AD-A076 976 NAVAL OCEANOGRAPHY COMMAND DETACHMENT ASHEVILLE NC F/G 4/2
U.S. NAVY AND MARINE CORPS METEOROLOGICAL STATION CLIMATIC SUMM--ETC(U)
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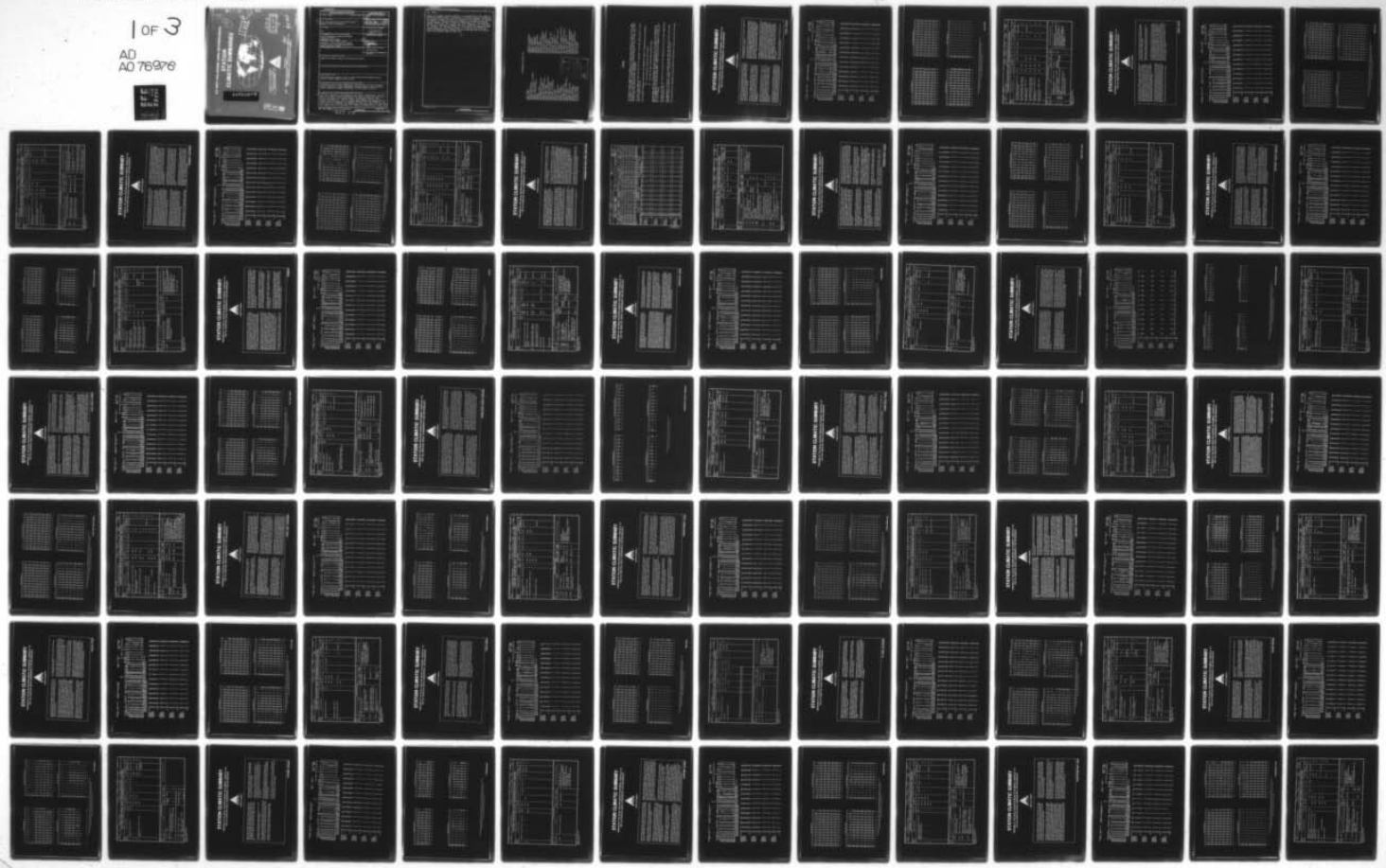

U.S. NAVY AND MARINE CORPS METEOROLOGICAL

STATION CLIMATIC SUMMARIES

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FOR THE COMMANDER, NAVAL OCEANOGRAPHY COMMAND

OCTOBER 1979

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This publication replaces the U.S. Navy and Marine Corps Meteorological Station Climatic Summaries (ADA 012-376)

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, extreme temperatures, heating degrees, cooling degrees, weather conditions, monthly climatology, 61 naval shore facilities.

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This report consists of four pages for each station listed below. The first page is a climatic narrative followed by two pages of tabular climatic data and the last page is the station history of instrument location. The stations included are: Adak, Ak; Agana, Guam; Alameda, CA; Andrews AFB, MD; Barbers Point, HI; Beaufort, SC; Bermuda; Brunswick, ME; Camp Pendleton, CA; Cecil Field, FL; Charleston, SC; Chase Field, TX; Cherry Point, NC; China Lake, CA; Corpus Christi, TX; Cubi Point, PI; Dallas, TX; Diego Garcia; El Toro, CA;

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Fallon, NV; Futenma, Okinawa; Glenview, IL; Guantanamo Bay, Cuba; Imperial Beach, CA; Iwakuni, Japan; Jacksonville, FL; Kadena, Okinawa; Kaneohe Bay, HI; Keflavik, Iceland; Key West, FL; Kingsville, TX; Lakehurst, NJ; Lemoore, CA; Mayport, FL; McMurdo, Antarctica; Memphis, TN; Meridian, MS; Midway Island; Miramar, CA; Moffett Field, CA; New Orleans, LA; New River, NC; Norfolk, VA; Oceana, VA; Patuxent River, MD; Pensacola, FL; Point Mugu, CA; Quantico, VA; Roosevelt Roads, PR; Rota, Spain; San Clemente Island, CA; San Diego, CA; San Nicolas Island, CA; Santa Ana, CA; Souda Bay, Crete; South Weymouth,MA; Whidbey Island, WA; Whiting Field, FL; Willow Grove, PA; Yokosuka, Japan and Yuma, AZ.

ALPHABETICAL STATION LIST

Adak, Alaska
Agana, Guam
Alameda, California
Andrews Air Force Base, Maryland
Barbers Point, Hawaii
Beaufort, South Carolina
Bermuda
Brunswick, Maine
Camp Pendleton, California
Cecil Field, Florida
Charleston, South Carolina
Chase Field, Texas
Cherry Point, North Carolina
China Lake, California
Corpus Christi, Texas
Cubi Point, Philippines
Dallas, Texas
Diego Garcia
El Toro, California
Fallon, Nevada
Futenma, Okinawa
Glenview, Illinois
Guantanamo Bay, Cuba
Imperial Beach, California
Iwakuni, Japan
Jacksonville, Florida
Kadena, Okinawa
Kaneohe Bay, Hawaii
Keflavik, Iceland
Key West, Florida
Kingsville, Texas

Accession For
NTIS GRA&I
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Unannounced
Justification
By
Distribution/
Availability Codes
Dist | Avail and/or special
A

Lakehurst, New Jersey
Lemoore, California
Mayport, Florida
McMurdo, Antarctica
Memphis, Tennessee
Meridian, Mississippi
Midway Island
Miramar, California
Moffett Field, California
New Orleans, Louisiana
New River, North Carolina
Norfolk, Virginia
Oceana, Virginia
Patuxent River, Maryland
Pensacola, Florida
Point Mugu, California
Quantico, Virginia
Roosevelt Roads, Puerto Rico
Rota, Spain
San Clemente Island, California
San Diego, California
San Nicolas Island, California
Santa Ana, California
Souda Bay, Crete
South Weymouth, Massachusetts
Whidbey Island, Washington
Whiting Field, Florida
Willow Grove, Pennsylvania
Yokosuka, Japan
Yuma, Arizona

FOREWORD

The Station Climatic Summaries included in this publication generally consist of four pages per station: a narrative, a station history, and two pages of tabular material. Occasional exceptions to this practice may be noted where existing summaries, lack of input data, etc., required some modification of this arrangement.

The annual mean number of days with fog will be truncated in the high order position if the value is greater than 99.

The following indicators are used in the sequential tables of temperature and precipation:

"M": 10 or more days record missing (no mean)

"P": less than 10 days record missing (partial mean)

Heating degree day and cooling degree day data are shown only for months with temperature data for each day of the month; hence, monthly temperatures may be marked "P", with an "M" for the degree days for the same year-month. Annual values are not computed for months with "M" or "P" values.

The degree day total for the month is the sum of the departures of the daily mean temperatures from the base of 65° F.

The appearance of a flag (#) in the snowfall columns (MIN, MAX, MAX 24 HR) when the minimum temperature does not support snowfall, indicates the occurrence of hail.

The station history information describes the Navy installation listed at the top of the page.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Adak Island is part of the Andreanof group of Aleutians. The island is about 30 miles long and 20 miles wide at its widest part. The nearest continental land masses are mainland Alaska approximately 700 miles to the northeast, and eastern Siberia approximately 700 miles to the northwest.

Adak has a very rugged, mountainous terrain composed of volcanic matter. It is treeless with tundra covered lowlands and numerous small lakes. The Naval Station lies on the northeast side of the island with runways 17 feet above mean sea level. The adjacent open waters of Kuluk Bay extend eastward into the Bering Sea.

Storms occur in any season but they are most numerous and severe during the winter. Intense winter cyclonic storms produce gusty winds, rain, snow, or rain and snow mixed. An extensive area of advection fog forms over the North Pacific and Bering Sea and drifts over the island frequently during the summer season, but rarely bringing the visibility below GCA minimums.

The Kuroshio, similar to the Gulf Stream off the east coast of the United States, is a warm current flowing northeasterly. The Kuroshio extension flows eastward south of the Aleutian chain. Sea temperatures in the Adak area are modified significantly by the warm Kuroshio extension. Sea surface temperatures near Adak range from the mid to high 30's in January to March and to near 50 degrees F. in August.

A rather mild climate, for this northern latitude, is encountered due to these warm sea temperatures surrounding Adak and the Aleutians. The highest recorded temperature for Adak is 75 degrees F. (August 1956) while the lowest recorded temperature was 3 above zero (January 1963 and February 1964). The frequent occurrence of high winds with temperatures below 40 degrees F. in winter require that wind chill be considered.

The effect of the mountainous terrain of Adak on surface winds is significant, and is noticed particularly as a blocking or funneling effect. The low neck of land to the west of the station, and the pass to the north of the station have a definite funneling effect on the surface winds. Winds from the mountainous southern end of the island tend to have a sizeable increase in velocity. During strong northwesterly flow, the winds become extremely gusty. This is particularly true in fall and winter when a northwesterly flow is usually associated with squally weather. The prevailing west wind at Adak is caused by the location of the Aleutian low in winter and the North Pacific high in summer.

Nearly all forms of precipitation occur on Adak but the predominate types are snow and rain.

ADAK, ALASKA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: ADAK, ALASKA
LOCATION : N51 53 W176 39

PERIOD: JAN 50-DEC 77
ELEV : 17

STN LTRS: PADK
WBAN # : 25704
WMO # : 70454

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL				RELATIVE HUM		VAPOR PRESS	DEW PT	PRESS ALT	SFC PVLG	WINDS		MEAN AMT CLD	PRECIP INCHES		SNOWFALL		THUNDER	VISBY	MAX	MIN	MIN
	MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX	MAX 24 HR	MAX HR	04	13	IN OF HG	DEG F	FEET 99.95%	DRCTN	SPEED MN	SPEED MAX	IN TENTH	.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	NT OR GTR	Y OR GTR	FOG < R	DEG > TMI	> 65	< 50	< 32
JAN	37	30	34	50	3	6.0	14.5	2.7	3.6	17	48	11	84	81	.16	29	1900	NNE	12	82	8	24	3	14	4	#	8	0	#	20	#
FEB	37	29	33	50	3	4.8	9.6	2.0	2.3	19	52	9	83	79	.15	28	1800	NNE	13	105	8	22	2	16	4	#	5	0	#	20	#
MAR	39	30	35	51	13	6.0	13.3	2.3	3.2	20	59	17	84	79	.16	29	1600	WSW	13	109	9	25	3	16	5	#	8	0	#	20	0
APR	41	33	37	56	21	4.6	10.2	1.7	4.8	10	31	15	84	78	.18	32	1300	WSW	13	90	9	22	2	11	2	#	9	0	#	14	0
MAY	45	36	41	65	20	4.3	10.1	.6	4.9	2	9	5	86	78	.20	35	1200	WSW	12	80	9	22	2	3	#	#	13	#	3	5	0
JUN	49	41	45	65	29	3.2	9.4	1.4	2.5	#	#	#	90	81	.25	40	1050	WSW	10	60	9	16	2	0	0	0	18	#	11	#	0
JUL	54	45	49	72	33	3.1	6.1	.8	1.9	0	0	0	93	84	.30	45	750	W	10	64	9	16	2	0	0	0	26	1	26	#	0
AUG	56	47	52	75	33	4.1	9.7	1.0	2.5	#	#	#	92	84	.32	47	950	W	11	67	9	19	2	0	0	#	25	1	30	#	0
SEP	52	44	48	66	28	3.4	11.3	2.5	3.5	#	3	2	88	81	.29	44	1200	W	12	98	9	21	3	#	#	0	16	#	24	#	0
OCT	47	38	43	61	22	4.7	13.3	3.0	3.4	2	8	4	84	78	.22	37	1400	W	13	95	8	26	4	3	#	#	11	0	7	3	0
NOV	41	33	37	57	12	8.1	13.7	2.9	2.9	12	30	7	84	78	.18	32	1800	WSW	13	101	8	26	5	11	3	#	8	0	1	13	0
DEC	38	30	34	55	10	7.5	13.6	2.6	4.7	20	40	10	84	82	.17	30	1850	WSW	13	78	8	25	4	15	5	#	7	0	#	20	0
ANN	45	36	41	75	3	64.0	10.1	.6	4.9	102	59	17	86	80	.21	36	1500	W	12	109	9	264	34	90	23	#	154	2	102	115	#
EYR	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	27	28	28	28	28	28	28	28	28	28	28	28

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	76	79	79	82	89	93	91	89	81	73	71	76	82	28
LESS 5000	04	78	80	82	86	91	95	93	89	81	75	74	78	83	28
FT AND/OR	07	79	81	85	90	91	95	91	89	85	81	75	75	85	28
VISIBILITY	10	84	83	86	90	92	94	90	89	86	81	79	80	86	28
LESS 5 MI	13	87	86	88	91	92	91	88	86	85	84	80	83	87	28
	16	87	86	88	90	91	89	86	86	84	83	82	83	86	28
	19	80	84	84	88	90	92	90	87	83	81	75	78	84	28
	22	79	77	83	83	90	93	92	88	82	75	74	78	83	28
	ALL HRS	81	82	84	87	91	93	90	88	83	79	76	79	84	28
CEILING	01	12	11	12	8	12	26	44	37	17	5	6	11	17	28
LESS 1000	04	11	12	12	10	13	31	45	35	18	6	7	9	18	28
FT AND/OR	07	11	11	14	13	18	29	43	35	21	8	6	8	18	28
VISIBILITY	10	16	14	15	14	14	24	33	28	19	11	11	12	18	28
LESS 3 MI	13	17	15	15	13	13	22	29	22	17	12	11	15	17	28
	16	18	17	16	12	15	21	25	24	19	11	12	14	17	28
	19	12	15	14	12	15	22	32	30	21	8	7	9	16	28
	22	12	11	11	8	13	28	41	35	16	6	5	11	16	28
	ALL HRS	14	13	14	11	14	25	37	31	18	8	8	11	17	28
CEILING	01	3	2	2	1	2	7	16	13	4	1	2	3	5	28
LESS 500	04	2	4	3	1	3	10	16	12	3	1	2	2	5	28
FT AND/OR	07	2	2	5	5	5	10	15	12	8	2	2	2	6	28
VISIBILITY	10	7	8	6	5	4	6	11	8	6	7	6	5	7	28
LESS 1 MI	13	9	8	6	5	5	8	10	6	6	7	7	7	7	28
	16	7	8	7	5	6	8	8	7	8	7	5	7	7	28
	19	2	6	5	6	5	7	11	10	8	2	1	2	5	28
	22	3	2	2	1	2	8	14	10	5	1	1	2	4	28
	ALL HRS	4	5	4	4	4	8	12	10	6	4	3	4	6	28
CEILING	01	0	0	0	0	0	1	1	1	0	0	0	0	0	28
LESS 100	04	0	0	0	0	0	3	1	1	0	0	1	0	1	28
FT AND/OR	07	0	1	2	4	3	4	3	2	4	2	0	0	2	28
VISIBILITY	10	3	4	3	4	3	4	5	3	4	6	5	3	4	28
LESS 1/4 MI	13	5	5	4	4	5	6	6	4	4	7	6	5	5	28
	16	4	5	4	4	5	6	5	3	6	6	4	5	5	28
	19	0	1	3	4	4	5	5	3	5	2	0	0	3	28
	22	0	0	0	0	0	3	3	1	1	0	0	0	1	28
	ALL HRS	2	2	2	3	2	4	4	2	3	3	2	2	3	28

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1950	37.8	33.4	34.4	36.7	38.3	44.4	50.3	53.4	46.6	43.1	37.09	33.7	M
1951	33.9	36.3	33.7	37.2	40.6	48.2	49.3	51.7	48.1	43.7	38.3	36.3	41.4
1952	38.9	31.6	33.4	36.4	42.3	44.4	49.2	51.3	47.2	43.0	38.0	31.3	40.1
1953	33.0	40.3	38.9	37.2	39.4	46.4	49.9	53.7	46.9	41.8	37.2	30.8	40.1
1954	33.1	40.8	38.9	38.0	40.2	48.1	49.9	50.2	49.3	40.3	36.8	33.3	40.0
1955	30.9	34.9	33.1	37.2	38.6	43.8	48.1	52.2	47.6	40.6	38.2	36.2	40.2
1956	34.8	37.0	34.7	36.8	40.5	44.2	50.9	54.1	49.4	44.8	36.4	34.1	41.5
1957	38.5	42.5	39.6	38.8	43.0	44.9	48.2	51.3	49.2	43.4	38.2	33.9	41.2
1958	29.9	42.8	36.2	37.9	40.3	44.1	49.3	50.3	48.3	43.3	35.9	34.3	40.1
1959	34.7	33.2	32.6	37.7	41.0	43.3	49.7	52.1	48.9	43.9	36.4	31.7	40.4
1960	33.1	32.8	33.6	36.8	38.3	43.7	48.5	50.7	48.4	42.3	38.6	32.6	39.9
1961	33.1	41.6	32.4	38.7	42.3	46.3	49.3	50.0	48.9	42.7	38.3	33.4	40.8
1962	32.6	38.1	37.3	38.7	43.2	47.6	52.9	54.6	47.3	42.1	36.8	33.4	42.0
1963	36.2	42.7	36.8	37.8	42.0	43.9	50.7	50.7	48.7	42.4	38.2	33.8	41.1
1964	31.0	29.6	33.4	36.1	40.9	44.8	49.6	49.2	47.7	42.3	39.6	36.0	39.7
1965	32.7	34.6	37.1	39.9	41.4	45.6	50.1	52.9	48.0	42.8	39.1	33.9	41.8
1966	35.9	34.0	34.0	39.2	41.3	44.3	49.8	49.2	48.3	41.4	40.7	33.4	40.7
1967	31.6	40.3	36.3	39.8	44.0	46.2	50.1	52.1	46.9	42.4	38.3	33.8	41.5
1968	33.8	42.0	34.0	38.4	41.8	45.7	50.3	49.6	47.4	42.3	38.0	36.7	40.7
1969	34.6	42.8	34.8	37.3	40.3	43.9	49.8	52.4	47.7	42.2	36.4	29.9	40.4
1970	32.9	33.8	33.3	36.3	42.1	43.1	48.4	51.6	48.1	44.6	41.2	37.3	41.3
1971	33.7	40.1	33.7	38.1	42.1	43.1	46.6	49.1	47.7	M	M	34.8	M
1972	33.1	33.6	33.8	37.0	39.4	44.8	49.1	50.6	47.2	41.1	37.2	33.2	39.9
1973	30.4	31.2	33.0	38.4	41.7	44.7	48.0	49.6	46.9	42.8	39.1	32.7	39.6
1974	34.8	41.6	36.4	36.3	40.1	44.2	50.1	50.4	47.9	41.6	37.3	32.8	40.4
1975	29.3	31.1	31.1	37.0	38.2	43.3	48.6	52.1	47.0	42.2	37.3	33.0	39.1
1976	32.7	32.3	32.3	36.2	39.3	43.1	49.3	49.6	48.3	40.0	36.9	31.3	38.6
1977	30.9	40.6	31.9	38.2	39.6	46.8	50.3	51.9	49.8	43.1	35.7	32.1	40.0
MEAN	33.4	36.7	34.8	37.2	40.7	44.8	49.1	51.3	48.0	42.6	37.2	34.0	40.4

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1950	3.99	2.62	3.36	3.39	3.21	2.09	2.44	6.36	8.02	3.02	2.689	7.17	M
1951	6.43	9.97	4.68	7.18	4.52	2.51	3.53	3.00	2.02	0.94	8.66	11.30	73.84
1952	5.23	9.98	7.33	2.87	6.24	9.37	3.43	1.80	4.33	10.14	13.72	2.98	72.84
1953	8.95	6.79	9.57	6.86	6.31	4.39	.80	5.95	2.69	6.39	12.92	4.56	76.99
1954	5.71	7.86	13.31	2.16	16.10	5.62	4.79	4.52	6.99	8.20	6.12	13.58	92.86
1955	14.45	9.94	4.13	5.89	5.60	3.20	5.11	2.10	5.18	19.25	11.59	11.16	87.42
1956	5.93	6.92	11.99	5.03	6.85	4.34	4.38	9.05	10.70	3.81	5.31	9.46	82.97
1957	11.18	4.37	6.89	8.89	6.05	5.79	1.23	2.71	5.22	7.68	4.49	5.78	73.66
1958	6.71	2.76	8.31	5.22	5.49	3.74	5.07	1.57	7.47	11.24	11.19	5.80	76.55
1959	3.13	7.13	7.09	5.98	5.25	3.80	2.90	4.45	7.42	7.13	7.24	4.02	63.68
1960	4.35	2.78	2.35	2.31	3.29	1.43	3.07	2.97	2.52	5.31	2.94	3.84	37.37
1961	5.76	2.81	2.33	2.26	2.82	2.98	4.86	2.40	4.73	6.43	8.71	4.91	51.40
1962	5.35	6.44	9.66	1.70	1.86	4.07	2.27	5.95	2.71	9.09	6.14	5.34	57.58
1963	5.30	1.97	8.68	3.79	5.98	3.52	2.17	.98	4.30	6.10	6.78	10.16	59.93
1964	4.30	6.10	7.10	6.87	1.12	2.50	2.15	3.68	11.30	5.87	7.12	8.65	66.76
1965	6.80	5.67	5.06	10.17	3.05	3.16	3.88	2.39	5.27	6.60	8.18	6.96	80.15
1966	5.91	6.21	2.57	6.63	5.76	1.56	2.16	6.72	3.76	9.04	11.65	5.72	81.87
1967	7.60	5.05	5.69	4.73	.64	1.61	6.10	5.28	6.01	7.61	9.37	9.66	69.80
1968	8.89	3.75	3.67	6.98	1.36	1.91	2.27	2.69	3.10	6.93	6.65	8.09	52.20
1969	10.28	5.26	4.28	6.19	3.29	2.04	1.22	4.93	6.77	4.20	7.40	4.10	57.62
1970	6.10	5.76	3.39	6.25	1.55	1.92	2.81	4.75	3.07	7.63	4.81	7.96	54.20
1971	3.07	2.07	6.92	5.80	2.54	2.90	3.41	2.25	6.81	9.47	10.54	9.70	60.10
1972	6.20	2.94	3.49	2.96	3.01	3.02	2.38	3.80	7.66	8.74	9.15	8.21	61.07
1973	2.71	5.01	6.24	2.79	2.79	2.93	2.74	9.31	7.83	4.80	8.67	8.01	59.84
1974	5.58	3.78	3.76	5.89	5.37	1.63	6.86	7.34	4.57	3.76	9.29	6.71	62.20
1975	4.03	2.94	5.58	4.34	3.82	1.70	2.84	4.24	2.95	5.72	7.26	6.48	51.71
1976	5.28	1.97	3.89	3.26	2.60	1.52	3.36	3.81	4.56	7.47	5.00	6.78	53.40
1977	3.56	3.81	4.85	2.91	3.71	2.68	1.98	4.90	3.68	6.07	4.98	5.87	48.60
MEAN	6.04	4.77	5.97	4.98	4.30	3.17	3.06	4.05	5.56	6.70	8.35	7.34	63.79

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
49-50							826	877	963	842	790	611	M
50-51	449	383	540	703	M	900	967	798	901	829	748	592	M
51-52	473	404	500	681	782	883	898	934	974	830	693	610	8602
52-53	545	420	528	674	863	1037	985	963	991	830	786	582	8176
53-54	459	368	476	719	850	1052	983	999	959	803	761	648	8646
54-55	529	452	489	780	839	916	1081	887	917	826	810	687	9083
55-56	518	392	515	750	785	884	929	883	951	847	735	617	8756
56-57	428	391	458	828	880	946	821	870	894	778	708	894	8303
57-58	513	416	528	682	855	958	1082	898	888	807	749	821	8967
58-59	534	449	494	682	868	938	930	885	998	813	735	648	8932
59-60	528	390	444	647	851	1025	982	986	903	899	783	832	9022
60-61	474	434	492	693	873	997	981	920	998	782	698	868	8891
61-62	480	440	477	688	797	907	1000	803	858	785	660	818	8906
62-63	370	326	522	704	901	914	886	901	864	811	707	882	8393
63-64	437	460	489	696	797	976	1045	1017	913	863	740	598	9003
64-65	529	481	512	693	874	893	995	838	858	769	726	577	8727
65-66	456	370	504	682	766	955	955	859	955	768	718	608	8599
66-67	528	484	466	734	723	973	1039	998	977	736	660	586	8707
67-68	335	398	537	694	788	969	900	930	988	869	712	871	8497
68-69	450	472	521	690	859	870	925	897	957	826	796	687	8834
69-70	468	291	511	698	868	1080	987	867	978	850	707	590	8869
70-71	508	410	500	687	796	893	964	971	982	859	798	649	8804
71-72	825	487	518	M	M	951	982	908	958	807	786	601	M
72-73	486	446	521	734	868	972	1063	941	954	867	810	634	9304
73-74	517	461	526	677	781	992	930	928	874	854	764	618	8902
74-75	460	447	509	718	869	998	1102	945	1042	837	823	642	9226
75-76	565	398	532	700	826	956	996	993	1000	920	784	681	9286
76-77	587	507	501	740	867	1036	1049	997	1021	888	781	568	9539
77-78	444	460	492	693	871	922							
MEAN	487	417	504	692	828	956	974	906	936	827	748	604	8877

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1950	0	0	0	0	0	0	0	0	0	0		0	M
1951	0	0	0	0	0	0	0	0	0	0	0	0	0
1952	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	1	0	0	0	0	1
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	M	M	M
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

ADAK, ALASKA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
25704	Adak, Alaska	51°53'N	176°39'W	17	PADK	70454

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	In Weather Office located on main deck Birchwood hangar	NS		1959	51°53'N	176°39'W	14	mercurial	24
2.	In Weather Office located first deck of new operations building	NS	1959		"	"	16	"	24
1a.	In Weather Office, main deck Birchwood hangar	NS	1952	1959	"	"	18	aneroid	24
2a.	In Weather Office located first deck of new operations building	NS	1959	1961	"	"		"	24
3a.	AN/GMQ-14A cabinet, NWSED Office Ops Building	NS	1961	1968	"	"	18	"	24
4a.	Inboard bulkhead, NWSED Office Ops Building	NS	1968		"	"	18	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		1000'NNW of hangar & 25'E of air control tower	Selsyn		25'	1. Barograph (ML-3A)
2.		On 30' mast atop Birchwood hangar	AN/UMQ-5A		75'	2. Semi-Auto Met station(AN/GMQ-14B)
3.	1957	Conversion of equipment	AN/UMQ-5C	RD-108	75'	3. Ceiling light (ML-121)
4.	1959	Transmitter on roof of new Ops Bldg	"	RD-108B		4. Cloud height set (AN/GMQ-13B)
5.	1960	same				5. Theodolite (ML-247)
6.	1962	Located 500' on a bearing of 115° true from the intersection of runways 23-05 & 36-18			15'	6. Transmissometer (AN/GMQ-10C) 7. Rawinsonde set (AN/GMD-1B) 8. APT (AN/GRK-7)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Air Station at Agana, Guam, is located 269 feet above mean sea level on the northern plateau of Guam. Guam is the largest and southernmost of the Mariana Islands. The island is approximately 28 miles long, 4 to 8 miles wide, and is oriented north northeast-south southwest. Barrigada Mountain is located three miles east of the station and Mount Tenjo, with an elevation of 1022 feet, is located 5 1/2 miles west southwest. The trade winds reach the station after rising sharply up the cliffs on the eastern side of the island and flowing on an easy downslope grade across the surface of the northern plateau.

The climate of Guam is almost uniformly warm and humid throughout the year. Afternoon temperatures are typically in the middle to upper eighties and night time temperatures fall to the middle or low seventies. Though temperature and humidity vary only slightly throughout the year, rainfall and wind conditions vary markedly, and it is these latter variations that really define the seasons.

There are two primary seasons on Guam. The primary seasons are the four-month dry season which extends from mid-January through mid-May, and the four-month rainy season which extends from mid-July to mid-November.

Flying weather is generally excellent with Visual Flight Rules (VFR) prevailing approximately 99 percent of the time.

The predominant winds on Guam throughout the year are the trade winds which blow from the east or northeast. During the dry season, the trades are strongest. In the rainy season, there is often a breakdown of the trades, and calm or light and variable winds are experienced. Occasionally, typhoons pass over or near the island and these bring not only copious rainfall, but also violent winds which may cause a surge of water onto low lying coastal areas. The chances of having one or more typhoons pass close to Guam in any particular year is about 1 in 3. The chances of having a typhoon move directly across Guam, however, is only about 1 in 7 years.

AGANA, GUAM

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: AGANA, GUAM
LOCATION : N13 30 E144 48

PERIOD: SEP 45-DEC 77
ELEV : 269

STN LTRS: PGUM
WBAN # : 41406
WMO # : 91212

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER DAYS	VSBY MAX PDG < 7MI	DEG > 95	F AND MIN < 85	< 75	< 70
JAN	84	75	80	90	67	4.9	18.1	1.2	4.7	0	0	0	84	71	.79	72	600	ENE	9	46	7	19	2	0	0	#	#	0	13	16	3
FEB	85	75	80	93	65	3.0	9.3	.3	5.9	0	0	0	84	68	.77	71	550	ENE	9	45	7	15	1	0	0	#	#	0	13	16	3
MAR	85	75	80	93	66	2.8	9.3	.6	2.2	0	0	0	83	66	.77	71	500	E	9	39	7	17	1	0	0	#	0	0	20	16	3
APR	86	76	81	96	68	3.6	15.9	.5	5.8	0	0	0	84	67	.79	72	550	E	9	82	7	17	2	0	0	#	#	#	24	11	1
MAY	86	77	82	94	70	9.6	24.1	.8	7.9	0	0	0	85	70	.85	74	600	E	9	96	7	18	2	0	0	#	#	0	27	9	1
JUN	87	77	82	95	70	4.9	11.7	1.2	3.2	0	0	0	86	71	.85	74	600	E	8	43	7	21	3	0	0	1	0	#	27	8	1
JUL	86	76	82	95	70	9.5	17.7	4.5	4.5	0	0	0	88	75	.88	75	700	E	6	51	8	24	6	0	0	4	0	#	25	10	1
AUG	86	76	82	92	70	12.4	23.3	3.9	5.7	0	0	0	88	75	.88	75	650	E	6	57	9	24	7	0	0	4	0	0	25	10	1
SEP	86	76	81	92	70	13.3	21.6	3.9	9.3	0	0	0	88	76	.88	75	600	E	6	57	9	24	8	0	0	3	0	0	24	11	1
OCT	86	76	82	93	67	12.3	26.5	4.3	15.5	0	0	0	88	75	.88	75	850	E	6	52	8	24	7	0	0	3	#	0	25	11	1
NOV	86	77	82	92	68	8.3	14.5	2.6	4.0	0	0	0	86	73	.85	74	600	E	8	84	7	23	5	0	0	1	0	0	24	10	1
DEC	85	76	81	90	68	4.9	8.5	1.9	3.2	0	0	0	85	72	.82	73	650	E	9	67	7	22	2	0	0	#	0	0	21	11	1
ANN	86	76	81	96	65	85.5	26.5	.3	15.5	0	0	0	86	72	.82	73	650	E	8	96	8	248	46	0	0	18	#	#	268	139	18
EYR	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	29		31	31	31	31	31	31	31	29	29	31	31	31	31

REMARKS: @DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	19	17	15	17	17	13	15	16	16	16	18	16	16	31
LESS 3000	04	19	21	17	16	17	15	16	17	18	16	17	18	17	31
FT AND/OR	07	24	21	19	15	14	13	17	17	17	16	17	19	17	31
VISIBILITY	10	30	27	33	34	35	33	32	30	30	30	29	27	31	31
LESS 5 MI	13	39	36	40	36	37	36	38	38	40	37	36	33	37	31
	16	31	31	31	28	29	27	33	29	32	29	28	27	29	31
	19	18	19	16	15	14	13	16	17	17	16	15	13	16	31
	22	17	17	15	13	14	13	14	14	14	16	15	14	15	31
	ALL HRS	25	24	23	22	22	20	23	22	23	22	21	21	22	31
CEILING	01	1	1	0	0	0	0	1	2	1	2	1	1	1	31
LESS 1000	04	1	1	1	1	0	1	1	1	2	2	1	1	1	31
FT AND/OR	07	2	1	1	1	1	0	1	3	2	2	1	1	1	31
VISIBILITY	10	1	1	1	1	1	1	2	3	3	3	2	2	2	31
LESS 3 MI	13	2	1	2	1	2	1	2	3	3	2	2	2	2	31
	16	2	2	1	1	2	1	2	3	2	3	2	2	2	31
	19	1	1	1	1	1	0	2	2	2	3	2	1	1	31
	22	1	0	0	1	1	0	2	2	1	2	1	1	1	31
	ALL HRS	1	1	1	1	1	1	1	2	2	2	2	1	1	31
CEILING	01	0	0	0	0	0	0	0	1	0	1	0	1	0	31
LESS 500	04	0	0	0	0	0	0	0	0	0	1	0	1	0	31
FT AND/OR	07	0	0	0	0	0	0	0	1	1	1	0	1	0	31
VISIBILITY	10	0	0	0	0	1	0	1	1	2	2	1	1	1	31
LESS 1 MI	13	0	0	1	0	1	0	1	1	1	1	1	1	1	31
	16	0	0	1	0	1	0	1	1	1	2	1	1	1	31
	19	0	0	0	0	0	0	0	1	1	1	0	0	0	31
	22	0	0	0	0	0	0	0	0	0	1	0	1	0	31
	ALL HRS	0	0	0	0	0	0	0	1	1	1	1	1	0	31
CEILING	01	0	0	0	0	0	0	0	0	0	1	0	1	0	31
LESS 200	04	0	0	0	0	0	0	0	0	0	1	0	1	0	31
FT AND/OR	07	0	0	0	0	0	0	0	1	0	1	0	1	0	31
VISIBILITY	10	0	0	0	0	0	0	1	1	1	1	1	1	1	31
LESS 3/4 MI	13	0	0	1	0	1	0	0	1	1	1	1	1	1	31
	16	0	0	0	0	1	0	1	1	1	2	1	1	1	31
	19	0	0	0	0	0	0	0	0	0	1	0	0	0	31
	22	0	0	0	0	0	0	0	0	0	1	0	1	0	31
	ALL HRS	0	0	0	0	0	0	0	1	1	1	0	1	0	31

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	M	M	M	M	M	80.1	79.7P	80.9	80.6P	M
1946	80.3	81.6P	M	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	82.1	82.7	81.0	81.8	81.6	81.0	82.1	81.8	M
1948	80.6	79.8	80.4	81.0	81.2	81.3	81.5	80.8	80.5	80.8	80.1	79.2	80.6
1949	78.7	78.0	79.2	80.2	80.9	81.2	80.9	81.4	80.6	80.6	80.7	80.2	80.2
1950	78.8	78.1	79.2	80.5	80.9	80.2	79.9	81.1	80.4	80.4	79.8	79.7	79.9
1951	79.5	79.0	79.7	79.9	80.6	82.0	81.4	80.4	80.6	82.0	81.0P	80.8	M
1952	79.1	79.5	79.7	80.8	81.6	82.0	81.5	80.4	80.5	80.2	80.0	80.0	80.4
1953	79.2	78.4	79.3	80.5	81.2	82.1	82.1	80.5	81.2P	81.6	81.3	80.3	M
1954	79.4	79.7	80.2	81.2	81.8	82.3	82.3	81.0	79.9	80.6	80.8	80.1	80.8
1955	78.9	79.4	80.3	80.6	80.7	81.1	80.4	81.6	80.2P	81.0	81.2	80.1	M
1956	78.2	78.6	79.6	80.5	80.8	81.4	80.6	80.9	79.7	81.1	81.6	79.9	80.2
1957	79.3	78.5	79.9	80.6	81.8	82.2	82.3	81.6	81.4	81.1	81.1	80.5	80.9
1958	79.0	78.9	80.0	80.4	80.7	80.4	80.6	81.3	80.8	81.3	80.9	79.9	80.4
1959	78.5	78.9	79.3	79.8	80.7	82.1	81.7	81.0	80.5	81.0	81.0	80.2	80.4
1960	78.8	79.8	79.5	81.7	81.3	81.4	81.4	80.2	81.0	80.4	81.0	80.6	80.6
1961	79.4	80.2	79.7	80.9	81.3	80.9	80.9	79.7	80.4	79.8	80.6	80.0	80.3
1962	79.8	78.8	80.5	80.4	81.5	81.1	81.0	81.5	82.5	82.4	83.0P	81.6	M
1963	78.9	78.8	80.6	80.5	80.9	82.0	80.7	81.2	80.9	80.5	80.3	79.0	80.4
1964	80.9	79.0	79.5	80.8	80.4	83.6	82.4	81.3	81.5	81.8	82.2	80.2	81.1
1965	78.8	79.2	79.4	80.6	80.8	80.5	80.3	82.4	81.4	81.2	80.4	80.9	80.5
1966	79.8	79.9	79.9	82.0	82.4	82.8	83.1	82.9	82.3	81.7	81.0	81.0	81.4
1967	79.7	80.4	79.5	80.2	81.3	80.2	79.7	80.2	80.6	80.8	79.4	79.3	80.1
1968	81.3	79.9	81.4	80.7	81.5	80.9	80.3	80.6	80.5	80.9	81.5	80.6	80.9
1969	78.8	78.5	80.4	82.4	82.1	84.6	83.2	82.2	81.9	82.6	83.0	81.2	82.0
1970	80.2	80.3	81.6	82.3	83.0	82.9	81.9	82.0	81.8	82.4	83.7	82.0	82.1
1971	81.0	80.1	81.7	82.7	82.0	83.4	83.2	82.5	84.2	84.4	84.1	82.8	82.8
1972	82.6	82.0	81.7	80.8	79.8	80.2	80.1	80.2	81.3	80.6	80.1	79.8	80.8
1973	77.6	78.5	79.6	81.3	81.5	82.5	82.4	81.7	81.9	81.4	81.9	80.9	80.9
1974	79.4	80.6	79.3	81.5	81.9	82.2	80.9	80.5	82.5	83.0	82.2	82.5	81.4
1975	81.3	79.8	80.4	81.0	82.1	82.1	80.6	79.7	80.2P	80.7	80.6	81.2	M
1976	80.6	80.1	79.6	79.8	80.6	81.8	81.6	81.5	81.6	83.3	82.1	81.2	81.2
1977	80.0	79.7	80.4	81.1	82.1	82.9	83.3	84.0	82.2	81.5	81.0	80.2	81.5
MEAN	79.6	79.4	80.0	80.9	81.3	81.8	81.4	81.3	81.3	81.4	81.2	80.6	80.9

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	M	M	M	M	M	M	14.66P	11.16P	2.57	2.59P	M
1946	4.02P	M	M	M	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	10.16	3.30	8.67	9.81	10.94	14.64	10.44	3.29	M
1948	8.25	1.91	.71	5.36	4.38	8.16	4.92	12.61	9.15	13.32	12.56	5.45	86.36
1949	3.47	1.08	2.48	2.35	1.67	2.91	8.73	12.46	14.18	12.05	5.89	2.80	70.74
1950	1.67	1.79	1.97	1.11	8.75	7.38	12.17	8.79	21.56	14.07	7.38	5.16	91.80
1951	5.48	9.82	4.21	6.42	.78	1.56	3.32	16.80	3.91	16.82	9.10P	7.27	M
1952	2.53	.67	.69	1.42	5.02	2.99	9.36	11.58	14.74	19.37	12.36	8.49	89.38
1953	1.57	9.21	1.51	.07	2.23	1.76	7.20	23.29	9.83P	20.47	11.63	5.61	M
1954	5.80	1.75	1.11	1.81	2.19	4.34	4.46	11.33	18.59	12.90	11.55	3.34	79.16
1955	6.38	9.46	1.79	2.93	4.09	4.06	13.28	7.62	17.63	9.27	3.76	4.28	81.29
1956	2.27	2.82	2.14	2.39	3.39	3.04	9.03	7.37	16.02	9.20	13.82	8.25	81.94
1957	3.55	2.10	2.22	2.41	1.70	3.73	4.74	9.53	11.70	13.59	14.50	2.14	71.71
1958	5.93	1.96	.58	2.30	3.22	7.78	10.95	11.73	14.08	10.91	8.03	3.80	81.05
1959	2.42	1.31	1.47	2.01	.83	1.20	5.02	12.97	13.67	8.36	6.40	3.76	61.62
1960	2.67	.31	1.59	1.11	3.12	4.75	6.30	11.02	9.88	10.32	8.67P	7.93	M
1961	5.98	2.30	3.92	4.46	4.31	6.33	6.00	16.62	12.55	10.21	7.18	5.02	90.88
1962	1.63	3.93	1.51	7.35	6.03	9.72	17.69	17.94	13.19	11.29	4.16P	8.07	M
1963	11.14	7.76	2.06	13.28	15.02	5.81	8.74	7.20	12.83	10.82	5.77	8.43	116.38
1964	1.95	2.65	1.31	8.91	14.33	4.86	10.30	8.65	12.79	9.05	6.85	5.84	85.67
1965	11.51	1.98	.82	.02	1.89	4.10	15.33	3.91	17.97	7.48	5.53	2.67	72.79
1966	1.92	1.12	1.20	.51	1.38	5.18	3.18	13.65	20.71	6.53	8.47	3.08	69.51
1967	4.85	2.97	7.49	6.76	3.99	11.66	12.04	19.05	20.39	13.64	9.17	2.07	113.86
1968	4.96	7.43	3.44	2.39	2.36	9.70	11.00	14.42	14.45	17.71	11.36	1.38	98.00
1969	3.20	1.45	2.70	3.03	4.17	1.30	11.98	10.22	9.66	18.19	9.25	8.42	81.97
1970	8.32	7.47	1.95	1.17	2.12	5.40	7.22	8.07	11.53	8.11	6.99	3.96	67.31
1971	4.77	4.05	7.28	5.89	16.01	9.29	14.79	15.28	8.86	7.27	6.81	2.15	97.15
1972	4.05	3.29	4.32	1.79	2.57	4.52	13.31	13.14	11.81	5.32	2.78	3.13	72.23
1973	1.15	1.71	.89	1.09	1.65	9.57	6.04	9.90	8.08	13.55	2.79	7.18	59.14
1974	2.76	1.81	9.27	10.41	13.22	8.03	12.83	21.42	9.25	11.08	6.41	5.46	110.95
1975	7.14	.40	1.72	2.31	1.27	2.07	9.66	16.69	7.66P	12.04	10.72	2.68	M
1976	18.09	4.75	7.73	3.99	24.07	8.38	14.06	18.44	10.33	4.27	10.35	4.74	131.70
1977	1.82	1.45	5.81	1.25	3.91	6.35	5.83	4.11	13.70	13.47	6.13	2.19	67.52
MEAN	4.87	3.03	2.79	3.62	5.61	4.91	9.48	12.40	13.29	12.32	8.29	4.86	85.42

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45													M
45-46	M	M	0	M	0	M	0	M	M	M	M	M	M
46-47	M	M	M	M	M	M	M	M	M	M	0	0	M
47-48	0	0	0	0	0	0	0	0	0	0	0	0	0
48-49	0	0	0	0	0	0	0	0	0	0	0	0	0
49-50	0	0	0	0	0	0	0	0	0	0	0	0	0
50-51	0	0	0	0	0	0	0	0	0	0	0	0	0
51-52	0	0	0	0	M	0	0	0	0	0	0	0	M
52-53	0	0	0	0	0	0	0	0	0	0	0	0	0
53-54	0	0	M	0	0	0	0	0	0	0	0	0	M
54-55	0	0	0	0	0	0	0	0	0	0	0	0	0
55-56	0	0	M	0	0	0	0	0	0	0	0	0	M
56-57	0	0	0	0	0	0	0	0	0	0	0	0	0
57-58	0	0	0	0	0	0	0	0	0	0	0	0	0
58-59	0	0	0	0	0	0	0	0	0	0	0	0	0
59-60	0	0	0	0	0	0	0	0	0	0	0	0	0
60-61	0	0	0	0	0	0	0	0	0	0	0	0	0
61-62	0	0	0	0	0	0	0	0	0	0	0	0	0
62-63	0	0	0	0	M	0	0	0	0	0	0	0	M
63-64	0	0	0	0	0	0	0	0	0	0	0	0	0
64-65	0	0	0	0	0	0	0	0	0	0	0	0	0
65-66	0	0	0	0	0	0	0	0	0	0	0	0	0
66-67	0	0	0	0	0	0	0	0	0	0	0	0	0
67-68	0	0	0	0	0	0	0	0	0	0	0	0	0
68-69	0	0	0	0	0	0	0	0	0	0	0	0	0
69-70	0	0	0	0	0	0	0	0	0	0	0	0	0
70-71	0	0	0	0	0	0	0	0	0	0	0	0	0
71-72	0	0	0	0	0	0	0	0	0	0	0	0	0
72-73	0	0	0	0	0	0	0	0	0	0	0	0	0
73-74	0	0	0	0	0	0	0	0	0	0	0	0	0
74-75	0	0	0	0	0	0	0	0	0	0	0	0	0
75-76	0	0	M	0	0	0	0	0	0	0	0	0	M
76-77	0	0	0	0	0	0	0	0	0	0	0	0	0
77-78	0	0	0	0	0	0							
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945									461		481		M
1946	481	M	M	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	537	538	520	527	496	505	520	522	M
1948	489	432	485	488	508	498	517	495	474	498	459	467	5730
1949	429	372	447	462	500	495	503	515	474	491	477	478	5843
1950	436	372	447	469	495	486	468	506	470	482	450	493	5524
1951	457	415	465	452	492	520	515	481	493	535	M	495	M
1952	446	429	459	482	525	516	521	486	469	480	457	471	5761
1953	446	379	448	472	509	522	536	488	M	522	493	480	M
1954	452	419	479	492	520	527	545	504	454	489	482	474	5837
1955	435	404	482	473	498	488	482	516	M	505	496	478	M
1956	419	405	454	470	497	498	493	502	448	504	500	467	5861
1957	449	383	468	475	529	522	543	522	502	507	488	489	5877
1958	440	395	471	468	495	470	489	511	484	512	486	498	5887
1959	425	395	452	453	497	523	503	471	504	487	476	476	5709
1960	437	435	458	508	512	497	515	478	490	483	489	491	5793
1961	454	431	465	483	510	483	498	464	471	488	468	468	5661
1962	487	393	489	465	519	490	490	521	537	547	M	518	M
1963	436	393	485	470	498	517	493	508	484	485	465	441	5875
1964	501	414	459	484	483	504	540	509	504	529	518	481	5945
1965	435	403	453	475	498	471	480	548	496	508	470	497	5732
1966	466	423	469	533	544	541	566	580	467	527	489	504	6083
1967	498	446	446	480	518	462	483	481	478	499	439	452	5683
1968	513	457	520	477	520	481	481	490	470	496	502	492	5879
1969	437	383	496	527	536	596	570	540	573	553	546	511	6268
1970	480	440	520	525	583	545	529	534	513	547	506	536	6318
1971	504	432	509	541	532	559	570	580	585	608	590	587	6577
1972	552	502	525	480	464	463	474	477	495	492	459	463	5842
1973	399	384	459	497	516	529	558	526	513	515	514	502	5910
1974	497	441	450	506	513	523	499	489	535	567	522	549	6051
1975	512	470	484	488	537	519	490	463	M	497	479	507	M
1976	491	445	462	452	488	509	524	521	506	572	520	506	5996
1977	472	470	484	489	537	542	573	600	524	519	488	479	6127
MEAN	461	415	473	484	513	512	516	511	496	514	493	489	5877

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

AGANA, GUAM

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
41406	Agana, Guam	13°30'N	144°48'E	269	PGUM	91212

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	In Weather Central spaces	FWC	Installed	1958	13°30'N	144°48'E	244	Fortin	24
2.	*Weather service office, first deck Ops Building	NAS	1958	1961	"	"	254.7	"	24
3.	New barometer installed north wall, weather service spaces	NAS	1961	1966	"	"	254.7**	"	24
4.	Lowered from previous position	NAS	1966		"	"	253.8	"	24
1a.	GMQ 14B console	NAS	1962		"	"	257	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	On 18 foot mast atop platform located on terminal building roof	3 cup	unknown	63' ***	1. Barograph (Aero, 1932 USN) 2. Semi-auto Met station (AN/GMQ-14B) 3. Ceiling light (ML-121-H)
2.	1959	Between runway 6L and 6R and approximately in the center	AN/UMQ-5	RD-108	14'	* NAS Agana, Guam was activated on 1 April 1958.
3.	1976	Between runway 6L and 6R and approximately in the center	AN/UMQ-5	RD-108	26'	** Surveyed by Public Works surveyor 2 Dec 1959 and found to be accurate. *** Raised an additional 12 feet to provide for better exposure.

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Alameda is located on the eastern side of San Francisco Bay on the western end of the Alameda Island. The city of San Francisco lies four miles directly across the bay.

Alameda's climate could be best described as Mediterranean, characterized by three dominant features: mild temperatures, rainy winters, and dry summers with a great deal of stratus cloudiness. The general circulation features cool, moist maritime air flowing on shore at low levels from the prevailing westerly winds which emanate from the eastern periphery of the North Pacific anticyclone. Except under unusual circumstances this marine influence results in both diurnal and seasonal temperature variances which are considerably less than would be expected at an inland station in this latitude.

Topographic features are quite influential on San Francisco Bay area weather, since the bay area is dominated by the flow of maritime air. The coastal mountains serve to severely modify, or restrict entirely, the intrusion of this air into the interior valleys, and similarly, these same ranges impede or inhibit the flow of continental air into the bay area. As a result, those areas east of the coastal mountains experience warmer days, cooler nights and fog-free summers.

Traditionally, the winter or "rainy" season begins in November and continues through March. Over 80% of the average rainfall occurs during this period. The transition from the winter rains to the dry summer occurs during the months of April and May. During late May, the incidence of coastal low stratus increases signaling the onset of the summer dry season. The summer dry season occurs during the period of June through September. It is characterized by the formation of stratus cloudiness during the early evening, which usually dissipates by mid-morning, with clear skies during the afternoon. October and early November constitute the transition period from the summer dry season to the winter wet season. Warm days, cooler nights make this period a most pleasant season.

