	26.7	30.7	158.5
530	26.9	31.0	161.5
540	27.2	31.3	164.6
550	27.4	31.6	167.6
560	27.7	31.9	170.7
570	27.9	32.1	173.7
580	28.2	32.4	176.8
590	28.4	32.7	179.8
600	28.7	33.0	182.9
620	29.1	33.5	189.0
640	29.5	34.1	195.1
660	30.1	34.6	201.2
680	30.5	35.1	207.3
700	31.0	35.6	213.4
720	31.4	36.1	219.5
740	31.8	36.6	225.6
760	32.3	37.1	231.7
780	32.7	37.6	237.7
800	33.1	38.1	243.8
820	33.5	38.6	249.9

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.

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

9.4 nautical miles = **Height of object** (65 feet)

6.9 nautical miles = **Height of observer** (35 feet)

16.3 nautical miles = **Computed geographic visibility**

**Conversion of Degrees to Points and Points to Degrees**

Deg °	Min '	Points	Deg °	Min '	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	

### Standard Abbreviations Used In 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 Beacon	RACON
Radar Reflector	RA REF
Temporarily Replaced by Unlighted Buoy	TRUB
Temporarily Replaced by Lighted Buoy	TRLB
Whistle	WHIS
Light Characteristics	
Alternating	AL
Characteristic	CHAR
Composite Group-Flashing	FL(2+1)
Composite Group-Occulting	OC(2+1)
Continuous Quick-Flashing	Q
Fixed and Flashing	FFL
Fixed	F
Group-Flashing	FL(3)
Group-Occulting	OC(2)
Interrupted Quick-Flashing	IQ
Isophase	ISO
Morse Code	MO(A)
Occulting	OC
Single-Flashing	FL
Colors <sup>1</sup>	
Black	B
Blue	BU
Green	G
Orange	OR
Red	R
White	W
Yellow	Y

Organizations	
Commander, Coast Guard District (#)	CCGD(#)
Coast Guard	CG
Corps of Engineers	COE
National Geospatial-Intelligence Agency	NGA
National Ocean Service	NOS
National Weather Service	NWS
Vessels	
Aircraft	A/C
Fishing Vessel	F/V
Liquefied Natural Gas Carrier	LNG
Motor Vessel <sup>2</sup>	M/V
Pleasure Craft	P/C
Research Vessel	R/V
Sailing Vessel	S/V
Compass Directions	
North	N
South	S
East	E
West	W
Northeast	NE
Northwest	NW
Southeast	SE
Southwest	SW
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
Days of the Week	
Monday	MON
Tuesday	TUE
Wednesday	WED
Thursday	THU
Friday	FRI
Saturday	SAT
Sunday	SUN

<sup>1</sup> Color refers to light characteristics of Aids to Navigation only

<sup>2</sup> M/V includes: Steam Ship, Container Vessel, Cargo Vessel, etc.

**Standard Abbreviations Used In Broadcasts (continued)**

Countries and States			
Alabama	AL	South Dakota	SD
Alaska	AK	Tennessee	TN
American Samoa	AS	Texas	TX
Arizona	AZ	United States	US
Arkansas	AR	Utah	UT
California	CA	Vermont	VT
Canada	CN	Virgin Islands	VI
Colorado	CO	Virginia	VA
Connecticut	CT	Washington	WA
Delaware	DE	West Virginia	WV
District of Columbia	DC	Wisconsin	WI
Florida	FL	Wyoming	WY
Georgia	GA		
Guam	GU	<b>Various</b>	
Hawaii	HI	Anchorage	ANCH
Idaho	ID	Anchorage Prohibited	ANCH PROHIB
Illinois	IL	Approximate	APPROX
Indiana	IN	Atlantic	ATLC
Iowa	IA	Authorized	AUTH
Kansas	KS	Average	AVG
Kentucky	KY	Bearing	BRG
Louisiana	LA	Breakwater	BKW
Maine	ME	Broadcast Notice to Mariners	BNM
Maryland	MD	Channel	CHAN
Marshall Islands	MH	Code of Federal Regulations	CFR
Massachusetts	MA	Continue	CONT
Mexico	MX	Degrees (temp; geo pos)	DEG
Michigan	MI	Diameter	DIA
Minnesota	MN	Edition	ED
Mississippi	MS	Effect/Effective	EFF
Missouri	MO	Entrance	ENTR
Montana	MT	Explosive Anchorage	EXPLOS ANCH
Nebraska	NE	Fathom(s)	FM(S)
Nevada	NV	Foot/Feet	FT
New Hampshire	NH	Harbor	HBR
New Jersey	NJ	Height	HT
New Mexico	NM	Hertz	HZ
New York	NY	Horizontal Clearance	HOR CL
North Carolina	NC	Hour	HR
North Dakota	ND	International Regulations for Preventing Collisions at Sea	COLREGS
Northern Mariana Islands	MP	Kilohertz	KHZ
Ohio	OH	Kilometer	KM
Oklahoma	OK	Knot(s)	KT(S)
Oregon	OR	Latitude	LAT
Pennsylvania	PA	Local Notice to Mariners	LSM
Puerto Rico	PR	Longitude	LONG
Rhode Island	RI	Maintained	MAINTD
South Carolina	SC	Maximum	MAX
		Megahertz	MHZ
		Millibar	MB