The factors affecting the visibility at Alameda were at one time almost totally confined to fog, common to the cooler season; however, air pollution is fast becoming a major problem in the bay area. Heavy air pollution (smog) will occasionally reduce visibilities below VFR minimums, particularly during the summer season when the easterly gradient opposes the normal sea breeze.

Though thunderstorms are not common in the bay region, they have occurred in all seasons. Although temperatures in excess of 90 degrees F. have been observed during each of the months from April through October, summer temperatures in excess of 80 degrees F. are an exception, and winter temperatures below 34 degrees F. are in the same category.

ALAMEDA, CALIFORNIA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: ALAMEDA, CALIFORNIA
LOCATION : N37 44 W122 19

PERIOD: MAR 45-DEC 77
ELEV : 15

STN LTRS: KNGZ
WBAN # : 23239
WMO # : 74506

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAPR PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.99%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD TENTH	MEAN NUMBER OF DAYS OCCURRENCE OF: PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER	VISIBILITY	MAX TEMP	MIN TEMP
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	MN	MAX 24 HR	MAX MO	LST 04	LST 13														
JAN	55	44	50	72	30	3.5	8.4	.3	2.7	#	#	#	83	68	.26	41	350	SE	6	60	6	10	2	0	0	#	14	0	0	19	#
FEB	59	47	53	76	34	2.3	7.2	#	1.5	#	#	#	82	65	.29	44	400	NW	7	59	6	9	1	0	0	#	10	0	#	10	0
MAR	62	48	55	86	36	2.3	7.7	#	1.6	#	#	#	78	58	.29	44	400	W	8	50	5	9	1	0	0	#	5	0	1	8	0
APR	65	50	58	92	38	1.2	5.5	#	1.8	0	0	0	79	56	.31	46	300	W	8	46	5	5	1	0	0	1	3	#	3	4	0
MAY	67	52	60	100	42	.4	3.4	#	1.4	0	0	0	81	56	.34	48	250	W	9	46	5	2	#	0	0	#	3	#	4	1	0
JUN	71	55	63	101	48	.1	1.2	#	1.0	0	0	0	83	57	.39	52	300	W	9	43	4	1	#	0	0	#	4	1	6	0	0
JUL	71	55	63	101	48	.1	.8	#	.8	0	0	0	86	59	.40	53	200	W	9	35	4	#	#	0	0	#	7	#	6	0	0
AUG	72	56	64	102	40	.1	.9	#	.3	0	0	0	87	59	.42	54	250	W	8	35	5	1	0	0	0	#	8	#	7	#	0
SEP	74	57	66	106	50	.2	2.6	0	2.5	0	0	0	84	55	.42	54	300	W	7	42	4	1	#	0	0	#	6	1	11	0	0
OCT	71	55	63	91	44	1.1	8.2	#	3.3	0	0	0	81	55	.37	51	250	W	6	55	4	4	1	0	0	#	9	#	8	#	0
NOV	63	50	57	85	38	2.3	7.9	#	2.0	#	#	#	81	62	.32	47	300	NW	6	61	5	8	1	0	0	#	12	0	1	4	0
DEC	57	46	51	73	27	3.1	11.1	.2	3.7	#	#	#	83	68	.28	43	350	SE	6	62	6	9	2	0	0	#	15	0	0	15	#
ANN	66	51	59	106	27	14.7	11.1	0	3.7	#	#	#	82	60	.34	48	350	W	7	62	5	59	9	0	0	1	96	2	47	61	#
EYR	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	30	33	33	33	29	33	33	33	33	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER PRESS ALT FEET 99.99% INDICATES IT IS EXCEEDED ONLY 0.01% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	32	29	30	27	36	39	51	51	38	29	27	33	35	33
LESS 3000	04	35	33	34	33	44	47	61	62	47	35	30	36	42	33
FT AND/OR	07	40	41	37	37	45	51	65	68	54	40	35	41	46	33
VISIBILITY	10	37	36	33	29	32	33	37	41	34	30	32	37	34	33
LESS 5 MI	13	32	30	27	21	18	13	9	11	11	16	24	29	20	33
	16	28	24	23	17	14	11	6	9	7	13	20	25	16	33
	19	25	23	23	19	21	19	20	26	15	15	20	23	21	33
	22	26	25	24	21	28	28	37	40	25	24	22	28	27	33
	ALL HRS	32	30	29	26	30	30	36	39	29	25	26	32	30	33
CEILING	01	8	10	6	6	13	21	37	39	23	14	9	11	17	33
LESS 1000	04	11	11	7	7	16	23	44	47	30	17	12	13	20	33
FT AND/OR	07	15	15	10	9	16	23	45	49	31	22	16	16	22	33
VISIBILITY	10	14	13	6	5	6	7	15	18	13	12	12	16	11	33
LESS 3 MI	13	7	6	4	3	2	2	2	2	3	3	6	8	4	33
	16	6	5	4	3	3	3	2	3	2	4	4	6	4	33
	19	5	4	6	4	9	9	14	20	10	6	4	6	8	33
	22	5	5	5	5	12	15	30	32	17	12	6	7	13	33
	ALL HRS	9	9	6	5	10	13	24	26	16	11	9	10	12	33
CEILING	01	5	5	2	2	3	4	10	8	5	4	5	6	5	33
LESS 500	04	7	7	2	2	3	5	11	10	7	5	7	7	6	33
FT AND/OR	07	10	10	4	3	3	3	8	9	6	8	9	9	7	33
VISIBILITY	10	8	8	3	3	2	1	1	1	1	4	6	8	4	33
LESS 1 MI	13	3	3	3	3	1	2	2	1	2	2	2	3	2	33
	16	3	2	3	3	2	2	2	1	1	2	2	2	2	33
	19	3	2	3	2	2	2	2	2	1	2	2	2	2	33
	22	3	2	2	2	2	3	6	5	3	4	3	4	3	33
	ALL HRS	5	5	3	2	2	3	5	5	3	4	4	5	4	33
CEILING	01	3	4	1	1	1	1	1	1	1	2	2	3	2	33
LESS 100	04	5	4	1	1	1	1	1	0	1	2	4	4	2	33
FT AND/OR	07	6	7	2	2	1	1	0	1	1	3	5	5	3	33
VISIBILITY	10	4	3	2	2	2	1	1	1	1	2	3	4	2	33
LESS 1/2 MI	13	2	2	2	3	1	2	2	1	2	2	1	2	2	33
	16	2	2	2	3	2	2	2	1	1	2	1	1	2	33
	19	1	2	2	2	2	2	1	1	1	1	1	1	1	33
	22	2	2	2	1	2	1	1	1	1	2	2	2	2	33
	ALL HRS	3	3	2	2	2	1	1	1	1	2	3	3	2	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1946	M	M	55.1	58.9	59.7	64.7	64.1	63.1	65.5	62.8	55.7	52.2	M
1946	50.4	50.0	54.9	57.9	59.2	63.0	64.8	62.0	65.8	61.7	54.3	50.7	58.0
1947	48.7	53.8	57.5	61.7	62.6	66.0	65.0	66.1	65.8	63.6	56.9P	52.7	M
1948	53.5	51.2	55.3P	55.7	59.3	63.7	64.1	63.1	64.2	62.7	57.0	47.9	M
1949	44.0	47.9	54.4	59.3	60.8	64.3	62.3	63.0	64.7	60.3	59.2	49.9	57.7
1950	49.8	52.0	54.6	59.1	59.2	61.5	63.1	64.9	65.6	63.0	60.0	53.7	58.7
1951	50.1	52.4	55.5	58.4	60.9	60.7	61.4	62.3	64.0	63.4	56.7	49.9	57.7
1952	47.8	52.4	53.6	58.4	61.4	60.6	63.8	63.0	64.7	61.5	55.7	51.3	57.9
1953	54.0	54.0	55.2	56.5	62.8	63.1	64.4	64.5	63.5	58.9	54.3	50.1	58.4
1954	51.7	53.6	53.1	60.1	60.4	62.5	64.1	62.2	64.4	63.1	56.5	49.9	58.5
1955	47.7	54.3	56.4	56.9	60.9	61.5	61.7	61.8	63.3	61.6	56.1	53.0	57.6
1956	51.1	51.2	55.6	57.2	61.1	63.7	62.4	62.6	64.9	61.0	58.1	51.3	58.5
1957	49.1	52.8	55.6	60.0	61.2	66.2	65.1	64.5	67.5	63.3	56.9	51.1	59.5
1958	52.1	50.2	54.0	59.4	62.8	66.4	63.8	66.0	69.8	66.2	58.0	55.9	60.7
1959	53.3	53.4	59.7	61.1	61.1	64.3	65.2	66.0	66.0	66.9	59.1	53.4	60.8
1960	50.5	54.8	57.4	59.0	61.1	64.0	65.5	62.7	63.6	62.7	55.7	51.1	58.9
1961	48.5	50.0	55.5	59.8	59.3	64.0	65.5	65.6	66.3	63.1	56.2	50.0	59.2
1962	50.3	51.6	54.1	60.3	59.5	62.4	62.3	65.1	62.8	62.3	58.6	52.1	58.4
1963	48.3	50.4	55.5	56.1	60.2	62.0	64.4	63.0	66.5	64.0	55.6	48.2	58.6
1964	48.6	54.0	53.1	55.3	58.2	61.2	63.1	64.7	64.3	63.6	55.2	53.0	57.9
1965	50.2	52.6	55.5	57.1	57.9	60.2	60.1	64.0	63.3	64.9	58.2	47.3	57.6
1966	48.5	50.6	53.7	61.4	57.6	62.7	62.2	62.6	65.5	63.5	56.8	50.7	58.0
1967	50.5	53.6	55.7	59.4	57.3	57.6	60.7	62.6	66.8	63.3	60.6	49.6	57.6
1968	49.7	53.4	60.0	58.6	58.6	62.6	64.0	67.9	69.3	64.2	55.7	49.2	59.2
1969	48.0	51.8	55.6	56.5	58.9	62.0	62.1	63.7	63.7	63.4	59.1	56.3	58.6
1970	54.7	57.2	59.0	55.6	61.2	61.5	62.7	60.9	66.6	59.7	57.4	52.7	59.1
1971	46.6	49.1	51.9	52.4	57.2	61.0	63.0	63.5	66.2	60.4	56.3	45.7	56.7
1972	44.5	48.9	55.8	56.1	60.3	60.7	63.1	62.2	64.6	62.1	55.4	46.2	56.7
1973	50.6	52.0	54.3	59.5	59.8	64.0	62.0	60.8	64.7	62.3	55.2	52.6	58.3
1974	50.9	53.6	55.3	57.4	57.9	61.3	63.5	63.9	64.6	64.2	58.7	51.5	58.4
1975	51.0	53.4	55.1	52.5	59.0	60.1	62.2	63.4	63.1	61.1	55.2	52.1	57.2
1976	51.3	54.7	53.0	59.8	60.0	65.0	64.3	60.1	64.2	63.4	58.7	51.6	58.9
1977	48.6	54.9	53.5	57.9	57.3	60.0	62.1	64.1	64.0	61.8	57.3	53.7	58.0
MEAN	49.6	53.2	55.1	57.5	59.7	62.7	63.2	63.9	65.4	62.9	57.0	51.2	58.5

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	3.42	.20P	.78P	.00P	TP	T	T	1.11	2.68	10.58P	M
1946	1.87	1.58	1.67	.02	.41	T	T	TP	T	.12	2.16	2.01	M
1947	1.07P	1.29P	3.13	.08	.60	.54	T	TP	T	T	2.88P	.81P	.80
1948	.69	1.22P	2.18P	2.00P	.81P	.02	T	T	.01	.22P	.89P	3.90	M
1949	1.48	7.25	3.98	T	.60	.06	T	.46	.06	T	.26	.89	2.23	12.17
1950	6.39	1.44	2.14	.82	.56	T	T	T	T	2.17	3.91	5.28	22.77
1951	3.60	7.93	1.18	.65	.82	T	T	.19	T	.88	3.73	9.84	29.93
1952	5.64P	1.18	3.37	.62	.16	.31	T	T	T	.07	1.62	11.06	M
1953	2.80	T	1.31	2.67	.17	.43	T	.11	T	.18	2.04	.18	9.89
1954	3.16	1.62	3.39	.97	.13	.05	.02	.03	T	.08	1.89	4.80	16.08
1955	3.35	1.29	.36	1.02	.09	T	.01	T	T	.08	1.38	10.30	17.88
1956	7.27	1.93	T	1.88	.88	.02	T	T	.18	1.44	.06	.18	13.44
1957	2.48	3.41	2.18	1.34	3.41	.06	T	T	1.16	2.86	.39	2.93	20.44
1958	4.57	6.49	7.67	4.20	.22	.07	T	T	.08	.08	.04	1.16	24.80
1959	4.18	9.67	.29	.26	.01	T	T	.02	2.58	T	T	1.77	18.72
1960	3.02	9.25	2.01	.70	.35	T	T	T	T	.40	2.76	.72	16.01
1961	2.67	1.03	2.57	.70	.67	T	T	.02	.30	.04	3.69	1.98	13.67
1962	.88	5.66	2.13	.37	T	T	T	.09	.24	8.18	.36	2.77	20.88
1963	2.95	7.08	5.18	4.01	.38	T	T	.01	.09	1.30	3.03	.33	17.99
1964	3.07	.12	1.95	.02	.15	.31	T	.01	T	1.30	4.92	4.93	16.08
1965	3.08	.85	1.80	2.78	T	T	.03	T	.11	3.98	2.96	15.94
1966	3.48	2.82	.66	.33	.11	.06	.09	.11	.10	T	3.65	2.96	14.37
1967	8.35	.91	3.86	5.63	.07	1.19	T	.01	.02	.41	.96	1.78	22.96
1968	3.83	1.41	1.34	.37	.12	T	T	.10	.01	.37	2.38	3.11	14.94
1969	7.99	7.18	.77	1.66	T	.02	T	T	.04	2.09	.09	4.54	24.98
1970	6.40	1.52	1.08	.08	.03	.73	T	T	.00	1.10	5.80	4.89	21.63
1971	1.51	.38	2.53	.69	.09	T	T	T	.20	.01	1.68	8.27	15.09
1972	.89	1.24	.15	.92	T	.23	T	T	.81	4.42	4.99	2.55	16.20
1973	8.42	9.81	2.55	.01	.08	T	T	T	.36	1.18	7.86	3.31	29.28
1974	2.88	1.70	3.90	T	.06	.75	T	T	.88	.48	2.91	13.24
1975	1.94	2.80	5.43	1.44	T	.03	.15	.04	T	2.77	.27	.92	15.29
1976	.26	1.25	1.10	.72	T	.01	.01	.08	.41	.37	1.02	1.18	7.22
1977	1.37	.67	1.95	.06	.62	T	T	.01	.88	.19	1.98	3.25	10.98
MEAN	3.51	2.76	2.31	1.19	.35	.14	.05	.06	.23	1.12	2.30	3.10	16.62

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									364	187	189	98	M
45-46	40	48	33	71	278	390	443	401	317	216	175	87	2699
46-47	31	43	40	126	317	436	559	308	225	134	79	31	2369
47-48	29	13	25	81	M	439	346	396	M	267	104	46	M
48-49	46	14	49	89	234	523	648	473	522	163	142	59	2778
49-50	79	40	37	148	170	462	586	358	314	178	185	110	2677
50-51	60	40	40	84	143	346	458	347	289	281	136	132	2334
51-52	109	42	61	80	241	462	529	398	359	194	127	130	2728
52-53	48	49	28	123	271	419	337	284	295	246	154	92	2356
53-54	61	35	9	72	230	326	434	306	363	145	139	83	2207
54-55	54	99	33	85	249	461	528	352	263	296	128	116	2652
55-56	92	112	81	109	272	365	424	393	288	227	128	98	2597
56-57	74	48	19	122	205	420	514	309	281	187	114	23	2286
57-58	34	35	7	53	237	421	594	257	334	173	82	2	2009
58-59	36	7	8	57	203	273	356	318	182	117	125	44	1706
59-60	32	28	19	29	173	352	442	291	237	183	120	36	1953
60-61	51	95	11	93	275	424	547	243	187	165	167	52	2400
61-62	46	14	30	96	258	459	448	362	331	146	186	96	2452
62-63	78	94	79	85	188	391	510	178	287	259	148	75	2312
63-64	41	70	11	45	276	515	473	345	360	285	265	116	2802
64-65	78	76	41	67	284	366	454	344	287	236	213	139	2543
65-66	145	97	67	55	197	544	505	406	368	129	217	100	2786
66-67	88	95	28	77	262	438	445	251	298	461	237	221	2867
67-68	134	78	10	35	139	471	583	260	154	190	250	78	2357
68-69	55	6	9	54	272	485	523	362	305	250	188	88	2593
69-70	88	97	62	70	175	262	310	214	185	274	193	105	1926
70-71	104	141	44	199	222	373	502	414	309	371	228	127	3096
71-72	74	95	27	191	253	391	634	493	277	259	158	138	3030
72-73	92	98	39	106	282	377	492	274	322	161	169	81	2827
73-74	88	128	30	94	287	377	480	321	295	224	229	118	2691
74-75	68	93	51	66	266	411	424	319	359	366	193	144	2700
75-76	130	73	86	143	285	394	418	349	364	269	173	81	2715
76-77	26	14	61	62	182	408	498	275	352	208	232	136	2474
77-78	106	91	30	109	229	341							
MEAN	69	76	39	86	235	422	471	327	301	223	169	91	2491

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945			0	10	0	66	15	15	56	9	0	0	M
1946	0	0	0	8	2	14	32	16	72	32	0	0	176
1947	0	0	0	41	13	68	83	56	57	33	M	0	M
1948	0	0	M	0	1	18	24	43	25	23	0	0	M
1949	0	0	0	0	19	44	2	14	81	14	0	0	194
1950	0	0	1	9	13	10	9	43	63	25	21	0	194
1951	0	0	2	0	16	6	10	7	39	35	0	0	117
1952	0	0	15	3	20	3	18	13	33	20	0	0	149
1953	0	0	0	0	19	21	10	23	38	33	0	0	180
1954	0	0	0	8	4	13	35	20	33	13	0	0	148
1955	0	0	0	0	20	16	0	18	35	12	11	0	112
1956	0	0	0	0	13	36	1	11	55	3	2	0	119
1957	0	0	0	14	4	65	49	29	81	8	0	0	262
1958	0	0	0	11	19	51	9	47	139	38	3	0	337
1959	0	0	9	7	9	29	49	60	91	95	2	0	360
1960	0	0	8	8	7	48	12	11	36	19	0	0	165
1961	0	0	0	16	0	46	69	79	77	49	0	0	292
1962	0	0	0	11	3	28	0	45	19	13	3	0	120
1963	0	0	0	0	3	3	32	14	65	19	0	0	136
1964	0	0	0	3	0	18	27	30	87	32	0	0	192
1965	0	0	0	5	0	4	0	34	27	90	2	0	187
1966	0	0	9	29	0	33	11	20	30	34	3	0	187
1967	0	0	0	0	7	0	11	12	70	41	8	0	149
1968	0	1	6	5	0	24	31	104	111	40	0	0	318
1969	0	0	9	1	3	4	5	55	32	29	4	0	136
1970	0	0	4	0	41	6	40	19	96	13	0	0	219
1971	0	0	0	0	0	13	18	48	128	25	0	0	232
1972	0	0	2	0	21	16	40	14	24	22	0	0	139
1973	0	0	0	2	11	78	22	4	47	13	0	0	177
1974	0	0	0	2	8	13	20	26	38	49	0	0	166
1975	0	0	0	0	33	3	21	52	36	9	0	0	154
1976	0	0	0	0	26	103	11	35	42	41	2	0	262
1977	0	0	0	1	0	12	26	29	29	14	0	0	111
MEAN	0	0	2	6	10	27	21	30	58	28	2	0	184

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

ALAMEDA, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
23239	Alameda, California	37°44'N	122°19'W	15	KNGZ	74506

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office (Ops Bldg)	Navy		1958	37°44'N	122°19'W	28.7	mercurial	24
2.	Weather office (replacement)(Ops Bldg)	"	1958	1961	"	"	27.5	"	24
3.	Weather office (Ops Bldg)	"	1961	1966	"	"	30.7	"	24
4.	Weather Office, Bldg 19, room 205	"	1966	1967	"	"	30.7	"	24
5.	North bulkhead, OOW office, Bldg 19	"	1967	1974	"	"	32.7	"	24
1a.	AN/GMQ-14A console, Bldg 19,Rm 205	"	1959	1967	"	"		aneroid	
2a.	AN/GMQ-14A console, OOW office, Bldg 19	"	1967	1977	"	"	30.3		24
1b.	Weather office, Bldg 19	"	1959		"	"	34.3	aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop operations control tower	selsyn	triple	70'	1. Barograph
2.	Installed 1953	Atop operations control tower	AN/UMQ-5C	RD-108	70'	2. Semi-auto Met.station (AN/GMQ-29)
3.		FLEWEACEN storage spaces	AN/PMQ-3			3. Ceiling light (ML-121)
4.	Relocated 1970	Approach end runway 31	AN/UMQ-5C	RD-108B	15'	4. Cloud height set (AN/GMQ-13D)
5.	Relocated 1974	Weather office, Bldg 19	AN/PMQ-3	RD-108B	15'	5. Transmissometer (AN/GMQ-10C)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Weather Service Environmental Detachment Andrews is located on Andrews Air Force Base in Maryland, southeast of Washington, D.C. Observations are taken by Detachment 1, 7th Weather Wing, Base Weather Services Division at Andrews Air Force Base. The observation site is located on the roof of the Base Operations Building, 35 feet above ground level.

The immediate terrain has a local relief of rolling hills and shallow small stream beds. Andrews, with an elevation of 289 feet MSL, is slightly above the average terrain. As a result, fog which affects Andrews usually forms on surrounding lower ground and is advected onto the field. The arrangement of small hills northwest of the end of the runway apparently has a funneling effect on northwest winds, producing unusually strong crosswinds.

The area experiences four seasons but the transition is usually gradual. Precipitation averages out to a little better than 3 inches per month and a snowfall annual average of 20 inches. Temperatures are generally pleasant in the spring and autumn while summers tend to be warm and humid and winters quite variable.

Strong cross-winds, turbulence and icing create significant hazards to flying safety during the winter. In the summer it is air mass thunderstorms and low level haze that pose the greatest threat to flying safety.

The problem of visibility restrictions due to air pollution exists at Andrews year round. Climatologically, the visibility on the base is restricted by haze and/or smoke on an average of 174 days per year. This situation is much more frequent and significant during the summer months with the greater stagnation of major air masses. Often during the months of July through October visibilities are lower in the morning, ranging normally from 1 1/2 to 5 miles in haze and smoke. As the day progresses, surface heating causes enough low-level convection to raise the thickest part of the haze layer to 1,500 - 2,500 feet, thus allowing the visibility to increase at the surface but remain quite low at the mid - level of the haze layer. The top of the haze layer usually ranges from 6,000 - 9,000 feet, indicating a stable subsidence inversion above it.

Approximately 75% of thunderstorms observed here occur during the months of May, June, July and August. July is the peak month with an average of 7 days with thunder.

ANDREWS AIR FORCE BASE, MARYLAND

PREPARED BY: USAFETAC
JUN 1974

STATION NAME: ANDREWS AFB MARYLAND (CAMP SPRINGS)
LOCATION : N38 49 W076 51

PERIOD: JUN 43-JUL 72
ELEV : 289

STN LTRS: KADW
WBAN NO.: 13705
WMO NO. : 74594

AWS CLIMATIC BRIEF

MONTH	TEMPERATURE (°F) MEAN DAILY MAX	MEAN DAILY MIN	MEAN MONTHLY	EXTREME MAX	EXTREME MIN	PRECIPITATION (IN) MONTHLY MEAN	MONTHLY MAX	MONTHLY MIN	MAX 24 HRS	SNOWFALL (IN) MONTHLY MEAN	MONTHLY MAX	MAX 24 HRS	MEAN RELATIVE HUMIDITY (%) LST 04	LST 13	MEAN VAPOR PRESSURE (In Hg)	MEAN DEW PT (°F)	PRESSURE ALTITUDE (FT) 99.95%	SURFACE WINDS PVLG DRCTN (16 PT)	SURFACE WINDS SPEED MEAN (KT)	SURFACE WINDS SPEED MAX (KT) **	MEAN CLOUD COVER (tenths)	MEAN NUMBER OF DAYS OCCURRENCE OF: PRECIP (IN) ≥ 0.01	PRECIP (IN) ≥ 0.5	SNOWFALL (IN) ≥ 0.1	SNOWFALL (IN) ≥ 1.5	THUNDERS	STORMS	FOG VSBY < 7 MI	TEMPERATURE (°F) MAX ≥ 90	TEMPERATURE (°F) MAX ≥ 80	TEMPERATURE (°F) MIN ≤ 32	TEMPERATURE (°F) MIN ≤ 00
JAN	42	27	35	77	-3	2.9	6.0	.3	2.3	6	27	10	71	58	.12	23	900	NW	8	60	6	10	2	3	1	#	12	0	0	23	#
FEB	45	28	37	79	3	2.8	6.7	.4	1.7	6	22	14	71	56	.13	24	1050	WNW	9	62	6	9	2	2	1	#	11	0	0	19	0
MAR	53	35	44	87	12	3.5	6.6	1.1	1.9	4	28	13	71	52	.17	30	950	NW	9	69	6	11	3	2	1	1	11	0	1	13	0
APR	65	45	55	93	23	3.1	7.2	1.0	2.7	#	3	3	74	50	.25	40	900	NW	9	62	6	10	2	#	#	3	11	#	4	1	0
MAY	74	54	64	96	33	3.9	11.3	1.0	3.1	#	#	#	82	53	.38	51	750	SSW	7	69	6	11	3	0	0	5	14	1	9	0	0
JUN	82	63	73	100	43	3.7	10.5	.8	3.9	0	0	0	85	55	.54	61	700	SSW	6	53	6	9	2	0	0	6	14	5	19	0	0
JUL	86	68	77	102	54	4.4	14.3	.6	3.0	0	0	0	86	55	.62	65	600	SSW	6	74	6	10	3	0	0	7	14	8	26	0	0
AUG	84	66	75	100	48	4.6	14.2	.4	7.1	0	0	0	87	56	.60	64	550	S	5	60	6	9	3	0	0	6	17	7	24	0	0
SEP	78	60	69	100	38	3.4	9.0	.6	4.1	0	0	0	87	57	.49	58	650	S	6	59	5	8	2	0	0	2	14	2	13	0	0
OCT	68	49	59	92	28	3.0	7.3	#	2.9	#	#	#	84	55	.32	47	750	NW	6	47	5	7	2	0	0	1	15	#	3	1	0
NOV	56	39	48	84	13	3.3	7.1	.2	3.1	1	11	11	77	54	.21	36	900	NW	8	54	5	9	2	1	#	#	12	0	#	8	0
DEC	45	29	37	75	7	3.2	6.9	.5	2.3	4	18	10	72	58	.14	26	900	NW	8	57	6	9	2	2	1	#	11	0	0	20	0
ANN	65	47	56	102	-3	41.8	14.3	#	7.1	21	28	14	79	55	.29	44	850	NW	7	74	6	112	28	10	4	31	156	23	99	85	#
EYR	29	29	29	29	29	29	29	29	29	27	27	27	29	29	29	29	28	29	29	24	25	29	29	27	27	27	27	29	29	29	29

REMARKS:

RUSSWO POR:
HOURLY OBS: AND JUN 42-JUL 72
DAILY OBS:

(A) HURRICANES/TROPICAL STORMS
(B) HURRICANES ONLY
(POR: 1900 - 1970)
NUMBER OBSERVED WITHIN 60 NM, 120 NM, 240 NM

	JAN A/B	FEB A/B	MAR A/B	APR A/B	MAY A/B	JUN A/B	JUL A/B	AUG A/B	SEP A/B	OCT A/B	NOV A/B	DEC A/B	ANN A/B
					0/0	0/0	1/0	3/0	6/0	0/0		0/0	10/0
					0/0	0/0	2/0	3/0	9/3	1/0		0/0	15/3
					1/1	4/0	6/2	17/11	26/14	7/3		1/0	62/31

NOTE: * DATA NOT AVAILABLE # LESS THAN 0.5 DAY, 0.5 or 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE ** INSTANTANEOUS PEAK WINDS

CAV FREQ (%)	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING LESS THAN 3000 FT AND/OR VISIBILITY LESS THAN 3 MI	00-02	21	20	18	18	19	14	11	12	15	17	17	18	17	
	03-05	23	19	20	20	24	20	19	20	21	22	18	19	20	
	06-08	24	23	23	20	24	21	22	26	28	28	21	22	24	
	09-11	23	23	22	18	21	17	18	21	21	23	20	23	21	
	12-14	22	21	19	17	17	14	13	15	17	17	17	20	17	
	15-17	19	19	17	14	14	10	9	9	12	14	15	18	14	
	18-20	19	18	16	14	12	10	9	8	11	11	14	18	13	
	21-23	19	18	17	14	14	11	9	9	12	13	15	18	14	
	ALL HRS	21	20	19	17	18	15	14	15	17	18	17	20	18	29
CEILING LESS THAN 1500 FT AND/OR VISIBILITY LESS THAN 3 MI	00-02	18	16	15	14	15	10	8	9	13	13	13	15	13	
	03-05	19	16	16	16	21	16	16	17	18	17	14	16	17	
	06-08	20	21	19	18	22	18	20	25	24	25	18	20	21	
	09-11	20	20	18	15	14	12	10	14	15	17	16	20	16	
	12-14	17	17	15	12	10	8	6	6	9	10	12	17	12	
	15-17	15	15	12	11	8	7	5	5	7	9	11	15	10	
	18-20	14	15	12	10	9	7	6	5	8	7	10	14	10	
	21-23	15	15	14	11	11	8	6	6	9	9	10	15	11	
	ALL HRS	17	17	15	13	14	11	10	11	13	13	13	17	14	29
CEILING LESS THAN 1000 FT AND/OR VISIBILITY LESS THAN 2 MI	00-02	15	14	13	12	12	7	6	6	10	10	10	13	11	
	03-05	16	14	14	13	17	12	12	13	15	14	11	14	14	
	06-08	17	17	16	15	17	12	13	16	18	19	14	16	16	
	09-11	16	17	14	11	10	7	5	8	10	12	12	15	11	
	12-14	13	14	11	9	6	5	2	3	6	7	9	14	8	
	15-17	12	13	11	8	5	4	3	3	5	6	8	12	8	
	18-20	11	13	11	8	6	4	3	3	6	6	7	12	8	
	21-23	13	13	12	9	8	5	4	4	7	8	8	12	9	
	ALL HRS	14	14	13	11	10	7	6	7	10	10	10	14	11	29
CEILING LESS THAN 200 FT AND/OR VISIBILITY LESS THAN 1/2 MI	00-02	4	4	3	3	3	1	1	1	2	4	3	4	3	
	03-05	5	5	4	4	5	3	2	3	4	6	4	4	4	
	06-08	5	6	4	3	3	1	2	2	4	7	4	5	4	
	09-11	4	3	1	1	#	#	#	#	#	1	1	3	1	
	12-14	2	2	1	#	#	#	0	#	0	0	#	2	1	
	15-17	3	2	1	#	#	0	#	#	#	#	1	2	1	
	18-20	3	2	1	1	1	#	#	#	#	1	2	2	1	
	21-23	4	4	3	2	1	#	#	#	1	2	2	4	2	
	ALL HRS	4	4	2	2	2	1	1	1	1	3	2	3	2	29

AWS FORM 62
PREVIOUS EDITION IS OBSOLETE.

STATION NO ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
13705	Andrews Air Force Base, Maryland	38°49'N	76°51'W	289	KADW	74594

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			(FT)	TYPE BAROMETER	
1.		AF	1948	1961	38°49'N	76°51'W	283		
2.			1961		"	"	274		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1954	1320'N of station on top of a hangar 50' high.	Selsyn			1. Rain gauge (ML-17) 2. Temp sensing equipment (TMQ 11) 3. Transmissometer (GMQ-10) 4. Cloud height Set (GMQ-13)
2.	1955	7/8 mile from weather station on top of a hangar 60' high.	"	ML-144B		
3.	1956	200' from weather station on top of hangar.	ML-151/ ML-152	"	68'	
4.	1959	1600' from base weather station on top of hangar.	same	"	68'	
5.	1961	450'NW of WOSB		"	Unk	
6.	1962	Additional equipment centered between parallel runways 01 L&R and 19 L&R on southern sector of the base.	GMQ-11	RO2		
7.	1963	Dual wind equipment installation	"			
		a. Centered between runways 01 L&R and 19 L&R about 300'S of N End.		RO 362	13	
		b. Centered between runways 01 L&R and 19 L&R about 300'N of S End.	"	"	13	
8.	1966	Moved to 1500'S of N End & 1500' N of S End	"	"	13	
9.	1970	a. 807' from center of and 1414' N of end of runway 01 L.	GMQ-20	Unk	Unk	
		b. 540' from center of and 1203' S of N end of runway 19 R.	"	"	"	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Barbers Point is located on the island of Oahu, the third largest of the Hawaiian Islands. There are two mountain ranges of climatic importance on the island: the Koolau Range, oriented northwest to southeast and the Waianae Range with an average elevation of 3000 feet. A large valley lies between the two mountain ranges, and a relatively flat coastal plain extends along the southern coast. Barbers Point is situated on the leeward side of the island at the southern end of Waianae Range.

Balmy trade wind weather with infrequent light showers is the rule at Barbers Point. The winter season brings periods of wet, inclement weather. The Kona storm, a local wintertime phenomena, replaces the northeast trades with southerly winds and rainy weather.

Flying weather is generally excellent in Hawaii. Visual Flight Rules (VFR) prevail at Barbers Point more than 99 percent of the time. Marginal flying weather usually occurs in association with a Kona or frontal passage. Fog is rarely reported in the islands and has no significant affect on aircraft operations at Barbers Point.

The trade winds are moist when they reach the islands but through orographic lifting the air is relieved of most of its moisture as it passes over the Koolau Range. As a result, the leeward areas of the island have sunny skies and few showers during a trade regime. Eighty-nine percent of the annual rainfall is recorded during the months from October through April. January is normally the wettest month of the year, averaging 4.4 inches of rain. Though June and July are the driest months of the year, with an average of 0.3 inches, the months of May through September are all nearly as void of precipitation, each averaging less than an inch of rain each year.

Northeasterly trade winds prevail over Oahu during all months of the year. From November through March the trades are occasionally interrupted by moderate to strong southerly winds associated with a Kona or cold frontal passage.

Temperatures at Barbers Point are pleasant throughout the year. The mean annual temperature is 76 degrees, varying from a mean of 72 degrees in winter to 79 degrees during summer. Summertime temperatures rarely exceed 90 degrees. The temperature may dip into the low 50's on a few occasions during the winter each year following a cold frontal passage.

The humidity is rarely uncomfortably high at Barbers Point. The higher humidities are recorded during the cooler part of the year.

Barbers Point is not plagued by destructive weather. Thunderstorms are rare during the summer months and occur only infrequently during the winter.

BARBERS POINT, HAWAII

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: BARBERS POINT, HAWAII
LOCATION : N21 19 W158 05

PERIOD: JAN 49-DEC 77
ELEV : 33

STN LTRS: PHNA
WBAN # : 22514
WMO # : 91178

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	EXTREMES MAX	MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX 24 HR	MAX	RELATIVE HUMIDITY LST 04	13	VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER DAY	VSBY FOG < 7MI	MAX DEG > 90	F = 75	MIN AND < 65	< 55
JAN	79	66	87	50	4.4	14.1	.5	5.3	0	0	0	82	64	.58	63	330	NE	8	60	5	10	2	0	0	1	#	0	29	14	1
FEB	79	65	72	86	52	2.4	10.0	#	4.6	0	0	0	81	63	.56	62	250	NE	8	51	5	7	1	0	0	1	0	0	26	13	#
MAR	79	66	73	87	54	2.5	17.3	.1	10.5	0	0	0	80	61	.58	63	200	NE	8	51	5	7	1	0	0	1	#	0	29	12	#
APR	80	68	74	87	54	1.5	12.0	#	3.9	0	0	0	79	60	.58	63	200	NE	9	39	5	6	1	0	0	1	#	0	29	7	#
MAY	82	69	76	88	62	.9	8.5	#	3.1	0	0	0	79	59	.60	64	100	NE	8	38	5	4	#	0	0	#	#	0	31	4	0
JUN	84	71	77	90	61	.3	2.0	#	1.4	0	0	0	77	58	.62	65	330	NE	8	39	5	3	#	0	0	#	0	#	30	1	0
JUL	85	72	79	90	64	.3	1.2	#	1.2	0	0	0	78	58	.64	66	50	NE	9	37	5	4	#	0	0	#	0	#	31	1	0
AUG	85	73	79	91	61	.3	2.1	#	1.9	0	0	0	78	57	.67	67	100	NE	9	45	5	4	#	0	0	#	0	1	31	#	0
SEP	86	72	79	92	63	.4	1.7	#	1.4	0	0	0	78	58	.67	67	150	NE	8	42	4	4	#	0	0	#	0	2	30	1	0
OCT	84	71	78	91	61	1.4	5.6	#	4.0	0	0	0	80	60	.67	67	150	NE	8	36	5	3	1	0	0	#	#	1	31	1	0
NOV	82	70	76	89	57	2.6	11.7	#	7.0	0	0	0	81	62	.64	66	200	NE	8	47	5	7	1	0	0	1	#	0	30	4	0
DEC	80	67	74	88	53	2.9	8.0	.1	4.7	0	0	0	80	62	.60	64	250	NE	8	45	5	8	2	0	0	1	#	0	30	9	#
ANN	82	69	76	92	50	19.9	17.3	#	10.5	0	0	0	79	60	.62	65	200	NE	8	60	5	69	9	0	0	6	#	4	357	67	1
EYR	29	29	29	29	29	29	29	29	29	18	18	18	29	29	29	29	29	29	29	29	29	29	29	18	18	29	29	29	29	29	29

REMARKS: *DATA NOT AVAILABLE, # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA	% HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	02	19	16	14	15	9	11	12	10	7	11	14	18	13	29
LESS 5000	05	21	18	16	16	11	13	12	10	7	10	13	17	14	29
FT AND/OR	08	23	18	18	16	12	16	18	14	9	12	17	21	16	29
VISIBILITY	11	20	20	22	22	18	24	26	22	14	18	21	21	21	29
LESS 5 MI	14	24	23	26	28	24	29	27	20	19	23	24	26	24	29
	17	22	22	22	24	22	24	21	16	18	23	24	24	22	29
	20	20	18	15	17	16	21	14	12	10	15	16	18	16	29
	23	20	16	14	14	11	10	10	11	8	12	15	16	13	29
	ALL HRS	21	19	18	19	15	19	18	14	12	15	18	20	17	29
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1000	05	1	0	0	0	0	0	0	0	0	0	0	1	0	29
FT AND/OR	08	0	0	0	0	0	0	0	0	0	0	0	0	0	29
VISIBILITY	11	1	1	0	0	0	0	0	0	0	0	0	0	0	29
LESS 3 MI	14	1	1	0	0	0	0	0	0	0	0	0	1	0	29
	17	1	0	0	1	0	0	0	0	0	0	1	1	0	29
	20	0	1	0	0	0	0	0	0	0	0	0	0	0	29
	23	1	0	1	1	0	0	0	0	0	0	0	1	0	29
	ALL HRS	1	0	0	0	0	0	0	0	0	0	0	1	0	29
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 500	05	0	0	0	0	0	0	0	0	0	0	0	0	0	29
FT AND/OR	08	0	0	0	0	0	0	0	0	0	0	0	0	0	29
VISIBILITY	11	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1 MI	14	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	17	0	0	0	1	0	0	0	0	0	0	0	0	0	29
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	23	0	0	0	1	0	0	0	0	0	0	0	0	0	29
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	29
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 100	05	0	0	0	0	0	0	0	0	0	0	0	0	0	29
FT AND/OR	08	0	0	0	0	0	0	0	0	0	0	0	0	0	29
VISIBILITY	11	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1/2 MI	14	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	17	0	0	0	1	0	0	0	0	0	0	0	0	0	29
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	23	0	0	0	1	0	0	0	0	0	0	0	0	0	29
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	29

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	69.0P	70.5	71.4	72.6	76.4	76.4	76.9	77.6	77.6P	78.1	73.1	72.9	M
1950	72.1	72.7	72.9	73.3	75.1	76.6	77.4	78.4	78.0	77.5	75.2P	71.5	M
1951	72.7	71.5	72.4	73.8	75.5	76.5	76.9	78.0	76.5	77.9	75.9	73.3	75.3
1952	72.1	72.5	72.6	72.2	72.8	75.7	77.0	77.8	77.4	76.3	73.8	72.9	74.6
1953	72.1	72.3	72.7	73.9	75.6	76.5	77.6P	78.2	77.5	76.8	74.3	72.5	M
1954	71.7	72.6	72.8	74.3	74.3	77.2	77.5	78.8	78.8	77.6	76.3	72.7	75.2
1955	72.1	70.3	70.9	73.3	75.8	76.7	75.9	79.8	76.1	75.4	74.7	73.6	73.8
1956	73.4	71.8	73.4	73.6	75.1	75.9	77.4	78.3	78.5	77.4	75.4	73.8	75.3
1957	72.4	70.1	70.9	72.9	75.1	77.5	78.6	78.5	76.5	78.4	76.9	73.3	75.3
1958	71.3	71.9	70.2	72.8	74.0	76.7	77.6	78.9	76.5	77.2	74.9	72.2	74.7
1959	72.5	71.6	74.5	73.8	75.6	77.6	78.6	78.9	79.3	77.7	73.4	73.6	75.8
1960	71.8	71.4	72.1	73.5	76.2	77.9	78.6	79.0	78.4	78.0	73.4	73.4	75.5
1961	72.1	72.6	74.3	73.2	76.7	77.6	78.3	79.4	78.9	78.4	75.4	74.6	76.2
1962	73.6	71.3	72.5	73.2	75.7	76.9	77.7	78.2	77.8	76.5	76.5	72.5	75.4
1963	71.7	73.1	73.4	74.8	75.3	76.9	78.2	79.0	79.4	78.0	76.1	73.9	75.7
1964	74.1	73.1	73.5	73.8	75.0	77.5	77.4	78.3	78.6	77.0	76.0	75.2	75.7
1965	72.5	69.0	71.2	74.0	76.1	77.3	78.1	78.7	79.3	77.4	75.2	71.9	75.1
1966	71.0	70.7	72.4	72.1	75.8	78.1	78.2	78.9	79.5	78.0	76.6	74.2	75.5
1967	72.1	73.4	73.0	74.0	77.4	78.3	79.4	79.8	80.1	78.9	76.1	73.9	76.6
1968	72.4	72.0	73.3	75.3	76.7	78.9	79.5	80.7	79.5	80.4	76.8	73.0	76.6
1969	68.8	72.9	72.6	73.9	75.4	76.8	79.4	77.7	76.9	76.0	76.2	72.9	75.0
1970	71.3	68.8	72.3	73.8	75.7	76.8	M	80.4	79.6	79.3	76.4	72.9	M
1971	71.9	73.4	77.5	78.3	78.1	79.2	79.2	80.2	80.5	78.4	78.5	76.4	77.7
1972	71.0	70.7	71.4	74.4	75.3	77.5	78.9	80.6	80.9	78.8	75.1	72.6	75.6
1973	72.9	70.5	74.4	74.0	76.9	77.5	80.2	81.3	82.1	78.6P	76.7	74.5	M
1974	74.8	74.1	75.0	76.3	76.3	78.7	78.3	78.7	80.6	79.7	76.0	76.1	77.0
1975	73.1	71.1	71.4	73.8	76.0	77.4	79.7	79.4	79.6	78.1	77.0	73.9	75.8
1976	74.4	73.7	73.5	74.0	76.7	76.6	77.6	79.7	79.7	78.9	73.7	73.3	75.8
1977	74.5	73.3	76.3	75.3	77.5	77.6	78.9	80.9	80.7	78.5	76.3	75.8	77.2
MEAN	72.4	72.0	72.8	74.1	75.8	77.2	78.3	79.0	79.0	77.8	75.8	73.5	75.6

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	14.09	4.80	.18	.23	.08	.07	.24	.12	.20P	.15	.13	3.97	M
1950	9.91	1.07	.67	2.02	.04	.27	.14	.38	.04	.13	.39P	3.60	M
1951	.96	9.54	17.27	.91	.04	.17	.14	.40	1.65	4.07	.34	4.99	34.78
1952	3.45	T	.43	.05	.69	.06	.46	T	.02	3.28	.68	.24	9.32
1953	.95	1.93	1.66	.05	.45	T	.12P	T	.09	.01	.04	3.49	M
1954	.85	2.81	2.05	2.91	.05	.08	.22	.11	.62	.26	9.84	1.97	21.42
1955	2.80	9.98	4.12P	.22	.60	.01	.20	.18	.77	2.09	6.61	M	M
1956	3.21	9.96	.07	.30	.49	T	1.24	.23	.16	.66	7.21	2.66	21.59
1957	13.38	.67	.08	.96	T	.22	.85	.02	T	2.13	3.23	2.29	22.28
1958	.83	1.98	12.61	.08	.18	.14	.36	1.98	.12	3.37	.06	1.42	22.84
1959	3.41	2.61	.11P	.23	.67	.06	.21	2.09	.19	.91	1.68	.30	M
1960	.67	.96	1.58	.03	2.00	.11	.68	.17	.64	1.13	.32	1.30	8.62
1961	4.05	.89	.18	.71	.19	.49	.24	.12	.29	2.68	1.18	1.91	12.28
1962	4.04	2.14	2.61	1.24	.61	.20	.08	.27	.26	2.09	.01	3.70	19.31
1963	9.77	1.06P	6.63	12.03	1.10	1.13	.63	.11	1.63	.13	.20	2.24	M
1964	2.89	.03	3.33	1.97	.12	.03	.43	.17	.18	.11	3.22	4.64	17.04
1965	2.54	.96	.33	.56	4.41	.07	.68	.18	.89	9.60	11.71	3.12	32.57
1966	1.02	4.09	.33	.31	.37	.06	.08	.13	.30	.97	3.18	1.32	12.16
1967	.99	1.89	4.06	.24	.83	.70	.31	1.06	.44	.67	.81	6.71	19.62
1968	9.61	9.21	2.57	1.94	1.15	.13	.17	T	.61	2.09	3.26	8.04	38.60
1969	7.85	.01	1.23	.10	.66	.06	.02	.01	.43	.16	2.13	.42	12.66
1970	1.45	.41	.06	.18	.16	.07	M	.04	.11	1.94	9.02	.10	M
1971	8.75	1.79	1.25	1.71	.31	1.63	T	.33	1.29	1.46	.76	1.32	18.82
1972	5.57	3.48	2.05	3.17	.16	.29	.16	.16	.98	2.38	.44	7.21	26.45
1973	1.49	1.61	.46	.68	.98	.08	.31	.25	.07	.93P	3.86	4.12	M
1974	4.67	.98	1.42	4.42	.40	1.96	.80	T	.26	2.04	1.18	.27	17.55
1975	5.44	6.06	1.87	.18	.89	.06	.18	T	.14	.08	7.31	.67	20.38
1976	.85	8.90	.86	1.27	.11	.14	.10	.10	.38	.11	.36	.13	12.61
1977	.98	.06	.65	1.03	8.45	.48	.07	.11	.04	.22	.91	1.90	14.79
MEAN	4.35	3.43	2.50	1.46	.92	.31	.31	.32	.42	1.36	2.81	2.89	19.84

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
48-49								0	0	0	0	0	M
49-50	0	0	M	0	0	0	0	0	0	0	0	0	M
50-51	0	0	0	0	M	0	0	0	0	0	0	0	M
51-52	0	0	0	0	0	0	0	0	0	0	0	0	0
52-53	0	0	0	0	0	0	0	0	0	0	0	0	0
53-54	M	0	0	0	0	0	0	0	0	0	0	0	M
54-55	0	0	0	0	0	0	0	0	1	0	0	0	1
55-56	0	0	0	0	0	0	0	0	0	0	0	0	0
56-57	0	0	0	0	0	0	0	0	0	0	0	0	0
57-58	0	0	0	0	0	0	0	0	0	0	0	0	0
58-59	0	0	0	0	0	0	0	0	0	0	0	0	0
59-60	0	0	0	0	0	0	0	0	0	0	0	0	0
60-61	0	0	0	0	0	0	0	0	0	0	0	0	0
61-62	0	0	0	0	0	0	0	0	0	0	0	0	0
62-63	0	0	0	0	0	0	0	0	0	0	0	0	0
63-64	0	0	0	0	0	0	0	0	0	0	0	0	0
64-65	0	0	0	0	0	0	0	0	0	0	0	0	0
65-66	0	0	0	0	0	0	0	0	0	0	0	0	0
66-67	0	0	0	0	0	0	0	0	0	0	0	0	0
67-68	0	0	0	0	0	0	0	0	0	0	0	0	0
68-69	0	0	0	0	0	0	0	5	0	0	0	0	5
69-70	0	0	0	0	0	0	0	2	0	0	0	0	2
70-71	M	0	0	0	0	0	1	0	0	0	0	0	M
71-72	0	0	0	0	0	0	0	1	0	0	0	0	1
72-73	0	0	0	0	0	0	0	0	0	0	0	0	0
73-74	0	0	0	M	0	0	0	0	0	0	0	0	M
74-75	0	0	0	0	0	0	0	0	0	0	0	0	0
75-76	0	0	0	0	0	0	0	0	0	0	0	0	0
76-77	0	0	0	0	0	0	0	0	0	0	0	0	0
77-78	0	0	0	0	0	0							
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1949		140	203	234	295	350	377	398		337	251	252	M
1950	227	247	295	321	356	394	427	449	398	394	M	210	M
1951	246	199	239	269	323	352	440	461	417	407	334	296	3929
1952	225	272	245	243	326	378	403	476	363	330	251	350	3590
1953	230	279	344	274	338	353	M	413	386	371	286	237	M
1954	213	216	184	286	295	373	394	436	422	400	347	247	3819
1955	228	147	161	252	278	297	363	392	360	323	300	276	3295
1956	268	274	268	264	321	335	393	419	411	393	319	292	3876
1957	235	150	186	246	318	379	433	426	408	422	363	284	3830
1958	203	198	167	239	286	360	398	437	435	394	304	226	3629
1959	237	199	301	269	335	386	423	438	434	402	318	267	4003
1960	219	193	229	283	336	394	428	443	409	408	320	265	3927
1961	226	246	296	312	369	387	423	452	423	419	315	298	4166
1962	279	182	239	312	339	366	404	419	392	361	333	240	3866
1963	216	294	268	299	326	365	418	445	414	409	337	293	4014
1964	288	240	255	272	320	382	397	419	416	378	336	323	4027
1965	238	118	198	277	350	373	412	434	434	385	311	222	3756
1966	191	167	234	237	362	397	418	437	437	410	354	295	3899
1967	230	244	257	275	397	415	465	466	463	437	341	281	4261
1968	235	274	263	315	370	425	457	493	441	474	362	257	4316
1969	130	228	243	273	330	362	435	398	385	347	343	252	3727
1970	208	110	236	273	337	358	M	483	444	456	345	253	M
1971	222	298	391	404	432	432	448	478	468	448	413	300	4713
1972	195	174	217	287	328	380	426	491	430	432	312	241	3974
1973	253	161	298	276	364	383	479	511	522	M	359	302	M
1974	309	267	317	345	358	417	419	433	474	463	338	351	4483
1975	258	177	219	270	349	377	464	450	417	411	367	280	4039
1976	296	202	254	277	366	357	395	480	448	434	267	263	4019
1977	303	295	358	315	421	382	439	496	478	455	348	343	4540
MEAN	236	203	249	278	335	373	420	441	427	404	331	270	3967

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

BARBERS POINT, HAWAII

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
22514	Barbers Point, Hawaii	21°19'N	158°05'W	33	PHNA	91178

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Second deck operations building	Navy	1950	1957	21°19'N	158°05'W	50	Mercurial	24
2.	Relocated within weather services spaces	"	1957	1969	"	"	50	"	24
3.	Relocated within weather services spaces	"	1969		"	"	50	"	24
1a.	NWSED spaces, 2nd deck operations building	"	1966		"	"	52	Aneroid	

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	18 ft mast on the operations tower	Selsyn	Double register	84'	* Earlier documentation not available. 1. Barograph (ML-3)
2.	1957	Near the intersection of the runways at a distance of 2400 feet SE of operations building	AN/UMQ-5C	RD 108B	12'	2. Semi-auto Met Sta (AN/GMQ-14B) 3. Ceiling light (ML-121)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The U.S. Marine Corps Air Station, Beaufort, South Carolina is located on the northwest portion of Port Royal Island. The Atlantic Ocean is approximately 20 miles to the northeast of the air station. The field is 35 feet above sea level. Tidal swamp land is abundant throughout the area alternating with scrub pines.