<b>Standard Abbreviations Used In Broadcasts (continued)</b>
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Various (continued)	
Millimeter	MM
Minute (time; geographic position)	MIN
Moderate	MOD
Mountain, Mount	MT
Nautical Mile(s)	NM
Notice to Mariners	NTM
Obstruction	OBSTR
Occasion/Occasionally	OCCASION
Operating Area	OPAREA
Pacific	PAC
Point(s)	PT(S)
Position	POS
Position Approximate	PA
Pressure	PRES
Private/Privatey	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
Thunderstorm	TSTORM
Through	THRU
True	T
Uncovers; Dries	UNCOV
Universal Coordinate Time	UTC
Urgent Marine Information Broadcast	UMIB
Velocity	VEL
Vertical Clearance	VERT CL
Visibility	VIS
Yard(s)	YD
Warning	WARN
Weather	WX
Wreck	WK

**Conversion Factors**

	Known Value	Multiply By	Unknown Value
Linear	inches	25.40	millimeters
		2.540	centimeters
	centimeters	0.032808	feet
	feet	30.48	centimeters
		0.3048	meters
		0.00016458	nautical miles
		0.9144	meters
	yard	3.2808	feet
		1.094	yards
	meters	0.0005399	nautical miles
		0.86897	nautical miles
		1.6093	kilometers
	statute miles	1.6093	kilometers
1,609.3		meters	
nautical miles	1.151	statute miles	
Area	square feet	0.0929	square meters
		0.00002296	acres
	square meters	10.764	square feet
		0.0002471	acres
	acres	4,046.9	square meters
		43,560	square feet
	hectare	0.404685	hectare
		2.471054	acres
10,000		square meters	
	1.07639x10 <sup>5</sup>	square feet	
Depths	fathoms	1.8288	meters
	meters	0.54681	fathoms
		3.2808	feet
feet	0.3048	meters	
Rate	feet per second	0.5925	knots
		0.6818	miles per hour
		30.48	centimeters per second
	statute miles per hour	0.8689	knots
		1.467	feet per second
		0.447	meters per second
	knots	1.151	miles per hour
		0.5144	meters per second
		1.6878	feet per second
	centimeters per second	0.01944	knots
0.02237		miles per hour	
0.032808		feet per second	
Mass	grams	0.035275	ounces
		0.002205	pounds
	ounces	28.349	grams
	pounds	0.45359	kilograms
	short tons	2,000	pounds
0.89286		long tons	
	0.9072	metric tons	

Mass	long tons	2,240	pounds
		1.12	short tons
		1.016	metric tons
metric tons	metric tons	1,000	kilograms
		0.9842	long tons
		1.1023	short tons
		2,204.6	pounds
Volume	barrels (petroleum)	42	gallons (US)
		158.99	liters
	barrels (liquid, US)	31.5	gallons (US)
		26.229	gallons (British)
		119.24	liters
	gallons (US)	0.02381	barrels (petroleum)
		3.7854	liters
	liters	0.26417	gallons (US)

**Measurements and Equivalencies**

Unit	Equivalency
nautical mile	1,852 meters 6,076.12 feet
statute mile	5,280 feet 1,609.3 meters 1.6093 kilometers
cable	0.1 nautical mile (CN) 720 feet (US)
fathom	6 feet 1.8288 meters
foot	0.3048 meter
inch	2.54 centimeters
meter	39.37 inches 3.281 feet 1.0936 yards
kilometer	1,000 meters
knot	1.6877 feet per second 0.5144 meters per second
miles per hour (statute)	1.466 feet per second 0.44704 meters per second
acre	43,560 square feet 4,046.82 square meters
pound (avoirdupois)	453.59 gram
gram	0.0022046 pound (avoirdupois) 0.035274 ounce
short ton	2,000 pounds
long ton	2,240 pounds
metric ton	2,204.6 pounds
kilogram	2.2 pounds
liter	1.0567 quarts
barrel (petroleum)	42 gallons (US)