The winters are mild due to the proximity of the ocean and the river surrounding the area. The coolest months are December thru January. Snow flurries have been observed but no measurable amount is likely to fall.

The spring season brings about a spectacular change in the Beaufort weather. While cold blasts of polar air continue to move over the area in March and early April, warm tropical air is beginning to move up from the south. Violent reaction between the two air masses produces thunderstorms and gusty surface winds. By the middle of May the days become sunny and mild as the mean temperature rises.

Summers in Beaufort are hot and humid. Temperatures approach but rarely exceed 100 degrees F. Daily temperatures average about 88 degrees F. for a maximum and 72 degrees F for a minimum.

The maximum temperatures are greatly affected by a cooling sea-breeze which usually occurs during the early to mid-afternoon hours. Forty-one percent of the total annual rainfall occurs in the summer. Afternoon rainshowers and thunderstorms are the primary source of this precipitation. Thunderstorms occur on an average of 33 days during the months of June, July and August.

The changeover from a hot, humid and wet summer to a mild and dry fall season, or Indian Summer, begins during the month of October. April and November are the driest months of the year with an average monthly precipitation ranging between two and three inches. The precipitation comes in the form of light, steady rain falling over an extended period.

The hurricane season for the local area extends from 1 June to 30 November. The months of August, September and October are by far the months of the most frequent occurrence. All major destructive storms move in directly from the Atlantic, but inclement weather can be carried over coastal South Carolina from dissipating cyclones that made landfall over Florida and the Gulf Coast states.

BEAUFORT, SOUTH CAROLINA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: BEAUFORT, SOUTH CAROLINA
LOCATION : N32 28 W80 40

PERIOD: OCT 57-DEC 77
ELEV : 38

STN LTRS: KNBC
WBAN # : 93831
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAPR PRES SAT IN OF HG	DEW PT	PRESS ALT FEET	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL INCHES .1 OR GTR	SNOWFALL INCHES 1.5 OR GTR	THUNDER STORM DAYS	VISIBILITY BY FOG DAYS < 7MI	MAX TEMP DEG > 90	MAX TEMP DEG > 75	MIN TEMP AND < 32	MIN TEMP AND < 20
	MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX 24 HR	MAX	HUM LST 04	HUM LST 16		DEW PT DEG F	99.95%																
JAN	58	39	83	10	3.4	5.6	1.0	1.7	#	2	1	82	62	.24	39	450	W	6	45	6	10	3	#	0	1	18	0	2	9	1
FEB	61	40	84	16	3.4	6.7	.9	2.5	#	6	6	79	57	.25	40	350	W	7	60	5	9	3	#	#	1	15	0	2	6	#
MAR	68	48	88	24	4.2	8.7	.6	2.7	#	#	#	80	54	.31	46	300	S	7	43	6	10	3	#	0	3	19	#	8	2	0
APR	76	56	86	93	36	2.7	6.2	.1	4.9	0	0	0	81	53	.42	54	450	S	7	58	5	7	2	0	0	3	17	1	16	0	0
MAY	82	64	73	97	41	4.6	10.5	2.2	3.4	0	0	0	86	56	.58	63	350	S	6	55	5	9	3	0	0	6	20	4	27	0	0
JUN	87	70	79	103	56	5.7	13.6	.9	3.9	0	0	0	88	61	.71	69	300	S	5	50	6	11	4	0	0	9	20	8	29	0	0
JUL	89	73	81	102	62	7.4	19.1	2.7	4.8	0	0	0	88	63	.79	72	250	S	5	46	6	14	5	0	0	14	20	14	31	0	0
AUG	88	73	81	101	61	8.4	18.0	3.2	6.2	0	0	0	90	63	.79	72	250	S	4	55	6	13	5	0	0	11	24	12	31	0	0
SEP	84	69	77	98	45	4.1	11.8	.6	5.8	0	0	0	89	64	.69	68	300	NNE	5	120	6	9	3	0	0	5	23	5	29	0	0
OCT	77	57	87	91	31	2.9	10.4	.1	4.3	0	0	0	86	58	.47	57	350	NNE	5	41	4	6	2	0	0	2	19	#	20	#	0
NOV	68	47	88	88	19	2.2	7.3	.3	6.9	0	0	0	84	57	.34	48	400	W	5	46	5	6	1	0	0	1	18	0	7	2	#
DEC	61	41	81	82	12	3.1	6.3	1.1	2.9	#	#	#	82	60	.26	41	450	W	5	43	5	9	2	0	0	1	16	0	2	7	#
ANN	75	56	66	103	10	52.1	19.1	.1	6.9	#	6	6	84	59	.45	56	400	S	5	120	5	113	36	#	#	57	229	44	204	26	1
EYR	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	20	20	20	20	20	21	21	20	20	20	20

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	30	25	22	15	17	13	9	11	13	14	21	23	18	20
LESS 5000	04	33	27	23	15	16	15	10	14	18	19	23	28	20	20
FT AND/OR	07	38	33	32	21	21	19	13	20	26	27	29	32	26	20
VISIBILITY	10	36	32	27	23	30	31	28	34	32	24	22	28	29	20
LESS 5 MI	13	33	29	27	23	36	38	40	42	40	27	23	27	32	20
	16	29	27	23	22	25	29	31	27	25	22	21	24	25	20
	19	26	25	22	16	16	18	17	16	19	16	16	23	19	20
	22	27	22	22	14	14	14	12	12	14	13	15	21	17	20
	ALL HRS	31	28	25	18	22	22	20	22	23	20	21	26	23	20
CEILING	01	16	9	11	5	4	3	1	2	4	4	8	10	6	20
LESS 1000	04	18	13	12	6	7	6	2	3	5	8	11	12	9	20
FT AND/OR	07	20	19	17	9	11	9	5	7	12	14	15	14	12	20
VISIBILITY	10	19	14	12	6	4	4	3	5	7	9	9	12	9	20
LESS 3 MI	13	14	11	7	3	3	3	1	3	3	4	4	9	5	20
	16	12	9	6	2	2	3	1	2	2	4	4	7	4	20
	19	11	10	7	4	2	2	2	2	4	3	4	8	5	20
	22	12	9	9	4	3	1	1	1	3	5	8	8	5	20
	ALL HRS	15	11	10	5	5	4	2	3	5	6	7	10	7	20
CEILING	01	5	3	2	1	0	0	0	0	0	1	3	4	2	20
LESS 300	04	7	4	3	1	2	2	0	1	2	2	3	5	3	20
FT AND/OR	07	8	5	5	2	1	1	1	2	3	4	6	4	3	20
VISIBILITY	10	6	3	1	0	0	0	0	0	0	0	2	3	1	20
LESS 9/4 MI	13	2	1	0	0	0	0	0	0	0	0	0	1	1	20
	16	2	1	0	0	0	0	0	0	0	0	1	0	0	20
	19	3	2	0	0	0	0	0	0	0	0	1	3	1	20
	22	4	2	2	0	0	0	0	0	0	0	1	3	1	20
	ALL HRS	5	3	2	1	1	0	0	0	1	1	2	3	2	20
CEILING	01	2	1	1	0	0	0	0	0	0	0	1	2	1	20
LESS 100	04	2	2	1	0	1	1	0	0	0	0	1	2	1	20
FT AND/OR	07	3	2	1	1	0	0	0	0	1	1	1	1	1	20
VISIBILITY	10	1	0	0	0	0	0	0	0	0	0	0	1	0	20
LESS 1/4 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	19	1	0	0	0	0	0	0	0	0	0	0	0	0	20
	22	1	1	1	0	0	0	0	0	0	0	1	1	0	20
	ALL HRS	1	1	0	0	0	0	0	0	0	0	1	1	0	20

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1957	M	M	M	M	M	M	M	M	M	59.6	51.8	M	M
1958	46.6	44.2	54.3	65.9	72.7	78.5	81.9	81.3	77.3	68.9	61.9	48.8	64.6
1959	47.8	54.9	56.3	66.5	75.8	79.1	80.2	81.2	78.9P	71.1	57.5	50.2	M
1960	50.1	49.2	67.3	66.9	75.0	79.1	81.3	81.6	77.2	70.0	60.6	45.6	65.1
1961	46.2	54.2	59.7	61.6	71.1	77.7	81.9	79.7	78.1	65.9	61.2	52.8	66.1
1962	49.2	47.8	56.1	63.2	77.5	77.8	82.4	80.3	79.5	68.5	54.9	47.5	65.7
1963	46.7	48.1	61.0	67.1P	72.6	79.2	80.3	81.7	76.3	67.6	57.6	44.5	M
1964	48.0	47.9	57.8	66.4	73.8	81.1	78.6	78.7	78.4	63.7	61.6	53.7	65.6
1965	50.1	52.1	59.7	66.3	76.4	76.9	80.4	80.8	76.6	66.5	58.9	51.1	66.0
1966	45.5	40.6	59.7	63.1	70.8	75.0	80.8	79.5	76.1	66.5	56.5	48.8	64.3
1967	50.2	49.0	60.7	69.0	72.3	78.9	79.4	79.0	76.7	64.1	56.1	56.6	64.9
1968	49.1	44.4	56.6	67.3	72.9	78.3	82.1	82.6	76.0	67.4	53.9	48.0	64.6
1969	46.0	47.7	52.7	65.9	71.2	80.5	83.4	78.1	76.3	68.5	54.7	47.6	64.2
1970	41.2	49.6	57.7	67.4	72.9	77.8	81.4	81.9	80.0	69.5	56.9	52.6	65.7
1971	48.8	51.0	55.6	63.9	71.0	79.4	80.3	80.1	77.8	71.4	57.7	59.3	66.1
1972	54.4	49.9	58.3	65.8	71.8	78.2	83.0	82.5	79.2	71.2	58.7	57.0	66.9
1973	49.4	48.4	62.1	63.3	72.9	78.8	81.1	79.4	78.3	69.0	61.3	50.7	66.2
1974	52.2	53.0	65.7	65.3	74.8	76.8	79.8	80.0	76.7	66.3	57.3	52.4	67.2
1975	54.7	56.3	58.9	64.9	76.0	80.2	80.5	82.0	77.5	70.4	60.1	50.6	67.6
1976	46.0	48.2	62.0	63.5	68.9	76.6	80.3	78.7	79.5	61.0	50.4	48.1	63.4
1977	38.7	47.0	60.7	67.5	73.5	81.2	82.7	80.0	77.9	68.5	60.5	48.8	65.2
MEAN	48.3	50.5	59.5	65.6	73.1	78.2	81.1	80.4	76.4	67.0	57.7	50.6	65.5

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1957	M	M	M	M	M	M	M	M	M	M	4.18	1.81	M
1958	4.48	9.93	6.31	4.56	2.66	2.79	3.96	5.58	1.68	3.67	.82	2.02	40.83
1959	3.34	4.88	7.60	1.69	6.60	2.69	8.97	3.24	10.79P	10.35	1.73	1.61	M
1960	4.88	9.18	2.83	2.67	2.60	3.87	14.68	4.36	11.78	1.27	1.31	1.92	56.75
1961	2.16	9.92	5.11	6.16	4.69	3.41	8.73	18.02	.39	.11	.87	1.98	55.15
1962	3.70	.90	5.72	3.36	2.29	9.10	3.02	11.35	4.76	2.96	1.55	1.10	50.41
1963	2.51	4.43	.67	1.98	2.87	13.97	4.12	6.53	2.71	.26	2.90	2.13	44.38
1964	5.57	4.46	5.91	3.52	3.78	3.44	19.12	9.54	3.71	5.66	1.21	3.48	67.60
1965	1.02	9.70	8.68	3.43	2.21	9.93	8.11	6.61	3.61	4.01	3.19	2.10	57.90
1966	5.84	3.59	4.14	2.14	10.32	4.76	6.93	3.78	1.69	.97	.32	2.20	46.62
1967	5.15	2.82	1.10	1.84	3.30	2.60	9.13	6.28	1.73	.32	1.00	2.56	39.92
1968	1.72	.91	.85	1.63	2.78	6.96	3.86	3.56	1.46	6.71	3.80	5.13	40.97
1969	1.91	1.79	5.66	1.01	3.71	6.71	4.21	17.71	6.78	2.83	7.25	3.24	64.88
1970	2.68	2.51	6.58	1.67	4.26	.92	3.23	7.48	2.29	4.16	.31	2.92	40.91
1971	3.33	9.17	3.45	3.84	4.08	4.96	9.31	13.74	.90	4.24	3.04	5.48	59.12
1972	4.99	9.68	3.26	.10	6.00	5.80	2.69	9.82	1.96	.08	5.09	3.27	48.82
1973	4.79	9.25	6.59	3.02	2.32	9.02	6.54	6.50	6.54	.38	.45	5.60	55.00
1974	1.35	9.62	1.99	1.39	4.48	5.91	9.31	13.90	4.93	.14	1.87	4.01	48.26
1975	3.66	9.85	4.58	4.87	7.36	6.91	9.84	9.05	8.46	2.92	1.44	3.90	66.44
1976	2.60	1.70	2.44	4.96	6.70	9.87	4.60	5.94	6.94	3.68	3.99	6.32	58.03
1977	2.93	1.50	4.09	1.86	4.38	2.91	6.84	6.65	5.81	1.51	.96	4.48	48.26
MEAN	3.42	5.37	4.21	2.72	4.37	5.69	7.38	8.41	4.11	2.90	2.23	3.08	52.09

HEATING DEGREE DAYS

Season	Jul.*	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
56-57													M
57-58	M	M	M	M	190	402	628	573	523	68	12	0	M
58-59	0	0	0	91	130	496	526	595	589	61	0	0	1846
59-60	0	0	M	29	253	449	657	495	536	52	8	0	M
60-61	0	0	0	40	149	592	576	301	124	136	9	2	1925
61-62	0	0	2	55	301	599	693	513	360	126	0	0	1817
62-63	0	0	2	76	297	538	560	521	162	M	20	0	M
63-64	0	0	9	32	222	628	522	490	225	53	9	0	2180
64-65	0	0	0	102	131	352	634	362	305	64	0	0	1770
65-66	0	0	0	78	181	426	601	400	288	81	11	0	2046
66-67	0	0	0	36	270	498	651	447	174	23	21	1	1939
67-68	0	0	11	89	325	527	612	590	281	42	3	0	2290
68-69	0	0	0	78	336	583	583	477	378	63	4	0	2482
69-70	0	0	1	52	308	527	724	618	232	68	10	0	2387
70-71	0	0	3	24	286	551	694	592	378	103	12	0	2095
71-72	0	0	0	13	259	298	278	434	212	92	3	0	1479
72-73	0	0	0	38	272	261	475	459	127	103	7	0	1742
73-74	0	0	0	92	168	438	118	341	116	79	3	0	1285
74-75	0	0	3	86	252	387	329	251	236	92	0	0	1632
75-76	0	0	0	26	207	441	502	297	144	86	12	1	1756
76-77	0	0	0	170	433	517	808	497	173	49	3	0	2652
77-78	0	0	0	105	177	498							
MEAN	0	0	1	64	239	444	514	409	252	73	7	0	2005

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1957											36	0	M
1958	0	0	0	102	255	411	530	509	370	63	45	0	2291
1959	0	17	8	112	362	432	479	509	M	221	34	0	M
1960	1	0	6	113	263	427	514	516	374	199	17	0	2434
1961	0	2	61	40	202	392	531	464	400	88	95	17	2292
1962	11	23	9	78	307	388	546	483	324	193	3	0	2485
1963	0	0	47	M	261	452	479	526	287	119	7	0	M
1964	0	0	8	102	280	488	429	495	319	72	24	0	2206
1965	0	0	8	24	118	362	564	484	300	136	131	4	0	2348
1966	2	1	8	91	202	304	497	496	339	108	22	3	2033
1967	0	1	48	150	226	332	484	438	189	70	2	14	1954
1968	0	0	25	130	241	403	525	544	337	160	5	0	2370
1969	0	0	4	78	258	207	471	578	413	289	106	7	0	2208
1970	1	0	13	105	262	388	517	590	462	172	2	7	2499
1971	0	0	10	77	203	440	479	496	393	220	30	38	2372
1972	16	6	9	123	219	313	562	548	434	113	29	20	2392
1973	0	0	44	97	258	421	505	490	403	170	47	4	2359
1974	38	10	86	94	314	357	462	470	365	72	25	6	2295
1975	11	18	39	94	347	461	487	534	380	199	67	1	2836
1976	1	9	37	49	137	297	479	388	234	53	2	0	1706
1977	0	0	49	152	276	494	534	474	394	65	50	0	2488
MEAN	4	5	28	99	264	401	505	484	351	133	37	6	2307

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

BEAUFORT, SOUTH CAROLINA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93831	Beaufort, S. C.	32°28'N	80°43'W	38	KNBC	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	MCAS	1958	1963	32°28'N	80°43'W	31.55	Tonnelot	24
2.	Weather Service office (new barometer installed)	"	1963	1965	"	"	"	"	24
3.	Weather service office (North bulkhead of room 128, Bldg 600)	"	1965	1968	"	"	"	Fortin	24
4.	Weather service office (North bulkhead of room 128, Bldg 600)	"	1968		"	"	Ht above Ground 6.0	"	24
1a.	Weather service office (North bulkhead of room 128, Bldg 600)	"	1960		"	"	8.5	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop operations building	AN/UMQ-5	RD-108	45'	1. Aneroid Barometer (ML-448/UM) 2. Barograph (ML-3-D) 3. Semi-auto Met Station (AN/GMQ-29) 4. *Cloud height set (AN/GMQ-13) 5. Theodolite (ML-247) 6. Transmissometer (AN/GMQ-10) 7. Radar (AN/FPS-106) 8. Weathervision (GMQ-19V) *Two sets in use.
2.	1960	Eleven hundred feet north of Bldg 600, and twelve hundred feet south of the intersection of the runways.	"	"	12'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Bermuda Islands are located in the Western Atlantic, approximately 575 nautical miles east southeast of Cape Hatteras. Bermuda Island is the largest of the group, measuring 12 miles in length, and averaging about 1 mile in width. Naval Air Station Bermuda is located on the southern side of St. David's Island, one of the smallest islands of the group. Two thirds of the base is built on a reclaimed section of Castle Harbor, an inlet that separates Bermuda Island from St. David's Island.

The surrounding sea is the major factor in controlling Bermuda weather. No great topographic effects are felt. The only noticeable effect will occur with light (less than 14 knots) summer winds from the southeast quadrant. These will produce a cloud bank over the island with bases of 3,000 feet with possible light rain showers. The sea temperature around Bermuda ranges from the low 60's in winter to near 82 degrees F. in summer. In winter, the comparatively warm waters of the Gulf Stream modify the outbreaks of cold air from the North American continent as much as 30 to 40 degrees F. In summer the proximity of the ocean prevents any very high temperatures.

The weather is often described as consisting of two distinct seasons - summer and winter. Summer weather is generally from May through October. During this period mostly fine weather is the rule with varying degrees of shower activity and predominate light southerly winds. The winter months (December through March) are characterized by frequent frontal passages and migratory low pressure areas moving through, often with very strong and persistent winds.

From early June to early October the average daily maximum temperature is about 80 degrees F. The months of January, February and March have average daily minimums of near 60 degrees F. and average daily maximums of 67 to 68 degrees F.

The average annual rainfall is 53.9 inches. The rainfall is distributed fairly evenly over the year with 4 to 5 inches normal for most months.

Actual hurricane force winds have been experienced on an average of one out of five years. Tropical storms affect Bermuda most frequently during September. February is the windiest month with an average of 8.4 gale days. Other months from November through March average 4 to 7 gale days. The warmer months average less than one gale day.

BERMUDA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: BERMUDA
LOCATION : N32 22 W64 40

PERIOD: JAN 49-DEC 77
ELEV : 11

STN LTRS: MKKP
WBAN # : 13601
WMO # : 78016

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL INCHES			RELATIVE HUM		VAP PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN AMT CLD TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER STORMS	VISIBY	MAX TEMP	MIN TEMP
	MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	MEAN	MAX 24 HRS	MIN	MAX 24 HR	MN	MAX	MAX 24 HR	04 LST	13 LST															
JAN	68	60	64	76	46	4.5	9.9	.5	2.7	#	#	#	74	68	.42	54	550	W	12	67	7	16	3	0	0	2	#	0	1	15	#
FEB	67	60	64	75	44	3.8	9.8	1.6	3.7	#	#	#	74	67	.40	53	550	W	13	77	7	15	2	0	0	1	1	0	#	15	#
MAR	68	60	64	77	45	4.1	8.9	1.8	3.3	0	0	0	73	67	.42	54	600	W	13	62	7	15	2	0	0	2	1	0	1	17	#
APR	70	62	66	81	48	2.9	7.7	.3	3.1	#	#	#	76	66	.45	56	500	W	12	49	6	11	2	0	0	2	1	0	2	10	0
MAY	74	67	71	83	58	3.5	8.9	.8	2.7	0	0	0	82	72	.58	63	300	S	10	45	6	10	2	0	0	2	1	0	16	1	0
JUN	80	73	76	88	63	5.1	14.2	.8	3.7	#	#	#	85	75	.71	69	200	S	10	45	6	11	3	0	0	2	1	0	29	0	0
JUL	84	76	80	91	68	4.1	10.6	.7	3.4	0	0	0	82	71	.79	72	100	SSW	9	57	5	13	2	0	0	4	0	#	31	0	0
AUG	85	77	82	91	68	5.0	10.5	1.4	3.2	0	0	0	79	69	.79	72	100	S	8	85	5	14	3	0	0	5	#	1	31	0	0
SEP	83	76	80	90	66	5.4	10.7	2.0	3.7	0	0	0	78	69	.74	70	250	E	9	90	6	15	3	0	0	3	#	#	30	0	0
OCT	79	72	76	87	57	6.7	14.6	1.4	5.2	0	0	0	76	69	.64	66	350	S	10	59	6	16	4	0	0	3	#	0	28	#	0
NOV	74	67	71	83	55	4.3	10.9	.8	4.9	0	0	0	72	66	.52	60	400	N	11	64	6	14	2	0	0	2	#	0	12	2	0
DEC	70	63	66	78	50	4.4	11.7	1.6	2.7	#	#	#	72	66	.44	55	400	W	11	66	7	16	3	0	0	1	1	0	2	9	0
ANN	75	68	72	91	44	59.8	14.6	.3	5.2	#	#	#	77	69	.56	62	400	S	11	90	6	166	31	0	0	29	6	1	183	69	#
EYR	27	27	27	27	27	27	27	27	27	27	27	27	29	29	29	29	28	28	29	19	29	27	27	27	27	27	27	27	27	27	27

REMARKS: #DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA	% HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	02	34	38	34	33	28	24	8	7	12	17	21	30	24	29
LESS 5000	05	37	39	37	35	34	30	11	9	11	17	22	31	26	29
FT AND/OR	08	36	40	40	33	31	26	12	10	11	18	24	36	26	29
VISIBILITY	11	34	36	31	26	23	22	12	9	11	17	22	31	23	29
LESS 5 MI	14	35	35	32	25	22	19	8	11	10	18	24	29	22	29
	17	34	36	32	26	22	23	8	10	9	15	22	32	22	29
	20	35	38	33	30	26	22	8	7	9	16	21	28	23	29
	23	32	37	32	30	26	21	5	5	11	18	21	28	22	29
	ALL HRS	35	37	34	30	27	23	9	8	11	17	22	31	24	29
CEILING	02	1	2	3	3	8	5	0	0	1	1	1	1	2	29
LESS 1000	05	1	2	4	4	7	6	0	0	0	1	0	1	2	29
FT AND/OR	08	1	2	3	3	5	5	1	0	0	1	1	1	2	29
VISIBILITY	11	1	1	2	3	3	4	0	0	1	1	1	1	1	29
LESS 3 MI	14	2	1	3	3	3	3	0	0	1	1	0	2	2	29
	17	1	2	3	4	4	3	0	1	1	1	0	2	2	29
	20	1	2	2	4	5	5	0	0	1	1	1	1	2	29
	23	1	2	3	4	6	5	0	0	1	1	1	1	2	29
	ALL HRS	1	2	3	3	5	4	0	0	1	1	1	1	2	29
CEILING	02	0	1	1	1	2	2	0	0	0	0	0	0	1	29
LESS 400	05	0	0	1	1	1	1	0	0	0	0	0	0	1	29
FT AND/OR	08	1	0	1	1	1	1	0	0	0	0	0	0	1	29
VISIBILITY	11	1	0	0	1	1	1	0	0	0	0	0	0	0	29
LESS 1 MI	14	0	0	0	1	0	1	0	0	0	0	0	0	0	29
	17	0	0	1	1	1	1	0	0	0	0	0	0	0	29
	20	0	0	0	1	1	0	0	0	0	0	1	0	0	29
	23	0	1	0	2	2	1	0	0	0	0	0	0	1	29
	ALL HRS	0	0	1	1	1	1	0	0	0	0	0	0	0	29
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 200	05	0	0	0	0	0	0	0	0	0	0	0	0	0	29
FT AND/OR	08	0	0	0	0	0	0	0	0	0	0	0	0	0	29
VISIBILITY	11	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1/2 MI	14	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	17	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	29

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	68.2	64.2	64.6	67.4	71.0	78.2	80.3	80.7	78.6	73.7	71.2	66.8	71.7
1950	65.6	63.8	65.9	68.4	70.7	76.7	81.0	81.3	78.9	73.2	70.8	67.2	71.7
1951	65.7	63.2	61.8	66.8	71.3	75.9	80.6	81.2	80.1	73.7	70.9	66.7	71.5
1952	64.3	62.9	63.1	67.0	70.8	77.2	80.6	82.5	80.2	77.0	69.0	66.8	71.7
1953	64.8	63.9	63.6	66.8	71.9	78.1	81.2	81.5	79.69	73.6	72.0	68.6	M
1954	64.6	63.4	63.5	68.1	72.1	76.2	80.8	81.3	80.7	76.7	72.0	66.0	72.3
1955	62.5	61.4	64.7	66.8	70.6	76.0	79.4	81.0	79.7	75.2	68.8	63.6	70.8
1956	61.4	63.7	64.3	66.0	71.1	76.0	80.2	80.4	80.1	73.6	69.7	68.8	71.4
1957	64.4	63.6	63.8	68.4	70.9	73.3	77.3	78.3	77.6	73.7	70.0	65.9	70.7
1958	62.2	59.1	60.9	66.0	69.8	75.4	80.4	81.7	78.6	74.8	71.4	66.9	70.4
1959	63.6	63.4	64.4	67.6	69.5	75.8	80.4	80.0	78.4	73.6	72.2	67.1	71.3
1960	63.4	63.4	60.7	67.4	70.7	76.8	80.1	81.3	78.8	73.0	70.1	66.2	71.0
1961	63.3	62.9	63.5	65.4	69.5	76.1	80.2	81.7	80.0	76.8	69.6	66.0	71.3
1962	66.7	64.7	62.0	66.1	69.4	75.3	79.0	81.3	79.0	76.1	69.5	65.7	71.2
1963	63.1	63.3	64.2	63.5	70.5	76.4	80.9	80.7	79.1	73.3	68.5	63.6	70.6
1964	62.3	61.3	63.1	68.0	70.7	76.5	78.5	79.8	78.7	73.6	69.1P	66.1	M
1965	63.4	62.2	62.2	62.8	69.4	73.6	79.8	81.0	77.7	72.3	68.5	64.6	70.1
1966	62.0	60.9	62.5	66.3	71.4	75.9	79.2	82.1	79.1	75.4	69.3	63.2	70.6
1967	64.6	63.5	62.0	63.4	69.1	72.9	79.2	81.7	78.7	73.0	69.7	65.3	70.5
1968	M	M	M	M	M	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	77.5	79.1	77.9	72.8	69.0	65.4	M
1971	62.8	64.4	64.6	68.4	70.0	76.5	80.7	82.0	81.1	76.9	68.5	65.5	71.4
1972	65.5	63.3	64.2	67.9	71.0	75.3	80.0	80.2	80.1	73.9	69.9	68.0	71.6
1973	64.6	62.2	64.8	66.2	71.0	76.1	78.9	80.9	79.4	72.9	67.1	65.8	70.8
1974	68.4	66.9	66.6	67.2	71.5	78.7	82.5	82.0	81.5	75.3	71.7	68.4	73.3
1975	67.6	67.1	65.9	66.1	72.9	77.0	81.9	83.7	80.3	78.0	74.0	68.3	73.4
1976	69.5	66.2	66.6	67.6	73.0	80.2	80.5	83.7	78.9	77.0	71.1	67.6	73.0
1977	66.8	63.0	64.9	66.7	71.7	77.9	81.5	83.2	80.3	76.6	71.8	67.8	72.2
MEAN	64.1	62.8	63.8	65.9	70.8	76.2	80.1	81.3	79.4	75.4	70.3	66.2	71.4

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	1.44P	3.39	3.82	2.86	3.08	7.66	2.98	5.18	2.70P	4.81	2.88	M	
1950	.56	1.86	6.08	2.89	6.26	4.16P	3.49	4.14	8.20	4.24	2.95	2.41	M
1951	5.48	2.76	2.42	2.76	2.48	2.93	3.22	4.26	3.66	6.23	4.68	4.16	48.40
1952	1.02	4.22	2.01	2.98	1.14	3.01	4.85	2.60	2.70	6.72	.78	4.40	37.50
1953	3.22P	1.78	3.86	4.33	2.33	3.72	1.72	6.32	6.27P	10.67	1.22	3.80	M
1954	2.18P	3.76	5.54	.76	3.36	4.78	3.29	4.60	2.99	1.58	6.32	3.22	M
1955	7.09P	3.71	3.52	1.13	2.26	4.88	3.26	1.97	3.22P	8.22	2.73	3.32	M
1956	4.75P	2.95	3.58	1.46	1.58	1.41	3.09	6.22	3.80	9.90	4.14	3.08	M
1957	3.11	2.97	9.19	.96	1.28	6.36	10.58	9.27	6.25	9.73	7.06	2.38	66.42
1958	9.86	5.08	4.34	7.70	.94	5.28	9.04	3.96	3.25	4.34	3.42	7.49	61.06
1959	5.38P	3.59	4.21	3.21	2.06	8.26	1.62	4.65	5.95	6.47	3.32	6.21	M
1960	3.58	7.01	4.27	1.91	7.14	4.17	8.21	3.87	8.78	8.04	2.00	11.78	69.87
1961	4.30	2.60	1.79	6.48	6.73	8.00	3.28	4.20	2.04	5.36	6.53	3.19	54.91
1962	3.81	2.38	8.90	5.13	3.32	10.18	4.13	3.60	10.48	2.43	10.34	4.80	79.42
1963	5.37	8.97	3.38	2.12	5.09	2.92	4.72	10.48	4.19	11.84	4.179	5.55	M
1964	5.60	9.08	1.91	.70	3.26	4.28	1.88	8.04	10.67	4.32	3.839	3.88	M
1965	3.08	7.54	4.23	3.14	.78	3.83	3.99	4.13	3.39	4.08	4.00	8.43	49.98
1966	6.31	4.38	4.39	2.46	1.60	4.61	6.01	3.88	9.07	10.67	3.49	4.18	50.98
1967	3.87	4.91	2.29	3.97	3.27	4.86	3.22	1.44	3.86	14.39	2.49	1.85	52.44
1968	M	M	M	M	M	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	M	M	5.93	4.73	7.13	5.83	3.18	4.54	M
1971	3.67	1.46	3.88	3.32	3.38	3.72	3.30	6.07	9.47	2.92	6.22	2.78	53.77
1972	3.25	6.79	3.49	3.26	.84	5.18	1.96	4.76	3.50	7.55	8.29	3.72	58.01
1973	9.76	3.77	1.88	.38	1.96	3.76	10.21	4.47	9.92	8.41	1.47	2.13	56.01
1974	.73	4.62	2.89	3.48	6.73	.84	4.69	8.79	4.80	6.96	3.02	2.46	50.01
1975	.97	5.20	3.26	2.34	4.71	4.18	.74	5.04	4.70	3.28	1.30	4.99	37.14
1976	3.83	7.40	4.63	2.60	2.99	1.11	3.13	4.92	3.14	7.13	8.12	3.96	47.06
1977	8.04	4.73	2.84	1.99	3.01	8.71	1.90	3.90	7.85	4.44	5.94	6.95	61.08
MEAN	4.51	3.93	4.06	2.91	3.52	5.07	4.11	5.03	5.44	6.67	4.32	4.43	59.90

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
48-49							20	35	49	7	0	0	M
49-50	0	0	0	0	0	23	28	60	60	39	1	0	213
50-51	0	0	0	0	0	10	57	69	108	15	0	0	267
51-52	0	0	0	0	6	20	39	58	82	4	0	0	216
52-53	0	0	0	0	0	32	27	39	37	7	0	0	162
53-54	0	0	M	0	0	17	52	55	37	8	0	0	M
54-55	0	0	0	0	0	21	91	98	49	17	0	0	268
55-56	0	0	0	0	6	79	108	52	53	20	3	0	317
56-57	0	0	0	0	0	3	40	27	34	29	0	0	133
57-58	0	0	0	0	1	18	94	140	122	45	0	0	440
58-59	0	0	0	0	0	26	76	72	44	8	0	0	226
59-60	0	0	0	0	0	12	71	47	136	11	1	0	278
60-61	0	0	0	0	0	45	61	74	67	31	3	0	281
61-62	0	0	0	0	0	24	7	40	99	28	1	0	199
62-63	0	0	0	0	3	38	78	53	50	65	0	0	287
63-64	0	0	0	0	1	62	82	106	71	34	0	0	356
64-65	0	0	0	0	M	23	62	83	95	63	0	0	M
65-66	0	0	0	0	2	34	97	116	79	41	1	0	370
66-67	0	0	0	0	0	29	38	64	104	62	1	0	298
67-68	0	0	0	0	4	24	M	M	M	M	M	M	M
69-70	M	M	M	M	M	M	M	M	M	M	M	M	M
70-71	0	0	0	0	4	30	77	40	37	72	3	0	263
71-72	0	0	0	0	9	39	68	51	10	0	0	0	212
72-73	0	0	0	1	5	12	34	62	32	14	0	0	182
73-74	0	0	0	0	7	27	12	41	15	12	0	0	114
74-75	0	0	0	1	0	4	8	15	24	57	0	0	111
75-76	0	0	0	0	0	6	28	42	14	8	0	0	109
76-77	0	0	0	0	0	15	128	48	38	6	0	0	257
77-78	0	0	0	0	0	19							
MEAN	0	0	0	0	2	25	56	64	62	28	1	0	238

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1949	33	22	40	64	191	333	482	495	414	341	193	60	2678
1950	55	25	35	60	186	356	504	515	422	323	180	84	2745
1951	28	21	7	68	208	396	490	511	461	359	192	77	2791
1952	24	8	30	69	190	373	499	549	442	393	127	86	2776
1953	25	16	25	68	220	389	509	517	M	331	219	131	M
1954	46	16	56	106	226	363	496	519	477	368	216	58	2926
1955	12	7	38	77	183	317	493	502	469	322	197	93	2369
1956	3	21	40	87	198	338	478	486	456	338	181	123	2749
1957	30	53	29	46	188	313	387	418	384	278	139	55	2365
1958	14	1	9	21	157	318	492	523	417	312	199	81	2599
1959	22	32	29	91	163	326	484	471	411	338	225	86	2698
1960	29	19	9	88	184	361	474	510	418	318	182	89	2599
1961	19	20	22	48	152	339	478	526	483	362	146	82	2697
1962	69	38	9	88	142	316	444	510	429	351	143	88	2567
1963	25	12	35	24	181	348	500	493	428	284	112	19	2461
1964	7	4	14	40	185	291	425	483	417	337	M	82	M
1965	22	9	18	34	143	320	467	504	388	264	113	87	2306
1966	10	7	4	28	207	336	448	535	430	327	142	43	2517
1967	34	30	17	20	138	262	468	527	417	317	192	68	2388
1968	M	M	M	M	M	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	396	446	393	251	130	30	M
1971	19	10	32	4	163	390	493	529	491	434	112	98	2715
1972	55	31	34	88	190	311	493	478	461	281	188	113	2692
1973	29	7	39	88	193	336	439	500	487	291	76	61	2420
1974	124	45	71	86	206	419	546	533	502	329	207	117	3185
1975	95	93	59	56	233	366	528	583	468	408	276	114	3269
1976	61	45	71	98	254	483	486	549	422	390	189	93	3150
1977	9	16	45	66	212	392	517	569	472	366	212	98	2968
MEAN	34	24	31	60	188	361	476	511	439	330	167	90	2671

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

BERMUDA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
13601	Bermuda	32°22'N	64°40'W	11	MXKF	78016

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.		Navy	1948	1954	32°16'N	64°51'W	40.8		
2.		"	1954	1960	"	"	44.0		
3.	N. wall of Weather Service Office Bldg 1	"	1960	1966			44.0	Mercurial	
4.	W. wall of Weather Service Office Bldg 42	"	1966	1969	"	"	30.5	"	
1a.	Weather Service Office, Bldg 1	"	1960	1966	"	"	47	Aneroid	
2a.	Weather Service Office, Bldg 42	"	1966	1969	"	"	32	"	
	Moved to Kindley AFB 22 Oct 69. Relocation effective 1 July 70.								
5.	Building 1079	"	1968*		32°22'N	64°40'W	4.0	Fortin	
3a.	Building 1079	"	1977		"	"	9.0	Aneroid	
	*Kindley AFB								

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1948	Roof of Admin. Building	ML 400B/ UMQ 5			1. Barograph (ML 563A/UM) 2. Auto Met Sta (GMQ 29)
2.	1954	Roof of control tower	" "	RD-108A	91'	3. Ceiling light (ML 121)
3.	1960	Roof of AN/GMQ 14A shed	" "	RD-108B	61'	4. Cloud height set (GMQ 13A)(2 ea)
4.	1960	Roof of hangar #1	" "	"	102 MSL	5. Theodolite (ML 247)
5.	1966	Third deck roof of Bldg 42	" "	"	75 MSL	6. Radar (FPS-106)
6.	1966	Transmitter also 1600' W from end of runway 30	*UMQ 5	RD-108B	8'	7. Radiosonde (GMD-1) 8. APT (AN/GKR-4)
		Moved to Kindley AFB 22 Oct 69. Relocation effective 1 July 70.				
7.	1970	600' S from end of runway 12	*UMQ 5	"	12'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Brunswick is located one mile southeast of the city of Brunswick, Maine. The terrain surrounding the station slopes gently downward to several inlets and bays which extend northward from the open sea to within one to two miles of the station.

As a general rule, Brunswick has a very pleasant summer and autumn. Maximum temperatures during the summer months range from the low 50's in April to the high 70's in July and August. Very few summer nights are too warm or humid for comfortable sleeping. Autumn has the greatest number of sunny days and least cloudiness. Winters are quite severe, but begin late and then extend deeply into the normal spring time. Temperatures below zero are recorded frequently each winter. Cold waves are sometimes accompanied by strong winds, but extremely low temperatures (i.e. -20 degrees F.) are generally accompanied by light winds and clear nights. Mean maximum temperatures during the winter months range from mid to low 30's.

The Appalachian Mountains cause an increased frequency of winds from the south or south-west. This is the prevailing direction during summer, spring, and fall, and northerly winds prevail in the winter. The diurnal land and sea breeze characteristic of the coastal region is the dominate factor in the summer and autumn. Land breezes are predominately northerly in direction and sea breezes southerly.

Advection fog during the spring and summer and radiation fog during the autumn frequently reduce visibility to near or below GCA minimums. Advection fog may persist for several days.

Brunswick's average annual precipitation is 45 inches. Normally 82 inches of snow falls during the winter. True blizzards in the form of "Nor'easters" can pile up 21 inches in 12 hours. Precipitation during the summer months is usually in the form of showers. Tropical storms may bring substantial rainfall to the area during the summer or early autumn.

Severe weather can come in the form of hurricanes , thunderstorms, and Northeasters. Occasionally in August or September, hurricanes move northward into New England. One such storm in August 1954 resulted in the maximum wind of 73 knots. Thunderstorms have an average occurrence of 4 times a month during June through August. Severe weather during the winter is limited to Northeasters, which can give the area heavy rain and snow with winds to 50 knots.

BRUNSWICK, MAINE

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: BRUNSWICK, MAINE
LOCATION : N43 53 W69 56

PERIOD: JAN 45-DEC 77
ELEV : 75

STN LTRS: KNHZ
WBAN # : 14611
WMO # : 74392

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL				RELATIVE HUM		VAPR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD TENTH	PRECIP .01 OR GTR	PRECIP .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER	VIS 6 MI FOG < 7MI	MAX DEG > 80	MAX DEG > 65	MIN DEG < 32	MIN DEG < 00
	MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX	MAX 24 HR	04	13																		
JAN	30	11	21	61	-24	3.7	9.4	.9	2.8	19	48	17	71	62	.08	12	1050	N	7	51	6	11	2	8	4	#	11	0	0	30	7
FEB	32	13	23	59	-25	4.0	7.3	1.3	3.0	20	49	15	71	60	.08	13	1100	N	7	59	6	10	3	7	4	#	11	0	0	27	5
MAR	41	24	33	81	-10	4.6	10.9	.8	2.5	16	44	13	72	58	.12	22	1050	N	8	53	6	11	3	6	3	#	13	#	#	25	#
APR	52	34	43	83	13	3.7	6.4	1.1	3.2	4	14	11	76	54	.17	31	900	S	8	52	6	11	2	2	1	#	15	#	2	12	0
MAY	62	43	53	92	28	3.4	6.5	.5	2.3	#	6	4	80	55	.26	41	750	S	7	52	6	12	2	#	#	2	17	1	12	2	0
JUN	72	53	63	96	37	3.4	6.7	1.1	2.9	0	0	0	83	59	.39	52	650	S	6	68	6	11	2	0	0	4	19	6	24	0	0
JUL	77	59	68	98	42	2.7	5.9	.6	3.2	0	0	0	84	59	.49	58	600	S	6	50	6	9	2	0	0	5	19	11	30	0	0
AUG	76	58	67	104	37	3.1	8.1	1.1	3.9	0	0	0	85	59	.47	57	500	S	6	73	6	9	2	0	0	4	20	10	30	0	0
SEP	68	50	59	95	28	3.3	11.6	.9	3.1	0	0	0	85	60	.36	50	650	S	6	72	6	10	2	0	0	1	19	2	20	#	0
OCT	58	40	49	85	17	3.7	8.6	1.0	2.9	#	4	4	80	59	.25	40	800	S	6	49	6	10	2	#	#	1	18	#	7	6	0
NOV	46	31	39	74	5	4.8	10.3	1.2	2.6	4	14	8	80	65	.17	31	950	N	6	55	6	12	3	2	1	#	16	0	#	18	0
DEC	34	17	26	62	-19	3.9	10.0	1.4	3.1	19	62	21	76	65	.10	18	1050	N	7	52	6	12	3	7	4	#	13	0	0	28	2
ANN	54	36	45	104	-25	44.8	11.6	.5	3.1	82	62	21	79	60	.21	36	850	S	7	73	6	128	28	32	17	17	191	35	125	148	14
EYR	28	28	28	28	28	28	28	28	28	28	28	28	27	27	27	27	26	28	28	27	26	28	28	28	28	27	27	28	28	28	28

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	34	29	32	34	32	32	28	27	32	34	39	35	32	27
LESS 5000	04	33	32	32	36	36	35	36	33	38	34	41	37	35	27
FT AND/OR	07	33	33	33	33	32	32	32	31	33	32	42	36	33	28
VISIBILITY	10	30	30	33	36	35	32	33	28	32	32	40	34	33	28
LESS 5 MI	13	28	32	38	38	36	34	32	29	33	34	41	33	34	28
	16	28	30	35	35	33	29	24	24	28	30	38	33	31	28
	19	28	29	32	32	32	29	25	24	28	28	37	34	30	27
	22	31	30	34	32	32	29	26	25	28	29	37	35	31	27
	ALL HRS	31	31	34	34	33	32	29	28	31	32	40	35	32	28
CEILING	01	15	13	17	16	20	21	19	18	21	15	19	15	18	27
LESS 1000	04	15	14	17	18	22	25	25	23	25	18	19	15	20	27
FT AND/OR	07	15	14	17	19	20	23	24	23	23	19	20	16	19	28
VISIBILITY	10	15	14	16	16	17	17	18	15	16	17	19	15	16	28
LESS 3 MI	13	15	13	15	14	13	13	11	8	11	12	18	13	13	28
	16	13	14	15	12	12	12	10	9	11	11	17	15	13	28
	19	14	13	14	14	17	14	13	12	13	13	17	13	14	27
	22	13	13	16	15	19	18	18	15	15	14	17	13	16	27
	ALL HRS	14	14	16	16	18	18	17	15	17	15	18	15	16	28
CEILING	01	8	7	10	10	14	16	16	14	15	9	11	9	12	27
LESS 900	04	8	8	10	10	15	19	20	18	19	12	12	10	13	27
FT AND/OR	07	8	9	9	11	12	15	17	17	17	12	12	8	12	28
VISIBILITY	10	8	7	9	7	7	7	9	7	8	8	10	8	8	28
LESS 1 MI	13	7	7	7	6	5	5	5	3	5	6	10	8	6	28
	16	7	8	8	5	5	6	5	4	5	6	10	8	6	28
	19	7	8	9	7	10	8	8	7	7	7	11	8	8	27
	22	6	8	9	9	14	13	13	10	11	8	11	8	10	27
	ALL HRS	7	8	9	8	10	11	12	10	11	9	11	8	9	28
CEILING	01	1	1	2	2	4	6	5	4	5	4	2	1	3	27
LESS 100	04	1	2	1	2	5	6	6	7	6	3	3	1	4	27
FT AND/OR	07	1	2	1	1	1	1	2	4	3	2	2	1	2	28
VISIBILITY	10	1	1	0	0	0	0	0	0	0	1	1	2	1	28
LESS 1/4 MI	13	1	0	1	0	0	0	0	0	0	0	0	1	0	28
	16	1	1	1	0	0	0	1	0	0	0	1	1	1	28
	19	1	1	1	1	1	1	1	1	1	1	1	1	1	27
	22	1	1	1	1	2	3	4	2	2	3	2	1	2	27
	ALL HRS	1	1	1	1	2	2	2	2	2	2	2	1	2	28

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	23.3	38.5	46.6	59.5	61.0	67.0	66.7	61.0	46.6	37.9	22.3	M
1946	18.5	16.8	39.6	41.2	51.8	61.6	66.3	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	24.1P	27.0	33.2P	44.3	52.2	65.4	71.8	67.8	60.2	47.9	39.0	30.5	M
1953	28.6	27.7	36.6	43.3	54.3	63.6	69.4	67.0	60.6	50.6	42.3	33.9	48.2
1954	17.9	29.4	32.7	43.9	52.4	62.0	66.4	65.1	57.8	52.3	39.7	28.2	45.6
1955	21.1	25.7	30.6	43.5	56.1	63.0	71.6	68.9	58.2	48.9	37.8	18.8	45.4
1956	27.3	23.4	26.2	40.0	48.0	61.9	65.2	65.6	55.3	48.6	39.2	26.8	44.1
1957	13.7	20.5	33.9	43.7	54.3	63.3	66.9	63.3	58.8	49.4	41.8	32.9	45.8
1958	26.3	19.6	35.6	43.7	50.8	58.1	66.5	66.2	58.6	46.0	38.1	17.1	43.9
1959	20.1	17.1	30.3	42.8	55.8	58.7	69.0	68.4	60.8	48.3	38.3	29.5	44.9
1960	23.2	28.3	28.2	42.2	55.1	63.7	68.4	67.2	58.3	47.1	40.9	22.9	45.5
1961	15.2	25.0	31.5	43.0	52.0	63.6	66.9	68.0	65.5	51.9	40.6	28.1	45.9
1962	21.2	16.0	39.7	42.1	51.5	62.1	65.9	65.2	59.3	48.9	36.8	24.8	44.1
1963	24.2	17.8	33.0	46.7	51.6	63.5	69.4	63.7	58.6	52.5	41.7	16.7	44.7
1964	24.4	24.8	31.4	42.1	57.2	64.2	67.5	61.7	57.1	49.3	37.3	24.8	45.0
1965	19.0	21.5	33.0	41.2	54.2	63.0	65.9	65.2	57.5	45.8	35.7	26.6	44.1
1966	22.5	24.7	34.1	40.7	51.0	63.4	68.7	68.3	59.3	48.3	40.9	27.0	45.5
1967	25.1	16.9	27.0	40.7	44.7	64.0	68.2	67.4	59.8	49.9	36.5	26.9	44.0
1968	17.3	20.0	32.9	45.4	51.6	59.5	68.4	64.8	59.1	50.9	35.3	24.3	44.2
1969	22.6	23.8	30.1	43.2	53.1	63.6	67.3	69.9	59.4	49.1	41.0	27.7	45.9
1970	13.7	22.0	30.8	43.2	56.6	62.2	70.1	68.9	59.9	52.1	40.0	19.3	44.9
1971	12.8	22.8	31.7	39.1	52.6	65.3	68.6	69.2	62.7	54.7	35.5	27.5	45.2
1972	22.5	19.6	28.1	40.8	53.1	60.3	68.7	67.5	60.1	45.7	35.9	24.3	43.9
1973	22.9	20.9	36.9	45.3	49.8	64.6	70.5	70.3	58.5	49.4	36.9	33.1	46.6
1974	21.7	23.1	31.7	43.0	48.6	61.9	68.8	68.5	59.7	42.8	38.3	28.3	44.6
1975	23.7	22.5	29.7	39.8	57.0	62.6	69.2	67.6	59.3	49.8	42.7	22.7	45.4
1976	13.8	25.3	29.9	44.8	52.6	65.6	66.2	67.3	60.0	47.6	36.2	21.0	44.2
1977	14.2	22.4	37.7	42.8	55.4	60.5	68.3	66.6	57.3	46.9	39.1	25.5	44.7
MEAN	20.5	22.7	32.3	42.9	52.7	62.6	68.1	66.9	59.1	48.9	38.6	25.6	45.1

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	2.99	1.94	4.19	5.99	4.73	4.10	1.56	2.35	4.43	3.40	3.07	M
1946	3.01	2.37	1.44	3.18	3.52	1.59	2.01	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	1.96P	4.09	3.83	4.33	2.23	4.68	3.78	2.36	3.02	3.95	M
1953	4.04	4.52	10.87	5.00	4.40	1.68	3.13	3.30	1.01	5.76	4.80	4.17	53.36
1954	4.52	4.67	3.06	3.40	4.71	2.93	1.91	4.23	11.00	1.44	5.00	4.12	53.79
1955	1.02	5.83	3.39	2.40	2.13	2.19	1.60	3.40	1.11	4.62	3.90	1.42	33.01
1956	5.56	3.42	5.56	4.07	2.78	1.12	3.13	2.11	4.06	3.26	4.22	3.02	45.19
1957	2.88	1.31	2.65	2.79	2.61	2.42	2.80	1.95	1.75	1.90	5.91	3.31	32.68
1958	9.44	5.80	3.62	6.35	4.74	3.37	4.80	2.23	2.13	4.34	5.70	2.04	53.85
1959	3.83	3.49	4.86	2.40	.91	5.17	1.83	2.16	2.05	7.32	5.83	6.29	47.00
1960	4.38	4.42	6.03	3.64	6.49	2.49	3.59	1.23	3.34	2.82	3.27	5.07	48.77
1961	2.07	3.36	3.27	5.16	2.98	4.00	2.07	1.31	3.37	1.30	4.59	3.79	37.25
1962	3.25	3.10	1.62	4.20	2.14	1.68	2.80	2.23	2.75	7.03	4.17	5.83	40.80
1963	3.28	3.44	3.83	2.97	3.66	3.31	1.98	4.07	1.79	2.06	10.28	3.00	44.45
1964	5.82	3.33	3.34	3.30	1.80	3.04	2.91	2.74	.86	2.38	3.85	3.21	36.35
1965	1.85	4.49	.75	3.15	.54	2.00	.60	1.16P	1.09	3.14	5.03	2.08	M
1966	4.91	3.23	3.94	1.13	2.18	2.66	1.36	4.00	3.20	3.30	3.09	2.98	40.98
1967	1.34	4.72	2.18	4.96	4.75	3.42	2.83	3.98	2.97	.96	2.72	5.71	41.14
1968	2.91	1.50	3.86	2.61	2.93	3.76	1.11	2.21	1.33	1.80	7.39	4.19	37.82
1969	3.39	4.70	3.45	3.75	1.81	2.72	3.50	2.91	4.35	2.20	8.03	9.34	51.95
1970	.89	4.49	4.13	4.13	3.76	2.68	1.47	4.27	2.18	4.43	2.42	7.26	42.31
1971	2.48	5.50	2.98	2.18	4.80	2.16	3.36	3.31	3.26	3.48	3.18	2.70	39.66
1972	2.88	7.36	2.85	2.07	3.30	3.67	1.38	1.07	4.75	3.67	6.44	6.96	52.78
1973	2.97	2.61	2.09	5.70	5.14	5.30	2.06	3.74	3.06	4.03	2.16	9.99	49.05
1974	4.09	3.26	3.98	3.90	3.53	4.59	3.85	1.68	4.91	1.47	5.49	3.83	44.18
1975	4.34	2.86	4.17	4.82	.77	6.69	3.36	3.63	4.73	4.43	6.92	8.28	54.80
1976	4.34	3.83	4.08	3.46	4.34	1.63	3.92	8.06	2.06	6.64	1.22	4.27	49.85
1977	6.27	4.73	7.98	3.52	3.21	5.52	1.15	3.51	3.19	8.64	5.21	8.27	63.18
MEAN	3.68	3.98	3.95	3.65	3.35	3.38	2.68	3.10	3.33	3.71	4.81	5.04	44.66

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45								1163	814	567	474	161	M
45-46	27	38	158	504	812	1319	1437	1287	786	708	401	138	7695
46-47	42	M	M	M	M	M	M	M	M	M	M	M	M
50-51	M	M	M	M	M	M	M	M	M	M	M	M	M
51-52	M	M	M	M	M	M	M	1095	M	615	391	38	M
52-53	3	95	161	522	774	1064	1129	1039	933	588	323	96	6657
53-54	12	38	186	436	676	956	1455	991	995	624	380	126	6875
54-55	20	46	215	401	756	1137	1356	1097	1058	639	273	111	7109
55-56	1	76	320	481	907	1429	1163	1140	1194	764	522	161	7864
56-57	56	90	297	501	769	1175	1586	1075	958	635	335	102	7549
57-58	23	79	189	678	686	987	1191	1262	905	632	437	207	7067
58-59	26	92	200	593	798	1477	1365	1258	1071	656	302	196	8044
59-60	6	79	178	511	784	1084	1289	1058	1134	679	299	81	7152
60-61	3	18	185	349	719	1295	1536	1115	1134	653	394	70	7571
61-62	44	17	82	399	727	1139	1550	1312	960	680	415	107	7228
62-63	37	51	208	492	436	1239	1259	1216	984	544	409	109	7484
63-64	18	96	279	384	692	1489	1240	1218	1022	680	295	74	7615
64-65	21	119	236	482	824	1262	1420	1212	986	705	331	111	7887
65-66	37	48	244	588	877	1176	1309	1181	950	721	426	98	7675
66-67	10	18	210	510	717	1175	1228	1341	1175	722	498	75	7675
67-68	6	15	185	461	909	1175	1475	1299	990	584	410	172	7681
68-69	19	48	146	436	684	1258	1309	1147	1076	647	363	97	7450
69-70	18	16	199	486	716	1151	1585	1198	1053	645	253	111	7431
70-71	8	16	191	389	763	1410	1615	1177	1020	771	376	54	7780
71-72	5	13	110	316	681	1153	1511	1310	1136	720	362	144	7461
72-73	18	95	161	590	666	1252	1301	1228	963	587	486	87	7644
73-74	1	9	236	476	638	987	1539	1168	1141	655	503	123	7376
74-75	13	12	213	679	794	1133	1272	1187	1088	750	253	133	7529
75-76	7	44	225	665	863	1305	1582	1145	1179	599	375	82	7970
76-77	31	46	156	333	854	1355	1568	1186	953	656	317	142	7701
77-78	27	47	236	552	773	1218							
MEAN	19	39	196	492	785	1214	1373	1189	1006	657	376	115	7461

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945		0	0	0	0	49	94	98	43	0	0	0	M
1946	0	0	0	0	0	59	87	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	0	0	59	218	119	23	0	0	0	M
1953	0	0	0	0	0	58	151	105	63	0	0	0	377
1954	0	0	0	0	0	41	71	94	6	13	0	0	185
1955	0	0	0	0	6	58	210	155	13	0	0	0	442
1956	0	0	0	0	1	53	68	85	12	0	0	0	219
1957	0	0	0	0	12	58	90	58	26	0	0	0	224
1958	0	0	0	0	9	80	79	15	0	0	0	0	183
1959	0	0	0	0	22	13	134	140	58	0	0	0	369
1960	0	0	0	0	0	48	114	91	21	0	0	0	274
1961	0	0	0	0	0	32	111	116	100	0	0	0	360
1962	0	0	0	0	4	29	72	80	15	0	0	0	182
1963	0	0	0	0	0	69	176	38	1	1	0	0	285
1964	0	0	0	0	20	55	103	20	8	0	0	0	206
1965	0	0	0	0	2	58	75	84	25	0	0	0	244
1966	0	0	0	0	0	58	132	123	15	0	0	0	330
1967	0	0	0	0	0	51	112	97	6	0	0	0	266
1968	0	0	0	0	0	16	132	67	8	2	0	0	225
1969	0	0	0	0	0	62	97	172	38	0	0	0	369
1970	0	0	0	0	1	30	171	142	28	0	0	0	372
1971	0	0	0	0	0	69	122	148	49	4	0	0	392
1972	0	0	0	0	0	6	136	111	21	0	0	0	274
1973	0	0	0	0	1	84	179	182	44	0	0	0	490
1974	0	0	0	0	3	36	136	126	29	0	0	0	330
1975	0	0	0	0	15	66	149	133	1	0	0	0	360
1976	0	0	0	0	2	110	71	124	14	0	0	0	321
1977	0	0	0	0	27	15	136	105	16	0	0	0	299
MEAN	0	0	0	0	4	48	122	104	26	1	0	0	305

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

BRUNSWICK, MAINE

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
14611	Brunswick, Maine	43°53'N	69°56'W	75 MSL	KNHZ	74392

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather Service Office	Navy	1951	1959	43°53'N	69°56'W	79	Mercurial	24
2.	" " " (replacement)	"	1959	1969	"	"	"	"	24
3.	" " "	"	1969		"	"	"	"	24
1a.	" " "	"	1960		"	"	81	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1951	Control tower roof	Selsyn	Triple	70'	1. Barograph (ML 3) 2. Auto Met station (AN/GMQ-29) *3. Cloud height set (AN/GMQ-13 *4. Transmissometer (AN/GMQ-10C) 5. Radar Recorder Fax (RO 415 GMH) 6. RVR Converter, Display * Two sets in use.
2.	1959	Six hundred feet on bearing of 330 degrees from building # 200	UMQ-5	RD-108	15'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Base Camp Pendleton occupies some 125,000 acres of land and is located along the Pacific Coast approximately one-half way between the cities of San Diego and Los Angeles. The Air Facility is located in the southwest section of the base approximately five miles east of the coast. The Pacific Ocean provides cool summers and warm winters and the relative humidity remains within the human comfort range. The base does not experience the heavy smog conditions common to urban areas to the north and south.

The high incidence of night and early morning low stratus and fog - especially during the winter months is the primary source of unfavorable flying weather. Summertime fog and stratus is much less a threat to flying safety. It tends to remain along the immediate coast rather than moving inland. Fog and stratus during the winter months is much more unpredictable and can seriously hamper low - level flying.

A sea breeze is experienced almost every day of the year. Land breezes and drainage winds are experienced but are considered to be negligible because of low speeds and variable directions. Autumn and winter Santa Ana winds do affect the base but the high surface winds associated with this phenomena are rarely experienced. During Santa Ana conditions fire stations at the 4,000 foot level have reported gusts up to 60 knots while at the same time winds at the airfield were less than 15 knots. The uneven terrain over most of the base does not allow for any real funnel effect.

Rainfall at Camp Pendleton is heaviest during the winter months, particularly late November through early February. Rainfall amounts increase inland at higher elevations. This is also true of convective type precipitation during the summer months. Most thunderstorm activity is restricted to inland areas of higher elevations but the occasional storm does stray to the coastal section of the base. Destructive weather conditions, while possible, are not considered a serious threat in this area.

CAMP PENDLETON, CALIFORNIA

PREPARED BY: NAVY ASHEVILLE
JUNE 1978

STATION NAME: CAMP PENDLETON, CALIFORNIA
LOCATION : N33 18 W117 21

PERIOD: OCT 66-DEC 77
ELEV : 63

STN LTRS: KOCS
WBAN # : 03154
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL INCHES			RELATIVE HUM		VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER DAYS	VSBY FOG < 7MI	MAX DEG > 90	MAX DEG > F	MIN AND < 45	MIN AND < 35
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX 24 HR	MAX	04	13 LST																	
JAN	64	43	54	86	28	3.9	6.8	1.0	1.5	0	0	0	88	58	.29	44	250	S	4	40	5	9	2	0	0	1	20	0	3	20	5
FEB	65	44	55	90	33	3.9	8.7	#	1.9	0	0	0	86	61	.30	45	250	W	4	39	5	6	3	0	0	0	16	#	3	17	2
MAR	67	45	56	90	31	1.8	1.8	1.8	1.0	0	0	0	93	62	.32	47	350	W	5	37	5	7	2	0	0	2	9	#	4	17	2
APR	67	45	56	94	32	1.9	1.9	1.9	1.0	0	0	0	91	59	.34	48	200	W	6	44	4	15	1	0	0	0	0	1	4	17	1
MAY	68	52	61	86	40	.2	.2	.2	.2	0	0	0	88	64	.42	54	250	SSW	6	28	5	3	0	0	0	0	0	0	5	4	0
JUN	70	56	63	90	47	.1	.1	.1	.1	0	0	0	90	66	.47	57	300	WSW	6	23	5	2	0	0	0	0	0	#	5	1	0
JUL	77	60	69	96	46	#	#	#	.1	0	0	0	89	65	.54	61	250	SSW	6	21	4	0	0	0	0	0	0	1	20	#	0
AUG	80	62	71	102	44	#	#	#	#	0	0	0	90	63	.56	62	300	WSW	5	26	4	#	0	0	0	0	0	3	25	#	0
SEP	79	61	70	106	46	.1	.2	#	.1	0	0	0	79	62	.50	59	350	WSW	5	29	4	1	0	0	0	0	13	4	19	#	0
OCT	75	52	63	103	37	.1	.2	#	.5	0	0	0	84	56	.39	52	300	W	4	30	4	1	0	0	0	0	19	1	13	6	0
NOV	71	47	59	94	34	1.4	1.7	1.2	1.0	0	0	0	86	55	.34	48	250	W	4	35	4	4	2	0	0	#	14	#	8	13	1
DEC	64	41	53	82	25	.7	1.0	.4	1.5	#	#	#	81	55	.27	42	250	WSW	4	40	4	4	0	0	0	0	11	0	1	23	7
ANN	71	51	61	106	25	14.1	8.7	#	1.9	#	#	#	86	60	.39	52	350	W	5	44	5	52	10	0	0	3	102	15	110	118	18
EYR	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4		4	4	5	4	5	5	5	5	5	5	5	5	5

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA %	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01														
LESS 5000	04														
FT AND/OR	07	50	44	51	56	76	82	69	71	66	52	41	42	59	6
VISIBILITY	10	38	42	47	45	51	50	21	20	32	36	30	30	37	7
LESS 5 MI	13	33	35	32	31	32	34	11	9	20	20	22	27	25	7
	16														
	19														
	22														
	ALL HRS														
CEILING	01														
LESS 1000	04														
FT AND/OR	07	30	18	22	17	25	36	31	33	28	24	21	21	26	6
VISIBILITY	10	20	18	15	15	12	6	8	6	7	11	13	15	12	7
LESS 3 MI	13	16	14	11	16	9	6	7	6	6	9	12	14	10	7
	16														
	19														
	22														
	ALL HRS														
CEILING	01														
LESS 200	04														
FT AND/OR	07	20	14	9	11	3	1	1	2	4	12	13	14	8	6
VISIBILITY	10	11	13	9	15	6	1	1	2	4	7	9	9	7	7
LESS 1/2 MI	13	12	11	8	16	5	3	3	2	4	7	9	12	8	7
	16														
	19														
	22														
	ALL HRS														
CEILING	01														
LESS 100	04														
FT AND/OR	07	17	10	7	11	2	1	1	2	3	10	12	12	7	6
VISIBILITY	10	11	13	9	15	6	1	1	2	4	7	9	9	7	7
LESS 1/4 MI	13	12	11	8	16	5	3	3	2	4	7	9	12	8	7
	16														
	19														
	22														
	ALL HRS														

(NOTE: Due to insufficient data, percentage frequencies are not shown for 01, 04, 16, 19, 22 and ALL HRS.)

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1966	M	M	M	M	M	M	M	M	M	62.2P	M	M	M
1967	51.9P	53.7	55.9	52.3	58.4	60.3	66.8	70.5	69.8	63.0P	60.0P	M	M
1968	53.6P	56.3P	M	58.3P	60.4P	64.3	69.7	69.2	69.0	63.8	58.8	51.3	M
1969	55.6	54.4	52.3P	57.1	62.4P	63.0P	67.6P	70.6P	69.8	61.6P	61.8	54.7	M
1970	54.9	57.0	56.9P	M	M	M	69.7P	72.0P	70.5P	64.4	M	53.7P	M
1971	53.6P	54.1P	56.7P	58.3P	M	M	M	M	70.5P	M	M	M	M
1972	M	54.6P	M	M	M	M	M	M	M	M	M	M	M
1973	M	M	M	M	M	M	M	M	M	M	M	M	M

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1966	M	M	M	M	M	M	M	M	M	.47P	M	M	M
1967	2.13P	T	1.84	1.93	.17	.05	T	.02	.17	T	M	M	M
1968	M	M	M	M	M	M	M	T	T	.19	1.18	.99	M
1969	6.84	9.73	1.08P	M	.21P	.13P	.05P	T	T	.03P	1.98	.42	M
1970	1.02	7.82	2.21P	.10P	.00P	T	T	.00P	.00P	.01	M	2.65P	M
1971	.37P	.90P	.00P	1.65P	M	T	M	.00P	T	M	M	M	M
1972	M	.00P	M	M	M	M	M	M	M	M	M	M	M
1973	M	M	M	M	M	M	M	M	M	M	M	M	M

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
65-66													
66-67	M	M	M	M	M	M	M	312	975	377	200	135	M
67-68	8	0	0	M	M	M	M	M	M	M	M	41	M
68-69	8	2	12	94	181	414	267	346	M	235	M	M	M
69-70	M	M	0	M	109	317	308	218	M	M	M	M	M
70-71	M	M	M	59	M	M	M	M	M	M	M	M	M
71-72	M	M	M	M	M	M	M	M	M	M	M	M	M
72-73	M	M	M	M	M	M	M	M	M	M	M	M	M
73-74	M	M	M	M	M	M							

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1966													
1967	M	0	0	0	1	0	69	173	150	M	M	M	M
1968	M	M	M	M	M	27	100	135	140	24	2	0	M
1969	2	0	M	2	M	M	M	M	145	M	17	3	M
1970	0	0	M	M	M	M	M	M	M	46	M	M	M
1971	M	M	M	M	M	M	M	M	M	M	M	M	M
1972	M	M	M	M	M	M	M	M	M	M	M	M	M
1973	M	M	M	M	M	M	M	M	M	M	M	M	M

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

CAMP PENDLETON, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
03154	Camp Pendleton, California	33°18'N	117°21'W	63	KOCS	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
-	None	MCB							Var
1.	Weather service office (First deck of Airfield Ops Bldg)	MCALF	1968	1969	33°18'N	117°21'W	66	Fortin	"
2.	Weather office (moved within office)	"	1969		"	"	81	"	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1962	On roof above Weather Office	AN/UMQ 5	RD-108	42'MSL	* Observation site moved to MCALF Camp Pendleton 1 March 68.
1a.	1968	Atop control tower	"	"	120'MSL	
1b.	1969	Adjacent Rwy 03-21 approx. 700' North Hangar 2360	"	"	85' MSL	1. Barometer (Aneroid) 2. Barograph (Marine) 3. Hygrothermograph

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Cecil Field is located southwest of Jacksonville, Fla. in a heavily pine wooded area on a small plateau 75 feet above sea level. The surrounding terrain is swampy with elevations ranging from sea level to 25 feet above. The Atlantic Ocean is 27 miles to the east and the great Okefenokee Swamp lies 25 miles to the northwest.

NAS Cecil Field has a warm, temperate climate with hot summers and mild winters.

Good flying conditions prevail during daylight hours throughout the year. Poor flying weather occurs most frequently during the early morning hours. Radiation fog, generally forming after 0200 local time and dissipating before 0900, is common throughout the year with the greatest frequency observed from September through April. The fog is most persistent during December and January.

During the summer, convective clouds usually form by 1000 local time with showers and thunderstorms developing in the area to the west and southwest of the station by mid-afternoon. These showers and thunderstorms move to the northeast over the station with the majority of the activity occurring between 1500 and 1900 local time.

Polar air masses invade the area occasionally in October, increasing in frequency to weekly in January and February and becoming less frequent in March and April. Most of the poor flying weather during the winter is associated with these systems. Light rain and/or drizzle and fog are common during these periods.

In July the prevailing wind direction is from the south and southwest. An easterly sea breeze occurs during the late afternoon and is of short duration. During the winter months, northerly winds prevail.

The average annual rainfall for the station is 52.3 inches. Traces of snow have been recorded from December to March on an average of once every 4 years.

Temperatures of 100 degrees F. have been recorded in all months from May to August. The summer maximum temperature is usually higher than at NAS Jacksonville due to the greater distance from the Atlantic Ocean and the late onset and short duration of the afternoon sea breeze. Below freezing temperatures occur on an average of 14 mornings during the winter. Freezing temperatures normally do not persist longer than four hours.

Thunderstorms have been recorded in all months with the greatest frequency of occurrence in June, July, and August. Tornadoes are occasionally reported in the general area although none have been observed at NAS Cecil Field. Tornadoes generally occur with winter cold fronts and on the fringes of tropical storms. Tropical storms and hurricanes occasionally approach the area from the east early in the hurricane season and follow the coast northward. The station is located far enough inland so that it doesn't receive the full force of the storm wind.

CECIL FIELD, FLORIDA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: CECIL FIELD, FLORIDA
LOCATION : N30 13 W81 53

PERIOD: MAR 47-DEC 77
ELEV : 80

STN LTRS: KNZC
WBAN # : 93832
WMO # :

	TEMPERATURE DEG F					PRECIPITATION INCHES W D N T H				SNOWFALL			RELATIVE HUM		VAP PRESS SEA LVL PRESS	DEW PT	PRESS ALT	SFC WINDS			MEAN CLD AMT	MEAN NUMBER OF DAYS OCCURRENCE OF: PRECIP INCHES									
	DAILY MEAN MAX	DAILY MEAN MIN	MON EXTREMES MAX	MON EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX 24 HR	MAX	04 LST	19 LST	OF HG	DEG F	FEET 99.95%	PVLG DRCTN	MN	MAX		.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	THUNDER R	SNOW OR ICE PLT	VSBY < 7MI	MAX TEMP > 90	MAX TEMP > 75	MIN TEMP < 40	MIN TEMP < 32
JAN	65	43	55	87	19	2.9	6.7	.4	2.4	#	#	#	85	58	.30	48	400	N	6	54	6	8	2	#	0	1	19	0	7	13	5
FEB	68	45	57	89	22	3.9	7.8	1.1	4.6	#	#	#	83	53	.31	46	500	W	6	46	5	8	3	0	0	2	16	0	8	9	3
MAR	74	51	63	93	28	3.6	10.4	.7	4.8	#	#	#	83	50	.36	50	450	W	6	52	5	8	2	0	0	3	17	#	16	5	1
APR	81	57	70	95	37	2.6	6.2	.7	2.5	0	0	0	85	48	.47	57	400	W	6	43	5	7	2	0	0	4	18	2	25	#	0
MAY	87	64	76	101	47	4.0	11.3	.5	5.9	0	0	0	86	50	.38	63	350	E	5	47	5	9	2	0	0	7	22	10	30	0	0
JUN	89	70	80	102	58	6.7	13.3	2.5	7.8	0	0	0	90	56	.71	69	300	E	5	64	6	13	4	0	0	11	20	16	30	0	0
JUL	91	72	82	101	61	7.3	12.5	2.2	8.8	0	0	0	92	59	.79	72	450	S	4	68	6	16	5	0	0	16	19	22	31	0	0
AUG	91	72	81	101	64	7.1	10.5	2.8	8.0	0	0	0	93	60	.79	72	250	E	4	48	6	15	5	0	0	15	24	20	31	0	0
SEP	87	70	79	99	49	6.3	12.5	1.5	5.9	0	0	0	91	62	.74	70	300	N	5	52	6	12	3	0	0	8	23	11	29	0	0
OCT	80	61	71	94	37	3.5	11.7	.3	3.8	0	0	0	89	58	.54	61	400	N	5	38	5	8	2	0	0	2	20	2	25	#	0
NOV	73	51	62	89	23	1.6	4.0	.1	2.0	0	0	0	87	56	.39	52	400	N	5	40	5	6	1	0	0	#	20	0	14	3	1
DEC	67	48	56	87	12	2.9	7.4	.1	2.2	#	#	#	86	58	.32	47	400	N	5	41	5	8	2	0	0	1	19	0	7	12	4
ANN	79	58	69	102	12	52.4	10.5	.1	7.8	#	#	#	88	56	.50	59	400	N	5	68	5	118	33	#	0	70	237	83	253	44	14
EYR	26	26	26	26	26	26	26	26	26	25	25	25	28	28	28	28	27	28	28	25	28	26	26	25	25	25	25	26	26	26	26

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	29	24	21	14	10	9	4	7	11	15	25	28	16	26
LESS 9000	04	33	29	27	21	16	10	7	8	16	21	29	31	21	28
FT AND/OR	07	40	40	35	28	23	17	13	17	23	30	34	37	28	29
VISIBILITY	10	34	31	30	30	33	40	37	37	44	33	23	30	33	29
LESS 5 MI	13	37	36	36	40	49	61	64	64	62	49	33	32	47	29
	16	29	29	29	27	34	39	39	38	35	28	21	24	31	29
	19	20	22	18	14	18	21	16	18	21	19	18	23	19	27
	22	21	19	16	12	10	12	7	11	14	16	19	22	15	26
	ALL HRS	30	29	27	23	25	27	24	25	29	27	25	29	27	28
CEILING	01	16	12	9	5	3	2	1	3	4	7	13	15	7	26
LESS 1000	04	19	17	14	11	8	5	4	5	6	10	14	17	11	28
PT AND/OR	07	23	22	18	14	11	9	6	8	12	17	19	21	15	29
VISIBILITY	10	19	19	9	4	2	2	1	3	6	8	10	15	8	29
LESS 3 MI	13	8	7	4	2	2	2	1	2	3	4	4	7	4	29
	16	6	7	4	2	2	2	1	3	4	3	4	7	4	29
	19	9	8	6	3	1	3	1	3	4	6	6	9	5	27
	22	11	9	7	4	2	2	1	2	3	5	9	11	5	26
	ALL HRS	14	12	9	6	4	3	2	4	5	8	10	13	7	28
CEILING	01	7	3	3	2	0	0	0	1	1	2	6	7	3	26
LESS 900	04	9	5	5	5	3	1	1	2	3	5	7	8	4	28
FT AND/OR	07	11	7	6	5	3	2	1	2	4	5	7	7	5	29
VISIBILITY	10	4	1	2	0	0	0	0	0	0	0	1	2	1	29
LESS 1 MI	13	0	0	0	0	0	0	0	0	0	0	0	1	0	29
	16	1	0	0	0	1	1	0	0	0	0	0	0	0	29
	19	1	1	1	0	0	0	0	0	0	0	1	2	0	27
	22	3	1	2	1	0	0	0	1	0	1	2	5	1	26
	ALL HRS	4	2	2	2	1	1	0	1	1	2	3	4	2	28
CEILING	01	3	1	1	1	0	0	0	0	0	0	1	3	1	26
LESS 100	04	4	2	2	3	1	0	1	1	1	1	3	5	2	28
FT AND/OR	07	5	2	2	1	1	0	0	0	1	2	3	3	2	29
VISIBILITY	10	1	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1/4 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	19	0	0	0	0	0	0	0	0	0	0	0	0	0	27
	22	1	0	0	0	0	0	0	0	0	0	0	2	0	26
	ALL HRS	2	1	1	1	0	0	0	0	0	0	1	2	1	28

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1947	M	M	57.2	73.3	76.5	79.3	79.8	81.7	78.1P	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	58.7P	59.2	66.3	66.9	79.3	80.0	81.7	80.6	77.7	69.6	60.6	57.6	M
1954	57.1	59.2	61.3	71.6	72.8	81.2	82.4	83.6	79.6P	69.0	58.5	52.7	M
1955	53.1	58.1	64.9	70.6	76.5	78.6	81.1	82.1	79.8	70.0	60.9	54.8	69.2
1956	50.5	62.9	62.2	67.7	76.3	78.5	81.8	82.3	76.1	70.8	60.1	61.6	69.3
1957	60.4	64.0	61.8	69.7	76.0	80.1	81.9	80.9	80.0	67.7	65.0	54.3	70.2
1958	48.4	48.8	60.2	69.3	76.0	80.4	82.0	81.3	79.9	68.7	65.7	54.4	67.8
1959	52.7	61.5	60.2	68.6	77.1	79.7	81.7	81.2	78.1	75.0	61.6	54.7	69.3
1960	55.1	55.3	59.6	69.7	73.9	78.2	81.8	81.6	79.2	73.5	63.0	50.6	68.3
1961	50.5	60.6	66.9	65.5	74.9	79.2	83.5	80.9	80.2	69.3	65.5	57.9	69.6
1962	53.9	63.3	58.6	66.3	77.8	79.7	82.3	81.0	78.6	71.1	57.7	51.6	68.5
1963	52.7	61.0	64.7	70.0	75.7	80.2	81.5	82.8	76.7	69.7	60.8	50.2	68.0
1964	52.4	53.3	64.7	69.4	73.2	81.1	79.9	79.9	77.4	67.1	64.9	60.6	68.6
1965	54.9	56.8	62.0	70.8	73.9	76.6	79.5	80.1	77.8	69.9	64.6	56.9	68.6
1966	51.6	54.9	60.4	68.3	75.2	78.8	82.3	81.6	77.8	71.0	59.7	54.1	67.8
1967	56.1	54.4	65.3	72.3	77.2	78.8	79.8	78.1	75.4	69.0	62.1	61.3	69.1
1968	53.4	49.3	58.5	70.8	76.4	79.7	82.4	81.1	78.2	71.3	59.7	52.9	67.7
1969	52.5	51.6	56.2	70.0	73.4	79.7	82.6	81.4	77.8	73.8	59.5	53.4	67.7
1970	48.9	53.7	63.4	71.2	76.2	79.0	81.4	81.2	80.5	73.1	57.5	58.5	68.5
1971	54.0	57.5	58.7	67.4	76.4	81.1	82.7	82.4	79.3	73.7	61.9	63.8	69.8
1972	51.9	53.7	63.0	69.4	76.1	77.5	81.5	81.0	79.3	73.4	63.7	61.7	70.2
1973	55.0	52.1	67.0	66.8	73.4	80.5	82.8	78.8	79.5	72.8	65.3	56.2	69.3
1974	46.9	55.7	63.5	68.0	76.6	78.5	79.3	79.4	78.7	67.5	60.3	57.1	69.3
1975	50.6	48.0	62.7	68.8	77.0	79.9	79.6	81.7	78.8	72.8	63.5	54.5	70.2
1976	51.1	40.0	67.2	68.2	73.4	79.2	82.9	80.8	77.9	66.7	55.5	53.9	68.1
1977	45.6	52.1	66.5	69.6	74.3	81.9	82.2	81.7	81.7	68.2	63.4	53.7	68.4
MEAN	54.1	56.6	62.3	69.2	75.4	79.4	81.6	81.1	78.6	70.6	61.7	55.8	68.9

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1947	M	M	6.90	1.76	5.60P	6.36	[illegible]	3.62	7.34P	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	.76P	[illegible]	3.42	6.19	.47	4.67	7.18	6.81	8.54	4.20	2.13	6.[illegible]	M
1954	.58	1.08	1.68	2.44	1.04	2.51	4.36	3.55	7.62P	4.13	.64	2.10	M
1955	3.21	2.09	1.64	1.03	4.74	4.40	6.38	2.30	6.68	5.58	1.80	.47	42.72
1956	3.02	3.23	.97	2.90	4.24	9.21	7.19	4.84	4.51	11.72	.40	.12	66.47
1957	.35	2.69	3.27	2.42	3.24	7.14	8.83	5.90	6.66	3.15	1.79	.72	48.16
1958	3.39	9.13	4.51	5.80	2.24	4.42	6.62	7.38	2.50	3.85	2.49	5.23	52.56
1959	4.99	4.98	10.39	4.16	9.71	4.48	8.46	2.98	8.01	6.04	1.79	.91	65.61
1960	2.02	4.80	6.01	2.64	.60	4.85	12.00	2.97	9.79	9.52	.24	1.76	90.31
1961	2.31	5.04	1.98	2.78	4.05	5.96	10.94	7.28	6.96	.33	2.51	.97	90.33
1962	1.90	1.22	3.24	1.53	1.69	7.41	12.50	6.53	3.23	2.18	1.42	1.93	44.20
1963	4.72	6.38	2.36	.96	1.57	13.23	4.39	6.46	3.63	.42	2.17	2.10	50.40
1964	6.86	5.80	1.23	3.33	6.93	3.61	9.04	12.32	12.68	2.80	3.70	7.37	78.97
1965	.70	6.03	4.16	2.38	.70	9.08	8.05	12.57	8.08	1.37	2.04	4.07	60.38
1966	4.56	4.44	2.10	1.44	11.27	9.91	4.02	7.04	3.12	2.64	.40	1.94	58.66
1967	3.11	5.30	.69	1.16	1.68	10.52	7.49	7.81	3.64	1.10	.49	3.02	46.59
1968	1.19	3.08	.91	1.33	6.52	10.47	6.46	10.54	2.31	3.54	1.79	1.80	57.80
1969	1.45	4.41	4.80	.67	3.23	3.37	11.46	9.70	3.30	8.47	2.41	4.26	59.75
1970	3.81	7.78	7.90	1.93	1.83	4.05	3.75	7.02	1.32	2.53	.10	1.27	44.26
1971	2.31	3.28	2.78	3.51	2.00	9.34	7.07	9.17	3.16	5.02	1.07	4.78	54.01
1972	4.71	3.96	1.67	1.76	5.68	9.08	2.23	9.76	3.16	3.32	3.98	2.17	53.06
1973	3.63	4.86	6.25	4.89	4.45	6.25	6.10	6.91	3.68	1.79	.27	4.79	58.00
1974	.68	1.84	3.75	1.50	6.23	5.02	8.99	10.03	7.15	.26	.68	2.37	49.10
1975	4.57	2.92	2.03	3.81	5.59	5.22	9.95	2.59	6.63	6.89	.70	2.90	52.90
1976	2.52	1.91	2.51	1.69	7.14	7.93	3.99	2.91	8.82	2.44	2.03	5.03	50.28
1977	2.74	4.00	2.14	.87	2.38	7.54	4.42	7.39	11.31	.38	3.62	5.13	51.92
MEAN	2.88	3.89	3.59	2.59	3.97	6.73	7.27	7.05	6.26	3.52	1.63	2.92	52.30

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
46-47									244	3	0	0	M
47-48	0	0	M	M	M	M	M	M	M	M	M	0	M
52-53	M	M	M	M	M	M	M	M	182	51	42	0	M
53-54	0	0	0	29	140	265	257	170	203	11	0	0	1100
54-55	0	0	M	54	220	382	365	204	130	11	0	0	M
55-56	0	0	0	27	150	317	440	120	148	33	0	0	1235
56-57	0	0	0	6	135	160	196	111	140	21	7	0	827
57-58	0	0	0	55	89	327	511	135	160	23	6	0	1026
58-59	0	0	2	27	57	320	383	149	184	28	0	0	1130
59-60	0	0	0	9	161	320	309	280	311	28	4	0	1421
60-61	0	0	0	2	62	441	440	176	69	56	0	0	1240
61-62	0	0	0	25	84	259	348	114	127	76	0	0	1127
62-63	0	0	0	44	225	408	396	287	100	13	3	0	1576
63-64	0	0	0	21	156	456	389	331	81	23	0	0	1457
64-65	0	0	0	42	60	178	319	244	175	10	0	0	1024
65-66	0	0	0	39	60	310	411	293	164	27	0	0	1304
66-67	0	0	0	80	190	361	280	295	82	7	1	0	1216
67-68	0	0	2	18	137	163	356	447	208	13	1	0	1345
68-69	0	0	0	34	219	394	380	368	276	8	0	0	1700
69-70	0	0	0	0	180	356	499	310	110	20	0	0	1479
70-71	0	0	0	3	229	216	367	245	226	57	5	0	1328
71-72	0	0	0	2	143	109	153	270	94	30	3	0	804
72-73	0	0	0	7	136	182	323	329	83	45	0	0	1095
73-74	0	0	0	28	77	192	227	283	104	47	0	0	920
74-75	0	0	0	33	197	268	182	118	145	34	0	0	979
75-76	0	0	0	8	137	323	426	162	54	18	0	0	1148
76-77	0	0	0	70	297	345	596	361	84	18	0	0	1771
77-78	0	0	0	34	120	354							
MEAN	0	0	0	27	150	302	367	256	147	27	1	0	1257

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1947			6	256	362	440	467	524					M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	27	100	105	450	458	523	488	387	175	41	42	M
1954	19	19	90	213	367	492	530	388	M	148	31	8	M
1955	5	16	125	185	372	413	505	337	451	188	39	9	2861
1956	1	65	69	183	356	414	527	541	362	192	49	92	2741
1957	43	90	44	169	353	439	531	498	438	149	96	2	2914
1958	0	3	18	102	289	468	535	513	457	147	64	0	2878
1959	9	59	22	102	380	448	527	509	399	226	64	6	2891
1960	10	6	30	176	282	405	526	527	423	273	69	1	2762
1961	0	63	130	78	314	431	579	501	461	163	106	41	2867
1962	11	73	34	119	401	448	546	506	414	238	12	0	2802
1963	21	3	96	169	362	483	520	536	359	176	37	3	2768
1964	6	0	77	102	261	488	469	468	377	111	66	47	2532
1965	8	21	83	172	344	356	456	474	391	198	31	3	2581
1966	4	15	30	134	323	359	544	519	391	213	38	9	2573
1967	11	8	95	233	385	420	467	412	320	148	36	39	2811
1968	3	1	44	171	303	447	546	504	405	256	37	86	2761
1969	0	1	9	148	288	430	560	514	392	283	20	6	2867
1970	4	7	69	213	389	457	513	509	471	200	12	18	2783
1971	12	42	38	138	303	487	536	542	437	291	36	78	2970
1972	66	8	41	171	291	381	517	503	436	273	104	97	2878
1973	34	1	132	103	328	472	561	494	439	278	94	26	2902
1974	99	28	71	144	363	413	549	564	439	317	62	27	2864
1975	53	68	79	158	382	452	461	525	423	257	119	7	2979
1976	9	24	128	119	364	428	566	498	394	123	19	9	2579
1977	0	5	139	185	293	511	541	524	507	180	78	8	2951
MEAN	18	26	69	161	329	440	521	507	415	207	57	23	2773

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

CECIL FIELD, FLORIDA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93832	Cecil Field, Florida	30°13'N	81°53'W	80	KNZC	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather Service Office	Navy		1955	30°13'N	81°53'W	80	Mercurial	Var
2.	New barometer installed	"	1955	1960	"	"	80	"	24
3.	Moved within office	"	1960	1977	"	"	*90.1	"	24
1a.	Metro Office	"	1964		"	"	*93.1	Aneroid	24

* From 1969-1973 heights varied.
Height reported on 1973 WBAN 10D.

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop control tower	Selsyn		63'	1. Barograph (open scale)
1a.	"	" " "	AN/UMQ-5		63'	2. Ceiling light (ML-121)
2.	1955	Lowered	Selsyn	Double	47'	3. Cloud height set (AN/GMQ-13B)
3.	1958	Installed 949' south southeast of Ops Bldg (replacement for selsyn)	AN/UMQ-5	RD-108	14'	4. Transmissometer (AN/GMQ-10C) 5. Auto Met station (AN/GMQ-29)
4.	1971	On top control tower	"	"	63'	
5.	1975	640' SSE of Ops Bldg	"	GMQ-29	14'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The climate of Charleston, S.C. is temperate, modified considerably by the nearness to the ocean. The marine influence is noticeable during winter when the minimum temperatures are sometimes 10 degrees to 15 degrees higher on the naval base than at the Charleston Municipal Airport. By the same token, maximum temperatures are dampened 3 degrees lower on the base. The prevailing winds are northerly in the fall and winter, southerly in the spring and summer.

Summer is warm and humid. Temperatures of 100 degrees F. or higher are infrequent. Maximum temperatures are generally several degrees lower along the coast than inland due to the cooling effect of the sea breeze. Summer is the rainiest season with about 40% of the annual fall. The rain, aside from occasional tropical storms, is generally of a shower or thundershower nature, producing variable amounts over scattered areas.

The fall season passes through the warm "Indian Summer" period to the prewinter cold spells which begin late in November. From late September to early November the weather is mostly sunny and extremes of temperature are rare. Late summer and early fall, however, is the period of maximum threat to the South Carolina coast from hurricanes. Some memorable hurricanes that have affected the Charleston area occurred in August 1885, August 1893, August 1911, July 1916, September 1928, August 1940, August 1952, and September 1959. The highest storm tide of record for which accurate heights were obtained was 11.2 feet above mean low water in the August 1893 storm.

The winter months, December through February, are mild with rainfall averaging 18% of the annual total. The winter rainfall is generally of a more uniform type, although a few thundershowers do occur. There is some chance of a snow flurry, with the best probability of its occurrence in January, but significant amount is rarely measured. An average winter would experience less than one cold wave and severe freeze. Temperatures of 20 degrees or less are very unusual.

The most spectacular time of the year, weatherwise, is spring with its rapid changes from windy and cold in March to warm and pleasant in May. The spring rainfall represents about 20% of the total annual rain. Severe local storms are more likely to occur in the spring than in other seasons; however, some of the most destructive local storms of the 20th century were a series of severe tornadoes on September 29,1938, and a single small tornado accompanying a hurricane on September 11, 1960.

CHARLESTON, SOUTH CAROLINA

PREPARED BY: NWSD ASHEVILLE
JUNE 1977

STATION NAME: CHARLESTON, SC NWSED
LOCATION : N32 50 W79 56

PERIOD: FEB 73-DEC 76
ELEV : 13

STN LTRS: KNAD
WBAN # : 13758
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	SNOWFALL MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER STORMS DURING MONTH	VISIBILITY BY FOG < 7MI	MAX DEG F > 95	MAX DEG F > 85	MIN AND < < 32	MIN AND < < 20
JAN	63	46	55	80	24	3.5	5.2	1.8	1.8	#	#	#	83	65	.31	46	350	N	6	30	5	12	1	0	0	0	17	0	0	3	0
FEB	63	45	54	77	23	1.5	2.3	.7	.6	2	7	7	77	57	.28	43	450	W	7	47	5	7	1	#	#	2	11	0	0	2	0
MAR	69	53	61	85	31	4.7	5.0	4.2	2.5	0	0	0	81	59	.37	51	450	W	7	38	6	10	3	0	0	3	13	0	#	#	0
APR	72	57	65	85	37	1.4	3.2	.3	2.4	0	0	0	77	52	.39	52	450	W	7	30	5	6	0	0	0	2	7	0	1	0	0
MAY	81	67	74	94	51	4.7	6.8	3.0	3.6	0	0	0	84	59	.60	64	350	S	7	37	6	10	3	0	0	6	12	0	9	0	0
JUN	85	72	78	94	59	3.5	5.4	2.3	2.1	0	0	0	89	66	.74	70	300	S	6	45	7	13	2	0	0	11	8	0	17	0	0
JUL	88	75	82	96	67	6.2	9.2	4.1	1.8	0	0	0	88	65	.82	73	250	S	6	39	6	13	5	0	0	12	7	1	24	0	0
AUG	87	74	81	95	66	7.3	12.7	4.3	2.2	0	0	0	92	68	.82	73	150	S	6	28	6	15	6	0	0	13	11	1	23	0	0
SEP	83	71	77	94	56	5.1	5.7	4.0	4.3	0	0	0	92	69	.74	70	250	N	6	37	6	12	2	0	0	8	13	0	13	0	0
OCT	75	58	67	87	39	1.9	4.2	.7	1.9	0	0	0	86	61	.49	58	350	N	6	35	4	4	1	0	0	1	12	0	1	0	0
NOV	67	50	58	83	34	2.1	3.0	.5	1.2	0	0	0	86	59	.36	50	300	N	6	29	4	6	1	0	0	#	12	0	0	0	0
DEC	60	43	52	78	25	3.3	4.7	2.1	1.7	0	0	0	82	62	.28	43	450	W	6	41	5	11	3	0	0	#	12	0	0	3	0
ANN	74	59	67	96	23	45.2	12.7	.3	4.3	2	7	7	85	62	.49	58	400	N	6	47	5	119	28	#	0	58	35	2	88	8	0
EYR	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	3	4	4	4	2	3	4	4	4	4	4	4	4	4	4	4

REMARKS: *DATA NOT AVAILABLE. #LESS THAN 0.5 DAY, 0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA %	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	22	8	12	3	5	2	2	2	2	2	8	14	7	4
LESS 1500	04	22	9	16	8	7	7	1	6	6	3	13	14	9	4
FT AND/OR	07	23	20	26	8	11	11	6	15	20	13	17	16	16	4
VISIBILITY	10	19	12	15	6	2	5	3	9	8	6	8	16	9	4
LESS 3 MI	13	15	10	8	3	2	4	4	2	6	4	7	13	7	4
	16	13	6	7	2	3	4	4	5	5	2	8	10	6	4
	19	15	9	10	2	2	3	1	5	4	2	8	12	6	4
	22	16	9	11	1	2	2	2	5	3	2	7	13	6	4
	ALL HRS	18	10	13	4	4	5	3	6	7	4	9	13	8	4
CEILING	01	16	6	10	1	2	1	1	1	1	0	8	9	5	4
LESS 1000	04	17	8	12	5	5	4	0	4	3	2	10	9	7	4
FT AND/OR	07	18	12	23	7	7	7	1	11	8	5	12	13	10	4
VISIBILITY	10	15	9	13	3	1	3	2	3	5	2	5	11	6	4
LESS 2 MI	13	11	9	7	1	0	2	0	1	3	2	3	9	4	4
	16	9	4	5	0	1	0	2	2	3	1	4	6	3	4
	19	12	7	6	1	0	2	0	2	1	2	6	10	4	4
	22	12	9	6	1	2	1	0	1	2	1	7	9	4	4
	ALL HRS	14	8	10	2	2	2	1	3	3	2	7	9	5	4
CEILING	01	10	1	6	0	1	0	0	1	0	0	5	7	3	4
LESS 500	04	13	4	6	3	2	3	0	2	2	1	8	6	4	4
FT AND/OR	07	14	7	15	3	2	3	0	6	4	3	7	2	6	4
VISIBILITY	10	10	3	6	1	0	2	0	1	1	0	3	4	3	4
LESS 1 MI	13	5	3	1	0	0	1	0	1	1	0	2	2	1	4
	16	2	3	2	0	0	0	1	2	1	0	3	2	1	4
	19	8	2	1	0	0	0	0	2	0	0	5	5	2	4
	22	8	3	2	0	2	0	0	1	0	0	3	6	2	4
	ALL HRS	9	3	5	1	1	1	0	2	1	1	5	4	3	4
CEILING	01	8	0	4	0	0	0	0	0	0	0	2	2	1	4
LESS 200	04	9	2	5	2	0	3	0	1	1	0	4	1	2	4
FT AND/OR	07	9	4	8	2	2	0	0	3	1	2	2	1	3	4
VISIBILITY	10	4	2	2	1	0	0	0	0	0	0	0	2	1	4
LESS 1/2 MI	13	0	1	0	0	0	0	0	0	1	0	0	0	0	4
	16	1	0	0	0	0	0	0	1	1	0	1	0	0	4
	19	4	1	0	0	0	0	0	1	0	0	2	2	1	4
	22	6	1	1	0	0	0	0	0	0	0	1	2	1	4
	ALL HRS	5	1	3	1	0	0	0	1	0	0	1	1	1	4

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1973	M	49.6	62.2	64.2	74.0	79.3	82.1	80.7	79.5	70.7	62.4	52.7	M
1974	62.6	53.3	61.8	64.9	74.6	77.4	80.0	79.7	75.5	64.0	57.6	52.0	66.9
1975	54.5	55.5	57.4	63.4	70.9	79.9	80.9	82.6	76.3	66.5	60.2	51.5	67.1
1976	46.2	56.8	61.8	65.1	70.7	75.9	82.9	78.9	76.0	64.1	52.6	50.5	65.1
MEAN	54.4	53.8	60.8	64.4	74.0	78.1	81.5	80.5	76.8	66.3	58.2	51.7	66.7

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1974	M	.93P	4.17	.62	3.02	5.41	5.36	12.67	5.69	.69	2.59	3.13	M
1975	5.18	2.29	4.86	3.17	4.28	2.81	9.21	4.82	4.00	.84	.51	2.12	44.09
1976	1.80	.71	5.01	.28	6.76	2.27	4.06	4.27	5.74	4.15	3.04	4.67	42.76
MEAN	3.49	1.50	4.68	1.36	4.69	3.50	6.21	7.25	5.14	1.89	2.05	3.31	45.07

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
72-73							M	426	123	88	1	0	M
73-74	0	0	0	27	126	377	123	328	146	82	3	0	1212
74-75	0	0	4	95	244	396	322	267	249	123	0	0	1700
75-76	0	0	0	54	192	414	574	239	140	69	10	1	1693
76-77	0	0	0	106	366	442							
MEAN	0	0	1	71	232	407	340	315	165	91	4	0	1626

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1973	M	0	42	73	284	438	535	490	441	207	53	5	M
1974	55	7	56	82	294	381	472	464	327	71	28	0	2237
1975	4	6	22	79	375	452	500	554	390	106	56	1	2505
1976	0	8	50	77	193	333	562	436	338	84	1	1	2083
MEAN	20	5	43	78	287	401	517	486	364	117	35	2	2355

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65 °F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

CHARLESTON, SOUTH CAROLINA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT)	CALL SIGN	WMO NUMBER
13758	Charleston, S. C.	32°50'N	79°56'W	13	KNAO	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			STATION (FT)	TYPE BAROMETER	
1.	Building NS 54	Navy	1973	1974	32°51'N	79°57'W	4	Aneroid	24
2.	Building NS 660, Pier "Y"	Navy	1974		32°50'N	79°56'W	13	Aneroid	24

7 MILES IS MAXIMUM REPORTED VISIBILITY

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	April 75	SE corner roof Bldg 660	AN/UMQ-5	RD 108	41'	1. Wind recorder operational (Indicator only on GMQ-29-Apr 75)
2.	Dec 75	SE corner roof Bldg 660	GMQ-29	Temp/ Dew pt	36'	2. Remainder GMQ-29 (except pressure) operational Dec 75 3. Barograph (marine) - 18 ft MSL 4. GMH-6(v) Radar recorder

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Chase Field is located in South Central Texas, 5 miles east southeast of Beeville, Texas. The field elevation is 190 feet above mean sea level. The surrounding terrain of Chase Field is essentially flat and of a brushwood nature. Inland bays and the Gulf Coast tidelands extend within 26 miles of the station. The closeness of these bodies of water are an important influence on the local weather.

The climate of this area is characteristic of subtropical regions with no sharply established delineation of the four seasons. Summer and winter predominate. Climatically, summer begins with the month of May and lasts through September. The highest temperatures are normally reached in July and August. The sea breeze which usually arrives about mid-afternoon brings relief from the hot temperatures by evening. During this period, the local weather is under the influence of maritime tropical air moving across the Gulf of Mexico with a general southeasterly component.

The first "Norther" marks the beginning of autumn. Moist gulf air is impacted by a strong surge of cold dense arctic air and usually spawns several squall lines over the area. Weather associated with these squalls and fronts consists of sudden lowering of ceilings and visibilities in showers and thundershowers. Strong gusty winds occur along the frontal zone.

The winter season is relatively short, from December through February. This season is not usually marked by any prolonged periods of cold weather, but rather by short spans of two or three days, depending on the depth of the cold air mass. The winter season is one of many changes. The weather fluctuates between warm and cold, clear and cloudy, wet and dry, as a wide variety of weather systems of various intensities move through the local area. Winters differ sharply from year to year. Normally, winter temperatures are sufficiently mild as to cause little or no interference with outdoor operations.

The most persistent flying safety problem is the fog and stratus that forms over the Gulf Coast. Stratus usually forms between late evening and early morning with bases 300 to 1,000 feet. The stratus often lowers near sunrise becoming fog, even with wind speeds of 10 to 12 knots.

The average annual rainfall is 29 1/2 inches with the greatest amounts in the months of May through October during thunderstorm activity. Above average amounts of rain are often noticed when tropical storms or hurricanes pass south of Chase Field. Flooding caused by heavy precipitation is the greatest danger presented by hurricanes. Hurricane winds generally have abated as the storm moves overland toward Chase Field.

The prevailing wind direction is from the south-southeast with speeds predominately 7 to 10 knots.

CHASE FIELD, TEXAS

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: CHASE FIELD, TEXAS
LOCATION : N28 22 W97 40

PERIOD: MAR 45-DEC 77
ELEV : 190

STN LTRS: KNIR
WBAN # : 12925
WMO # :

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL			RELATIVE HUM		VAPR PRES	DEW PT	PRESS ALT	SFC PVLG	WINDS		MEAN AMT CLD	MEAN NUMBER OF DAYS PRECIP INCHES		SNOWFALL		T HUNDS	V S BY	OCCURRENCE OF: MAX		MIN
	MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	MN	MAX 24 HR	MAX	HUM LST 04	HUM LST 13	IN OF HG	F DEG	99.95% FEET	DRCTN	SPEED MN	SPEED MAX	IN TENTH	.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	NT DM ES R	FOG 7MI	DEG <	F >	AND <
JAN	64	44	54	93	15	1.6	6.2	#	2.6	#	1	1	81	64	.29	44	600	N	7	44	6	8	1	#	0	1	17	#	7	18	4
FEB	68	48	58	92	22	2.1	6.6	#	2.2	#	5	5	80	60	.32	47	700	SSE	8	46	6	6	1	#	#	1	15	#	8	12	2
MAR	75	55	65	97	31	1.1	3.9	#	2.0	#	#	#	80	57	.40	53	700	SSE	9	72	6	6	1	0	0	2	17	1	17	6	#
APR	91	63	73	104	35	2.0	6.0	.1	3.3	0	0	0	83	59	.54	61	750	SSE	9	49	7	6	1	0	0	3	18	2	26	1	0
MAY	86	69	78	102	50	3.8	11.0	#	6.1	0	0	0	85	59	.67	67	600	SSE	8	68	6	6	2	0	0	5	18	6	30	0	0
JUN	91	73	82	104	57	3.5	13.1	.1	4.8	0	0	0	87	57	.77	71	500	SE	7	58	5	6	2	0	0	5	14	21	30	0	0
JUL	94	75	85	106	65	2.2	9.5	#	3.6	0	0	0	86	53	.79	72	350	SSE	7	42	4	5	2	0	0	4	12	27	31	0	0
AUG	94	75	85	108	65	2.8	6.8	#	3.0	0	0	0	85	53	.79	72	400	SE	6	59	5	7	2	0	0	6	12	27	31	0	0
SEP	90	71	81	104	47	5.3	20.9	1.1	10.4	0	0	0	85	57	.71	69	500	SE	6	59	5	9	2	0	0	6	14	18	30	0	0
OCT	83	63	73	100	34	2.9	9.2	.1	6.2	0	0	0	83	56	.54	61	550	SE	6	42	4	6	2	0	0	3	16	5	28	1	0
NOV	74	53	64	95	26	1.6	5.0	#	2.4	#	#	#	81	57	.39	52	650	N	7	49	5	6	1	0	0	1	15	#	17	7	1
DEC	68	47	57	89	25	1.6	6.8	.1	2.9	#	#	#	80	61	.32	47	650	N	7	44	6	7	1	0	0	1	16	0	9	15	2
ANN	81	61	71	108	15	30.5	20.9	#	10.4	#	5	5	83	58	.52	60	650	SSE	7	72	5	78	18	#	#	38	184	107	264	60	9
EYR	25	25	25	25	25	25	25	25	25	25	25	25	24	24	24	24	24	25	25	22	23	25	25	25	25	24	24	25	25	25	25

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	45	40	43	54	38	15	5	3	9	16	29	37	28	25
LESS 5000	03	49	48	53	58	42	22	7	6	14	20	37	43	33	25
FT AND/OR	06	55	52	56	65	50	30	14	13	20	28	43	48	39	25
VISIBILITY	09	51	49	53	61	63	62	47	41	39	30	42	46	49	25
LESS 5 MI	12	47	46	49	55	60	61	47	45	51	43	43	44	49	25
	15	42	40	40	43	48	46	30	32	38	31	37	39	39	25
	18	35	28	28	29	24	15	6	6	10	14	23	30	21	25
	21	37	32	35	43	28	13	2	3	9	12	23	33	22	25
	ALL HRS	45	42	45	51	44	33	20	19	24	24	35	40	35	25
CEILING	00	26	22	24	29	12	3	1	1	3	5	10	21	13	25
LESS 1000	03	31	27	29	31	16	5	1	1	5	6	16	25	16	25
FT AND/OR	06	34	31	31	36	21	7	2	3	8	9	20	26	19	25
VISIBILITY	09	31	27	25	21	9	4	2	3	7	10	18	25	15	25
LESS 3 MI	12	19	15	9	6	3	2	1	2	3	4	8	13	7	25
	15	12	10	7	5	2	1	1	1	3	4	7	11	5	25
	18	13	10	5	5	2	1	1	2	2	3	6	11	5	25
	21	19	17	18	18	6	2	0	1	3	3	8	15	9	25
	ALL HRS	23	20	18	19	9	3	1	2	4	5	12	19	11	25
CEILING	00	9	6	5	3	1	0	0	0	0	1	3	6	3	25
LESS 300	03	11	9	8	6	2	0	0	0	0	1	6	10	4	25
FT AND/OR	06	13	9	10	6	4	1	0	1	1	3	8	11	5	25
VISIBILITY	09	7	6	3	1	0	0	0	0	0	1	4	6	2	25
LESS 1 MI	12	2	2	1	1	0	1	0	1	1	1	1	2	1	25
	15	2	1	2	1	0	0	1	1	0	1	2	2	1	25
	18	2	1	1	1	0	0	1	1	0	0	1	2	1	25
	21	5	2	2	1	0	0	0	0	1	0	1	4	1	25
	ALL HRS	6	4	4	2	1	0	0	0	1	1	3	5	2	25
CEILING	00	4	1	2	1	0	0	0	0	0	1	1	4	1	25
LESS 100	03	5	4	3	2	0	0	0	0	0	1	3	6	2	25
FT AND/OR	06	5	4	5	2	2	0	0	1	1	1	4	6	3	25
VISIBILITY	09	1	1	1	0	0	0	0	0	0	0	1	1	1	25
LESS 1/2 MI	12	0	0	1	0	0	1	0	1	0	1	1	0	1	25
	15	1	0	2	1	0	0	1	1	0	1	2	1	1	25
	18	0	0	1	0	0	0	1	1	0	0	1	1	1	25
	21	1	1	1	0	0	0	0	0	0	0	0	2	1	25
	ALL HRS	2	2	2	1	1	0	0	0	0	1	2	3	1	25

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
194[illegible]	M	M	71.7	72.1	77.3	83.3P	85.6P	84.5	81.2	72.8	70.2	54.9	M
194A	53.1	58.7	66.6	73.0	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	86.6P	84.0	75.1	64.2	61.5	M	M
1955	56.9	58.8	66.5	75.2	79.9	82.3	84.8	85.1	80.8	72.6	62.9	58.3	72.0
1956	56.9	61.5	64.8	71.2	78.1	83.1	84.4	85.0	81.7	76.0	60.8	60.2	72.0
1957	57.9	65.2	65.4	70.7	77.0	82.0	86.4	86.2	79.0	69.9	60.8	59.1	71.6
1958	57.9	54.4	59.5	71.4	77.4	84.7	86.0	87.4	81.3	70.1	64.4	53.9	70.3
1959	52.1	50.4	62.4	67.5	78.5	82.1	84.2	83.8	80.9	73.5	57.5	58.0	69.8
1960	54.3	53.7	58.9	71.5	74.6	82.5	85.1	83.4	79.5	74.7	64.7	53.3	69.7
1961	50.3	58.5	67.2	69.0	77.7	81.1	82.6	82.6	79.5	72.0	60.8	57.8	70.0
1962	49.7	65.2	62.0	70.9	77.6	81.4	85.5	86.8	81.3	77.4	63.4	55.3	71.4
1963	48.4	55.8	68.7	77.0	78.7	81.4	82.1	86.5	81.1	75.4	65.2	48.1	70.7
1964	55.2	51.6	62.4	72.0	77.6	81.4	83.8	84.6	80.5	68.9	66.6	55.8	70.0
1965	58.5	56.4	60.5	74.9	76.8	82.8	88.2	87.5	83.1P	69.2	69.5	60.8	M
196A	50.3	54.7	M	M	76.1	M	M	85.8	82.4P	72.6P	66.6P	55.7P	M
1967	54.8	57.1P	69.7	78.7	74.8	83.7	84.7	83.0	79.0	71.8	61.2	56.1	M
1968	53.7	54.0	61.3	72.3	77.8	81.6	83.7	85.5	79.5	76.2	63.3	59.2	70.7
1969	60.1	62.0	59.1	73.4	77.9	85.1	89.6	87.9	82.8	72.6	61.5	58.7	72.5
1970	49.9	58.5	60.0	72.4	73.9	81.1	M	84.6	80.0	71.5	63.0	65.1	M
1971	61.7	60.9	68.0	72.1	79.6	84.4	87.0	86.0	80.7	76.5	66.3	61.4	73.6
1972	57.8	58.6	68.3	75.0	76.4	81.6	83.0	82.8	82.6	74.4	57.6	53.9	71.0
1973	48.5	54.3	68.9	68.3	76.6	80.5	83.4	81.5	79.9	74.0	70.2	58.1	70.4
1974	54.9	58.7	69.5	71.9	78.9	81.3	84.7	84.0	76.1	72.4	62.8	56.5	71.1
1975	59.0	58.8	66.4	71.2	77.1	79.9	80.0	80.0	75.0	71.8	64.4	56.7	70.0
1976	54.7	60.5	66.7	72.2	73.6	81.7	81.2	83.6	80.4	65.0	56.1	51.2	68.9
1977	46.1	55.7	63.0	70.6	78.6	82.1	84.7	86.0	83.1	72.7	63.8	58.6	70.4
MEAN	54.1	58.0	64.9	72.3	77.4	82.2	84.5	84.7	80.4	72.8	63.4	57.2	71.0

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
194[illegible]	M	M	1.04	4.70P	.27	2.74P	2.33P	2.01	1.67	.97	T	1.14	M
194A	2.26	1.37	.80	1.90	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	.26P	2.27	3.86	.01	.31	M
1955	.87	2.20	.23	.25	1.96	.61	2.07	4.27	5.72	.35	1.74	.32	20.59
1956	.69	1.46	2.24	1.68	1.70	.77	.28	1.20	1.09	2.87	.80	3.46	18.20
1957	.71	1.54	3.88	4.64	9.64	6.37	T	.79	5.89	2.24	4.95	1.02	41.67
1958	6.19	6.56	.98	.39	1.41	.58	1.08	T	6.38	5.63	.65	1.61	31.32
1959	.63	4.83	.29	2.17	2.73	5.08	1.75	4.09	2.82	4.13	.84	1.77	31.07
1960	.78	4.20	1.31	1.51	5.25	5.75	1.76	5.25	1.38	5.66P	3.02	5.82	M
1961	1.76	2.73	.08	3.62	.03	3.96	3.02	1.66	.68P	.13	2.40	.41	M
1962	.63	.08	1.32	2.64	1.06	4.16	.20	2.19	6.45	.56	2.48	3.06	24.83
1963	.49	1.38	.07	.45	.24	2.43	.96	1.73	4.12	2.17	4.62	1.10	19.74
1964	1.79	2.24	1.82	.09	2.91P	1.01	6.21	.68	5.42	.98	.46	1.72	M
1965	2.72	4.38	1.55	1.86	3.96	2.19	.51	1.04	1.75	3.78	2.39	4.06	29.69
196A	1.54	2.18	.19	5.98	7.22	1.48	1.65	3.37	3.39	.07	.04	1.51	28.63
1967	2.02	.90	.05	.44	3.65	.16	3.14	5.20	19.47	4.49	1.04	.20	40.54
1968	3.27	2.23	1.48	1.17	8.51	5.65	2.11	1.60	5.33	4.74	1.36	.25	37.70
1969	.85	4.40	1.49	1.46	3.14	1.29	3.41	4.88	2.18	1.22	2.55	1.35	28.22
1970	1.29	1.23	2.18	.34	8.90	2.39	M	2.62	2.97	.12	.03	.33	M
1971	T	1.93	T	1.61	2.09	3.73	.02	6.81	20.93	4.19	.71	.94	42.96
1972	2.39	.80	.09	1.59	11.01	2.40	5.49	1.27	5.98	1.31	1.15	.16	33.84
1973	1.03	1.04	.37	2.64	.46	13.09	1.21	5.00	6.33	9.22	.72	.12	41.23
1974	1.96	.03	2.80	.48	5.11	5.54	2.33	5.93	7.18	2.92	1.68	.93	36.89
1975	1.09	.41	.37	.72	2.31	6.40	1.34	2.31	2.10	2.73	1.48	3.26	24.52
1976	.59	.05	.21	5.19	3.42	.92	9.52	2.65	4.70	7.69	2.84	3.96	41.74
1977	2.44	1.72	.82	4.30	3.48	4.66	1.18	.72	1.72	2.53	2.03	.22	25.82
MEAN	1.58	2.08	1.05	1.95	3.80	3.50	2.24	2.80	5.30	2.87	1.62	1.60	30.39

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									11	34	0		M
45-46	M	U	0	16	38	327	376	192	42	4	M	M	M
46-47	M	M	M	M	M	M	M	M	M	M	M	M	M
53-54	M	M	M	M	M	M	M	M	M	M	M	M	M
54-55	M	M	0	14	60	165	267	214	129	3	0	0	M
55-56	0	0	0	6	166	235	279	177	110	4	0	0	971
56-57	0	0	0	0	168	194	272	98	66	38	1	0	837
57-58	0	0	0	56	203	203	373	200	197	5	0	0	1237
58-59	0	0	0	57	114	342	406	256	123	63	0	0	1361
59-60	0	0	0	12	270	219	345	334	227	9	2	0	1424
60-61	0	0	0	12	98	275	447	208	55	41	0	0	1234
61-62	0	0	0	10	158	260	470	78	155	18	0	0	1149
62-63	0	0	0	5	104	308	516	277	42	3	0	0	1252
63-64	0	0	0	0	107	517	306	383	115	20	0	0	1448
64-65	0	0	0	20	91	331	235	250	220	0	0	0	1147
65-66	0	0	M	32	22	164	460	296	M	M	4	M	M
66-67	M	0	M	M	M	M	324	M	36	0	0	0	M
67-68	0	0	1	15	137	298	369	318	176	6	0	0	1320
68-69	0	0	0	1	128	225	222	114	202	0	0	0	892
69-70	0	0	0	26	195	201	483	189	185	27	3	0	1309
70-71	M	0	2	23	140	107	184	162	74	19	0	0	M
71-72	0	0	0	0	70	168	262	213	44	5	0	0	762
72-73	0	0	0	14	242	391	511	304	18	38	0	0	1498
73-74	0	0	0	0	30	231	903	209	73	20	0	0	866
74-75	0	0	0	7	139	276	245	195	89	24	0	0	973
75-76	0	0	0	8	151	285	330	161	73	0	0	0	1008
76-77	0	0	0	86	279	423	380	267	108	14	0	0	1797
77-78	0	0	0	19	103	223							
MEAN	0	0	0	18	134	268	357	226	107	17	0	0	1127

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
194[illegible]			227	256	384			614	494	265	203	21	M
194A	14	23	97	250	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	577	330	51	60	M	M
1955	24	48	184	316	467	526	621	631	482	246	107	35	3687
1956	31	83	108	199	414	548	608	628	510	353	52	51	3581
1957	56	111	85	214	380	515	671	663	428	216	83	29	3451
1958	0	11	51	202	393	596	658	702	493	225	102	1	3414
1959	15	20	49	145	426	519	603	591	487	284	57	10	3206
1960	21	12	44	211	304	531	633	580	443	318	96	22	3217
1961	0	31	130	167	401	490	553	595	443	237	38	43	3088
1962	9	88	71	200	398	499	637	684	497	396	63	14	3552
1963	6	28	165	369	432	498	537	674	491	328	121	2	3651
1964	10	0	42	236	396	499	590	615	472	146	144	54	3204
1965	40	15	84	303	374	539	726	704	M	169	167	38	M
1966	9	13	M	M	351	M	M	651	M	M	M	M	M
1967	25	M	189	419	434	565	621	564	427	232	32	32	M
1968	26	6	68	231	402	505	587	644	441	356	83	54	3403
1969	79	32	27	260	411	610	770	718	541	267	96	13	3824
1970	22	12	38	254	285	490	M	616	462	231	85	115	M
1971	92	54	172	233	461	592	691	593	478	365	115	65	3911
1972	44	37	153	310	361	503	566	560	525	313	30	13	3425
1973	8	10	148	162	366	474	579	517	454	289	194	24	3225
1974	45	40	222	293	440	494	616	599	541	245	81	20	3376
1975	61	29	141	214	383	452	474	470	306	229	141	40	2940
1976	14	36	133	224	274	506	510	581	470	93	20	0	2863
1977	3	11	56	191	426	522	615	657	546	263	77	30	3397
MEAN	27	33	111	241	390	522	613	617	470	267	93	33	3417

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

CHASE FIELD, TEXAS

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
12925	Chase Field (Beeville), Texas	28°22'N	97°40'W	190	KNIR	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office, located 2nd deck in the southeast corner of hangar	NAAS	1954	1956	28°22'N	97°40'W	203	Mercurial	24
2.	" " " " " "	"	1956	1958	"	"	208	"	24
3.	Weather Service Office located 1st deck of the Ops Bldg	"	1958	1962	"	"	196	"	24
4.	" " " " " "	NAS	1962	1976	"	"	200	"	24
1a.	Weather Service Office located 1st deck of the Ops Bldg	NAS	1971		"	"	202	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1954	Second deck in the northeast corner of hangar	AN/UMQ-5C	RD-108B	56'	1. Barograph 2. Semi-auto Met.Sta (AN/GMQ-14B) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13C) 5. Transmissometer (AN/GMQ-10) 6. Radar (AN/FPS-106) 7. Weathervision (AN/GMQ-19A)
2.	1955	Weather office (replacement)		"		
3.	1957	" " "		"		
4.	1960	On top of tower	"	"	71'	
5.	1962	Between the parallel runways	"	"	14'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Air Station, Cherry Point is located on the Neuse River in the coastal area of North Carolina. The Atlantic Ocean is southeast of the station, 16 miles to the south and 36 miles to the east. Land surrounding the air station is generally heavily wooded, level lowlands and swamps.

The maritime location makes the climate of Cherry Point rather mild for its latitude. The daily range in temperatures is moderate compared to a continental type of climate. As a rule, summers are quite warm and humid, but excessive heat is rare. Sea breezes, arriving around noon, tend to alleviate the inland heat. Averages show afternoon temperatures reach 90 degrees F. or higher about 33% of the days in midsummer. During the colder part of the year, numerous outbreaks of polar air masses reach the middle Atlantic Coast, causing sharp drops in temperatures. The warming effects of the ocean air modify these cold outbreaks by their long trajectories from the source regions and the effects of passing over the Appalachian Mountains. During the most severe cold spells on record the temperatures have only fallen to 8 degrees F. on three occasions. Normally only once each winter is there an entire day when the temperature fails to rise above the freezing point.

Rainfall in this area is usually ample and fairly well - distributed throughout the year. Spring is the driest season and summer the wettest. Summer rainfall comes principally from thunderstorms. Thunderstorms occur on 1 out of 3 or 4 days during the summer. Winter rain is more likely to be of the slow, steady rain or drizzle lasting 1 or 2 days. Seldom is there a winter without a few flakes of snow but several years may pass without a measurable amount. Appreciable accumulation of snow on the ground is rare.

During the warm months the prevailing wind direction is south-southwest, the normal sea breeze direction. During the cool months of the year the prevailing wind direction is north-northeast. Although this area is in the hurricane belt, this section of the coast rarely receives hurricane force winds. The strongest wind recorded at Cherry Point was 93 knots from the northeast in September 1955 due to the passage of a hurricane. A tornado has never affected this station but a few funnel clouds can be expected.

Visibility is normally good in this area although early morning shallow ground fog with a light southwesterly flow is quite common. Prolonged periods of haze can be experienced with a stable, stagnant summertime air mass.

CHERRY POINT, NORTH CAROLINA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: CHERRY POINT, NORTH CAROLINA
LOCATION : N34 54 W76 53

PERIOD: MAR 45-DEC 77
ELEV : 29

STN LTRS: KNKT
WBAN # : 13754
WMO # : 72309

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAP PRES	DEW PT	PRESS ALT	SPC PVLG	WINDS		MEAN AMT CLD	PRECIP INCHES		SNOWFALL		T HUS NT	V S B Y	MAX		MIN
	MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	M O N T H MEAN	M O N T H MAX	M O N T H MIN	MAX 24 HRS	MN	MAX 24 HR	MAX 04	MAX 13	LST 04	LST 13	IN OF HG	DEW PT F	ALT FEET 99.95%	DRCTN	SPEED MN	SPEED MAX	IN TENTH	.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	OM ES R	FOG <7MI	DEG > 90	F > 75	AND < 32	< 15
JAN	55	36	46	80	8	3.4	6.3	.5	2.3	1	5	5	80	61	.22	37	550	SW	7	50	6	10	2	#	#	1	17	0	1	12	#
FEB	57	37	47	84	12	3.0	8.3	.6	2.7	1	16	13	80	57	.22	37	650	NE	7	57	6	9	3	#	#	1	15	0	1	10	#
MAR	63	43	54	90	20	3.2	7.2	.7	2.5	#	8	3	80	55	.27	42	750	SSW	8	59	6	10	2	#	#	2	17	#	4	4	0
APR	72	51	62	93	29	2.5	4.3	.1	3.2	0	0	0	80	50	.36	50	600	SSW	8	70	5	8	2	0	0	3	16	#	13	#	0
MAY	79	60	70	98	33	4.6	12.2	1.2	6.2	0	0	0	85	56	.50	59	450	SSW	7	56	6	10	3	0	0	6	20	2	24	#	0
JUN	83	68	76	104	44	5.3	11.3	.9	4.5	0	0	0	88	61	.67	67	350	SSW	6	70	6	11	3	0	0	7	20	6	28	0	0
JUL	88	72	80	101	52	8.0	20.7	2.4	6.9	0	0	0	89	64	.77	71	250	SSW	6	57	6	13	5	0	0	11	19	16	31	0	0
AUG	87	71	79	101	57	6.6	26.3	1.5	6.0	0	0	0	90	64	.77	71	300	SSW	5	90	6	13	4	0	0	9	22	9	31	0	0
SEP	82	67	75	100	46	6.0	19.4	1.8	9.1	0	0	0	89	63	.64	66	400	NNE	6	93	6	10	3	0	0	4	20	[illegible]	26	0	0
OCT	74	56	65	95	26	3.7	11.0	.5	3.6	0	0	0	86	60	.43	56	550	NNE	6	76	5	8	2	0	0	2	21	#	13	#	0
NOV	65	45	55	89	18	3.2	9.2	.4	3.4	#	#	#	83	57	.31	46	550	N	6	51	5	8	2	0	0	1	18	0	3	3	0
DEC	57	38	48	80	14	3.6	9.2	.6	3.9	#	7	6	81	59	.24	39	550	N	6	59	5	9	2	#	#	1	17	0	1	11	#
ANN	72	54	63	104	8	54.0	26.3	.1	9.1	2	16	13	84	59	.40	53	550	SSW	7	93	5	119	33	#	#	48	222	30	180	40	#
EYR	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	29	33	33	33	33	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	29	28	25	20	22	17	15	16	18	25	20	24	21	33
LESS 5000	04	30	28	27	22	27	24	18	18	23	27	24	26	24	33
FT AND/OR	07	35	32	30	23	29	23	20	21	27	30	27	30	27	33
VISIBILITY	10	29	28	29	27	34	36	37	36	38	29	20	25	31	33
LESS 5 MI	13	32	29	31	29	36	43	40	44	44	32	21	26	34	33
	16	28	28	27	24	28	31	29	30	29	25	18	24	27	33
	19	28	26	24	18	22	21	19	17	23	21	19	24	22	33
	22	28	26	24	17	21	17	16	13	19	22	19	26	21	33
	ALL HRS	30	28	27	23	27	26	25	24	27	26	21	26	26	33
CEILING	01	14	13	12	7	7	5	2	3	6	11	8	11	8	33
LESS 1000	04	16	13	14	9	11	9	4	5	10	14	10	12	11	33
FT AND/OR	07	17	15	15	10	14	9	6	9	14	17	12	14	13	33
VISIBILITY	10	15	12	11	5	7	6	4	4	7	11	9	10	8	33
LESS 3 MI	13	12	11	9	3	4	4	4	5	8	6	6	9	7	33
	16	11	10	8	4	3	4	2	4	5	5	6	9	6	33
	19	12	12	9	4	5	4	3	4	6	7	6	10	7	33
	22	13	12	10	5	6	3	3	3	6	8	7	9	7	33
	ALL HRS	14	12	11	6	7	5	4	5	7	10	8	10	8	33
CEILING	01	6	5	4	2	2	1	0	0	1	3	3	5	3	33
LESS 400	04	6	6	6	3	3	2	1	1	3	5	4	5	4	33
FT AND/OR	07	7	6	6	2	2	2	1	2	4	5	4	6	4	33
VISIBILITY	10	4	3	2	1	0	0	0	0	0	1	1	3	1	33
LESS 1 MI	13	2	2	2	0	1	0	1	1	1	1	1	2	1	33
	16	2	2	1	1	0	1	0	0	1	1	1	2	1	33
	19	4	4	3	1	1	1	0	0	1	1	2	3	2	33
	22	5	5	5	1	1	0	0	0	1	2	2	4	2	33
	ALL HRS	5	4	3	1	1	1	0	1	1	2	2	4	2	33
CEILING	01	2	1	1	1	0	0	0	0	0	1	1	2	1	33
LESS 100	04	3	1	1	1	1	0	0	1	1	2	1	2	1	33
FT AND/OR	07	2	0	1	1	0	0	0	0	1	1	1	2	1	33
VISIBILITY	10	0	0	0	0	0	0	0	0	0	0	0	0	0	33
LESS 1/4 MI	13	0	0	1	0	0	0	0	0	0	0	0	0	0	33
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	33
	19	1	0	0	0	0	0	0	0	0	0	0	0	0	33
	22	1	1	1	0	0	0	0	0	0	0	1	1	0	33
	ALL HRS	1	1	1	0	0	0	0	0	0	1	1	1	1	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	51.8	66.8	69.0	78.8	79.7	77.4	78.6	66.9	55.8	42.3	M
1966	47.1	48.8	59.3	60.7	70.2	79.8	78.0	77.5	79.9	63.4	60.1P	51.6P	M
1967	52.0	40.4	49.9	61.6	69.4	75.1	76.7	78.8	78.6	66.2	53.7	47.0	62.1
1968	39.8	46.6	55.4	63.4	69.9	76.9	80.5	78.5	75.0	59.9P	61.8	50.3	M
1969	53.7	44.0	55.6	60.0P	69.7	77.0	81.2	79.3	78.1	66.5	50.6	M	M
1970	38.7	41.7	51.7	59.7	70.2	77.1	79.1	78.2	73.5	66.9	52.8	42.2	63.5
1971	47.4	48.2	52.1	61.2	68.5	77.2	79.9	79.9	76.7	67.8	55.0	51.1	65.4
1972	50.2	49.0	55.0	63.3	72.3	81.3	81.5	80.3	79.1	61.5	54.9	46.4	64.1
1973	50.6P	40.7	54.4	62.1	73.7	76.5	81.0	79.3	76.9	66.2	54.9	49.7	M
1974	47.8	41.4	55.3	65.2	67.4	78.7	79.7	82.0	77.0	66.8	56.1	46.8	64.1
1975	43.3	46.8	57.3	63.0	71.2	76.0	81.2	79.6	78.5P	65.0	53.9	43.0	M
1976	41.2	42.0	52.4	60.7	69.3	77.1	81.4	78.7	79.0	67.1	54.4	47.0	63.8
1977	45.4	42.1	52.8	65.2	71.4	78.0	80.3	78.5	77.0	66.6	58.6	49.1	63.9
1978	40.8	40.0	48.1	61.1	69.5	79.0	82.9	81.1	76.2P	68.1	58.7	42.5	M
1979	44.3	48.8	52.9	62.7	72.3	77.5	79.5	80.9	79.4	67.8	55.2	48.9	63.9
1980	45.9	46.5	62.7	66.1	71.1	77.2	79.0	80.3	78.1	65.4	56.2	40.8	62.0
1981	40.0	40.9	57.5	57.2	66.6	75.2	81.1	78.5	76.5	65.7	58.6	46.2	62.5
1982	42.9	47.4	49.5	60.2	72.7	76.9	78.8	78.4	77.2	63.3	51.7	42.4	61.1
1983	41.2	38.8	54.9	60.4	68.7	78.0	79.5	78.3	66.4	61.6	52.8	37.2	58.6
1984	44.5	41.1	49.3	60.2	71.4P	79.0	80.1	78.5	79.1	60.7	58.6	40.2	M
1985	45.7	47.3	51.2	60.2	73.7	78.6	77.4	77.5	73.6	63.1	53.3	48.2	62.1
1986	41.3	43.0	50.6	59.4	68.4	70.4	77.8	80.0	74.3	63.1	55.9	48.0	61.3
1987	50.4	46.2	58.7	62.6	66.5	73.4	78.7	78.7	77.0	63.8	51.3	50.4	62.4
1988	41.5	39.6	54.2	61.3	68.2	77.1	80.1	81.0	76.1	65.8	55.7	44.8	62.0
1989	42.5	44.2	47.8	61.7	69.6	78.2	81.2	77.8	72.8	65.0	51.9	44.9	61.6
1970	38.2	43.2	51.5	62.8	70.8	76.3	79.5	79.3	76.0	66.6	54.6	48.5	62.4
1971	42.2	47.0	50.1	59.7	67.9	77.4	78.8	77.5	75.5	70.5	55.0	50.2	63.2
1972	51.1	46.2	52.2	60.7	66.9	72.7	78.2	78.2	74.0	63.6	55.5	52.8	62.7
1973	48.1	43.1	57.8	61.3	69.6	77.7	78.9	79.2	76.5	66.8	56.0	48.6	63.4
1974	55.7	47.0	54.4	62.2	69.3	74.7	78.0	78.5	74.3	60.4	52.9	47.8	63.1
1975	49.6	51.1	54.0	59.3	71.1	77.4	78.4	81.3	76.2	66.3	58.6	47.0	64.2
1976	49.3	43.1	57.9	62.4	67.8	75.0	79.7	76.3	72.9	59.9	48.5	44.1	61.7
1977	39.1	44.1	54.8	63.9	70.2	75.2	81.1	79.0	74.5	62.1	58.2	46.5	62.1
MEAN	45.4	47.0	55.5	61.9	69.6	76.1	79.5	79.0	74.4	64.8	54.9	47.2	62.8

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	.09	2.26P	1.19	6.62	12.11	12.38	8.17	1.19	3.67	4.60	M
1966	3.06	9.14	1.45	1.34	4.30	3.98	20.71	3.41	17.09	2.98	2.32	2.82	67.13
1967	3.21	1.18	1.99	3.29	2.33	3.81	7.01	5.60	9.71	4.16	7.19	2.88	50.90
1968	2.01	7.46P	3.44	1.40	4.83	3.07	3.37	13.25	3.27	2.32	7.38	4.23	M
1969	.46	4.12	3.19	2.39P	3.72	4.79	6.97	9.52	2.66	1.67	2.69	7.39	M
1950	1.88	1.01	2.99	2.02	6.16	6.07	17.68	1.68	3.78	4.81	1.94	3.17	53.16
1951	.93	5.94	3.10	6.90	2.82	3.77	8.69	4.55	3.72	1.71	5.22	3.83	60.34
1952	2.25	4.28	4.22	2.11	5.84	4.25	4.64	5.94	10.23	1.94	6.35	2.36	53.88
1953	3.10P	4.42	2.35	1.69	3.98	11.08	4.81	10.14	4.30	.92	5.01	3.93	M
1954	3.12	1.05	3.36	2.22	3.26	.86	6.44	3.81	3.65	2.45	2.35	4.17	36.82
1955	3.22	1.90	2.31	1.27	2.68	2.23	10.92	26.29	19.86	1.67	7.19	1.11	79.76
1956	2.40	4.85	3.13	3.79	4.90	7.01	3.70	2.73	3.96	10.96	.73	1.01	47.18
1957	2.09	4.96	2.72	.72	4.57	3.32	3.55	5.48	4.80	4.57	4.94	5.06	48.57
1958	3.81	3.19	6.69	3.78	4.20	5.57	2.55	3.12	3.71	7.42	1.20	3.67	47.06
1959	3.78	4.49	7.19	3.02	1.39	2.99	11.02	4.22	4.69	7.59	2.82	5.19	57.29
1960	6.28	5.81	3.22	2.55	3.17	6.58	9.62	4.08	6.16	2.02	1.88	2.57	53.32
1961	1.27	4.54	4.02	6.29	6.66	7.58	2.69	7.54	4.69	.58	1.13	1.15	48.14
1962	4.39	9.40	2.43	9.43	3.05	11.29	4.24	9.73	3.68	1.88	4.43	1.74	69.40
1963	4.51	4.96	1.73	6.84	6.27	4.74	4.93	2.22	9.54	4.96	2.72	4.43	62.35
1964	6.28	5.71	1.32	4.90	3.22	5.48	8.41	5.96	7.29	7.59	1.27	2.48	57.87
1965	2.46	4.87	3.69	1.98	4.87	7.73	6.77	4.00	1.79	2.12	1.17	.92	42.07
1966	6.51	4.91	3.05	.70	10.22	3.06	12.30	8.18	3.01	1.31	1.28	4.06	69.40
1967	3.44	4.11	.88	2.02	4.60	2.62	14.00	10.20	4.01	1.92	1.57	4.97	54.11
1968	5.30	1.46	1.08	1.76	2.54	2.09	5.76	2.10	5.90	5.33	3.15	2.10	41.86
1969	3.26	9.14	4.08	4.33	2.18	4.14	7.29	4.33	3.71	2.32	3.64	4.98	67.41
1970	2.00	9.97	6.82	2.23	3.47	3.76	8.61	11.12	2.84	3.89	2.60	2.76	51.15
1971	5.57	4.01	5.08	3.69	4.99	4.27	6.80	9.13	6.96	10.77	1.65	1.98	68.20
1972	4.78	4.48	3.19	.92	7.62	3.37	11.44	3.76	2.98	2.93	9.20	3.15	59.72
1973	3.02	9.06	3.69	3.97	2.21	5.78	2.39	10.18	1.85	2.65	.71	9.19	52.88
1974	3.74	3.82	3.39	1.10	10.64	4.53	4.02	11.27	2.89	2.88	2.68	4.23	56.74
1975	3.78	4.63	1.86	2.78	3.68	5.62	6.65	2.31	9.40	3.88	.64	5.72	52.74
1976	1.97	1.90	.06	12.24	10.96	8.88	10.12	9.08	4.66	1.72	6.72	6.82	84.82
1977	3.08	.96	4.76	2.07	5.04	4.11	4.26	2.67	8.32	6.93	3.68	5.92	47.62
MEAN	3.37	4.87	3.24	3.31	4.58	5.27	7.95	6.59	5.93	3.66	3.22	3.59	53.80

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									174	63	40	0	M
45-46	0	0	0	70	293	693	853	457	194	166	16	0	2444
46-47	0	0	0	91	M	M	601	696	589	123	33	0	M
47-48	0	0	14	23	338	595	775	529	553	114	5	0	2606
48-49	0	0	1	M	138	491	941	309	369	M	14	0	M
49-50	0	0	4	14	310	442	821	576	425	223	25	0	2035
50-51	0	0	23	31	384	700	942	665	592	134	18	0	2690
51-52	0	0	0	36	373	595	639	496	578	109	4	0	2251
52-53	0	0	0	141	297	567	M	396	270	108	0	0	M
53-54	0	0	0	50	311	465	931	370	367	88	43	0	2225
54-55	0	0	0	98	328	620	667	504	537	81	7	0	2560
55-56	0	0	M	93	341	675	732	370	587	173	27	0	M
56-57	0	0	5	21	329	261	601	362	175	108	22	0	2092
57-58	0	0	1	136	269	488	762	695	518	159	16	0	3042
58-59	0	0	M	105	202	690	822	465	572	138	7	0	M
59-60	0	0	0	82	305	491	586	529	490	96	19	0	2778
60-61	0	0	0	82	263	745	744	426	261	252	43	4	2818
61-62	0	0	1	119	286	579	681	495	475	173	6	0	2815
62-63	0	0	30	136	393	665	734	724	325	183	100	1	3291
63-64	0	0	57	120	359	893	825	688	479	187	M	0	M
64-65	0	0	9	164	266	673	889	492	421	176	4	11	2397
65-66	0	0	0	140	286	514	730	590	446	204	82	22	2974
66-67	0	0	1	84	280	527	646	520	277	143	22	12	2362
67-68	0	0	7	106	469	636	721	730	540	129	13	0	3508
68-69	0	0	0	94	283	620	693	576	529	120	14	0	2925
69-70	0	0	0	73	393	616	823	547	411	120	19	0	3002
70-71	0	0	11	90	369	505	701	471	458	167	29	0	2701
71-72	0	0	0	8	320	285	425	597	590	174	23	2	2184
72-73	0	0	0	100	296	577	611	607	562	146	25	0	2604
73-74	0	0	0	47	280	506	595	498	268	146	31	0	2069
74-75	0	0	8	169	381	562	675	586	565	199	7	0	3512
75-76	0	0	0	57	222	556	669	543	269	146	45	1	2286
76-77	0	0	0	186	491	640	981	578	394	97	35	5	3307
77-78	0	0	0	141	263	569							
MEAN	0	0	5	88	312	568	804	504	370	149	26	2	2804

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1965			75	113	170	413	462	388	416	75	21	0	M
1966	5	0	25	43	184	329	412	393	274	71	M	M	M
1967	4	0	0	37	174	309	371	455	331	140	3	2	1824
1968	0	1	76	73	164	362	486	423	247	M	20	2	M
1969	0	4	26	M	184	366	411	490	290	190	1	5	M
1950	35	7	12	67	195	373	445	416	284	101	25	0	1960
1951	0	1	1	26	151	376	469	471	298	131	23	13	1998
1952	3	0	12	61	238	504	519	490	512	40	0	0	2179
1953	M	4	6	57	340	391	503	490	404	104	11	0	M
1954	3	1	11	104	131	420	462	337	469	160	8	2	2268
1955	0	1	26	68	304	279	508	460	M	90	14	2	M
1956	0	2	9	50	169	367	514	443	235	93	19	18	1961
1957	3	7	0	131	236	398	485	426	464	25	17	0	2090
1958	0	0	0	69	163	310	361	504	M	52	20	0	M
1959	0	0	3	76	242	382	436	501	321	148	17	0	2196
1960	0	0	6	76	214	373	443	481	309	102	6	0	2008
1961	0	0	6	28	93	100	319	508	496	532	54	40	0	1896
1962	0	0	8	2	26	252	306	439	425	193	90	0	0	1747
1963	0	0	0	2	93	69	336	551	387	107	22	0	0	1247
1964	0	0	0	32	M	303	476	389	291	39	15	16	M
1965	1	2	1	39	284	186	392	394	328	53	0	0	1880
1966	1	0	0	43	101	191	406	470	448	92	14	6	1672
1967	0	0	29	77	104	271	431	491	184	76	1	9	1593
1968	0	0	19	31	127	369	477	521	280	123	10	0	1957
1969	0	0	25	164	404	507	495	561	306	9	0	0	1865
1970	0	0	0	61	206	362	436	451	347	104	0	1	1969
1971	0	0	0	17	125	379	435	394	316	189	26	21	1904
1972	3	0	1	49	89	240	416	417	277	57	19	6	1574
1973	0	0	26	43	174	390	439	448	330	107	16	2	1984
1974	14	0	24	71	172	296	410	426	296	97	28	0	1794
1975	3	2	12	36	206	373	426	510	344	107	34	0	2093
1976	2	6	29	76	133	306	462	393	269	33	0	0	1699
1977	0	0	14	70	204	320	309	440	321	56	47	4	2012
MEAN	2	2	14	58	174	341	438	440	296	89	15	3	1892

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

CHERRY POINT, NORTH CAROLINA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
13754	Cherry Point, North Carolina	34°54'N	76°53'W	29	KNKT	72309

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office, 2nd deck North end of Bldg 199	MCAS	1952	1956	34°54'N	76°53'W	46	Mercurial	24
2.	Weather office, 1st deck of Bldg 199	"	1956	1965	"	"	35	"	24
3.	Mounted inside wall of observers room (replacement)	"	1965	1967	"	"	35	"	24
4.	Observers room, building relocated	"	1967	1971	"	"	35	"	24
5.	" " " "	"	1971				37	"	24
1a.	Observers room, Bldg 199	"			"	"	37	Aneroid	24
1b.	GMQ 14 Console Bldg 199	"	1961	1971	"	"	38	"	24
1c.	" " " " " relocated	"	1971	1974	"	"	38	"	24
1d.	GMQ 29 Bldg 199	"	1974		"	"	38		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop control tower	Selsyn		90'	1. Barograph (aero-1932) 2. Auto met station (AN/GMQ-29) 3. Cloud height set (AN/GMQ-13B) 4. Theodolite (ML-474/GM) 5. Transmissometer (AN/GMQ-10C) 6. Radar (AN/FPS 106) 7. Weathervision (AN/GMQ-27(V)) 8. Precipitation Gauge (ML-217) 9. Altimeter control ind.(C-7826-F) 10. Wx data recorder (RO-379/GMH) 11. Radar FAX trans (T-1216/GMH 6 (V)) 12. Radar FAX recorder (RO-414/GMH 6 (V))
2.	1957 Replacement	Atop control tower	UMQ-5C	RD-108	90'	
3.	1959	Two hundred yards from the intersection of runways 01 and 05	UMQ-5	RD-108	15'	
4.	1974					

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

China Lake, California is located in the northern high Mojave Desert. Mountains of 5,000 to 10,000 feet rim the area.

China Lake's weather can be called typical of the high desert country with mostly clear skies prevailing throughout the year. The climate is semi-arid with precipitation averaging only 2 plus inches a year.

Flying weather is good throughout the year except for gusty surface winds causing turbulent conditions on landing and take off. Clear days average better than 20 days a month. Ceilings less than 5,000 feet occur only 3 to 6 days a year. Marginal flying conditions are experienced on the order of 6 days a year with half of these due to poor visibility in blowing dust and sand. The rest are due to lowered ceilings in conjunction with frontal precipitation.

Visibility is generally excellent with 50 to 100 miles being the rule in winter except for 2 or 3 days of 2 to 7 miles visibility in blowing dust or alkali which is transported into this valley when a strong north wind sets up after the passage of a fast moving cold front. Wind speeds over 20 knots frequently pick up loose sand but visibility seldom decreases to less than 10 miles.

Summer is characterized by very warm and dry days with cool nights. Daytime temperatures rise to 100 degrees or higher an average of 60 days a year dropping to 60 to 70 degrees at night. The wind is usually calm during morning hours but with afternoon heating, southwesterly winds will begin to blow 10 to 20 knots. Clear skies dominate the hot summer months. With rapid surface ground heating, and an unstable lapse rate near the surface, dust devils can occur with winds to 30 knots in the vicinity of the phenomena.

Winters are cool with temperature dropping to less than 32 degrees at night about 60 days on the average and rises into the 50's during the day. Snow falls at China Lake on an average of once a year, usually only a trace is measured but every 2 or 3 years, accumulations to 4 inches can occur. Normally, frontal systems pass quickly through the station with an average speed of 25 knots. Occasionally strong westerly winds 20 to 35 knots can be sustained for periods up to 24 hours during the winter.

The strongest winds occur in the late winter and spring months with the passage of rapidly moving cold fronts. Occasionally quite dense dust or sand storms result. Light surface winds are the rule during the winter months. Although a moderate to strong northwesterly jet lies over the station producing significant winds over the southern Mojave Desert, a light southeasterly flow will occur over the station due to the surrounding mountainous topography.

CHINA LAKE, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: CHINA LAKE, CALIFORNIA
LOCATION : N35 41 W117 41

PERIOD: APR 45-DEC 77
ELEV : 2283

STN LTRS: KNID
WBAN # : 93104
WMO # : 72384

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAP PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	T HUNDS R	V S R Y FOG	MAX DEG < 90	F > 75	MIN AND < 32	< 15
JAN	57	30	44	77	6	.5	2.1	#	.9	#	5	5	59	36	.13	24	2650	SW	5	67	4	2	#	#	#	0	1	0	#	19	1
FEB	63	36	50	81	14	.4	1.6	.0	.9	#	#	#	54	31	.15	27	2750	SW	6	69	4	3	#	0	0	0	#	0	2	9	#
MAR	68	41	55	86	22	.2	1.8	.0	.9	#	#	#	48	25	.15	27	2700	SW	8	70	4	1	#	0	0	#	0	0	8	4	0
APR	78	49	64	97	28	.1	.9	.0	.9	0	0	0	42	20	.16	29	2750	SW	9	64	3	1	#	0	0	#	0	3	20	#	0
MAY	85	56	71	107	38	.1	2.1	.0	1.0	0	0	0	38	18	.20	34	2750	SW	9	71	3	1	#	0	0	#	0	11	26	0	0
JUN	95	65	80	114	42	#	.3	.0	.3	0	0	0	31	15	.22	37	2650	SW	8	59	2	#	0	0	0	#	0	23	29	0	0
JUL	102	72	87	113	55	#	.2	.0	.2	0	0	0	28	15	.27	42	2700	SW	8	52	2	#	0	0	0	1	0	31	31	0	0
AUG	100	69	85	110	53	.1	.7	.0	.6	0	0	0	30	16	.27	42	2700	SW	7	50	2	1	#	0	0	1	0	30	31	0	0
SEP	94	62	78	110	40	.3	2.1	.0	.9	0	0	0	33	17	.23	38	2650	SW	7	60	1	1	#	0	0	1	0	23	30	0	0
OCT	82	51	67	100	32	.1	.8	.0	.8	0	0	0	40	20	.19	33	2650	SW	6	59	2	1	#	0	0	#	0	6	25	#	0
NOV	68	38	53	86	20	.3	2.0	.0	1.0	0	0	0	51	27	.15	27	2700	SW	5	62	3	1	#	0	0	#	#	0	7	7	0
DEC	59	31	45	75	8	.5	1.1	.0	.9	#	#	#	61	35	.14	25	2600	SW	5	62	3	2	#	#	0	0	1	0	#	19	#
ANN	79	30	65	114	6	2.6	2.1	.0	1.0	#	5	5	43	23	.18	32	2750	SW	7	71	3	14	#	#	#	3	2	127	209	58	1
EYR	20	20	20	20	20	20	20	20	20	19	19	19	27	27	27	27	27	27	27	19	23	20	20	19	19	16	16	20	20	20	20

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY>0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	5	3	4	4	3	3	1	2	2	3	5	6	3	19
LESS 5000	04	5	3	4	4	3	3	2	2	2	3	5	7	4	19
FT AND/OR	07	7	8	4	6	4	4	4	3	3	4	5	8	5	33
VISIBILITY	10	7	6	3	5	4	5	3	4	2	3	4	7	5	33
LESS 5 MI	13	7	6	5	6	4	5	3	5	3	3	5	6	5	33
	16	7	6	6	6	5	4	3	4	3	3	6	7	5	32
	19	6	4	4	5	5	3	2	3	3	4	6	7	5	28
	22	6	4	3	4	3	2	2	2	3	4	5	6	4	20
	ALL HRS	6	5	4	5	4	4	3	3	3	3	5	7	4	27
CEILING	01	4	1	3	4	3	3	1	2	2	3	5	4	3	19
LESS 1000	04	3	2	4	4	3	3	2	2	2	3	4	5	3	19
FT AND/OR	07	5	5	3	5	4	4	4	3	3	3	3	5	4	33
VISIBILITY	10	4	3	3	4	4	5	3	4	2	3	3	4	4	33
LESS 3 MI	13	4	2	3	5	4	5	3	5	3	3	3	4	4	33
	16	4	3	4	5	5	4	3	4	2	3	4	5	4	32
	19	4	2	2	3	5	3	2	3	3	3	4	5	3	28
	22	4	3	2	4	3	2	2	2	3	3	5	4	3	20
	ALL HRS	4	3	3	4	4	4	3	3	2	3	4	5	4	27
CEILING	01	4	1	3	4	3	3	1	2	2	3	5	4	3	19
LESS 600	04	3	2	4	4	3	3	2	2	2	3	4	5	3	19
FT AND/OR	07	5	5	3	5	4	4	4	3	3	3	5	4	4	33
VISIBILITY	10	3	3	3	4	4	5	3	4	2	3	3	4	4	33
LESS 2 MI	13	4	2	3	5	4	5	3	5	3	3	3	4	4	33
	16	4	3	4	5	5	4	3	4	2	3	4	5	4	32
	19	4	2	2	3	5	3	2	3	3	3	4	5	3	28
	22	4	3	2	4	3	2	2	2	3	3	5	4	3	20
	ALL HRS	4	3	3	4	4	4	3	3	2	3	4	5	3	27
CEILING	01	4	1	3	4	3	3	1	2	2	3	5	4	3	19
LESS 500	04	3	2	4	4	3	3	2	2	2	3	4	5	3	19
FT AND/OR	07	4	5	3	5	4	4	4	3	3	3	5	4	4	33
VISIBILITY	10	3	3	2	4	4	5	3	4	2	3	3	4	3	33
LESS 1 MI	13	4	2	3	5	4	5	3	5	3	3	3	4	4	33
	16	4	3	4	5	3	4	3	4	2	3	4	5	4	32
	19	4	2	2	3	5	3	2	3	3	3	4	5	3	28
	22	4	3	2	4	3	2	2	2	3	3	5	4	3	20
	ALL HRS	4	3	3	4	4	4	3	3	2	3	4	5	3	27

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	61.8	69.3	78.1P	87.7	82.4	79.3	66.1	51.7	42.8	M
1946	44.9	47.5	55.6	65.3	70.9	78.3	84.4	85.0	79.4	60.8	48.3	47.4	63.6
1947	43.5	52.1	57.8	65.6	74.2	78.5	83.4	81.4	80.1	66.4	49.4	43.6	64.5
1948	45.5	45.5	60.4	61.3	67.5	78.8	84.4	82.6	77.5	65.4P	50.6	40.7	M
1949	34.7	42.3	57.5	66.9	70.0	81.8	87.0	82.1	78.2	63.0	58.6	42.0	63.4
1950	40.8P	42.2	55.6	66.4	71.7	78.2	87.6	84.6	79.5	69.4	58.7	50.8P	M
1951	44.7	48.6	54.5	65.5	72.6	80.1	88.5P	84.3	80.7	69.0	51.1	43.2	M
1952	40.7	49.3	49.7	62.7	74.5	78.2	86.9	86.9	75.5	70.5	50.3	44.4	64.2
1953	48.6	48.1	56.4	62.3	63.4	76.2	90.1	83.6	79.2	66.7	54.6	43.1	64.1
1954	44.8	43.8	51.9	67.7	75.9P	78.5	88.7	82.0	77.4	66.5	55.4	42.5	M
1955	40.1	43.2	56.0	58.3	68.3	78.9	84.6	87.0	78.1	67.8	52.2	47.6	63.5
1956	47.9	45.6	55.7	60.6	71.4	81.3	86.8	82.4	81.0	63.6	50.8	43.0	64.2
1957	41.2	45.1	57.9	62.6	68.1	83.9	86.4	86.5	77.4	62.1	49.7	44.9	64.5
1958	46.7	42.6	51.4	61.5	74.7	78.4	85.5	88.6	79.3	70.0	53.3	48.6	65.8
1959	47.2	47.6	59.8	68.5	70.3	86.0	91.8	86.5	74.9	68.6	54.2	47.3	66.6
1960	42.0	48.5	60.0	64.5	70.5	84.5	88.0	84.9	80.0	66.1	52.1	45.4	65.6
1961	45.1	40.8	55.8	63.1	68.5	86.4	89.3	86.3	76.5	64.8	51.2	44.4	64.9
1962	44.6	46.7	51.1	67.2	66.8	78.3	89.7	85.0	78.6	67.6	56.2	46.7	64.6
1963	42.3	47.4	53.4	57.1	71.9	75.8	83.4	82.7	78.4	68.2	54.7	43.9	64.3
1964	44.3	48.4	57.7	61.0	69.6	77.3	86.2	85.3	76.2	71.8	M	M	M
MEAN	43.9	45.4	56.3	63.4	70.1	79.7	86.6	84.3	78.1	66.3	52.8	44.7	64.5

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	.00	2.13	T	.02	.18	T	1.27P	T	1.12	M
1946	T	.47	.26	.03	.00	.00	.05	T	.00	.17	2.33	1.05	3.62
1947	T	.04	.08	.44	T	.00	.00	T	.00	.62	.00	1.09	2.03
1948	T	.19	.02P	.06	.16	.07	.00	.00	.00	T	.00	M	M
1949	M	.16	.26	.09	T	T	.03	T	T	T	.04	.41	M
1950	.00P	.37	.09	T	.00P	T	.18	T	.78	T	.02P	1P	M
1951	.08	.01	T	.01	.13	.00	T	T	.00P	.08	.05	.57	M
1952	2.13	.18	1.79	.08	.00	T	.02	T	.12	.00	.85	1.10	5.89
1953	T	.00	T	.04	T	.00	.04	T	T	T	.06	.00	.10
1954	1.41	.40	.48	T	.02P	.00	.05	T	.41	.00	.76	.59	M
1955	.39	T	.00	.01	T	.00	.00	.00	.00	.00	.05	.02	.47
1956	.71	.00	.00	.94	.01	.00	T	.00	.00	.07	.00	.00	1.73
1957	1.00	.41	.09	.01	.08	.03	T	.00	.80	.73	.16	.91	3.13
1958	.38	1.48	.66	.38	T	.00	T	.01	.15	.40	T	.00	3.75
1959	.90	.04	.00	T	.05	.00	.00	T	.70	T	.16	.77	2.98
1960	.47	1.08	T	.04	.00	.28	.05	.00	.29	T	.89	.03	3.14
1961	.38	T	T	T	.00	.00	.00	.00	.95	T	.11	.99	.46	2.46
1962	.79	1.46	.10	.00	T	.00	T	T	T	T	T	T	T	2.51
1963	.08	.90	.19	T	.00	.02	.00	.71	2.14	.81	.41	T	5.25
1964	.12	T	.09	T	T	.00	.17	.04	.01	.15	M	M	M
MEAN	.50	.40	.20	.11	.10	.02	.03	.08	.27	.12	.34	.47	2.68

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										168	18		M
45-46	0	0	3	36	403	683	816	681	353	98	2	0	2691
46-47	0	0	0	135	491	540	660	357	219	114	4	0	2520
47-48	0	0	2	44	462	660	598	561	500	153	82	0	3062
48-49	0	0	14	M	427	765	934	802	580	45	22	0	M
49-50	0	0	0	140	185	672	M	367	286	75	47	2	M
50-51	0	0	0	12	210	M	623	454	271	98	24	0	M
51-52	M	0	0	82	411	665	744	447	471	91	1	0	M
52-53	0	0	4	6	434	831	506	444	513	132	103	5	2598
53-54	0	0	0	85	312	671	587	306	499	38	M	9	M
54-55	0	0	0	63	281	695	762	602	537	202	66	3	3009
55-56	0	0	0	26	376	532	520	558	285	163	21	0	2479
56-57	0	0	0	102	420	612	733	268	219	98	31	0	2484
57-58	0	0	0	105	453	619	561	333	410	152	3	0	2836
58-59	0	0	0	43	365	584	567	486	167	6	20	0	2178
59-60	0	0	1	30	316	563	705	472	138	95	19	0	2339
60-61	0	0	0	52	385	596	610	395	276	77	14	1	2406
61-62	0	0	0	110	410	693	623	491	422	90	55	4	2798
62-63	0	0	0	18	260	562	696	506	355	267	16	0	2338
63-64	0	0	2	24	309	586	631	478	374	154	95	7	2654
64-65	0	0	0	20	M	M							
MEAN	0	0	1	59	362	623	648	459	326	112	33	2	2601

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945				79	137		708	565	406	96	8	0	M
1946	0	0	0	110	191	404	623	627	568	13	0	0	2316
1947	0	0	3	79	296	416	582	518	469	92	0	0	2449
1948	0	0	0	47	147	420	611	552	504	M	1	0	M
1949	0	0	0	109	185	512	688	541	404	86	0	0	2523
1950	M	0	2	117	261	408	708	614	524	194	30	M	M
1951	0	0	6	90	259	460	M	608	497	69	0	0	M
1952	0	0	5	29	300	344	687	688	413	102	0	0	2846
1953	0	0	1	98	58	346	784	548	436	82	6	0	2358
1954	0	0	1	126	M	421	742	534	379	117	0	0	M
1955	0	0	4	11	174	425	613	716	429	122	0	0	2496
1956	0	0	5	37	229	496	619	546	487	65	0	0	2484
1957	0	0	4	32	133	574	679	610	380	20	0	0	2426
1958	0	0	0	53	311	438	643	799	435	202	1	0	2826
1959	0	0	10	121	192	576	837	649	339	149	0	0	2827
1960	0	0	10	86	195	593	719	624	458	91	2	0	2780
1961	0	0	0	57	120	592	781	606	295	109	0	0	2578
1962	0	0	0	100	119	410	787	620	413	178	4	0	2360
1963	0	0	0	16	237	330	594	556	410	126	0	0	2269
1964	0	0	0	41	182	582	664	656	565	258	M	M	M
MEAN	0	0	3	70	198	490	676	604	401	112	3	0	2517

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

CHINA LAKE, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93104	China Lake, California	35°41'N	117°41'W	2283	KNID	72384

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, second deck of hangar #1	Navy	1945	1958	35°41'N	117°41'W	2234	Mercurial	
2.	Weather service office	"	1958	1959	"	"	2233	"	
3.	Relocated Weather service office	"	1959	1969	"	"	2238	"	
4.	" " " "	"	1969		"	"	"	"	
1a.	Weather service office	"	1964		"	"	"	Aneroid	

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1949	Roof of hangar #1	Double register		68'	1. Barograph 2. Hygrothermograph
1a.	1949	Roof of control tower	Selsyn	Triple	86'	3. Theodolite 4. Thermoscreen
2a.	1958	Roof of control tower (replacement for selsyn)	UMQ-5	RD-108	86'	5. Maximum and minimum thermometer 6. Digital thermometer
3a.	1959	Five hundred feet from the apex of runways 21 and 14	UMQ-5	RRD-108	18'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Corpus Christi, Texas is located on a peninsula approximately 10 miles southeast of downtown Corpus Christi. The terrain surrounding the Naval Air Station is flat. Water surrounds the station on three sides. The local area within 40 miles of the station is flat with an average height of 60 feet. Field elevation is 19 feet.

Local climate is characteristic of the Gulf Coast with short mild winters and hot humid summers. The transition to the winter months occurs in November. January is normally the coldest month. The temperature range during April through October is relatively small due to the modifying effects of the water.

The major obstruction to visibility is fog with the greatest occurrence during the winter months. Precipitation averages 29 inches annually with peak rainfall during September.

The prevailing wind is from the southeast. There is a distinct sea breeze effect increasing the synoptic wind speed approximately 10 knots. The land breeze is normally restricted to winter months with a very light pressure gradient.

Flying weather is excellent at the station. During the months of December throught April, Visual Flight Rules (VFR) average 79% of the time. For other months VFR conditions exist 96% of the time.

Severe tropical storms or hurricanes average about one every ten years, storms of lesser strength about one every five years. The tropical storm season is from 1 June to 30 November with primary months of occurrence being August and September. Normally the storms entering the Gulf of Mexico from the Caribbean Sea are the strongest.

The station is normally under the influence of maritime tropical air masses with changes of air masses occurring as early as mid-September and as late as the last part of May. During the months of October, November, March, and April both maritime polar and continental polar fronts move across the area. During winter months fronts are either continental polar or arctic. Arctic fronts are mostly confined to January or early February. Arctic fronts are very slow clearing after passage, as they usually become stationary just south of Brownsville, with warm air overrunning the cold air causing extensive periods of low ceilings and visibility.

CORPUS CHRISTI, TEXAS

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: CORPUS CHRISTI, TEXAS
LOCATION : N27 41 W97 17

PERIOD: MAR 45-DEC 77
ELEV : 16

STN LTRS: KNGP
WBAN # : 12926
WMO # : 72251

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAPRES SS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	STN PVLG	WINDS DRCTN	WINDS SPEED MN	WINDS SPEED MX	MEAN AMT CLD IN TENTH	MEAN NUMBER OF DAYS OCCURRENCE OF: PRECIP .01 OR GTR	PRECIP .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER	VISIBY FOG	MAX TEMP DEG > 90	MAX TEMP DEG > 80	MIN TEMP AND < 45	MIN TEMP AND < 32
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	MN	MAX 24 HR	MAX	HUM LST 04	HUM LST 13																		
JAN	64	50	57	84	19	1.6	12.6	.1	4.6	#	1	1	83	73	.36	50	450	N	11	59	6	8	1	#	0	1	16	0	#	10	1
FEB	67	53	61	94	21	1.6	7.5	#	4.0	#	#	#	83	70	.39	52	500	SE	11	58	6	6	1	0	0	1	12	#	1	6	#
MAR	72	60	66	90	29	.9	4.7	#	2.3	#	#	#	84	69	.47	57	550	SE	12	67	6	5	1	0	0	1	15	#	4	2	#
APR	78	67	73	98	46	2.0	5.7	#	5.3	0	0	0	86	70	.62	65	550	SE	13	60	7	5	1	0	0	3	13	#	13	#	0
MAY	84	73	79	97	53	3.0	15.8	.1	6.1	0	0	0	84	69	.74	70	450	SE	12	78	6	6	2	0	0	4	5	1	27	0	0
JUN	88	78	83	99	64	2.8	15.1	#	5.0	0	0	0	82	67	.85	74	300	SE	12	51	5	5	2	0	0	3	2	9	30	0	0
JUL	90	79	85	97	69	1.5	12.2	.0	3.0	0	0	0	81	65	.88	75	200	SSE	11	45	4	4	1	0	0	2	1	18	31	0	0
AUG	90	79	85	101	67	3.0	13.5	#	5.1	0	0	0	81	65	.88	75	250	SE	10	104	5	6	2	0	0	4	1	19	31	0	0
SEP	88	76	83	100	61	5.6	20.7	.2	12.2	0	0	0	79	66	.82	73	300	SE	10	71	5	10	3	0	0	6	1	12	29	0	0
OCT	82	70	76	96	46	3.5	11.4	#	4.3	0	0	0	77	64	.64	66	350	SE	10	60	4	7	2	0	0	3	4	1	23	#	0
NOV	74	60	67	89	31	2.1	9.8	#	7.8	#	#	#	79	66	.47	57	450	N	11	58	5	6	1	0	0	1	9	0	9	2	#
DEC	67	54	61	91	29	1.4	7.0	#	2.3	#	#	#	81	69	.39	52	450	N	10	56	6	6	1	0	0	1	13	#	2	6	#
ANN	79	67	73	101	19	29.0	20.7	.0	12.2	#	1	1	82	68	.60	64	400	SE	11	104	5	74	18	#	0	30	92	60	200	26	1
EYR	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	28	32	32	32	29	32	32	32	32	29	29	32	32	32	32

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	42	37	42	48	39	15	4	5	8	10	24	33	25	32
LESS 5000	03	47	41	49	53	42	19	7	9	14	16	27	36	30	32
FT AND/OR	06	51	45	51	54	39	21	8	10	18	18	31	39	32	32
VISIBILITY	09	50	45	48	54	50	40	23	23	26	21	33	41	38	32
LESS 5 MI	12	45	42	41	45	44	33	16	13	22	22	30	36	32	32
	15	36	34	29	31	34	23	9	9	15	15	22	30	24	32
	18	34	30	28	30	32	22	6	5	7	11	21	31	21	32
	21	38	32	33	39	34	14	3	4	7	11	22	29	22	32
	ALL HRS	43	38	40	44	39	23	9	10	15	15	26	34	28	32
CEILING	00	25	18	25	31	17	3	0	1	2	3	8	15	12	32
LESS 1000	03	29	21	27	33	15	3	0	1	3	4	10	18	14	32
FT AND/OR	06	31	25	27	30	12	3	0	1	4	5	13	20	14	32
VISIBILITY	09	29	24	23	25	9	3	1	3	4	6	13	19	13	32
LESS 3 MI	12	22	17	14	11	5	1	1	2	3	4	8	14	8	32
	15	17	15	8	8	4	1	2	2	3	3	7	12	7	32
	18	18	14	12	16	9	1	1	2	2	2	6	13	8	32
	21	20	15	18	26	13	2	1	1	2	2	7	13	10	32
	ALL HRS	24	19	19	22	11	2	1	2	3	3	9	15	11	32
CEILING	00	11	8	9	6	1	0	0	1	0	0	1	5	3	32
LESS 300	03	13	9	11	7	1	0	0	1	0	0	2	7	4	32
FT AND/OR	06	14	10	11	6	1	0	0	0	0	1	3	7	4	32
VISIBILITY	09	11	8	6	2	0	1	1	1	0	0	3	6	3	32
LESS 1 MI	12	5	3	1	1	0	1	1	1	0	0	1	3	1	32
	15	2	2	1	0	1	1	1	1	0	0	1	2	1	32
	18	3	3	2	1	0	0	1	2	0	0	1	3	2	32
	21	9	6	5	4	0	0	0	1	0	0	0	4	3	32
	ALL HRS	9	6	6	3	1	0	1	1	0	0	1	5	3	32
CEILING	00	5	4	3	1	0	0	0	1	0	0	0	2	1	32
LESS 100	03	6	4	4	2	1	0	0	1	0	0	1	3	2	32
FT AND/OR	06	6	4	3	1	1	0	0	0	0	0	1	3	2	32
VISIBILITY	09	3	2	1	0	0	0	1	1	0	0	1	3	1	32
LESS 1/4 MI	12	1	1	0	0	0	0	1	1	0	0	0	1	1	32
	15	0	1	0	0	1	1	1	1	0	0	0	1	1	32
	18	1	0	0	0	0	0	1	1	0	0	0	1	1	32
	21	3	2	2	1	0	0	0	1	0	0	0	2	1	32
	ALL HRS	3	2	2	1	0	0	1	1	0	0	1	2	1	32

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
194[illegible]	M	M	70.4P	71.9	76.7	81.5	83.4	82.6	81.1	73.5	71.8	67.3	M
194A	55.1	60.3	67.4	72.5	77.8	80.8	83.3	83.7	81.9	76.4	65.9P	61.1	M
1947	57.4	53.5	60.5	69.6	76.2	81.8	83.7	82.7	81.6	76.7	66.0	58.7	70.5
1948	51.8	57.4	62.7	71.9P	78.2	81.0	83.3	82.8	79.4	74.3P	68.4	64.3	M
1949	54.9	61.3	M	69.3	M	M	84.2	M	M	75.7	68.0	59.8	M
1950	65.1	55.6	66.1	72.4	80.2	83.2	84.0	84.3	81.0	79.0	66.3	60.5	74.1
1951	57.8	58.5	65.1	70.7	77.2	82.1	83.9	84.4	81.1	77.0	63.9	M	M
1952	64.4	62.5	65.9	69.7	76.2P	82.7	84.8	84.9	82.8	73.1	65.5	59.8	M
1953	57.9	61.2	72.1	75.4	79.7	86.8	87.2	84.1	83.9	77.6	68.0	57.9	74.7
1954	57.0	66.2	66.0	75.3	78.1	84.3	85.2	86.9	87.2	78.6	68.6	64.5	75.2
1955	61.2	61.6	67.5	75.4	81.1	83.0	85.1	85.3	84.2	77.0	66.9	61.6	74.1
1956	59.5	62.7	66.0	71.9	78.8	82.7	82.8	84.0	82.3	78.2	63.7	61.6	72.9
1957	59.9	66.7	67.2	71.7	78.4	82.0	83.6	84.4	80.5	72.9P	64.0	62.5	M
1958	54.7	58.0	61.0	71.2	78.4	83.6	84.5	84.9	82.6	73.7	67.3	58.7	71.5
1959	54.1	58.9	65.5	68.4	78.5	82.4	83.2	83.1	82.1	75.1	59.8	60.9	71.0
1960	57.1	56.7	59.9	70.8	74.4	81.7	83.8	83.8	81.0	76.7	67.0	55.8	70.9
1961	52.4	59.6	68.0	70.0	78.1	81.9	82.9	83.0	78.6	72.2	61.3	59.6	70.6
1962	49.8	65.3	63.0	71.0	77.2	83.1	85.3	86.3	82.5	78.9	65.8	57.5	72.1
1963	49.7	55.4	66.6	70.3	79.9	84.2	85.4	84.9	82.8	77.3	69.9	62.9	72.1
1964	57.5	56.2	65.5	74.6	79.8	82.6	84.0	84.2	81.0	71.2	69.3	57.6	72.0
1965	59.6	57.6	60.4	74.5	78.8	83.8	85.4	83.9	83.3	72.4	73.1	65.2	73.2
1966	58.8	55.1	63.5	70.0	73.9	81.4	85.3	84.9	82.7	75.9	70.7	60.9	71.5
1967	54.5	58.7	67.3	75.4	77.0	81.1	82.8	80.8	79.9	74.4	65.1	56.0	71.3
1968	53.0	52.4	61.3	71.1	78.2	82.7	83.2	85.1	81.9	78.0	67.1	54.4	71.4
1969	60.7	62.8	61.2	73.7	78.5	84.1	87.3	85.7	81.9	75.5	65.8	64.0	73.5
1970	59.1	60.9	62.4	72.0	75.8	83.0	85.3	83.7	81.2	73.5	66.1	67.5	72.0
1971	63.4	65.1	70.3	72.8	79.1	84.5	84.6	84.1	81.5	78.8	71.5	66.7	75.1
1972	62.1	61.9	70.0	77.4	79.1	83.7	84.1	84.7	84.1	78.4	61.6	55.5	73.6
1973	52.8	58.3	70.7	71.1	77.1	81.4	85.1	82.8	82.6	77.0	74.6	62.3	73.0
1974	59.2	63.5	70.9	74.6	81.4	82.4	84.4	85.5	79.7	76.7	66.3	59.3	73.5
1975	61.2	61.6	68.5	75.1	81.4	85.1	85.9	85.5	81.7	77.2	69.3	60.1	74.4
1976	58.2	66.1	69.8	74.7	77.2	84.0	84.2	85.8	83.9	69.9	58.8	55.8	72.4
1977	51.1	59.3	68.0	73.8	80.4	85.4	86.8	88.2	86.2	78.0	70.3	64.4	74.4
MEAN	57.1	60.3	65.8	72.6	78.3	83.0	84.5	84.4	82.2	76.0	66.9	59.5	72.6

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
194[illegible]	M	M	4.69	3.63	1.39	7.06	2.19	8.27	1.05	2.58	.75	2.66	M
194A	3.06	.72	1.59	3.50	2.54	3.36	.82	2.23	6.48	2.18	.89P	.36P	M
1947	.96	.17	1.35	.61	4.20	2.24	.07	3.19	.20	.81	3.77	1.25	18.82
1948	.98	3.67P	.96	1.71	.62	.86	1.00	3.20	4.83	.06P	.38	.18	M
1949	1.02	2.97	M	4.40	M	M	2.15	M	M	5.82	.03	1.45	M
1950	.14	1.01	.73	1.60	1.29	2.22	.16	.04	2.69	T	.01	.02	9.91
1951	.81	.33	2.13	.53	1.10	2.89	T	.25	9.56	.48	1.76	M	M
1952	.64	.78	.18	2.36	1.79P	.47	3.05	.74	8.57	T	3.11	.76	M
1953	.40	.62	.91	1.42	1.31	T	1.02	13.52	.41	5.91	.35	1.87	27.74
1954	.94	.01	.06	4.42	1.09	2.72	.08	.69	1.95	4.46	.70	.27	17.99
1955	2.81	1.95	.05	.01	.29	.12	1.00	3.22	19.18	2.85	2.14	.42	34.04
1956	.21	.57	.38	2.86	.99	.12	.90	2.28	1.27	2.50	.64	.13	12.25
1957	.18	1.61	2.16	2.16	5.24	2.63	.00	1.27	3.43	.23P	9.78	.72	M
1958	12.60	7.50	.71	.23	1.42	1.11	1.24	1.53	10.33	6.54	2.52	3.40	49.19
1959	1.10	2.70	.07	1.32	2.35	6.27	2.04	5.90	2.72	5.18	.66	1.32	31.63
1960	1.26	1.23	1.01	2.93	1.09	3.13	.37	4.53	1.89	11.41	2.62	5.97	38.44
1961	1.31	4.61	.09	3.02	.05	3.46	2.15	1.70	3.14P	.51	2.69	.44	M
1962	.19	.05	.86	.74	1.28	3.03	.00	1.29	2.28	1.03	2.00	3.63	16.34
1963	.21	1.79	.06	.13	.53	5.01	.74	.21	.74	4.58	.97	.52	15.49
1964	.77	1.38	.28	.17	2.18	.01	2.61	.15	7.00	.14	.39	3.03	18.05
1965	.59	3.27	.24	.64	5.71	.61	.11	4.85	3.68	1.85	3.15	4.39	29.09
1966	2.40	1.22	.95	2.93	9.23	2.29	1.01	.88	2.65	1.27	.19	.20	24.31
1967	2.40	2.44	.01	.10	1.46	1.84	.04	6.97	20.70	3.09	.43	.66	40.74
1968	2.04	2.38	.78	.79	15.75	15.07	4.69	.43	4.91	2.25	1.10	.52	50.91
1969	.40	3.06	.05	3.08	1.96	.55	.02	3.22	3.29	5.50	8.15	.94	30.82
1970	2.37	.99	2.04	.43	5.29	2.62	1.33	.80P	6.71	4.15	.99	.41	M
1971	.09	.05	T	2.53	3.49	.34	.35	4.68	11.57	5.89	1.38	3.60	33.76
1972	1.68	3.87	1.04	5.73	4.92	7.80	4.11	3.93	10.65	1.66	3.86	.14	48.99
1973	2.32	1.02	.23	1.52	.77	8.08P	.27	4.10	8.77	9.66	1.78	.11	M
1974	1.79	T	3.61	.07	6.94	3.40	.49	2.30	2.72	2.69	2.26	1.14	27.43
1975	2.12	1.16	.06	.27	2.84	2.70	2.90	4.52	8.30	3.61	.89	.42	30.19
1976	.56	.04	.45	5.49	5.50	2.48	12.19	1.79	2.92	7.21	2.71	2.45	44.79
1977	3.60	1.29	1.14	4.59	.46	.59	.59	1.42	2.80	4.12	3.84	.06	24.80
MEAN	1.57	1.64	.94	2.00	3.01	2.81	1.51	3.01	5.55	3.54	2.09	1.42	29.09

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										23	0	0	M
45-46	0	0	0	9	16	254	312	145	13	0	0	0	749
46-47	0	0	0	3	M	166	390	315	166	20	0	0	M
47-48	0	0	0	0	69	234	416	226	151	M	0	0	M
48-49	0	0	0	M	88	84	354	144	M	27	M	M	M
49-50	0	M	M	12	11	97	115	66	71	4	0	0	M
50-51	0	0	0	0	97	175	244	217	91	8	0	0	832
51-52	0	0	0	0	145	M	105	114	49	16	M	0	M
52-53	0	0	0	1	112	180	114	139	12	3	0	0	561
53-54	0	0	0	0	32	263	130	44	98	5	0	0	572
54-55	0	0	0	1	21	92	146	144	93	0	0	0	497
55-56	0	0	0	0	83	152	192	137	67	0	0	0	631
56-57	0	0	0	0	117	145	208	36	42	19	0	0	587
57-58	0	0	0	M	133	119	246	202	149	1	0	0	M
58-59	0	0	0	24	75	257	327	190	52	31	0	0	966
59-60	0	0	0	4	221	139	238	240	180	5	0	0	1047
60-61	0	0	0	7	52	303	377	103	18	23	0	0	963
61-62	0	0	0	0	139	216	463	93	120	9	0	0	1008
62-63	0	0	0	0	58	247	470	275	45	0	0	0	1095
63-64	0	0	0	0	42	385	233	249	45	4	0	0	958
64-65	0	0	0	6	61	272	198	210	190	0	0	0	937
65-66	0	0	0	2	3	70	356	275	79	14	2	0	798
66-67	0	0	0	0	30	193	272	181	41	0	0	0	717
67-68	0	0	0	0	9	54	286	382	360	164	7	0	0	1262
68-69	0	0	0	0	69	125	180	89	130	0	0	0	613
69-70	0	0	0	3	98	92	372	123	117	19	1	0	825
70-71	0	0	0	5	87	57	157	96	35	5	0	0	442
71-72	0	0	0	0	15	71	164	144	21	0	0	0	415
72-73	0	0	0	0	177	301	369	195	0	13	0	0	1055
73-74	0	0	0	0	6	134	237	101	49	1	0	0	524
74-75	0	0	0	0	73	206	176	134	64	8	0	0	661
75-76	0	0	0	4	66	207	224	72	27	0	0	0	600
76-77	0	0	0	40	230	285	432	173	31	1	0	0	1192
77-78	0	0	0	0	24	103							
MEAN	0	0	0	4	78	185	270	165	78	8	0	0	788

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
194[illegible]				237	339	502	577	552	493	281	224	20	M
194A	17	20	107	230	405	493	576	586	511	363	M	52	M
1947	4	2	34	166	454	510	585	555	505	433	105	47	3302
1948	9	13	69	M	419	501	573	558	440	M	108	69	M
1949	30	45	M	163	M	M	604	M	M	352	126	96	M
1950	124	91	110	235	480	552	596	603	547	442	145	45	3970
1951	27	41	104	187	384	519	594	607	519	377	118	M	M
1952	93	49	89	167	M	538	620	625	540	262	136	26	M
1953	61	38	238	321	463	658	693	576	522	329	129	49	4224
1954	49	86	167	321	417	586	632	685	673	428	135	86	4226
1955	34	56	108	319	511	549	627	639	582	379	146	35	4055
1956	27	76	106	212	425	540	559	597	525	414	84	48	3623
1957	59	108	120	229	425	517	584	607	469	M	110	49	M
1958	3	14	33	194	421	564	613	623	535	298	153	4	3455
1959	9	25	78	142	427	527	572	566	523	325	73	19	3279
1960	22	11	30	189	329	506	590	591	489	376	137	28	3298
1961	0	18	117	180	421	516	563	564	417	228	35	45	3104
1962	0	80	65	195	384	548	640	669	532	440	88	18	3059
1963	9	14	103	345	469	581	637	623	540	388	195	13	3913
1964	P	1	68	298	468	536	596	602	484	208	197	48	3514
1965	37	10	51	292	436	571	638	592	558	259	254	82	3760
1966	17	2	40	170	286	498	636	622	536	346	206	73	3432
1967	24	12	114	319	380	488	556	494	454	310	66	14	3231
1968	17	2	58	197	416	541	571	629	514	408	141	52	3546
1969	53	34	39	286	423	581	697	647	514	337	130	69	3790
1970	12	15	42	234	343	548	639	587	492	274	127	147	3460
1971	88	104	205	249	444	591	615	601	500	434	216	128	4175
1972	80	58	182	381	447	568	602	620	479	420	80	12	4029
1973	1	1	165	207	384	498	628	555	527	378	299	44	3740
1974	34	66	218	294	512	530	608	642	465	372	118	30	3875
1975	69	45	180	318	514	612	653	640	506	385	201	41	4180
1976	29	111	181	296	385	598	603	693	575	198	51	5	3679
1977	6	20	131	270	498	621	682	726	646	411	191	92	4294
MEAN	37	40	110	244	419	546	611	608	524	352	141	51	3678

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

CORPUS CHRISTI, TEXAS

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
12926	Corpus Christi, Texas	27°41'N	97°17'W	16	KNGP	72251

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, lower deck hangar # 58	Navy	1945	1960	27°41'N	97°17'W	34	Mercurial	24
2.	Weather service office, main deck hangar #58	"	1960	1970	"	"	19	"	24
3.	Weather service office, main deck hangar # 58	"	1970	1976	"	"	Above Grd 19	"	24
1a.	Weather service office, main deck hangar # 58	"	1970		"	"	Above Grd 21	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
*1.	1949	Atop control tower roof	Selsyn	Double register	90'	* Date equipment surveyed unknown 1. Marine barograph 2. Auto Met station (AN/GMQ-29) 3. Cloud height set (AN/GMQ-13) 4. Transmissometer (AN/GMQ-10C) 5. Radar (AN/FPS-106) 6. Weather vision (AN/GMQ-27) 7. GOES (9271 Alden) 8. Radar remote system (AN/GMH-6(V))
*1a.	1949	Atop hangar # 58	3 cup		67'	
1b.	1954	Atop control tower roof	UMQ-5C	RD-108	63'	
2b.	1961	Between runway 13R-31L and taxiway yankee, 5300 feet west northwest of the operations building, hangar 58	UMQ-5C	RD-108	22'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Cubi Point, Republic of the Philippines, is located on the southeast shore of Subic Bay on the west coast of the island of Luzon. Subic Bay is about 5 miles wide and 10 miles long and opens to the southwest. Mountainous terrain on the remaining sides range up to 4,200 feet.

The Philippine Islands are dominated by the northeast monsoon during the winter months and by the southwest monsoon during the summer. The northeast monsoon winds first appear over the Philippines by mid-October and last until mid-June. The southwest monsoon is dominant during the months of August and September although southwesterly winds are also common in June and July. The air flow of the summer months is not nearly as consistent in speed or direction as the easterly winds of winter and spring. This variation is due to the position of the Philippines near the eastern edge of the southwest monsoon influence.

The combined effects of topography and seasonal variation in wind flow produce distinct rainfall regions in the Philippines.

Cubi Point has a single rainy season beginning in the latter part of May or early June and continuing through October. Most of the rainfall occurs during the months of July, August and September with a decided maximum in August. Monthly totals in excess of 40 inches are not uncommon.

The months of the highest incidence of thunderstorms at Cubi Point are May through October. During periods of strong southwest monsoonal flow, thunderstorms are difficult to detect visually because they will be imbedded in the low overcast and masked by the almost continuous rain.

The mean annual temperature at Cubi Point averages in the low 80's. The mean monthly temperatures show little change from this figure. The coldest temperatures occur during January and February during the surges of modified maritime polar air of the northeast monsoon.

Low visibilities, i.e. "less than 6 miles" are almost exclusively a function of the rainfall pattern at Cubi Point. The heavy showers of the rainy season often cause the visibility to drop below 3 miles and occasionally as low as 1/16 of a mile.

Subic Bay is a well-protected harbor with a narrow opening to the southwest. Seas do not get a chance to build to any significant height with a limited fetch of only 10 miles. One to three feet is usually the rule during the northeast monsoon and 3 to 5 feet during the southwest monsoon. During the northeast monsoon season, a sea breeze can be expected when the winds at 2,000 feet are less than 20 knots. The sea breeze usually sets in from the southwest around 1300 local time. The weaker the gradient wind the earlier the occurrence, sometimes commencing by 1000.

Typhoons are the most severe type of weather that affects the Philippine area; although, relatively few have any direct effect on the Cubi Point weather. The greatest threat to the Subic Bay area comes from tropical cyclones that develop in late September through early December. Many of these will pass directly over the island without recurvature.

CUBI POINT, PHILIPPINES

PREPARED BY: NWSO ASHEVILLE JUNE 1978

STATION NAME: CUBI POINT, PHILIPPINES
LOCATION : N14 47 E120 16

PERIOD: OCT 55-DEC 77
ELEV : 55

STN LTRS: RPMB
WBAN # : 41231
WMO # : 98426

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAPPRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.0 OR GTR	THUNDER DAY ES R	VSBY FOG 7MI	MAX DEG > 95	> 89	MIN AND < 45	< 32
JAN	87	72	80	94	64	.2	1.0	#	.6	0	0	0	80	54	.67	67	300	ENE	7	38	6	2	#	0	0	#	0	0	25	0	0
FEB	89	72	81	97	62	.1	1.0	.0	.8	0	0	0	78	51	.67	67	300	ENE	7	40	6	1	#	0	0	#	0	1	26	0	0
MAR	92	74	83	100	65	.2	.8	#	.6	0	0	0	78	50	.69	68	300	ENE	7	38	5	2	#	0	0	1	0	5	31	0	0
APR	94	76	86	101	68	.6	3.6	.0	1.5	0	0	0	78	51	.77	71	300	ENE	7	43	5	2	#	0	0	2	#	14	30	0	0
MAY	93	78	85	102	71	10.1	55.5	.1	17.4	0	0	0	83	60	.85	74	350	ENE	7	51	7	10	4	0	0	10	#	11	30	0	0
JUN	89	76	83	100	70	21.0	51.9	3.7	10.7	0	0	0	88	71	.88	75	400	SSW	6	56	8	20	9	0	0	12	#	2	26	0	0
JUL	88	76	82	97	68	28.5	74.5	6.8	17.4	0	0	0	88	73	.88	75	450	SW	6	59	9	24	12	0	0	12	0	1	24	0	0
AUG	86	75	81	96	68	37.4	64.9	13.1	13.3	0	0	0	90	77	.88	75	450	SW	6	53	9	25	15	0	0	9	#	#	21	0	0
SEP	87	75	82	96	70	23.6	51.5	.8	12.7	0	0	0	89	74	.85	74	400	SW	5	51	9	22	11	0	0	9	#	#	24	0	0
OCT	89	76	83	98	69	8.7	28.2	.2	10.5	0	0	0	86	64	.82	73	450	ENE	6	62	7	12	4	0	0	5	#	1	28	0	0
NOV	89	74	82	99	65	4.2	21.8	#	15.1	0	0	0	82	59	.77	71	400	ENE	7	78	7	7	2	0	0	1	0	1	27	0	0
DEC	88	73	81	96	66	.9	5.3	#	3.4	0	0	0	80	56	.69	68	350	ENE	7	51	7	4	#	0	0	#	0	#	27	0	0
ANN	89	75	82	102	62	135.4	74.5	.0	17.4	0	0	0	83	62	.79	72	450	ENE	7	78	7	131	57	0	0	61	#	36	319	0	0
EYR	20	20	20	20	20	20	20	20	20	20	20	20	21	21	21	21	21	21	21	20	21	20	20	20	20	20	20	20	20	20	20

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER *PRESS ALT FEET 99.95%* INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	02	5	3	4	5	12	25	32	38	28	12	7	5	15	20
LESS 5000	05	5	2	4	3	10	21	30	34	23	9	5	4	13	20
FT AND/OR	08	7	4	4	3	8	23	27	37	25	10	7	6	13	22
VISIBILITY	11	8	7	5	6	13	26	31	40	27	8	8	8	16	22
LESS 5 MI	14	19	15	13	12	16	26	37	43	36	22	14	18	23	22
	17	16	15	11	11	18	28	37	43	30	21	15	15	22	22
	20	9	8	7	6	15	27	38	45	31	16	8	7	18	21
	23	5	4	7	6	17	26	32	42	31	15	7	4	17	21
	ALL HRS	9	7	7	7	14	25	33	40	29	14	9	9	17	21
CEILING	02	0	0	0	0	1	1	2	2	1	0	0	0	1	20
LESS 1000	05	0	0	0	0	1	1	2	2	1	0	0	0	1	20
FT AND/OR	08	0	0	0	0	1	1	3	4	2	1	0	0	1	22
VISIBILITY	11	0	0	0	0	1	3	3	4	3	1	0	0	1	22
LESS 3 MI	14	0	0	0	0	2	3	3	4	3	0	0	0	1	22
	17	0	0	0	0	1	2	4	5	4	1	1	0	2	22
	20	0	0	0	0	1	2	2	2	1	1	0	0	1	21
	23	0	0	0	0	1	1	3	3	2	0	0	0	1	21
	ALL HRS	0	0	0	0	1	2	3	3	2	0	0	0	1	21
CEILING	02	0	0	0	0	0	1	0	0	0	0	0	0	0	20
LESS 400	05	0	0	0	0	0	0	0	0	0	0	0	0	0	20
FT AND/OR	08	0	0	0	0	1	0	1	0	0	0	0	0	0	22
VISIBILITY	11	0	0	0	0	0	1	0	0	0	0	0	0	0	22
LESS 2 MI	14	0	0	0	0	1	1	1	0	0	0	0	0	0	22
	17	0	0	0	0	0	1	1	1	0	0	0	0	0	22
	20	0	0	0	0	0	0	0	1	0	0	0	0	0	21
	23	0	0	0	0	0	0	0	1	1	0	0	0	0	21
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	21
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	0	0	20
LESS 300	05	0	0	0	0	0	0	0	0	0	0	0	0	0	20
FT AND/OR	08	0	0	0	0	0	0	0	0	0	0	0	0	0	22
VISIBILITY	11	0	0	0	0	0	0	0	0	0	0	0	0	0	22
LESS 3/4 MI	14	0	0	0	0	0	1	0	0	0	0	0	0	0	22
	17	0	0	0	0	0	0	0	0	0	0	0	0	0	22
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	21
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	21
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	21

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1955	M	M	M	M	M	M	M	M	M	82.5	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	84.8	M	M	M	M	M	M	M	M
1958	M	M	M	84.4	84.7	81.3	81.2	81.6	79.6	82.2	81.1	79.5	M
1959	78.8	80.8	82.6	83.7	84.3	83.9	81.2	79.7	81.2	81.3	81.4	80.6	81.7
1960	80.5	81.4	83.0	84.3	84.3	81.6	82.5	80.3	80.6	80.8	82.0	80.4	81.8
1961	78.2	80.4	82.4	85.2	84.8	82.3	80.4	79.9	80.7	80.7	80.8	81.3	81.4
1962	79.5	79.0	82.4	84.1	85.7	82.4	80.1	81.2	79.6	82.5	80.9	79.5	81.4
1963	77.0	77.9	81.7	84.7	87.0	79.6	80.9	80.6	80.7	82.2	82.3	81.0	81.3
1964	81.7	81.3	83.4	86.8	85.4	82.4	81.5	79.8	81.3	82.9	80.8	78.7	82.3
1965	77.8	80.4	81.7	84.6	84.4	80.8	79.4	81.1	80.7	83.4	82.8	81.8	81.5
1966	80.3	80.9	82.8	85.4	80.8	84.2	83.3	82.2	80.7	82.6	81.3	80.7	82.1
1967	78.7	79.2	81.5	84.7	85.3	81.3	79.1	78.3	79.6	81.3	80.3	78.7	80.7
1968	76.5	78.4	82.1	83.7	85.7	84.4	83.0	81.7	81.6	81.2	81.2	81.2	81.9
1969	79.8	79.3	83.1	86.2	85.7	83.4	82.7	83.4	82.2	83.1	82.2	81.8	82.7
1970	80.9	80.3	84.3	86.4	87.2	83.5	M	80.2	81.4	82.6	82.4	81.8	M
1971	78.5	81.9	82.3	84.7	84.8	82.6	80.3	80.7	79.9	80.5	81.7	80.3	81.5
1972	79.6	82.1	81.4	85.3	84.9	81.9	79.8	79.4	81.1	84.1	83.2	80.1	82.1
1973	80.5	81.9	83.4	87.0	84.2	85.1	83.8	82.0	83.9	81.8	80.5	80.6	83.2
1974	80.2	81.9	83.3	86.5	84.3	83.4	82.6	81.4	84.2	81.5	80.7	80.9	82.6
1975	79.2	80.3	83.3	85.8	84.6	82.6	83.4	80.4	81.6	83.4	83.0	80.2	82.7
1976	79.2	80.6	83.3	85.3	82.0	82.9	81.9	81.6	80.1	83.0	82.5	80.7	81.9
1977	80.9	81.7	82.0	87.7	86.2	84.6	82.4	80.8	81.0	84.1	81.6	78.4	82.6
MEAN	79.5	80.5	82.7	85.3	85.2	82.7	81.7	80.8	81.3	82.3	81.6	80.4	82.0

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1955	M	M	M	M	M	M	M	M	M	9.05	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	1.61	M	M	M	M	M	M	M	M
1958	M	M	M	T	6.15	41.07	37.73	30.89	21.68	3.68	.84	.03	M
1959	.35	T	T	.00	2.50	8.69	21.76	39.09	12.54	10.97	4.75	.16	98.61
1960	.12	1.01	T	3.53	6.39	27.87	14.14	58.50	24.60	18.94	.83	.13	180.70
1961	.04	.13	.35	.00	9.58	28.88	27.93	46.88	23.29	9.08	1.10	.11	149.36
1962	T	T	.09	1.04	2.62	9.85	69.22	13.42	42.10	2.02	2.97	.08	190.11
1963	T	T	T	T	2.88	63.41	26.80	20.37	36.67	2.78	.02	.72	180.85
1964	T	.02	.04	.04	8.18	17.37	6.85	49.84	12.86	12.22	8.13	9.31	121.04
1965	.02	T	.02	1.60	22.66	27.91	30.24	15.08	32.53	.08	1.04	.11	130.32
1966	.12	T	.04	.80	47.62	10.78	9.88	17.63	39.03	.20	9.17	.73	130.00
1967	.23	T	.01	.39	6.32	31.86	33.94	46.62	16.78	4.07	9.83	.01	179.66
1968	.02	T	T	T	2.63	9.20	22.13	30.38	21.97	2.18	.02	T	84.50
1969	.04	.49	T	.94	7.34	14.98	27.07	22.39	24.48	9.01	2.58	.90	105.82
1970	T	T	.20	.49	2.29	16.97	M	39.03	34.73	8.94	2.88	.67	M
1971	.10	T	.84	T	4.04	17.70	33.23	21.39	11.44	23.86	2.33	1.22	116.65
1972	.24	.01	.93	.82	3.88	29.73	76.46	53.05	5.65	.67	.21	.22	169.97
1973	T	T	.15	.07	12.47	23.97	40.03	3.79	16.40	2.29	.08	.08	101.25
1974	T	.21	.42	.36	8.39	24.42	20.12	44.05	.02	28.19	14.05	1.05	182.88
1975	.57	T	.06	.68	1.69	16.01	7.38	53.15	12.07	18.08	1.88	1.33	112.87
1976	.01	.00	.29	.38	53.51	15.88	21.43	36.08	30.76	2.77	.16	3.09	164.34
1977	1.00	.19	.04	T	9.33	3.66	22.70	90.34	37.63	1.81	21.83	T	148.93
MEAN	.15	.11	.16	.59	10.13	21.03	28.93	37.37	23.33	8.67	4.24	.78	139.27

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
54-55													M
55-56	M	M	M	0	M	M	M	M	M	M	M	M	M
56-57	M	M	M	M	M	M	M	M	M	M	0	M	M
57-58	M	M	M	M	M	M	M	M	M	0	0	0	M
58-59	0	0	0	0	0	0	0	0	0	0	0	0	0
59-60	0	0	0	0	0	0	0	0	0	0	0	0	0
60-61	0	0	0	0	0	0	0	0	0	0	0	0	0
61-62	0	0	0	0	0	0	0	0	0	0	0	0	0
62-63	0	0	0	0	0	0	0	0	0	0	0	0	0
63-64	0	0	0	0	0	0	0	0	0	0	0	0	0
64-65	0	0	0	0	0	0	0	0	0	0	0	0	0
65-66	0	0	0	0	0	0	0	0	0	0	0	0	0
66-67	0	0	0	0	0	0	0	0	0	0	0	0	0
67-68	0	0	0	0	0	0	0	0	0	0	0	0	0
68-69	0	0	0	0	0	0	0	0	0	0	0	0	0
69-70	0	0	0	0	0	0	0	0	0	0	0	0	0
70-71	M	0	0	0	0	0	0	0	0	0	0	0	M
71-72	0	0	0	0	0	0	0	0	0	0	0	0	0
72-73	0	0	0	0	0	0	0	0	0	0	0	0	0
73-74	0	0	0	0	0	0	0	0	0	0	0	0	0
74-75	0	0	0	0	0	0	0	0	0	0	0	0	0
75-76	0	0	0	0	0	0	0	0	0	0	0	0	0
76-77	0	0	0	0	0	0	0	0	0	0	0	0	0
77-78	0	0	0	0	0	0	0						
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1955										547			M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	620	M	M	M	M	M	M	M	M
1958	M	M	M	590	619	698	907	819	665	539	689	658	M
1959	435	449	552	568	613	575	511	483	494	513	497	490	6158
1960	485	481	566	585	613	503	550	482	478	498	521	485	6249
1961	418	438	546	613	619	526	483	470	466	493	481	510	6077
1962	458	398	551	576	647	527	473	509	468	550	485	486	6075
1963	377	368	523	598	687	452	500	487	476	538	524	502	6032
1964	526	484	576	659	662	533	518	466	455	561	482	434	6456
1965	404	439	522	595	576	478	454	508	479	577	541	526	6097
1966	483	450	559	616	499	582	574	541	479	552	497	493	6323
1967	434	411	517	598	636	508	462	417	446	513	467	434	5817
1968	426	395	537	588	647	588	506	522	512	512	494	509	6276
1969	486	407	569	643	649	559	555	580	524	566	523	590	6971
1970	498	435	601	649	697	541	M	476	499	552	527	525	M
1971	428	480	543	600	622	527	482	493	451	487	506	481	6100
1972	481	502	522	614	623	513	465	452	551	600	553	476	6352
1973	490	480	579	646	727	608	590	531	571	529	470	490	6781
1974	478	482	573	651	667	557	552	519	582	519	480	500	6506
1975	445	435	571	629	678	533	640	487	504	576	548	478	6523
1976	445	465	576	616	582	562	528	513	459	563	551	494	6267
1977	503	472	538	688	664	594	566	500	487	600	509	483	6820
MEAN	456	446	554	616	632	538	523	497	496	542	506	484	6290

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

CUBI POINT, PHILIPPINES

STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
41231	Cubi Point, P. I.	14°47'N	120°16'E	55	RPMB	98426

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office in operation building	USN	1956	1967	14°47'N	120°16'E	60.39	Mercurial	*Var
2.	Weather service office	"	1967	1970	"	"	60.40	"	24
3.	" " "	"	1970	1973	"	"	62	"	24
1a.	" " "	"	1956		"	"	62	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1955	On control tower with vane extending eight feet above tower roof	AN/UMQ-5	RD-108	10'	* Commenced 24-hour observation program June 1958. 1. Barograph (2645-43) 2. Semi-auto Met station(AN-GMQ-14B) 3. Ceiling light (ML-121) 4. Theodolite (ML-247) 5. Satellite Tracking Antenna (GKR-4) 6. Radar Set Meteorological (AN/FPS-106(V)1)
2.	1962	700 feet north of runway	AN/UMQ-5C	RD-108	7'	
3.	1972	Height change	"	"	12'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Dallas is located in North-Central Texas on the southwestern perimeter of Dallas, Texas. Mountain Creek Lake borders the southern perimeter of the station including the south end of the main runway.

When considering the climate of the Dallas area, one is impressed by the temperate mean conditions that prevail and the extremes that combine to produce those means. The mean annual temperature is 66.5 degrees F., normal annual precipitation totals almost 33 inches and a mean relative humidity of 65 percent, all support the temperate climate image. The wide range between maximum and minimum temperatures which is characteristic of the continental region to the north, extends into the Dallas area. Periods of extreme cold that occasionally occur are short lived. Likewise, the extremely high temperatures that sometimes occur in summer usually do not prevail for extended periods.

Dallas is located in a region where sudden changes in temperature and moisture occur in winter as cold dry polar air replaces warm moist tropical air and vice versa. Days with readings of 20 degrees F. or lower occur an average of six times a year. The high temperatures of summer are associated with fair skies, southwesterly winds and dry air conditions which prevail during the summer in the region to the west.

Rainy periods last usually for one or two days, followed by several days of fair weather. The greatest amounts of rain occur during the months of April, May, September, and October. Thunderstorms occur throughout the year, but are most frequent in the spring. Snowfall is unimportant as a source of moisture, a measurable fall occurring on an average of only once a year.

The prevailing surface winds are southerly at 9 knots. Strong winds from the north with gusts to 35 knots occur frequently during the colder months, but are of relatively short duration.

Flying weather is excellent with marginal flying (IFR) conditions averaging 5% of the time. The IFR conditions are normally associated with early morning stratus and fog which usually lifts or dissipates by 1000 local time. This condition is most prevalent during winter and early spring while under a southerly flow. Short periods of IFR conditions are also encountered throughout the year with thunderstorms and occasionally with blowing dust in the winter immediately after a frontal passage.

DALLAS, TEXAS

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: DALLAS, TEXAS
LOCATION : N32 44 W96 58

PERIOD: MAR 45-DEC 77
ELEV : 495

STN LTRS: KNBE
WBAN # : 93901
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION MONTH MEAN	PRECIPITATION MONTH MAX	PRECIPITATION MONTH MIN	INCHES MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	SNOWFALL MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SPC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR	PRECIP INCHES .5 OR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER DAYS R	VSBY DAYS FOG <7MI	MAX DEG > 90	MIN DEG < 80	MIN AND MAX < 68	MIN AND MAX > 32
JAN	55	35	45	85	-2	1.7	4.0	.1	4.5	2	10	10	74	62	.20	34	1000	S	9	75	6	7	1	1	#	1	11	0	1	26	13
FEB	60	39	50	88	9	2.1	5.4	.1	2.7	1	5	5	72	58	.22	37	1100	S	9	57	5	7	1	1	#	2	8	0	1	21	7
MAR	68	46	57	100	12	2.3	7.9	.1	5.2	#	2	2	68	54	.27	42	1100	S	11	75	5	7	1	#	#	4	8	1	5	15	3
APR	77	56	66	100	30	4.4	13.9	1.4	4.7	#	#	#	71	58	.39	52	1050	S	10	66	6	8	3	0	0	6	7	1	12	4	#
MAY	84	64	74	100	39	4.4	12.5	.6	3.9	0	0	0	74	59	.54	61	900	S	9	70	5	8	3	0	0	7	6	6	24	#	0
JUN	92	72	82	106	53	2.8	8.2	#	4.4	0	0	0	71	53	.67	67	800	S	9	70	4	6	2	0	0	5	2	21	29	0	0
JUL	96	76	86	111	51	2.1	8.5	#	5.7	0	0	0	67	49	.71	69	650	S	8	65	4	5	1	0	0	5	1	27	31	0	0
AUG	96	75	86	109	62	2.5	10.0	#	8.0	0	0	0	67	48	.69	68	700	S	8	62	4	5	1	0	0	5	3	27	31	0	0
SEP	88	68	78	105	45	3.1	6.9	#	3.8	0	0	0	72	53	.60	64	800	S	7	67	4	6	2	0	0	4	7	18	28	#	0
OCT	79	57	68	99	31	3.2	8.6	#	4.2	0	0	0	73	53	.42	54	800	S	7	73	4	6	2	0	0	2	7	3	17	4	#
NOV	67	45	56	90	16	2.4	9.7	.3	3.6	#	6	6	73	55	.28	43	950	S	8	52	4	5	1	#	#	2	8	#	3	16	3
DEC	59	38	49	87	11	1.9	6.5	.1	2.8	#	3	3	73	58	.21	36	1000	S	8	57	5	6	1	#	#	1	9	0	1	25	9
ANN	77	56	67	111	-2	32.9	13.9	#	8.0	3	10	10	71	54	.40	53	1000	S	9	79	5	76	19	2	#	44	77	101	181	111	35
BYR	33	33	33	33	33	33	33	33	33	32	32	32	31	31	31	31	31	31	31	32	29	33	33	32	32	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
BYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	BYR
CEILING	00	29	23	21	22	16	8	4	3	12	16	19	26	16	30
LESS 5000	03	33	30	30	32	24	14	9	5	15	20	25	30	22	30
FT AND/OR	06	37	34	35	40	32	20	9	8	22	25	28	31	26	30
VISIBILITY	09	38	34	36	40	33	26	11	10	25	25	30	34	29	33
LESS 3 MI	12	36	32	32	38	33	26	15	16	24	23	28	31	28	33
	15	30	28	27	33	28	19	13	11	17	18	23	25	23	33
	18	27	22	21	20	16	7	4	4	9	12	19	23	15	30
	21	24	21	20	17	14	7	4	3	10	13	18	23	14	30
	ALL HRS	32	28	28	31	25	16	8	8	17	19	24	28	22	31
CEILING	00	12	9	6	5	4	3	2	1	3	7	8	12	6	30
LESS 1000	03	16	10	8	7	6	3	2	2	6	8	9	14	8	30
FT AND/OR	06	18	13	11	12	7	3	2	2	7	10	11	16	9	30
VISIBILITY	09	21	16	12	9	5	2	1	2	7	7	11	15	9	33
LESS 3 MI	12	14	11	8	4	3	1	1	1	3	3	7	11	5	33
	15	11	8	5	4	3	2	1	1	2	3	6	9	4	33
	18	11	7	5	3	3	1	1	0	2	3	6	9	4	30
	21	10	7	6	4	3	2	1	0	4	4	6	10	5	30
	ALL HRS	14	10	7	6	4	2	1	1	5	6	8	12	6	31
CEILING	00	5	2	2	1	2	2	2	1	3	3	3	5	3	30
LESS 400	03	7	5	3	1	2	2	2	1	2	3	3	6	3	30
FT AND/OR	06	7	5	4	3	1	0	1	0	1	3	4	6	3	30
VISIBILITY	09	5	3	2	1	0	0	0	0	0	1	2	5	2	33
LESS 1 MI	12	2	1	1	1	1	0	0	0	0	1	1	2	1	33
	15	2	1	1	2	2	1	0	0	0	1	1	2	1	33
	18	2	1	1	1	1	0	1	0	0	1	2	3	1	30
	21	3	2	2	2	1	1	1	0	2	2	2	3	2	30
	ALL HRS	4	3	2	1	1	1	1	0	1	2	2	4	2	31
CEILING	00	2	1	1	1	2	2	2	1	2	3	1	3	2	30
LESS 200	03	4	2	2	1	2	2	1	1	2	2	2	3	2	30
FT AND/OR	06	4	2	1	1	0	0	0	0	0	2	2	2	1	30
VISIBILITY	09	2	1	0	0	0	0	0	0	0	1	2	1	1	33
LESS 3/4 MI	12	1	0	1	0	1	0	0	0	0	0	1	1	0	33
	15	1	0	1	1	2	1	0	0	0	1	1	1	1	33
	18	1	0	0	0	1	0	1	0	0	0	1	1	1	30
	21	1	1	1	1	1	1	1	0	1	1	1	2	1	30
	ALL HRS	2	1	1	1	1	1	1	0	1	1	1	2	1	31

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	62.2	66.0	72.9	80.3	81.7	83.7	78.7	68.5	60.3	43.7	M
1946	45.7	52.9	61.1P	69.2	71.1P	79.2	86.9P	80.5	76.6	68.1	57.2	53.4	M
1947	46.0	45.0	50.8	66.1	72.6	81.6	86.4	86.8	79.1	73.2	52.3	48.2	65.5
1948	38.7	47.1P	54.2P	71.2P	73.7	83.8	85.3	86.6	79.3	66.1	53.6	50.5	M
1949	40.7P	47.9	57.1P	62.7P	76.0	82.7	86.2	83.4	76.2	66.0	59.3	50.2	M
1950	48.9	52.9	55.7	63.2	74.0	80.9	88.3	82.7	79.9	72.3	55.0	46.3	65.9
1951	46.3	49.6	57.4	66.9	73.0	81.0	87.2	90.7	79.9	70.2	53.2	50.4	66.9
1952	36.6	46.2	54.0	62.6	73.2	84.9	86.3	91.1	80.1	66.2	55.4	46.9	67.3
1953	51.4	50.7	61.7	68.7	73.1	87.7	85.2	86.0	79.5	69.2	54.6	48.8	67.2
1954	46.1	48.8	58.1	71.3	69.8	84.4	91.2	89.2	82.7	70.8	58.2	50.3	68.7
1955	46.6	49.1	58.2	70.2	77.3	79.4	86.5	84.5	81.2	69.3	55.7	M	M
1956	48.5	50.6	59.0	63.3	73.6	84.0	89.5	88.7	81.8	72.0	54.0	51.9	68.4
1957	44.4	48.0	53.7	62.6	72.5	81.5	86.5	86.7	76.9	63.5	52.6	43.2	65.9
1958	46.2	44.7	50.1	63.0	73.3	88.3	86.5	86.0	78.7	66.5	58.2	44.4	65.5
1959	43.1	49.2	57.0	65.4	75.3	80.6	85.4	84.5	79.4	66.0	49.8	50.8	65.2
1960	44.9	43.6	50.1	68.3	72.7	83.6	86.6	84.6	79.8	70.6	57.9	44.4	65.4
1961	42.0	51.2	60.2	66.9	70.1	78.3	83.6	83.5	77.9	68.2	58.2	46.7	65.3
1962	41.0	48.2	54.4	66.6	77.8	79.8	86.6	88.6	78.4	71.6	59.4	48.2	66.5
1963	38.6	47.6	61.8	70.8	73.7	83.7	87.9	88.4	80.7	72.3	59.1	40.9	67.5
1964	43.4	43.9	56.9	68.6	78.3	82.7	89.0	87.2	78.6	69.2	58.9	47.4	66.8
1965	47.7	48.2	58.1	68.2	76.4	81.7	87.9	85.5	80.2	67.8	64.4	53.0	67.2
1966	51.5	47.1	59.0	66.8	72.6	80.4	87.1	83.3	76.2	66.3	61.2	45.7	65.4
1967	50.1	48.6	61.5	72.7	73.6	84.1	85.4	87.2	78.4	65.4	57.0	47.6	67.8
1968	48.6	44.3	59.1	65.0	73.5	78.9	88.2	84.2	79.1	67.3	59.3	47.6	66.3
1969	47.7	48.4	57.9	66.1	75.0	81.1	89.5	86.1	77.9	64.8	59.1	49.9	67.4
1970	41.3	47.8	51.8	67.2	76.4	81.8	88.4	87.1	78.6	66.4	59.8	54.1	65.6
1971	44.8	47.8	58.4	64.3	71.1	80.6	85.7	78.5	79.2	70.6	56.8	50.7	65.3
1972	45.8	50.0	63.6	69.4	73.6	83.3	85.4	83.4	79.1	66.2	49.3	42.4	65.6
1973	40.2	48.4	59.3	68.1	72.3	78.2	85.1	82.9	78.3	69.2	60.2	49.8	64.8
1974	48.1	54.4	64.9	69.7	77.4	80.3	87.3	84.7	69.0	68.7	55.5P	47.4	M
1975	50.0	47.4	59.5	68.0	72.7P	81.4	88.8	84.6	79.9	69.0	57.7	49.6	M
1976	48.7	48.7	60.2	66.0	69.7	79.9	M	86.9	77.0	60.5	49.4	46.4	M
1977	39.3	41.8	58.9	67.1	76.9	84.7	88.3	86.7	83.7	70.2	59.2	49.9	67.9
MEAN	45.1	49.7	58.8	66.2	74.0	81.8	85.9	85.5	79.2	68.1	55.9	48.4	66.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	5.88P	5.11	2.08	4.28	4.20	1.29	2.46	2.22	5.26	.28	M
1946	2.34	3.16	3.38P	3.18	10.03	.28	1.00	4.00	1.46P	1.22	6.25	3.78	M
1947	.74	.42	2.30	2.08	1.38	4.13P	.07	9.98	3.46	3.98	3.04	3.10	M
1948	1.17	5.41P	2.40	M	2.04	4.23	.93	M	.44	.90	.76	3.28	M
1949	0.89P	4.43	2.16P	2.26P	10.30	3.83	.66	.46	1.36	7.01	.39	1.27	M
1950	4.08	9.40	1.59	4.86	6.21	3.97	3.66	9.77	3.22	.68	.78	.09	42.84
1951	2.58	2.21	1.01	1.96	3.79	9.19	1.00	1.10	1.83	3.14	.07	.13	28.11
1952	.89	2.26	2.58	6.00	6.47	.02	.77	.09	.35	.13	9.83	3.13	36.83
1953	.80	1.39	2.72	4.48	4.15	.80	2.07	1.84	1.27	3.07	2.23	1.83	27.36
1954	1.56	.72	.00	4.84	3.87	1.67	.28	1.71	3.36	3.06	1.83	.85	24.17
1955	1.48	2.09	1.27	1.78	7.71	9.15	2.70	2.83	2.22	.16	.27	M	M
1956	1.61	2.48	.20	2.03	3.03	1.88	.34	.39	T	1.23	3.96	2.35	21.84
1957	1.73	1.74	4.82	13.88	12.48	1.88	.85	.16	5.85	4.41	4.85	1.77	53.09
1958	2.16	.93	3.86	9.80	1.83	1.00	6.97	2.80	3.82	2.18	2.59	1.29	39.01
1959	.13	2.40	2.12	1.82	4.48	4.79	2.39	.90	2.08	6.83	1.44	3.45	34.96
1960	2.42	1.93	.66	2.01	1.98	2.16	2.25	3.00	3.84	2.78	.89	5.44	28.71
1961	3.18	2.90	3.78	2.02	1.98	6.88	1.00	.33	2.16	4.28	3.13	2.16	32.90
1962	.86	1.98	1.91	5.40	1.72	3.26	3.80	2.86	5.17	2.01	2.71	1.59	34.84
1963	.69	.78	.31	7.27	2.32	8.27	2.14	.13	.47	.04	1.27	1.03	18.93
1964	3.01	1.13	3.29	4.06	2.05	.15	.89	2.00	9.35	.16	6.81	.98	28.16
1965	1.96	4.98	1.58	1.76	9.24	2.22	.89	2.33	3.12	1.01	2.28	1.82	34.79
1966	1.39	3.87	2.22	9.87	.99	3.77	1.73	3.44	3.49	1.97	.98	.83	33.68
1967	2.61	.78	3.86	2.12	1.76	8.24	2.18	.02	6.87	3.46	1.16	1.84	34.90
1968	2.88	1.39	4.22	1.58	4.21	5.16	2.24	5.83	2.86	1.63	6.82	.42	33.90
1969	1.90	1.40	3.21	2.28	8.59	.39	.06	1.94	2.64	5.93	1.08	2.62	31.91
1970	.69	4.78	3.11	3.19	1.72	.08	.87	3.91	4.67	3.90	.31	.90	28.86
1971	.36	1.62	.32	2.37	3.24	.43	4.82	4.29	1.08	5.32	.08	6.48	34.67
1972	.81	.26	.14	3.53	2.23	2.12	1.15	1.67	2.39	4.98	2.36	.48	22.10
1973	3.79	1.96	2.83	3.80	1.92	7.92	6.03	.27	6.91	7.01	2.08	.50	44.93
1974	2.24	1.07	.84	3.05	7.83	3.86	1.06	4.43	6.37	6.02	2.88P	1.96	M
1975	2.18	3.41	2.73	3.33	8.21P	1.28	6.84	.29	1.29	.02	.76	1.84	M
1976	.33	.87	2.68	6.84	5.61	1.90	M	.04	3.12	6.17	.36	2.03	M
1977	1.79	2.27	7.89	4.00	.62	.36	2.13	7.04	1.48	3.57	2.06	.20	35.97
MEAN	1.67	2.06	2.29	4.40	4.37	2.86	2.11	2.45	3.11	3.19	2.37	1.91	32.77

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									127	90	29	0	M
45-46	0	0	15	87	193	653	893	838	M	23	M	1	M
46-47	M	0	M	29	268	867	886	895	440	95	11	0	M
47-48	0	0	0	6	381	813	809	M	M	M	4	0	M
48-49	0	0	1	84	501	848	M	671	M	M	0	0	M
49-50	0	0	8	108	191	655	909	836	512	128	2	0	2057
50-51	0	0	0	9	339	878	893	652	281	104	4	0	2269
51-52	0	0	0	69	379	848	840	802	802	108	6	0	1947
52-53	0	0	0	124	353	852	409	898	135	125	42	0	2116
53-54	0	0	0	91	308	888	880	839	929	24	53	0	2168
54-55	0	0	0	67	268	849	868	841	878	52	0	0	2121
55-56	0	0	0	44	362	M	600	826	269	84	0	0	M
56-57	0	0	0	13	327	813	837	289	367	123	18	0	2177
57-58	0	0	0	124	372	858	876	861	456	102	6	0	2555
58-59	0	0	0	74	230	682	671	844	258	142	2	0	2693
59-60	0	0	0	84	461	693	820	821	467	38	26	0	2750
60-61	0	0	0	39	336	653	904	886	185	106	7	3	2299
61-62	0	0	0	37	363	860	739	282	332	104	2	0	2419
62-63	0	0	0	40	258	510	812	486	164	33	10	0	2311
63-64	0	0	0	4	314	760	804	848	232	44	0	0	2403
64-65	0	0	4	46	227	540	829	521	921	30	0	0	2418
65-66	0	0	3	40	86	572	723	494	208	67	25	0	2018
66-67	0	0	0	99	269	810	676	664	129	10	14	0	1932
67-68	0	0	11	93	269	784	897	897	329	73	3	0	2476
68-69	0	0	0	93	365	822	831	693	925	42	9	2	3512
69-70	0	0	0	139	360	660	737	677	410	48	17	0	2648
70-71	0	0	11	124	343	856	826	676	532	99	13	0	2313
71-72	0	0	13	9	273	652	648	645	118	32	3	0	1980
72-73	0	0	16	108	467	696	739	517	172	191	20	0	2958
73-74	0	0	3	33	180	669	606	803	148	52	0	0	1794
74-75	0	0	21	19	M	562	681	688	368	114	M	0	M
75-76	0	0	4	46	260	682	891	858	710	30	16	0	1890
76-77	M	0	0	209	490	869	834	867	194	27	0	0	M
77-78	0	0	0	29	192	669							
MEAN	0	0	3	61	293	713	813	681	384	75	11	0	2284

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945			47	66	269	466	824	889	681	89	86	0	M
1946	0	1	M	189	M	693	M	874	884	166	20	14	M
1947	4	0	6	139	282	812	914	891	628	266	7	0	2913
1948	0	M	M	M	283	871	886	878	606	104	24	7	M
1949	M	0	M	M	349	840	862	879	867	144	28	3	M
1950	18	3	32	81	289	683	841	893	832	233	43	5	2613
1951	0	4	33	107	289	687	893	802	662	217	27	19	3094
1952	29	4	28	43	268	802	868	917	863	103	90	0	3072
1953	1	2	36	92	289	889	831	893	662	198	4	0	2999
1954	0	14	55	229	209	886	820	798	939	249	4	0	3498
1955	4	2	78	216	385	660	866	804	694	186	70	M	M
1956	6	18	66	98	429	880	968	963	812	823	17	13	3674
1957	5	16	5	93	257	901	968	878	865	94	7	2	3716
1958	0	0	0	49	331	893	876	899	820	126	33	0	3847
1959	0	7	17	101	332	677	877	814	839	118	10	0	3692
1960	1	6	13	146	276	866	821	812	681	212	32	3	3744
1961	0	4	42	108	285	610	885	882	885	146	18	0	3583
1962	0	12	10	93	305	682	819	868	808	262	8	0	3907
1963	0	6	72	214	346	868	914	931	677	332	44	0	3804
1964	1	0	9	191	329	886	969	896	619	59	52	3	3996
1965	1	0	6	195	285	909	917	860	666	131	73	8	3001
1966	0	1	28	71	264	671	891	878	863	118	44	21	3690
1967	16	1	142	276	287	841	838	898	933	104	14	3	3892
1968	0	0	24	85	270	835	841	901	905	132	20	0	3604
1969	2	1	1	91	262	692	967	880	986	189	11	0	3802
1970	3	0	7	120	329	698	837	902	685	111	16	26	3960
1971	0	2	20	84	208	682	884	893	988	191	36	0	3490
1972	0	17	86	173	278	898	877	876	860	191	4	0	3855
1973	0	0	6	52	224	686	867	862	820	170	41	3	3382
1974	0	14	130	138	382	667	898	926	784	140	M	3	M
1975	3	0	14	117	M	697	892	813	838	174	47	16	M
1976	0	24	68	88	170	686	M	823	863	73	1	0	M
1977	0	6	12	93	274	867	928	879	876	196	24	10	3291
MEAN	3	6	37	118	298	812	883	862	809	162	28	9	3869

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

DALLAS, TEXAS

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93901	Dallas, Texas	32°44'N	96°58'W	495	KNBE	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	USN	1949	1957	32°44'N	96°58'W	469	Tonnelot	Var
2.	" " "	"	1957	1967	"	"	"	"	24
3.	" " "	"	1967	1969	"	"	"	"	24
4.	Removed November 1969								
1a.	Weather service office	"	1961	1967	"	"	474	Aneroid	24
1b.	" " "	"	1967		"	"	"	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop building 20	Unknown	Unknown	75'	1. Barograph (ML-3) 2. Auto Met station (AN/GMQ-29) 3. Cloud height set (AN/GMQ-13) 4. Transmissometer (AN/GMQ-10C) 5. Ceiling light (ML-121)
2.	1961	1600 feet northwest of weather service office, adjacent to runway 17-35	AN/UMQ-5	RD-108	10'	
3.	1966	500 feet east of center line of runway 17-35 and 350 feet southwest of center line of taxiway #3	"	RD-108B	15'	
4.	1975	500 feet east of center line of runway 17 - 35	"	RD-447/GMQ 29	18'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Diego Garcia is located in the Indian Ocean just south of the equator. The main island is 37 miles long and about 1/2 mile in width. The maximum elevation is 10 feet above mean sea level.

The island's climate is characterized by plenty of sunshine, showery precipitation, light breezes and lush green foliage.

The surface winds show a pronounced seasonal change. January through March winds are generally from the west. April and May are transitional months when surface winds shift from the westerly direction to a southeasterly direction. June through September is a period of consistent southeasterly trade winds. From October into December the surface winds gradually shift to a westerly direction.

The temperatures also follow a seasonal pattern. Higher average temperatures occur during the period of the westerlies and the calms. Monthly maximum temperatures average 85 degrees annually with a monthly maximum of 87 degrees for March and April. The southeasterly trades bring lower average temperatures. Monthly minimum temperatures average 76 degrees annually with a monthly minimum of 75 degrees for August and September. The diurnal temperature change is minimal year around.

Rainfall is greatest during the months of January, February, October, and December and least during the period of the southeast trades. Monthly rainfall seldom exceeds 25 inches. Rainfall during any particular month may vary from 4 to 14 inches. Months with less than 1 inch of rain are uncommon. Approximately eighteen days with precipitation per month can be expected. Tropical cyclones sometimes form or pass to the south of the island producing moderate rainfall and fresh westerly winds.

DIEGO GARCIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: DIEGO GARCIA
LOCATION : S 7 18 E72 24

PERIOD: JAN 51-DEC 77
ELEV : 9

STN LTRS: BJDG
WBAN # : 70701
WMO # : 61967

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON MEAN MAX	MON EXTREMES MAX	MIN	PRECIPITATION INCHES M O N T H MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	T H US NT DM ES R	V S B Y FOG < 7MI	MAX DEG > 95	> 90	MIN AND < 70	< 65
JAN	86	76	82	92	70	12.6	27.3	4.1	5.9	0	0	0	87	78	.88	75	250	W	7	40	7	22	8	0	0	1	0	0	3	1	0
FEB	86	77	82	93	70	10.3	20.1	2.8	6.1	0	0	0	87	77	.88	75	250	W	6	41	7	19	6	0	0	0	0	0	2	1	0
MAR	87	77	83	95	70	9.6	17.3	1.9	4.5	0	0	0	86	75	.85	74	250	W	6	32	6	18	5	0	0	0	0	#	3	1	0
APR	87	77	83	91	70	7.5	17.8	2.5	4.8	0	0	0	86	76	.88	75	250	S	5	33	6	18	5	0	0	1	0	0	3	1	0
MAY	86	77	82	91	70	6.7	29.9	1.0	14.8	0	0	0	84	72	.82	73	250	ESE	6	28	5	16	3	0	0	#	0	0	1	1	0
JUN	84	76	80	95	69	6.0	16.7	.8	5.1	0	0	0	83	74	.82	73	250	ESE	7	32	6	16	3	0	0	2	0	#	#	1	0
JUL	83	75	79	88	69	4.2	25.3	.9	7.8	0	0	0	85	78	.82	73	200	SE	10	29	7	18	3	0	0	1	0	0	0	2	0
AUG	83	75	79	88	66	7.0	26.9	.2	12.9	0	0	0	84	76	.79	72	200	SE	10	32	7	16	3	0	0	1	0	0	0	2	#
SEP	83	75	80	89	70	9.2	24.5	.5	6.6	0	0	0	85	78	.82	73	200	SE	9	32	7	17	5	0	0	0	0	0	0	2	0
OCT	84	76	80	90	66	10.6	26.4	1.6	7.5	0	0	0	87	78	.85	74	200	S	9	31	7	19	6	0	0	#	0	0	#	2	#
NOV	86	76	81	90	70	8.8	21.8	1.0	6.0	0	0	0	87	78	.88	75	250	SSE	7	35	7	18	6	0	0	1	0	0	#	1	0
DEC	86	76	82	91	65	10.1	28.7	3.3	5.0	0	0	0	86	76	.85	74	250	W	6	35	6	19	6	0	0	#	0	0	2	2	0
ANN	85	76	81	95	65	103.6	29.9	.2	14.8	0	0	0	86	76	.85	74	250	SE	7	41	7	216	59	0	0	7	0	#	16	17	#
EYR	27	27	27	27	27	27	27	27	27	6	6	6	6	6	6	6	6	6	6	6	6	27	27	6	6	4	4	27	27	27	27

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY>0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA	% HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	02	24	18	18	15	12	18	27	20	29	30	24	24	22	6
LESS 5000	05	24	18	19	21	11	16	22	19	22	26	26	25	21	6
FT AND/OR	08	16	12	19	16	11	16	22	18	25	24	27	20	19	6
VISIBILITY	11	20	14	16	20	15	22	25	17	25	31	29	22	22	6
LESS 3 MI	14	27	19	29	24	20	21	30	26	33	34	26	24	26	6
	17	22	11	22	14	15	18	21	28	28	31	28	18	22	6
	20	19	14	13	10	10	15	22	15	21	29	19	18	17	6
	23	19	17	13	16	13	12	19	17	25	25	20	14	18	6
	ALL HRS	21	15	19	17	13	17	23	20	26	29	25	21	21	6
CEILING	02	0	1	1	0	1	1	1	0	2	1	1	1	1	6
LESS 1000	05	1	1	1	1	0	1	1	1	1	1	1	1	1	6
FT AND/OR	08	1	1	1	0	1	3	0	1	0	1	1	1	1	6
VISIBILITY	11	2	1	2	1	1	1	1	1	1	1	1	1	1	6
LESS 3 MI	14	1	0	2	0	0	1	1	0	2	0	2	1	1	6
	17	0	1	1	1	0	1	1	0	1	1	2	1	1	6
	20	1	2	0	0	0	1	1	0	1	1	1	2	1	6
	23	1	2	1	1	0	1	0	0	2	1	1	1	1	6
	ALL HRS	1	1	1	0	0	1	1	0	1	1	1	1	1	6
CEILING	02	0	0	0	0	0	1	0	0	0	0	0	0	0	6
LESS 500	05	0	0	0	0	0	0	0	0	0	0	0	0	0	6
FT AND/OR	08	0	0	0	0	0	0	0	0	0	0	0	0	0	6
VISIBILITY	11	0	0	1	0	0	0	0	0	0	0	0	0	0	6
LESS 1 MI	14	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	17	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	6
CEILING	02	0	0	0	0	0	1	0	0	0	0	0	0	0	6
LESS 200	05	0	0	0	0	0	0	0	0	0	0	0	0	0	6
FT AND/OR	08	0	0	0	0	0	0	0	0	0	0	0	0	0	6
VISIBILITY	11	0	0	0	0	0	0	0	0	0	0	0	0	0	6
LESS 3/4 MI	14	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	17	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	6
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	6

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1951	80.6	80.9	83.7P	81.8	82.4	79.4	78.7	78.6	78.8	80.2	81.8	82.1	M
1952	82.8	82.5	84.0	84.0	81.7	79.6	78.4	77.6	78.8	78.9	79.9	81.7P	M
1953	81.9	82.4	83.5	83.4	82.3	80.5	79.1	79.1P	79.0	80.8	81.9	83.5	M
1954	82.1	82.4	84.3	83.3	82.0	80.6	79.4	78.3	78.3	79.6	80.4	80.9	80.9
1955	82.1	81.0	82.1	81.9	79.6	77.8	78.1	78.5	78.9	79.5	80.2	80.7	80.0
1956	80.8	81.0	81.4	82.0	80.1	78.3	77.8	77.4	78.7	78.7	80.5	81.3	79.8
1957	81.2	80.9	82.3	82.3	81.9	79.8	78.6	78.6	79.1	79.9P	81.5	82.4	M
1958	83.6	82.8	82.9	83.2	82.1	80.3	79.4	78.8	78.9	79.2	80.7	82.2	81.2
1959	82.8	82.7	82.4	83.2	82.5	79.9	79.1	79.0	80.0	80.7	81.8	82.3	81.4
1960	82.5	82.2	82.4	81.8	81.3	78.5	77.8	78.1	79.0	79.3	79.1	81.8	80.4
1961	82.3	81.0	82.2	81.5	80.1	78.7	78.9	79.3	80.0	81.7	83.3	82.6	81.1
1962	81.0	81.7	82.9	82.4	81.4	80.0	79.0	78.6	79.2	79.6	81.5	M	M
1963	80.7	82.8	81.6	83.1	81.5	80.3	79.5	79.7	80.1	81.2	82.0	81.0	81.1
1964	81.9	81.7	82.6	83.1	82.1	79.1	78.9	78.5	78.8	79.0	79.6	79.4	80.4
1965	80.1	78.9	81.0	81.8	81.2	79.9	78.9	77.9	78.4	79.3	80.4	81.1	80.0
1966	81.7	81.3	81.9	81.5	81.7	80.8	79.9	79.3	79.7	80.5	81.0	80.4	80.8
1967	80.5	81.2	80.9	82.4	81.5	80.7	79.6	79.3	79.2	81.2	81.3P	80.3	M
1968	80.4	81.3	81.9	81.9	80.8	80.0	78.8	78.8	79.2	79.0P	80.7	80.3	M
1969	80.8	81.2	82.1	82.8	81.9	79.7	80.1	80.1	80.1	80.4	80.5	81.3	80.9
1970	81.1	82.5	82.5	82.6	81.9	80.5	79.5	78.8	79.1	79.2	80.4	80.8	80.8
1971	79.9	80.5	81.1	81.1	80.9	79.7	78.9	78.4	78.5	79.2	78.9	79.6	79.7
1972	81.0	81.0	81.0	82.1	81.2	79.8	78.9	79.6	79.6	80.9	82.3	82.4	80.9
1973	81.8	82.9	82.5	83.6	82.1	80.1	78.6	79.6	79.4	79.8	79.9	79.8	80.8
1974	80.0	79.2	80.2	80.1	79.8	79.5	79.6	77.9	79.7	82.5	80.0	78.9	79.8
1975	80.5	80.9	81.3	80.3	79.9	78.8	77.6	79.2	80.7	78.5	80.0	80.3	79.8
1976	80.1	81.1	M	81.9	83.0	81.5	80.0	79.2	80.6	80.4	81.2	81.5	M
1977	80.5	81.7	82.9	82.6	82.5	81.4	79.0	79.4	M	79.9	80.7	81.6	M
MEAN	81.3	81.5	82.1	82.3	81.4	79.9	79.0	78.8	79.3	80.0	80.8	81.1	80.6

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1951	15.57P	6.18	10.36P	17.70	3.57	2.97	3.74	2.61	6.65	6.99	12.13	13.09	M
1952	9.88	9.71	8.85	9.08	3.87	10.68	23.33	4.97	4.00	3.54	16.17	3.57P	M
1953	13.57	8.60	4.95	5.83	4.93	7.41	11.44	2.11P	21.86	12.88	7.66	10.16	M
1954	17.15	8.88	1.85	6.46	7.21	9.92	2.70	6.38	6.02	13.21	5.38	6.45	84.58
1955	8.95	4.27	9.64	7.92	9.41	2.51	6.63	23.24	8.82	9.69	7.19	8.95	107.02
1956	11.69	13.87	9.58	6.16	2.34	6.12	1.74	.60	.90	16.00	3.19	3.27	79.06
1957	24.81	12.17	7.29	7.12	6.14	10.84	18.37	7.85	3.48	9.92P	4.20	8.57	M
1958	4.24	9.90	7.85	11.60	4.66	9.79	6.63	4.99	12.77	5.04	10.24	8.93	92.07
1959	15.10	7.89	16.73	6.92	5.75	7.46	3.05	3.72	3.67	12.10	5.15	17.95	102.93
1960	5.82	10.31	12.79	7.11	8.07	6.77	.85	2.60	3.36	15.64	13.75	5.24	96.33
1961	6.15	12.12	16.96	3.34	4.96	4.37	3.11	6.27	13.51	8.39	1.01	6.99	85.18
1962	18.99	13.43	9.96	7.98	3.72	11.62	1.89	4.20	11.73	16.19	7.67	M	M
1963	11.99	9.13	11.24	5.43	29.85	8.27	11.23	17.35	17.47	10.94	6.15	10.71	149.76
1964	10.06	20.05	6.33	10.00	7.76	6.85	3.07	9.20	9.74	9.56	9.67	5.52	107.01
1965	9.46	18.68	6.19	4.20	15.84	2.98	4.53	2.60	6.69	26.38	10.55	10.15	119.26
1966	12.31	18.50	7.53	10.63	7.11	1.90	6.81	26.94	6.71	8.58	9.76	16.14	130.80
1967	12.21	18.60	6.69	6.48	5.88	9.07	16.95	17.64	24.67	13.29	6.76P	28.88	M
1968	19.38	6.83	17.25	9.36	5.80	.81	1.77	.85	8.55	18.87P	7.25	9.09	M
1969	13.53	6.99	6.93	2.50	8.17	9.44	1.88	14.99	9.85	12.23	10.66	14.53	99.02
1970	15.64	9.29	6.37	9.26	9.24	8.69	6.94	1.69	13.79	14.85	10.82	19.40	105.12
1971	16.21	10.28	9.70	7.67	2.35	9.11	2.67	.91	8.85	9.57	21.82	4.00	92.14
1972	10.80	17.14	10.57	6.98	3.45	7.68	4.09	8.46	10.26	9.34	9.34	9.44	100.19
1973	13.05	8.58	15.67	5.59	1.00	1.06	2.39	.15	13.98	4.54	2.61	4.89	73.42
1974	4.09	4.51	6.92	17.75	2.88	3.26	5.14	1.10	1.52	1.64	3.57	12.55	64.89
1975	7.28	7.77	6.61	9.32	5.01	2.53	9.84	3.83	10.16	3.35	10.74	5.74	71.18
1976	6.42	6.94	M	5.46	2.38P	11.07	2.72	17.00	6.71	12.62	11.22	6.24	M
1977	27.37	7.18	5.10	12.13	6.11	4.98	6.16	2.86	M	12.97	9.96	15.06	M
MEAN	12.99	10.32	8.61	7.46	6.69	5.96	6.23	7.02	9.19	10.64	8.77	10.10	103.98

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
50-51							0	0		0	0	0	M
51-52	0	0	0	0	0	0	0	0	0	U	0	0	0
52-53	0	0	0	0	0	M	0	0	0	U	0	0	M
53-54	0	M	0	0	0	0	0	0	0	U	0	0	M
54-55	0	0	0	0	0	0	0	0	0	U	0	0	0
55-56	0	0	0	0	0	0	0	0	0	U	0	0	0
56-57	0	0	0	0	0	0	0	0	0	U	0	0	0
57-58	0	0	0	M	0	0	0	0	0	U	0	0	M
58-59	0	0	0	0	0	0	0	0	0	U	0	0	0
59-60	0	0	0	0	0	0	0	0	0	U	0	0	0
60-61	0	0	0	0	0	0	0	0	0	U	0	0	0
61-62	0	0	0	0	0	0	0	0	0	U	0	0	0
62-63	0	0	0	0	0	M	0	0	0	U	0	0	M
63-64	0	0	0	0	0	0	0	0	0	U	0	0	0
64-65	0	0	0	0	0	0	0	0	0	U	0	0	0
65-66	0	0	0	0	0	0	0	0	0	U	0	0	0
66-67	0	0	0	0	0	0	0	0	0	U	0	0	0
67-68	0	0	0	M	0	0	0	0	0	U	0	0	M
68-69	0	0	0	M	0	0	0	0	0	U	0	0	M
69-70	0	0	0	0	0	0	0	0	0	U	0	0	0
70-71	0	0	0	0	0	0	0	0	0	U	0	0	0
71-72	0	0	0	0	0	0	0	0	0	U	0	0	0
72-73	0	0	0	0	0	0	0	0	0	U	0	0	0
73-74	0	0	0	0	0	0	0	0	0	U	0	0	0
74-75	0	0	0	0	0	0	0	0	0	U	0	0	0
75-76	0	0	0	0	0	0	0	0	M	U	0	0	M
76-77	0	0	0	0	0	0	0	0	0	U	0	0	0
77-78	0	0	M	0	0	0							
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1951	498	457	M	518	555	442	433	426	422	487	516	544	M
1952	564	520	601	582	538	449	420	395	424	440	482	M	M
1953	537	499	589	566	557	477	446	M	427	502	521	587	M
1954	545	502	611	581	542	484	457	420	409	448	475	507	5957
1955	544	481	544	521	465	392	419	431	431	482	471	502	5640
1956	505	477	523	525	480	406	402	396	425	434	479	520	5376
1957	515	497	551	536	539	455	430	434	434	M	509	554	M
1958	589	512	570	581	546	476	461	440	421	457	484	548	6068
1959	565	508	552	561	557	490	448	443	443	504	518	571	6131
1960	558	514	555	520	519	448	405	415	433	457	482	535	5791
1961	530	482	566	507	481	455	476	493	461	533	565	581	6050
1962	508	480	586	536	529	461	446	453	428	469	507	M	M
1963	530	497	534	556	521	472	462	471	468	519	523	507	6090
1964	538	497	561	558	545	453	443	431	419	467	467	497	5778
1965	482	426	510	519	517	460	442	409	420	455	476	513	5629
1966	532	469	539	509	532	487	473	457	434	491	494	498	5931
1967	495	448	505	537	524	484	466	455	436	520	M	487	M
1968	490	484	526	518	501	481	460	443	427	M	485	487	M
1969	503	487	569	547	538	453	481	480	466	480	478	519	5955
1970	514	501	537	540	539	477	484	441	457	490	473	505	5898
1971	475	447	512	497	509	452	444	426	414	453	427	493	5518
1972	502	473	505	519	511	492	460	481	443	500	527	546	5879
1973	530	505	531	561	536	460	427	455	438	469	434	486	5830
1974	472	406	477	458	466	460	480	406	445	547	459	496	5472
1975	487	452	512	493	456	419	398	449	477	425	456	479	5477
1976	476	475	M	512	565	503	475	450	471	480	493	516	M
1977	489	472	530	536	550	497	442	454	M	469	477	522	M
MEAN	517	477	542	531	522	458	444	437	439	479	485	512	5840

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

DIEGO GARCIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
70701	Diego Garcia	7°18'S	72°24'E	9	FJDG	61967

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF HARQ LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
	Island of Mauritius Met. Office	G.B.	1951	1971	7°14'S	72°26'E	7	Unknown	UNK
1.	Met Van	Navy	1971	Aug 1973	7°42'S	72°24'E	6	Aneroid	*
2.	Air Operations Bldg	"	1973		7°18'S	72°24'E	5	"	24

* Limited observing program from July 1971 through May 1974 (8 obs/day).
The observing program became fully operational June 1974 (24 obs/day).

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1971	Top of Met Van	UMQ-5	RD-108	17'	1. Barograph (ML-3) 2. Elec. Psychrometer (ML-450A) 3. Radiosonde (AN/GMD-1B) 4. APT (SMQ-6) 5. Semi-auto Met Station(AN/GMQ-14) 6. Ceiling light (ML-121) 7. Theodolite (Shore Type) 8. Thermoscreen (ML-41) 9. Rawinsonde Set (GMD 1B)
2.	1973	Met. Pad (433' SW of Air Ops Bldg)	"	RD-108B	11'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Air Station El Toro (Santa Ana) is located in the southern section of an area known as the "Los Angeles Basin". The air station is screened on 3 sides by mountain barriers. Land in the immediate vicinity of the station is cleared and cultivated and under extensive urbanization.

The region in which the air station is located enjoys one of the most equable climates in North America. The summer begins in April and lasts through October. Increased stability in the lower levels favors the occurrence of restrictions to visibility in the form of haze, fog, and stratus. The prevailing wind direction is west at 5 knots.

The dry easterly winds (Santa Ana) that sometimes blow for several days at a time, bring temperatures in the 90's, and at times over 100 degrees F. Since September 1949, this station has recorded a total of 25 days during which the temperature has reached or exceeded 100 degrees F. while under the influence of the "Santa Ana" winds.

The "Santa Ana" wind that is experienced at this station may occur in almost any month of the year; however, it is predominately a winter phenomenon.

Precipitation at this station is primarily a winter time phenomenon. The rainy season runs from November through May. The average rainfall is approximately 12 inches and the major portion of it usually falls during winter storms. Snow has been observed at this station upon rare occasions and the accumulation has been negligible.

EL TORO, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: EL TORO, CALIFORNIA
LOCATION : N33 40 W117 44

PERIOD: APR 45-DEC 77
ELEV : 383

STN LTRS: KNZJ
WBAN # : 93101
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL			RELATIVE HUM		VAPR PRESS	DEW PT	PRESS ALT	SFC WINDS		MEAN AMT CLD	PRECIP INCHES		SNOWFALL		THUNDER	VSBY			
	DAILY MEAN		EXTREMES			M O N T H			MAX 24 HRS	MN	MAX 24 HR	MAX	LST	IN OF HG	DEG F	FEET 99.95%	PVLG DRCTN	SPEED MN	MAX	TENTH	.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	DAYS	MAX FOG 7MI	MAX > 90	MAX > 75	MIN < 65	MIN AND < 32
	MAX	MIN	MAX	MIN	MEAN	MAX	MIN					04	13												R				
JAN	64	44	93	25	2.3	8.9	.0	5.2	#	1	1	69	80	.24	39	750	E	5	59	5	5	1	#	0	#	11	#	4	18	1
FEB	66	45	94	30	2.0	11.7	#	3.0	#	#	#	73	82	.26	41	600	E	5	65	5	5	1	0	0	#	10	#	4	15	#
MAR	67	46	88	32	1.9	7.8	#	2.5	0	0	0	79	83	.29	44	650	W	5	55	5	6	1	0	0	1	11	0	4	15	#
APR	70	49	90	101	33	1.1	5.4	#	2.2	0	0	0	81	82	.32	47	650	W	5	46	5	4	1	0	0	#	10	1	7	8	#
MAY	72	52	92	101	39	.2	1.2	#	.8	0	0	0	84	85	.37	51	550	W	5	70	6	3	#	0	0	#	13	1	9	2	0
JUN	76	56	97	107	44	.1	.3	#	.3	0	0	0	86	85	.44	55	600	W	5	33	5	1	0	0	0	#	16	1	18	#	0
JUL	82	60	71	108	48	#	.3	.0	.3	0	0	0	85	81	.50	59	550	W	5	47	4	#	0	0	0	#	19	2	30	0	0
AUG	83	61	72	103	47	.1	3.1	.0	2.6	0	0	0	85	81	.52	60	600	W	5	36	4	1	#	0	0	#	19	4	30	0	0
SEP	81	59	71	116	44	.2	2.2	.0	1.3	0	0	0	82	80	.47	57	600	W	4	43	4	1	#	0	0	#	17	4	25	#	0
OCT	77	55	66	108	38	.2	1.5	#	.7	0	0	0	76	69	.37	51	650	W	4	45	4	2	#	0	0	1	14	3	17	1	0
NOV	71	50	61	97	35	1.4	6.7	.0	2.8	0	0	0	69	67	.28	43	600	E	5	63	4	4	1	0	0	#	12	1	10	7	0
DEC	66	46	56	93	28	1.8	5.3	#	2.4	#	#	#	67	69	.24	39	650	E	5	60	4	5	1	0	0	#	11	#	4	16	#
ANN	73	52	63	116	25	11.3	11.7	.0	5.2	#	1	1	78	81	.35	49	700	W	5	70	5	37	6	#	0	2	103	17	102	82	1
EYR	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	31	33	33	33	33	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY>0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	29	33	39	45	60	65	51	47	44	41	30	27	43	32
LESS 5000	04	31	35	38	50	67	76	64	60	54	44	32	29	49	32
FT AND/OR	07	39	41	47	56	72	76	61	62	59	51	45	38	54	33
VISIBILITY	10	39	40	48	46	51	38	8	12	26	32	36	35	34	33
LESS 5 MI	13	33	37	39	36	36	24	4	5	14	21	26	30	25	33
	16	28	30	34	30	28	20	3	5	11	17	23	26	21	33
	19	28	27	33	35	37	28	6	9	20	24	21	21	24	33
	22	30	30	37	39	51	52	29	28	35	33	26	25	35	32
	ALL HRS	32	34	39	42	50	47	28	28	33	33	30	29	36	33
CEILING	01	14	17	17	18	22	28	29	25	23	21	17	14	21	32
LESS 1000	04	15	18	17	20	25	37	42	35	29	23	17	15	25	32
FT AND/OR	07	23	22	22	23	26	30	32	32	31	28	27	22	27	33
VISIBILITY	10	23	20	19	12	10	6	2	3	6	12	20	22	13	33
LESS 3 MI	13	16	17	14	10	10	6	3	3	4	7	13	16	10	33
	16	14	14	13	9	8	6	2	3	2	6	12	13	9	33
	19	14	12	13	12	9	5	3	4	5	9	9	11	9	33
	22	16	15	15	15	16	18	13	11	17	16	12	13	15	32
	ALL HRS	17	17	16	15	16	17	16	14	15	15	16	16	16	33
CEILING	01	12	13	12	11	11	8	7	8	11	13	13	11	11	32
LESS 500	04	13	14	12	12	13	15	14	15	15	15	14	13	14	32
FT AND/OR	07	20	18	17	15	13	10	9	13	18	20	23	18	16	33
VISIBILITY	10	20	17	15	9	8	4	2	2	4	7	17	19	10	33
LESS 1 MI	13	14	14	13	10	10	6	3	3	3	7	12	13	9	33
	16	12	12	13	9	8	6	2	3	2	6	10	11	8	33
	19	11	10	11	9	7	4	2	3	2	6	8	9	7	33
	22	12	11	11	8	6	4	2	2	6	9	9	10	8	32
	ALL HRS	14	13	13	10	9	7	5	6	8	11	13	13	10	33
CEILING	01	10	11	10	7	7	4	2	3	7	9	11	9	8	32
LESS 200	04	10	11	10	8	7	6	6	7	9	11	12	12	9	32
FT AND/OR	07	18	16	14	11	7	3	2	5	10	16	20	17	11	33
VISIBILITY	10	19	14	14	9	8	4	2	2	4	7	15	17	9	33
LESS 1/2 MI	13	14	13	13	10	10	6	3	3	3	7	11	13	9	33
	16	11	11	13	9	8	6	2	3	2	6	10	11	8	33
	19	9	9	10	8	7	4	2	3	2	6	6	8	6	33
	22	11	9	9	6	5	3	2	1	4	6	8	9	6	32
	ALL HRS	13	12	12	8	7	5	3	3	5	8	12	12	8	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	53.3	57.1	60.5	64.1	69.9	72.1	72.3	66.7	59.3	55.2	M
1946	54.8	54.4	54.4	59.6	60.1	66.8	70.3	71.3	71.1	62.3	56.1	53.7	61.1
1947	52.1	53.1	57.4P	60.7	63.1	66.1	70.4	70.4	71.8P	64.2	58.5	54.2	M
1948	54.8P	54.3	52.3	58.4	60.7	66.2	67.5	67.6	68.6	63.3	58.8	50.4	M
1949	49.3	49.4	52.0	59.6	61.9	67.5	69.4	70.1P	70.1	63.5P	56.3	52.5	M
1950	48.5	52.7P	55.7	59.8	59.9P	63.7	71.1	68.9P	67.6	66.7	60.9	58.4	M
1951	53.0	52.7	56.2	58.1	61.1	65.5	71.3	69.1	69.0	66.8	59.6	52.3	61.2
1952	50.4	54.1	52.5	57.5	64.1	62.8	68.8	71.2	71.2P	66.8	57.5	53.7	M
1953	54.1	52.8	55.7	56.0	60.4	63.6	72.2P	68.2	67.6	66.3	60.8	56.4	M
1954	52.6	54.8	54.9	58.1	61.9	66.8	74.0	70.1	69.1	63.0	61.6	55.3	61.9
1955	51.9P	53.1	58.7	58.1	60.8	65.0	68.6	72.6	72.7	62.6	58.7P	54.6	M
1956	54.3	51.9	57.9	57.2	62.5	67.2	69.1	70.0	73.4	64.1	66.1	60.7	63.0
1957	53.3	54.4	58.1	58.3P	61.9	66.9	72.3	73.1	69.5	64.0	58.8	60.0	M
1958	59.1	58.1	55.4	62.3	64.7	67.0	69.9	72.6	72.7	71.0	61.6	60.9	64.7
1959	58.0	55.1	62.0	62.6	69.1	74.5	78.1	78.1	76.8	67.4	65.9	59.0	65.1
1960	53.0	55.0	59.2	62.2	66.9	67.3	72.2	70.6	72.8	65.4	58.9	57.4	63.5
1961	51.9	49.6	57.8	61.2	61.9	67.5	72.4	72.3	67.6	64.6	56.1	51.0	62.9
1962	53.4	48.0	57.7	62.4	61.7	65.6	70.1	73.1	69.7	64.2	57.6	53.6	61.1
1963	52.0	49.8	53.7	55.2	64.6	65.0	68.8	72.7	71.4	67.8	60.6	58.4	62.7
1964	54.3	49.7	55.3	58.1	59.7	64.1	69.7	71.4	68.3	69.4	58.6	55.8	61.8
1965	54.1	53.7	57.7	60.1	60.7	61.7	67.7	72.0	66.7	70.8	59.2	52.8	61.9
1966	52.0	54.8	56.6	62.5	64.5	66.6	73.7	76.5	70.3	67.3	60.5	56.6	63.7
1967	54.7	49.0	57.9	53.2	63.9	63.9	73.0	75.8	71.5	66.9	61.9	53.0	63.0
1968	55.1	49.7	59.2	58.7	61.1	65.4	71.3	72.4	72.3	66.2	58.8	51.1	62.6
1969	55.5	52.4	55.3	66.0	64.4	64.2	71.1	74.2	70.4	66.1	64.8	57.6	63.5
1970	55.1	50.0	58.2	58.7	64.9	72.3	75.7	73.6	69.4	65.4	61.9	55.3	64.2
1971	57.3	58.3	59.0	61.0	63.4	69.0	74.0	76.6	73.6	66.4	59.6	53.2	64.2
1972	54.2	47.9	59.9	59.5	62.7	67.4	73.3	73.2	68.0	64.6	59.9	55.6	63.0
1973	51.8	53.6	55.1	59.7	62.0	68.6	69.6	69.9	66.7	65.6	56.2	54.7	61.2
1974	51.5	54.0	53.6	57.7	59.7	66.3	71.7	69.2	69.1	63.4	58.7	55.2	60.8
1975	55.0	52.5	53.6	56.4	61.2	64.7	71.1	70.0	72.6	66.9	61.3	56.2	61.4
1976	60.3	57.1	57.5P	57.1	66.4	70.0	71.9	71.4	71.3	69.6	66.5	60.0	M
1977	57.0	60.2	54.9	62.0	60.9	67.2	72.4	73.5	70.4	67.8	64.8	60.8	64.3
MEAN	54.3	53.0	56.0	59.2	62.2	66.3	71.1	72.0	70.4	66.0	60.4	55.7	62.4

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	3.63	.18	.01	.03	.02	.46	T	.48	.86	4.80	M
1946	.17	.80	3.85	.83	.10	T	T	T	.00	.70	8.08	3.62	14.94
1947	.41	.96	.80	.17	.29	.07	.00	.03	.12	.12	.06	1.62	4.86
1948	.01	1.70	1.90	1.78	.08	.17	T	T	T	.05	.00	2.15	7.78
1949	3.76	1.69	1.18	.06	.72	T	T	TP	T	.12	1.17	1.48	M
1950	2.30	1.78	.83	.38	.30	T	T	.07	T	.03	1.52	.04	7.46
1951	1.30	.76	.61	1.72	.04	T	T	.39	.29	.72	1.13	4.69	11.61
1952	8.14	.54	6.78	1.78	T	.04	T	T	.31	T	4.27	9.43	29.29
1953	.92	.41	1.00	.86	.08	T	TP	T	T	T	1.17	.30	M
1954	4.56	1.82	3.93	.10	.09	T	T	T	T	T	.88	.77	12.11
1955	4.45	2.90	.18	1.98	.79	.02	T	T	T	T	.88	.55	11.75
1956	8.89	.90	T	2.90	.40	T	T	T	T	.61	.00	.96	13.76
1957	4.98	1.99	1.11	1.70P	.84	.12	.09	T	.00	1.48	.90	3.85	M
1958	.75	6.01	7.76	5.40	.17	.08	.00	.06	.36	.09	.28	.02	21.19
1959	.99	5.76	T	.73	.09	T	T	.01	T	.04	.19	2.44	9.13
1960	2.40	2.78	.63	1.74	.09	T	.24	T	.01	.16	2.40	.12	10.67
1961	.84	.17	.97	.04	.01	.11	T	.08	.01	.24	1.25	1.63	5.15
1962	2.19	4.46	1.48	T	.77	.19	T	T	T	.04	.03	T	11.37
1963	.23	9.92	2.16	2.01	T	.08	T	.06	2.19	.63	3.81	T	19.87
1964	1.71	.08	1.63	.25	.09	.25	.00	T	.12	.18	1.11	1.48	6.91
1965	.63	.22	1.63	3.45	.01	.09	.12	.01	.43	T	6.70	4.97	17.86
1966	.81	1.03	.39	.04	.04	T	T	T	.03	.09	2.90	5.28	10.63
1967	2.53	T	1.92	2.43	.07	.03	T	T	.36	T	2.01	1.68	11.03
1968	.65	.19	1.93	.72	.16	T	.16	T	T	.22	.31	1.16	5.48
1969	7.37	11.70	1.17	.88	.17	.03	.13	.00	.01	T	2.29	.20	23.95
1970	1.40	2.06	2.76	.01	.01	.03	T	.00	T	.13	3.08	2.90	12.36
1971	.74	.35	.30	.34	.50	.07	T	.00	.01	.29	.14	3.44	6.28
1972	T	.06	T	.08	.11	.28	T	.08	.03	.05	1.92	1.31	3.92
1973	2.98	9.09	3.17	.04	.08	.05	T	T	.13	.16	.71	.20	12.99
1974	3.95	.21	2.62	.44	.16	T	T	T	T	.39	.02	2.98	10.77
1975	.18	1.32	3.78	2.20	.16	.03	T	.01	T	.11	.61	.32	8.72
1976	.00	4.00	1.60P	1.31	.09	.32	T	T	1.73	.09	.59	.40	M
1977	1.97	.96	.78	T	1.22	.02	T	3.05	T	T	.07	2.86	10.81
MEAN	2.25	2.03	1.90	1.09	.23	.06	.03	.14	.19	.22	1.44	1.82	11.40

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									361	231	133	44	M
45-46	0	0	3	26	180	299	312	361	316	162	153	2	1824
46-47	0	0	0	106	260	344	387	253	M	158	83	10	M
47-48	0	0	M	43	248	330	M	287	186	208	130	46	M
48-49	0	2	19	74	181	448	493	429	495	161	113	5	2428
49-50	0	M	3	M	94	380	504	M	280	156	M	48	M
50-51	0	M	13	33	168	198	372	341	274	200	123	25	M
51-52	0	2	2	31	162	386	446	310	383	217	52	71	2060
52-53	0	0	M	39	238	353	216	271	299	244	151	61	M
53-54	M	1	14	62	137	272	362	173	351	201	109	34	M
54-55	0	0	2	81	125	298	M	273	198	209	139	26	M
55-56	2	0	15	102	M	315	325	373	215	228	94	7	M
56-57	0	0	0	59	75	159	353	198	211	M	94	4	M
57-58	0	0	0	49	185	171	188	187	292	132	38	1	1243
58-59	0	0	0	3	114	155	214	268	111	62	71	0	998
59-60	0	0	0	10	40	208	367	285	187	117	59	4	1272
60-61	2	0	0	42	180	241	137	144	223	134	100	13	1218
61-62	0	1	20	96	277	430	367	451	376	113	123	34	2288
62-63	0	0	1	86	216	341	397	169	343	290	70	31	1924
63-64	0	0	0	8	134	207	329	237	901	227	164	46	1647
64-65	1	1	0	15	213	279	281	261	224	177	135	91	1678
65-66	1	0	17	17	173	345	397	296	197	96	91	8	1396
66-67	0	0	9	18	162	255	310	177	719	353	98	66	1663
67-68	0	0	7	13	109	366	302	192	183	204	136	30	1492
68-69	2	0	0	17	187	421	301	247	298	92	49	41	1695
69-70	0	0	0	35	65	233	301	138	207	185	69	0	1233
70-71	0	0	8	40	101	298	269	216	188	140	72	21	1353
71-72	0	0	4	100	172	359	335	202	184	160	106	8	1800
72-73	0	0	4	45	168	290	402	236	164	159	110	22	1798
73-74	0	0	19	58	262	314	411	303	185	215	146	24	2123
74-75	0	0	7	95	197	297	305	363	184	311	117	30	2056
75-76	0	0	0	58	166	276	184	225	M	233	98	13	M
76-77	0	0	0	4	70	157	252	149	312	95	125	6	1170
77-78	0	0	0	19	70	128							
MEAN	0	0	5	46	159	289	332	264	276	182	103	26	1682

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945			5	1	4	21	137	225	229	86	26	0	M
1946	0	0	2	9	7	64	175	201	189	28	0	0	675
1947	0	1	M	38	30	48	187	175	M	25	0	4	M
1948	M	2	0	19	3	29	85	90	134	29	2	0	M
1949	0	0	0	6	24	90	144	M	183	M	82	0	M
1950	0	M	1	8	M	18	198	M	96	94	51	2	M
1951	7	0	4	0	7	47	200	157	129	94	9	0	655
1952	0	0	2	0	23	11	124	198	M	40	17	6	M
1953	10	5	2	0	27	31	M	107	96	109	19	14	M
1954	4	33	0	2	0	36	284	195	132	23	28	6	713
1955	M	1	10	7	14	36	121	243	230	15	M	0	M
1956	0	0	3	0	57	85	139	180	257	39	114	33	895
1957	0	19	4	M	2	157	238	260	142	24	4	22	M
1958	12	1	0	59	38	83	159	265	241	213	17	33	1103
1959	0	0	25	27	2	128	302	256	180	92	78	23	1106
1960	0	0	14	42	63	80	233	181	238	75	4	13	963
1961	48	1	4	26	9	97	234	288	106	89	15	0	901
1962	14	0	0	43	26	60	165	257	147	48	1	0	761
1963	0	18	0	0	6	37	125	247	349	98	12	10	902
1964	0	3	8	26	7	25	159	206	105	155	28	0	718
1965	14	6	5	39	9	2	92	233	73	199	3	4	697
1966	0	0	4	30	12	123	239	304	168	95	33	0	1008
1967	0	15	4	0	72	41	255	340	200	139	16	0	1080
1968	4	4	10	22	23	47	206	234	224	57	7	0	838
1969	13	0	6	69	38	24	193	291	169	75	67	8	953
1970	0	5	0	3	74	225	325	274	145	58	14	2	1125
1971	39	25	6	30	30	148	287	303	267	147	15	0	1397
1972	7	2	3	1	45	85	282	260	100	40	4	7	816
1973	0	0	0	3	21	138	149	161	71	79	5	1	630
1974	0	1	0	2	10	67	196	138	139	49	16	2	618
1975	5	0	0	0	6	29	194	181	235	62	43	6	761
1976	47	2	M	4	28	171	223	202	198	152	119	9	M
1977	10	22	0	13	4	82	234	266	168	111	88	7	980
MEAN	8	5	4	17	23	72	197	224	172	83	29	6	840

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

EL TORO, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93101	El Toro, California	33°40'N	117°44'W	383	KNZJ	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Aerological office (southwest side of field)	MCAS		1955	33°40'N	117°44'W	355	Mercurial	24
2.	Aerological office (northeast side of field in tower building)	"	1955	1958	"	"	380	"	24
3.	Room 102, building 372	"	1958		"	"	380 Above Grd 21	"	24
1a.	Mounted on wall in Room 102	"	Unknown	1965	"	"	383	Aneroid	24
1b.	Mounted in AN/GMQ-14 console in room 102, building 372	"	1965		"	"	382 Above Grd 23	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop control tower	Selsyn	Double register	59'	1. Aneroid barometer (ML-448/UM) 2. Barograph (Aero 1932) 3. Semi-auto Met sta AN/GMQ-14(A) 4. Ceiling light (ML-121) 5. Cloud height set AN/GMQ-13 6. Theodolite (ML-247) 7. Transmissometer AN/GMQ-10 8. Weather vision AN/GMQ-19(V) 9. Gage, Precipitation(ML-558/GMQ-14) 10. Gage, Precipitation (ML-217)
2.	1958	Northeast of the intersection of runways 34 and 25	AN/UMQ-5	RD-108B		
3.	1965	Same location, change in height			9'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Air Station Fallon, Nevada is located 50 miles east of Reno. The terrain is largely sagebrush and desert. Numerous dry lakes dot the area. The mountains that surround Fallon act as a barrier to the influx of warm moist air from the Pacific Ocean. The Sierra range modifies approaching frontal systems so that they pass over Fallon with the moisture content and temperature markedly reduced.

November marks the beginning of the winter season which lasts until March. Cloudiness and cool temperatures predominate. Cold fronts often provide little more than gusty winds and scattered to broken clouds. Zonal flow during the winter months produces fast moving low pressure systems with abundant moisture, resulting in severe turbulence and icing over the Sierra Nevada's.

Precipitation averages .5 inches during the winter months usually as light showers. Snowfall exceeding 2 inches seldom occurs. Comparatively warm maximum temperatures melt the snow in a day or two. Fog is an occasional problem in restricting visibilities, but rarely persists beyond the morning hours. December and January are the months of greatest fog frequency, occurring on an average of 4 days.

Winter storm tracks are generally located to the north of Fallon and spring-like weather prevails. Occasionally a storm brings deteriorating conditions with freakish snowfalls and freezing temperatures.

May marks the beginning of summer which lasts until September. During the summer, hot dry weather dominates. Thunderstorms typically develop late in the afternoon in the foothills to the south. Strong gusty winds associated with these thunderstorms occasionally obscure visibilities with blowing dust. For the most part, these storms are confined to the surrounding foothills and rarely pass directly over the station. Dustdevils are quite frequent during the day over the alkali and sand flats. Only in July and August is the temperature consistently in the 90-degree range. Low humidity prevails through the summer which reduces the effects of high temperatures. Afternoon thunderstorms are primarily responsible for a summer average rainfall of .4 inches.

FALLON, NEVADA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: FALLON, NEVADA
LOCATION : N39 25 W118 42

PERIOD: MAR 45-DEC 77
ELEV : 3934

STN LTRS: KNFL
WBAN # : 93102
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 19	VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SPC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL INCHES .1 OR GTR	SNOWFALL INCHES 1.5 OR GTR	T HUNDRS DAYS	V SBY FOG < 7MI	MAX DEG > 90	F > 75	MIN AND < 32	MIN AND < 00
JAN	45	20	33	72	-11	.9	1.7	#	.5	2	9	5	77	52	.11	21	4500	S	4	53	6	4	#	1	#	#	5	0	0	28	1
FEB	51	26	39	73	5	.9	2.4	#	.8	2	10	4	75	44	.13	24	4450	S	5	52	6	4	#	2	#	#	2	0	0	22	0
MAR	57	29	43	82	3	.4	1.0	#	.5	2	21	18	64	34	.13	24	4500	S	6	50	5	4	0	2	#	#	#	0	1	20	0
APR	64	35	50	91	16	.4	1.1	#	1.0	1	8	3	58	28	.15	27	4400	N	6	52	5	4	#	1	#	1	#	#	8	11	0
MAY	74	44	60	95	23	.6	1.7	#	.9	#	7	6	57	27	.20	34	4300	W	6	47	5	4	#	#	#	2	#	1	16	2	0
JUN	84	53	68	104	33	.7	2.1	.0	1.3	0	0	0	52	24	.23	38	4250	W	5	47	3	4	#	0	0	2	#	10	24	#	0
JUL	93	58	76	105	38	.3	1.2	.0	.5	0	0	0	46	20	.27	42	4100	WNW	5	62	2	2	0	0	0	3	#	23	31	0	0
AUG	90	56	74	104	32	.3	1.8	.0	1.8	0	0	0	47	20	.26	41	4100	WNW	4	48	2	2	#	0	0	3	#	20	30	#	0
SEP	81	48	65	103	24	.3	1.9	.0	1.2	0	0	0	54	23	.22	37	4200	N	4	46	2	2	#	0	0	1	#	6	23	1	0
OCT	69	37	53	91	11	.4	2.3	.0	.8	#	2	2	62	30	.18	32	4250	N	4	46	3	2	#	#	#	1	#	#	10	8	0
NOV	55	28	42	80	5	.4	1.6	.0	.5	1	10	5	74	41	.15	27	4400	S	4	42	5	4	#	1	#	#	2	0	#	21	0
DEC	46	21	34	71	-14	.4	1.5	#	1.0	2	6	5	80	51	.12	23	4500	S	4	50	5	4	#	2	#	0	4	0	0	27	1
ANN	67	38	53	105	-14	5.2	2.4	.0	1.8	10	21	18	62	33	.17	31	4350	N	5	62	4	40	#	9	#	13	13	60	141	140	2
EYR	24	24	24	24	24	24	24	24	24	24	24	24	27	27	27	27	27	27	27	24	27	24	24	24	24	24	24	24	24	24	24

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA %	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	9	8	7	5	5	3	2	2	3	4	7	11	5	20
LESS 5000	04	12	10	9	10	13	16	14	9	4	3	7	12	10	22
FT AND/OR	07	29	27	24	23	19	17	17	14	14	23	29	31	22	30
VISIBILITY	10	26	24	24	25	20	20	17	15	14	21	27	27	22	30
LESS 5 MI	13	25	26	27	26	22	19	16	15	14	22	27	28	22	30
	16	24	24	26	24	22	19	17	16	14	21	28	29	22	30
	19	14	13	17	19	22	20	16	17	15	9	11	13	15	30
	22	11	9	8	6	8	6	5	4	4	6	7	10	7	28
	ALL HRS	20	18	19	18	17	15	13	12	11	15	19	21	17	27
CEILING	01	2	2	2	0	0	0	1	2	2	2	2	5	2	20
LESS 1000	04	3	3	3	5	9	13	14	9	3	2	2	6	6	22
FT AND/OR	07	22	19	17	16	14	15	16	14	13	21	23	23	18	30
VISIBILITY	10	17	16	16	16	13	15	16	14	13	18	20	21	16	30
LESS 3 MI	13	16	15	14	16	13	15	16	15	12	18	20	19	16	30
	16	16	16	15	14	14	15	15	15	12	18	21	21	16	30
	19	6	6	8	12	14	15	15	16	13	6	6	5	10	30
	22	4	2	2	1	2	2	4	3	3	3	3	4	3	28
	ALL HRS	12	10	10	11	10	12	13	12	9	12	13	14	12	27
CEILING	01	2	1	1	0	0	0	1	2	2	2	2	4	2	20
LESS 600	04	3	3	3	5	9	13	14	9	3	2	2	5	6	22
FT AND/OR	07	20	18	17	16	13	15	16	14	13	21	22	20	17	30
VISIBILITY	10	15	15	15	15	13	15	16	14	13	18	20	19	16	30
LESS 2 MI	13	15	14	14	16	12	15	16	15	12	18	19	18	15	30
	16	15	15	15	14	13	15	15	15	12	18	20	20	16	30
	19	5	5	7	12	14	15	15	15	13	6	6	5	10	30
	22	2	2	1	1	2	2	4	3	3	3	3	3	3	28
	ALL HRS	11	10	10	11	10	12	13	12	9	12	13	13	11	27
CEILING	01	1	1	1	0	0	0	1	2	2	2	2	3	1	20
LESS 500	04	2	2	3	5	9	13	14	9	3	2	2	4	6	22
FT AND/OR	07	19	18	16	16	13	15	16	14	13	21	22	19	17	30
VISIBILITY	10	15	15	15	15	13	15	16	14	13	18	20	19	16	30
LESS 1 MI	13	14	14	14	16	12	15	16	15	12	18	19	18	15	30
	16	15	15	15	14	13	15	15	15	12	18	20	20	16	30
	19	5	5	7	12	14	15	15	15	13	6	6	4	10	30
	22	2	2	1	1	2	2	4	3	3	3	3	3	2	28
	ALL HRS	10	10	10	11	10	12	13	12	9	12	12	12	11	27

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	49.9	49.0	58.3	63.9	76.9	72.8	63.2	55.4	41.6	34.4	M
1946	32.5	38.3	M	54.6P	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	27.4	42.3	46.4	45.6	58.6	68.2	73.5	77.2	65.6	55.3	39.4	38.5	51.7
1956	37.1	43.1	49.0	51.6	59.7	68.2	75.8P	71.6	67.4	52.2	38.0	41.7	M
1957	27.3	42.4	49.3	50.2	58.3	71.2	75.7	72.0	64.9	50.5	37.7	35.6	52.7
1958	34.1	44.2	38.9	49.5	69.5	68.2	75.4	78.2	69.3	56.7	41.6	38.0	54.8
1959	37.6	37.6	49.1	53.7	55.3	70.6	78.2	72.5	61.4	54.9	40.5	29.7	53.1
1960	30.2	35.4	47.1	51.2	57.3	72.7	78.0	72.9	67.4	52.8	42.0	32.8	53.3
1961	32.7	41.4	43.7	50.1	57.2	73.5	77.0	75.0	60.3	52.3	37.1	32.7	52.7
1962	26.2	43.7	49.7	55.8	58.4	68.0	73.9	72.3	66.1	55.0	43.1	36.1	52.1
1963	36.5	45.1	41.7	49.1	61.2	63.0	72.5	72.9	68.4	57.2	41.1	32.5	52.3
1964	33.1	43.8	46.7	47.9	56.2	66.3	75.6	72.9	61.6	57.0	37.8	37.8	51.5
1965	35.8	37.2	42.3	51.7	55.4	64.6	73.3	70.6	59.5	56.3	44.0	32.6	51.9
1966	33.3	45.3	45.4	52.8	66.2	66.9	72.9	74.8	64.9	52.3	44.3	32.5	53.3
1967	36.0	39.5	45.4	41.6	58.5	65.7	77.9	78.6	68.9	54.1	44.9	30.1	52.3
1968	31.9	44.1	45.6	48.3	59.0	69.2	78.0	78.5	66.0	53.0	41.0	31.7	52.9
1969	37.6	40.8	41.9	51.0	63.7	66.6	76.9	75.7	69.4	46.6	39.1	35.1	53.3
1970	36.9	42.8	42.9	46.2	61.1	68.5	77.2	76.8	62.6	52.7	40.6	36.0P	M
1971	37.1	40.8P	46.7P	55.0P	59.5	68.5	76.4P	78.7P	M	47.7	M	33.1P	M
1972	27.3	40.0P	48.7	46.0	60.3P	68.0	74.4	72.8P	59.2	49.5	40.0	34.7P	M
1973	24.9	38.0P	40.4	49.4	64.4	M	M	70.1	M	M	44.2	39.5P	M
1974	36.0	38.6	47.2	49.3	60.3	69.1	72.9	71.7P	66.0	M	42.6	32.9	M
1975	34.0	38.3	41.5	M	55.4P	65.6P	75.3	69.5	65.1	52.3	40.4P	38.9P	M
1976	33.5	38.2P	43.6	47.5P	63.9	69.2P	M	M	M	49.8P	43.5P	29.3P	M
1977	29.5P	38.4P	38.4	53.7	53.3	73.2P	79.1	79.9	66.4	57.0	44.7P	41.5P	M
MEAN	32.6	38.3	45.1	49.5	59.3	68.0	75.3	73.3	64.7	53.4	41.5	33.6	52.8

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	.46	M	M	M	M	T	T	.43	.16	.62P	M
1946	.10	M	M	.00P	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	.29	.97	M
1955	.22	.96	.12	.17	.83	T	.03	.00	.30	.01	.98	1.67	4.67
1956	1.35	T	T	.45	.94	.39	.03P	.00	.51	.36	.05	T	M
1957	.59	.62	.31	1.03	.80	T	.10	T	.64	.94	.97	.07	5.69
1958	.12	.96	.28	.26	.30	1.64	.30	T	.34	.00	.14	.11	3.78
1959	T	.97	T	TP	.62	.00	.02	1.78	.22	.06	.00	.03	M
1960	.09	.06	.12	.04	.02	T	.33	T	.03	.03	.91	.62	2.05
1961	.23	.92	.30	.05	.62	.30	.29	1.26	.44	.20	.40	.24	4.77
1962	.44	1.47	.19	.01	1.70	.66	.31	T	T	T	.16	T	6.61
1963	.31	.91	.73	1.10	.49	1.44	.00	.05	.49	.60	.30	.38	6.60
1964	.08	.16	.97	.46	1.97	.70	.09	.15	.00	.24	.19	.97	5.10
1965	.49	.14	.41	1.07	1.13	.77	.39	.66	.20	.03	1.96	.97	7.64
1966	.04	.97	.09	.17	.39	.42	.32	.01	.06	.37	.00	.21	1.28	3.91
1967	.39	.98	.86	1.13	.27	1.34	.32	.27	1.88	.01	.01	T	7.29
1968	.40	1.00	.23	.87	.24	.40	.13	.81	T	.25	.42	.50	5.25
1969	1.66	1.11	.19	.25	.32	1.11	.02	T	.01	.46	.43	.92	6.48
1970	.68	.26	.25	.06	.11	1.45	.63	.23	T	T	.30	.28	4.25
1971	.81	.98	.41	.27	1.31	.20	.39	.19	M	.89	.21	.63P	M
1972	.12	.08	T	.17	.24	1.38	.07	.10	.86	2.26	.38	.26	6.12
1973	1.50	1.96	.70	.23	.39	.08	.07	.03	T	.41	.66	.51	5.82
1974	.66	.11	.31	.38	.03	.04	.36	.92	.00	M	.31	.78	M
1975	.25	.29	.98	.41	.21	.61	T	.91	.47	.45	.09	.10	4.32
1976	.38	.90	.28	.67	.08	.46	1.24	.86	M	.04	.07	.02P	M
1977	.56	.42	.09	.06	1.92	2.14	.20	.12	T	T	.02	1.39P	M
MEAN	.47	.69	.36	.41	.62	.71	.26	.31	.31	.37	.39	.44	5.14

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									763	473	220	102	M
45-46	0	8	161	289	697	963	1001	796	M	M	M	M	M
46-47	M	M	M	M	M	M	M	M	M	M	M	M	M
53-54	M	M	M	M	M	M	M	M	M	M	M	M	M
54-55	M	M	M	M	614	1016	1157	910	757	576	272	44	M
55-56	7	0	127	293	761	814	858	915	619	396	198	50	5091
56-57	M	3	30	392	801	1030	1162	827	606	436	220	29	M
57-58	0	10	31	442	812	907	932	572	772	458	72	47	5101
58-59	0	0	81	255	695	828	849	748	608	333	302	7	4720
59-60	0	20	192	307	730	1085	1074	855	947	407	284	5	5476
60-61	0	18	31	376	686	990	995	858	659	439	262	17	5100
61-62	5	0	159	386	852	993	1196	870	749	273	261	58	5780
62-63	4	3	42	303	692	954	1184	954	713	592	147	115	5265
63-64	0	2	38	257	709	988	981	897	767	506	284	95	5522
64-65	0	17	109	290	810	834	899	771	702	392	301	86	5171
65-66	0	0	186	388	935	997	976	928	993	358	80	67	6978
66-67	3	8	68	387	614	1002	865	707	656	694	263	87	5364
67-68	0	0	17	332	905	1074	1018	599	995	486	196	53	4965
68-69	0	46	116	395	714	1026	862	782	711	413	97	61	5194
69-70	0	0	10	586	770	921	886	616	682	557	144	58	5190
70-71	2	0	130	390	945	M	860	M	M	M	182	96	M
71-72	M	M	M	527	M	M	1166	M	698	566	M	93	M
72-73	3	M	188	476	744	M	1235	M	739	462	89	M	M
73-74	M	78	M	M	614	M	890	733	645	466	168	23	M
74-75	18	M	57	M	663	998	955	746	720	M	M	M	M
75-76	2	18	38	389	M	M	988	M	662	M	86	M	M
76-77	M	M	M	M	M	M	M	M	819	332	386	M	M
77-78	0	1	82	241	M	M							
MEAN	2	10	91	387	699	966	999	748	673	458	200	93	5256

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1965			0	1	19	73	375	257	114	0	0	0	M
1966	0	0	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	M	M	M	M	M	M	M	M	M	M	M
1968	M	M	M	M	M	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	0	0	M
1955	0	0	0	0	17	153	279	386	151	0	0	0	986
1956	0	0	0	0	60	153	M	215	117	1	0	0	M
1957	0	0	0	0	17	221	339	293	114	0	0	0	984
1958	0	0	0	0	99	151	338	415	96	2	0	0	1101
1959	0	0	0	2	8	181	414	258	90	1	0	0	984
1960	0	0	0	0	23	263	407	286	109	4	0	0	1097
1961	0	0	0	0	10	281	377	320	24	1	0	0	1013
1962	0	0	0	2	1	158	288	237	79	0	0	0	765
1963	0	0	0	0	37	61	240	292	148	23	0	0	761
1964	0	0	0	0	19	80	338	268	14	10	0	0	728
1965	0	0	0	0	9	81	366	181	26	4	0	0	867
1966	0	0	0	0	62	190	294	319	93	0	0	0	888
1967	0	0	0	0	52	115	406	428	137	0	0	0	1138
1968	0	0	0	0	19	187	411	146	91	0	0	0	873
1969	0	0	0	0	63	93	376	341	150	1	0	0	1024
1970	0	0	0	0	29	169	387	373	64	13	0	M	M
1971	0	M	M	M	19	148	M	M	M	0	M	M	M
1972	0	M	0	0	M	131	299	M	23	0	0	M	M
1973	0	M	0	0	76	M	M	200	M	M	0	M	M
1974	0	0	0	0	30	134	358	M	92	M	0	0	M
1975	0	0	0	M	M	M	329	166	80	1	M	M	M
1976	0	M	0	M	30	M	M	M	M	M	M	M	M
1977	M	M	0	0	10	M	322	346	128	1	M	M	M
MEAN	0	0	0	0	31	148	339	282	90	3	0	0	889

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

FALLON, NEVADA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93102	Fallon, Nevada	39°25'N	118°42'W	3934	KNFL	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1952	1967	39°25'N	118°42'W	3934	Mercurial	Var
2.	" " "	"	1967	1976	"	"	3940	"	Var
1a.	" " "	"	1968	1977	"	"	3942	Aneroid	Var
1b.	ESE of Weather service office 1300 ft	"	1977		"	"	3940	Pressure transducer	18

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1944	Roof	SA(F103-F003)	9 light	27'	
2.	Unknown	Aerovane atop 90' control tower 600' E of Aerology Bldg				
3.	"	HC anemometer atop Aerology Bldg	HC	"	30'	
4.	1955	21 foot platform(replaces item #3)	AN/UMQ-5B	Unknown	21'	
5.	1958	Atop control tower	AN/UMQ-5C	RD-108B	85'	
6.	1958	Relocated near main runway	"	"	15'	
7.	1977	Near main runway	"	R0447A	15'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Air Station (H) Futenma, Okinawa is located on the western coast of south-central Okinawa. The South China Sea is 1 1/2 miles to the west. The most prominent topographic feature is the Maeda Escarpment which lies approximately 1 1/2 miles to the south through west-southwest with an average height of 330 feet.

The climate of Okinawa most closely resembles that of a tropical environment, warm summers with mild winters.

Flying conditions are generally good to excellent. Visual Flight Rules prevailing 94% of the time while below GCA minimums occur less than .2% of the time, although the average daily cloudiness is 7/10.

There are two primary seasons-winter (dry season) and summer (wet season). The wet season is May through September. Precipitation during the wet season more than doubles the average monthly precipitation of the dry season. The average annual precipitation for Okinawa is 79 inches.

Since Okinawa is a relatively small island, wind drainage, land and sea breezes are almost nil. Predominate wind direction throughout the year is north to east with an average of 8 knots. The exception being June when the wind direction prevails from the south.

Okinawa is commonly referred to as "typhoon alley". May through November is considered the peak of the typhoon season; however, typhoons have passed near or even over Okinawa during the remaining months.

The peak months for thunderstorms are June through September. An average monthly occurrence of 4 thunderstorms are observed, mainly associated with frontal passages.

FUTENMA, OKINAWA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: FUTENMA, OKINAWA
LOCATION : N26 16 E127 45

PERIOD: JUL 60-DEC 77
ELEV : 247

STN LTRS: RODM
WBAN # : 42215
WMO # : 47933

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	PRECIPITATION INCHES MEAN	PRECIPITATION INCHES MAX	PRECIPITATION INCHES MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	SNOWFALL MAX 24 HR	RELATIVE HUM 04 LST	RELATIVE HUM 13	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SPC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 DR GTR	PRECIP INCHES .5 DR GTR	SNOWFALL .1 DR GTR	SNOWFALL 1.5 DR GTR	THUNDER DAYS R	VSBY FOG 7MI	MAX DEG < 90	MAX DEG > 75	MIN DEG > 65	MIN DEG < 45
JAN	64	55	80	42	4.7	12.2	1.1	4.6	0	0	0	78	68	.37	51	450	N	8	47	7	16	3	0	0	#	5	0	1	30	1
FEB	66	56	81	43	3.4	9.6	1.2	3.7	#	#	#	80	70	.40	53	500	N	8	40	7	13	2	0	0	1	6	0	2	27	1
MAR	69	59	84	43	4.8	11.4	.8	3.5	#	#	#	81	70	.45	56	550	N	8	42	7	15	3	0	0	1	9	0	4	28	#
APR	75	65	70	88	52	4.7	9.8	.8	3.8	0	0	0	83	72	.58	63	500	E	8	41	7	11	3	0	0	2	8	0	15	16	0
MAY	80	70	75	89	58	10.4	27.2	.7	5.0	0	0	0	87	76	.71	69	650	E	8	40	8	16	6	0	0	3	9	0	28	4	0
JUN	83	75	79	98	62	12.5	22.4	6.2	7.3	0	0	0	90	79	.85	74	700	S	8	47	8	15	7	0	0	3	8	1	29	1	0
JUL	87	78	83	94	70	9.1	21.6	.6	8.7	0	0	0	87	75	.90	76	850	SE	8	68	7	12	3	0	0	2	4	6	31	0	0
AUG	87	78	83	95	69	8.9	21.3	2.7	14.0	0	0	0	87	76	.90	76	950	E	8	83	7	16	4	0	0	3	4	3	31	0	0
SEP	86	76	81	98	65	5.9	13.6	1.7	5.0	0	0	0	84	73	.85	74	800	E	7	85	6	15	3	0	0	3	3	2	30	#	0
OCT	80	71	76	89	58	5.4	13.3	.2	7.7	0	0	0	80	69	.67	67	650	NNE	7	100	6	12	3	0	0	2	3	0	29	4	0
NOV	75	66	71	84	56	3.7	10.3	1.5	7.1	0	0	0	79	70	.56	62	500	NNE	7	62	7	11	2	0	0	#	4	0	17	14	0
DEC	69	59	64	80	47	9.1	9.9	.9	4.0	0	0	0	77	69	.44	55	450	N	7	48	7	14	3	0	0	#	4	0	3	28	0
ANN	77	67	72	98	42	79.2	27.2	.2	14.0	#	#	#	83	72	.62	65	800	E	8	100	7	166	42	0	0	20	67	12	220	152	2
EYR	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	16	17	17	17	17	17	18	18	17	17	17	17

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	49	50	49	44	43	39	23	26	23	24	33	40	36	16
LESS 5000	03	47	49	52	45	43	44	24	30	22	23	32	40	37	16
FT AND/OR	06	51	54	51	45	45	41	23	28	25	27	31	43	39	17
VISIBILITY	09	52	52	50	50	51	54	38	37	31	29	36	45	43	17
LESS 5 MI	12	53	58	54	50	52	58	43	43	40	39	40	49	48	17
	15	61	59	55	49	48	53	41	40	38	43	43	49	48	17
	18	57	56	47	40	42	46	33	35	29	30	40	52	42	17
	21	49	52	48	39	43	38	22	28	23	24	34	44	36	17
	ALL HRS	52	54	51	45	46	46	31	33	29	30	36	45	41	17
CEILING	00	1	2	6	8	14	10	4	5	2	3	2	1	5	16
LESS 1000	03	2	2	6	9	15	12	5	4	2	3	1	1	5	16
FT AND/OR	06	2	2	4	10	15	11	7	5	3	3	1	2	5	17
VISIBILITY	09	3	5	7	9	13	10	5	5	3	4	3	3	6	17
LESS 3 MI	12	3	5	5	7	13	8	5	7	4	4	4	5	6	17
	15	5	4	5	7	11	10	5	6	3	4	4	5	6	17
	18	3	4	5	8	13	10	5	7	5	4	3	4	6	17
	21	0	2	6	7	14	9	4	5	2	4	2	2	5	17
	ALL HRS	3	3	5	8	13	10	5	6	3	4	3	3	5	17
CEILING	00	0	1	2	5	6	4	1	2	1	1	1	1	2	16
LESS 600	03	1	1	3	4	6	5	2	2	2	2	1	0	2	16
FT AND/OR	06	1	1	2	4	6	4	2	2	2	2	1	1	2	17
VISIBILITY	09	2	2	3	4	5	4	2	2	2	2	1	1	2	17
LESS 1 MI	12	2	1	3	2	5	3	3	3	2	3	2	2	3	17
	15	3	2	3	3	5	4	1	3	2	3	2	3	3	17
	18	1	2	2	4	6	5	3	4	2	2	1	1	3	17
	21	0	1	2	2	7	5	1	2	2	3	0	0	2	17
	ALL HRS	1	1	2	4	6	4	2	3	2	2	1	1	2	17
CEILING	00	0	0	0	0	1	0	0	1	1	1	0	0	0	16
LESS 200	03	0	0	0	0	1	0	0	0	1	1	0	0	0	16
FT AND/OR	06	0	0	0	0	1	0	0	1	1	1	0	0	0	17
VISIBILITY	09	0	0	0	0	1	1	1	1	2	1	0	0	1	17
LESS 1/2 MI	12	1	1	1	1	1	1	1	3	2	2	2	1	1	17
	15	1	1	1	1	1	1	1	2	2	2	1	1	1	17
	18	0	0	0	0	1	1	1	3	2	2	0	0	1	17
	21	0	0	0	0	1	1	0	1	1	1	0	0	1	17
	ALL HRS	0	0	0	0	1	1	1	2	1	1	1	0	1	17

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1960	M	M	M	M	M	M	82.6	81.2	81.3	74.9	70.3	62.1	M
1961	58.6	56.1	65.3P	M	73.3	81.5	82.2	82.8	81.2	76.6P	70.7	63.0	M
1962	56.2	59.5	61.0	65.5	74.9	79.6	83.0	82.3	81.6	73.6	69.8	62.7	71.0
1963	52.7	54.6	61.7	69.0	78.4	79.6	83.7	83.3	81.3	74.2	70.2	63.8	71.2
1964	62.1	M	M	M	74.5	77.4	82.6	81.6	82.3	78.1	69.8	65.2	M
1965	59.4	61.0	60.9	68.0	78.1	78.0	83.2	81.7P	79.6	73.1	72.1	64.3	M
1966	60.8	62.6	66.4	70.8	72.9	77.6	81.6	82.7	79.0	73.5	70.3	M	M
1967	M	M	M	M	M	80.7	83.3	83.3	80.6	74.3	71.9	58.5	M
1968	57.9	M	M	66.7	72.9	76.1	83.0	81.7	79.8	73.8	68.6	66.2	M
1969	64.2	63.5	64.1	69.4	74.9	76.2	83.4	82.0P	81.3	M	M	62.8	M
1970	59.2	64.2	62.3	68.9	73.3	79.0	82.6	82.3	80.7	77.4	71.7	65.1	72.4
1971	58.2	59.1	63.1	70.4	73.1	82.2	84.6	81.6	81.0	73.6	69.7	66.6	72.3
1972	63.0	63.0	62.8	68.6	76.3	79.8	84.1	82.8	79.9	74.0	70.5	63.6	72.3
1973	61.8	62.7	65.9	73.7	78.0	79.2	81.7	81.3	80.7	78.2	70.4	61.9	72.8
1974	59.5	62.8	66.1	69.9	75.9	77.8	81.7	84.1	81.6	78.2	72.0	66.8	73.1
1975	60.4	62.1	63.0	73.2	74.2	78.1	81.6	82.3	81.7	73.1	69.3	66.7	72.2
1976	59.9	64.1	65.2	71.4	76.0	80.3	80.4	82.6	79.4	73.3	68.4	65.0	72.4
1977	59.0	58.2	63.1	69.9	76.4	80.2	83.8	83.2	82.4	78.8	71.3	66.4	72.8
MEAN	59.6	61.2	63.7	69.7	75.0	78.9	82.7	82.5	81.0	75.7	70.4	64.1	72.0

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1960	M	M	M	M	M	M	6.89	11.06	5.97	2.08	5.01	4.16	M
1961	1.72	4.16	6.86P	M	8.21	7.56	21.93	7.65	3.60	13.20	2.78	5.83	M
1962	3.85	7.46	11.39	6.93	8.09	9.81	2.26	7.57	3.39	4.63	3.63P	3.80	M
1963	2.46	1.81	1.45	2.64	.71	6.81	2.34	5.88	7.25	1.22	1.46	6.88	40.69
1964	9.11	1.46	2.57P	.93	13.17	19.55	14.30	11.79	6.87	6.44	1.46	9.92	M
1965	3.12	4.07	3.88	4.46	16.60	20.12	.59	26.47P	3.60	4.02	2.51	3.80	M
1966	12.15	3.40	2.25	9.76	27.19	13.79	7.63	10.43	13.65	1.73	6.32	M	M
1967	M	M	M	M	M	19.53	8.01	2.98	1.72	7.16	1.69	2.90	M
1968	1.99	M	6.31P	3.94	3.82	9.98	.70	12.93	2.91	1.79	2.87	7.92	M
1969	5.28	4.78	10.08	2.39	18.70	22.42	1.89	21.90	3.69	M	M	.90	M
1970	5.04	2.98	9.05	5.28	7.42	9.84	6.95	7.06	4.22	4.02	2.83	7.96	71.77
1971	3.31	1.73	.80	2.86	1.60	6.21	2.47	6.15	5.22	6.47	10.25	6.97	55.74
1972	5.92	9.58	2.19	4.28	14.22	14.96	21.64	5.13	2.36	.16	5.70	6.46	99.94
1973	7.38	6.96	2.75	5.34	11.69	7.89	17.13	3.92	11.99	1.39	1.94	7.39	80.14
1974	2.96	4.18	3.86	9.92	13.95	7.96	11.88	6.82	3.75	10.36	2.04	5.92	86.68
1975	6.98	4.16	6.95	9.71	17.35	16.76	16.97	17.27	3.57	13.28	2.09	2.92	121.43
1976	1.07	1.92	2.01	1.32	8.60	8.16	12.59	7.65	8.42	11.72	3.86	7.43	65.25
1977	5.85	1.49	2.89	1.24	2.69	10.88	7.11	10.76	10.20	2.74	5.57	9.12	66.91
MEAN	4.70	3.61	4.84	4.72	10.75	12.93	9.13	8.90	5.91	5.39	3.68	5.10	79.26

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
59-60													M
60-61	0	0	0	0	5	96	203	193	M	M	0	0	M
61-62	0	0	0	M	1	77	265	164	134	32	0	0	M
62-63	0	0	0	0	8	80	379	292	120	16	0	0	891
63-64	0	0	0	0	8	60	103	M	M	M	0	0	M
64-65	0	0	0	0	1	28	186	119	139	13	0	0	462
65-66	0	M	0	0	0	61	154	99	61	3	0	0	M
66-67	0	0	0	0	5	M	M	M	M	M	M	0	M
67-68	0	0	0	0	0	200	212	M	M	13	0	0	M
68-69	0	0	0	0	8	45	89	74	78	17	0	0	306
69-70	0	M	0	M	M	88	176	73	113	8	0	0	M
70-71	0	0	0	0	0	30	306	183	34	0	0	0	553
71-72	0	0	0	0	5	43	81	77	104	24	0	0	334
72-73	0	0	0	0	0	31	107	63	24	0	0	0	225
73-74	0	0	0	0	0	102	167	77	26	11	0	0	383
74-75	0	0	0	0	0	20	144	109	73	16	0	0	362
75-76	0	0	0	0	5	60	137	80	71	6	0	0	359
76-77	0	0	0	0	12	69	181	189	77	12	0	0	540
77-78	0	0	0	0	4	9							
MEAN	0	0	0	0	3	65	174	125	79	12	0	0	498

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1960							836	909	699	312	172	11	M
1961	12	4	M	M	827	902	860	858	916	M	177	38	M
1962	0	27	17	93	814	665	965	942	902	827	184	18	3946
1963	0	0	26	193	821	666	889	887	958	289	189	33	3259
1964	20	M	M	M	909	980	994	916	989	613	192	40	M
1965	2	14	14	111	829	896	972	M	666	298	219	91	M
1966	30	27	96	186	854	886	923	954	628	269	171	M	M
1967	M	M	M	M	M	679	977	974	674	398	216	4	M
1968	2	M	M	79	892	892	967	927	681	282	117	89	M
1969	70	99	59	157	819	961	977	M	698	M	M	76	M
1970	5	97	38	130	827	629	932	843	677	392	208	42	5200
1971	0	6	46	170	821	821	613	823	687	338	180	97	5214
1972	29	28	49	132	861	698	601	899	628	385	171	87	5169
1973	14	33	59	286	818	691	923	810	679	413	171	11	5230
1974	2	26	69	182	864	890	922	896	804	416	219	86	5394
1975	9	34	18	270	893	897	826	868	807	320	141	89	5113
1976	4	40	69	204	867	669	683	867	668	391	118	79	5161
1977	1	7	29	186	869	684	892	872	918	667	202	96	5943
MEAN	12	24	46	189	818	824	857	868	687	338	173	62	5128

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

FUTENMA, OKINAWA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
42215	Futenma, Okinawa	26°16'N	127°45'E	247 MSL	ROTM	47933

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, Bldg 510	MCAF	1960		26°16'N	127°45'E	275	Mercurial	Var
1a.	" " " " "	"	1961	1970	"	"	277	Aneroid	24
2a.	" " " " "	MCAS	1970		"	"	"	"	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1961	800 feet west of Bldg 510	UMQ-5	RD-108B	15'	1. Barograph (ML-3-A) 2. Semi-auto met sta (AN/GMQ-14B) 3. Cloud height set (AN/GMQ-13) 4. Theodolite (ML-47P) 5. Transmissometer (AN/GMQ-10C) 6. Indicator, Digital (ID 1348 GMQ-10) 7. Converter (CV 2062 GMQ-10)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station, Glenview, Illinois is located near the southwest shore of Lake Michigan, 20 miles north-northwest of the Chicago Loop and 7 miles north-northeast of O'Hare International Airport.

Topography is generally level with a few small hills approximately 50 miles to the northwest. The significant topographical feature is Lake Michigan which lies 6 miles east of the station.

NAS Glenview is in a region of frequently changing weather. The climate is predominantly continental, ranging from warm in summer to cold in winter. Very low winter temperatures most often occur in air that flows southward to the west of Lake Superior before reaching NAS Glenview. During the summer months, the higher temperatures are associated with south to southwest flow that is not influenced by the lakes.

Thunderstorm activity increases in frequency starting in March, reaching the highest frequency in June, then decreasing thereafter becoming nearly nonexistent in December.

During the late autumn, winter and early spring warm fronts become well-defined. Typical warm frontal weather prevails from the warm front northward 200 to 300 miles with widespread low stratus, rain or snow, and fog and smoke; with improving conditions after frontal passage. The typical warm front does not apply to those emanating from Alberta lows which have moved north of Glenview. Cold frontal passages average 2 to 3 per week during the winter months accompanied by a broad band of snow or snow and rain showers. Heavy snow storms are produced when a polar outbreak moves north of the station and the Surface-10,000 foot winds are from the north or northeast. As the cold air moves over the relatively warmer lake it acquires moisture. This unstable condition produces frequent heavy snow showers and near zero flying conditions. Snow accumulation is dependent upon the persistence of this condition.

The yearly prevailing wind direction has a westerly component, with the exception of April and May when the prevailing wind becomes north-northeasterly. The maximum wind velocity recorded was 80 knots from the northeast in January 1948.

The large size and depth of Lake Michigan, with the resulting slow temperature change of the lake water, combine to produce the main local effect on weather patterns. A lake breeze is created during the late spring and summer with an air-water temperature differential equal to or greater than 4 degrees F. The lake breeze penetration inland is rarely over 10 miles. With the greater Chicago industrial complex ranging 30 to 50 miles to the south and southeast, a wind from that direction will carry haze and smoke produced there to Glenview. Visibility may be reduced to 1 mile or less during the night and early morning and will remain less than 3 miles during the day.

GLENVIEW, ILLINOIS

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: GLENVIEW, ILLINOIS
LOCATION : N42 05 W87 50

PERIOD: MAR 45-DEC 77
ELEV : 693

STN LTRS: KNBU
WBAN # : 14855
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION MONTHLY MEAN	PRECIPITATION MONTHLY MAX	PRECIPITATION MONTHLY MIN	INCHES MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX MON	SNOWFALL MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SPC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER DAYS R	VSBY DAYS 7MI	MAX DEG 90	MAX DEG 75	MIN AND 32	MIN AND 00
JAN	30	15	23	67	-20	1.9	4.2	.4	2.0	10	33	17	76	69	.09	15	1350	W	9	80	6	10	1	6	2	#	11	0	0	28	5
FEB	34	19	27	72	-16	1.5	3.1	.2	1.2	8	29	12	76	66	.11	19	1350	W	9	62	6	8	1	5	2	#	10	0	0	25	2
MAR	44	28	36	82	-9	2.8	5.3	.6	1.9	7	30	9	76	63	.15	27	1400	W	10	60	7	11	2	5	1	2	12	0	#	21	#
APR	57	39	48	88	16	3.6	6.3	1.0	2.4	2	14	12	73	57	.22	37	1450	NE	10	62	6	12	2	1	#	4	10	0	3	7	0
MAY	68	48	58	94	28	3.5	7.7	1.0	2.2	#	#	#	74	56	.31	46	1200	NNE	8	63	6	12	2	0	0	5	10	1	10	#	0
JUN	78	58	69	102	34	4.2	7.3	.7	4.3	#	#	#	78	57	.47	57	1100	SSW	7	72	5	10	3	0	0	7	10	4	20	0	0
JUL	83	64	73	101	45	3.7	8.3	.1	3.0	0	0	0	79	56	.36	62	950	SW	6	62	5	9	2	0	0	6	12	6	27	0	0
AUG	81	63	72	101	45	2.9	7.3	.6	3.1	0	0	0	83	57	.36	62	950	SSW	6	58	5	8	2	0	0	5	15	5	25	0	0
SEP	74	55	65	100	32	3.2	13.9	.5	2.6	0	0	0	81	57	.42	54	1050	SSW	7	54	5	9	2	0	0	4	12	1	13	#	0
OCT	63	45	54	88	21	2.4	9.1	.2	3.6	1	7	5	78	57	.29	44	1150	SSW	8	52	5	8	1	#	#	2	12	0	5	3	0
NOV	47	32	40	78	-5	2.2	4.4	.5	1.7	2	8	6	77	69	.17	31	1350	SSW	9	64	6	9	1	2	1	1	11	0	#	16	#
DEC	35	21	28	70	-14	2.3	6.0	.4	1.6	9	27	13	80	71	.11	21	1350	W	9	56	7	10	1	6	2	#	13	0	0	26	2
ANN	58	41	49	102	-20	34.2	13.9	.1	3.0	39	33	17	78	61	.25	40	1250	SSW	8	80	6	116	20	25	8	36	138	17	103	126	9
EYR	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32		32	32	28	32	32	32	32	29	29	32	32	32	32

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	42	37	37	28	20	14	11	11	17	21	37	44	27	32
LESS 9000	03	44	37	37	30	21	16	12	14	20	22	37	44	28	32
PT AND/OR	06	45	42	39	31	23	20	16	19	27	28	39	46	31	32
VISIBILITY	09	44	42	38	36	27	23	17	19	25	26	41	48	32	33
LESS 5 MI	12	39	41	42	38	31	27	22	25	27	30	43	47	34	33
	15	39	41	42	36	29	24	20	19	24	26	41	45	32	33
	18	38	38	37	30	25	17	12	13	18	22	37	44	28	30
	21	39	38	38	25	20	14	10	10	15	20	38	43	26	29
	ALL HRS	41	39	39	32	24	20	15	16	22	24	39	45	30	32
CEILING	00	16	10	13	8	8	4	3	3	4	5	10	14	8	32
LESS 1000	03	16	13	13	10	8	5	4	4	4	7	11	16	9	32
PT AND/OR	06	16	11	14	10	9	7	5	6	8	9	12	18	10	32
VISIBILITY	09	16	12	14	9	9	7	4	4	6	8	12	18	10	33
LESS 3 MI	12	15	11	12	7	7	3	2	2	4	6	11	16	8	33
	15	13	11	11	6	6	2	2	1	3	5	9	15	7	33
	18	12	10	12	8	6	2	2	1	3	5	8	13	7	30
	21	13	9	12	6	6	3	2	2	3	6	9	14	7	29
	ALL HRS	14	11	13	8	7	4	3	3	4	6	10	16	8	32
CEILING	00	6	4	6	4	4	2	1	1	2	2	4	5	3	32
LESS 900	03	6	4	6	5	3	3	2	2	2	3	5	7	4	32
PT AND/OR	06	6	5	7	3	3	3	2	3	3	4	5	8	4	32
VISIBILITY	09	6	4	6	2	3	2	1	1	1	3	5	7	3	33
LESS 1 MI	12	6	4	4	1	2	1	0	0	1	1	3	6	2	33
	15	5	4	4	2	1	1	0	0	0	1	2	5	2	33
	18	5	4	5	3	3	1	1	0	1	2	3	4	3	30
	21	5	4	6	3	4	2	1	1	1	2	3	5	3	29
	ALL HRS	6	4	5	3	3	2	1	1	1	2	4	6	3	32
CEILING	00	2	1	2	1	2	1	1	0	0	1	2	1	1	32
LESS 200	03	2	2	3	1	1	1	1	1	1	1	2	2	2	32
PT AND/OR	06	3	2	3	1	1	1	1	1	1	2	3	3	2	32
VISIBILITY	09	1	1	2	0	0	0	0	0	0	1	1	1	1	33
LESS 1/2 MI	12	1	1	0	0	0	0	0	0	0	0	0	0	0	33
	15	1	1	1	0	0	0	0	0	0	0	0	1	0	33
	18	2	1	2	1	1	0	0	0	0	1	1	1	1	30
	21	2	2	2	1	1	0	0	0	0	0	1	1	1	29
	ALL HRS	2	1	2	1	1	1	0	0	0	1	1	1	1	32

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	49.1	58.2	69.6	70.3	70.8	69.3	58.7	39.2	21.8	M
1946	25.9	27.5	45.1P	49.3	59.5	66.3	73.5	M	M	57.6	M	30.3	M
1947	28.0	19.6P	M	M	58.2	66.2	69.9	78.7	M	M	32.2P	29.1P	M
1948	17.3	26.7	36.5	51.3	58.8	68.9	74.3	72.5	66.9	50.8	43.1	29.7	48.7
1949	27.1	28.0	36.2	48.2	58.8	71.7	73.8	73.1	59.3	56.2	38.3	30.5	50.1
1950	28.4	25.8	31.5	40.9	57.3	67.4	70.4	67.6	62.8	57.3	33.7	19.0	46.9
1951	21.6	23.7	39.4	44.8	59.6	69.9	70.8	68.2	61.4	53.1	31.3	29.1	48.0
1952	28.6	30.5	33.0	49.0	56.0	71.6	75.2	70.4	69.5	49.3	41.7	31.0	49.6
1953	27.0	40.8	36.6	44.9	58.6	70.8	74.5	73.5	64.8	56.8	42.6	29.9	50.9
1954	25.0	44.7	32.9	49.6	59.5	72.0	72.9	71.1	64.5	55.5	41.2	30.9	50.2
1955	23.3	26.9	35.2	54.3	60.3	67.0	78.4	77.0	66.0	54.6	36.8	24.6	50.2
1956	26.8	27.4	34.4	49.3	57.7	71.9	70.7	72.3	69.3	48.5	38.6	31.2	49.9
1957	17.4	21.4	36.0	47.3	58.3	66.8	74.3	71.3	62.0	49.8	38.8	32.8	48.9
1958	24.1	18.4	34.8	49.1	59.1	62.3	71.2	72.0	64.5	53.9	41.7	21.2	47.9
1959	17.0	24.5	33.6	47.9	63.9	70.4	72.8	77.0	66.9	49.2	32.0	34.3	49.3
1960	26.7	24.9	34.9	51.8	58.6	66.0	71.6	73.3	68.0	53.7	42.2	24.6	48.6
1961	21.8	23.0	39.1	43.7	59.1	68.1	72.8	72.9	67.0	54.7	40.0	23.2	48.5
1962	17.1	24.2	33.0	48.0	60.3	68.6	70.3	73.2	61.0	55.9	40.9	24.1	48.5
1963	12.6	18.5	39.3	50.1	58.4	70.4	73.6	70.0	64.4	52.2	44.2	17.7	48.3
1964	29.9	28.3	39.7	49.3	64.0	70.7	74.5	70.3	64.8	48.9	43.3	20.8	50.6
1965	23.4	23.7	28.1	45.9	62.6	67.4	72.6	70.2	64.3	53.6	41.7	35.7	49.2
1966	17.4	28.5	39.2	45.4	53.6	70.8	77.3	71.5	69.7	52.2	42.0	27.2	49.9
1967	28.0	20.3	36.0	48.4	58.6	70.5	70.3	67.8	62.4	51.4	35.5	30.0	47.9
1968	23.9	23.6	49.1	51.4	58.5	70.2	72.3	73.3	64.5	54.7	40.1	27.3	50.2
1969	20.5	28.9	39.9	48.3	59.3	69.2	72.7	74.8	64.9	51.6	37.9	28.0	48.6
1970	16.5	23.4	35.0	49.7	60.2	68.3	74.7	71.1	63.6	53.9	39.2	29.6	48.6
1971	17.8	27.6	39.1	48.9	58.9	73.4	71.6	69.2	69.1	58.7	40.5	33.1	50.3
1972	21.2	24.6	39.2	48.8	59.1	64.1	72.3	72.0	63.5	48.9	37.5	25.0	47.1
1973	20.0	29.7	43.4	47.6	59.4	71.3	75.0	74.7	64.1	56.1	41.6	27.1	51.4
1974	24.2	28.3	37.3	51.0	59.9	67.4	74.8	69.4	60.6	52.8	41.3	31.4	49.4
1975	27.6	28.7	39.2	42.5	61.7	70.4	74.8	74.7	80.7	55.9	48.4	30.8	50.4
1976	19.1	26.7	41.9	51.9	59.1	70.8	74.4	71.7	69.8	48.7	32.9	19.8	48.7
1977	8.7	28.0	43.8	54.0	67.3	69.7	73.5	71.9	67.1	53.0	39.5	23.4	50.0
MEAN	22.5	26.8	35.5	48.2	57.9	68.4	73.2	72.1	64.2	53.7	39.6	27.8	49.1

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	3.92	7.66	3.18P	1.74	3.72	6.99	1.41	2.10	1.37	M
1946	1.70	.97	3.72P	.96	3.45	2.56P	.08	M	M	1.01	M	1.01	M
1947	.46P	.10P	M	M	5.36	4.53	2.45	2.21	M	M	2.33P	M	M
1948	1.90	1.97	6.56	1.76	4.00	2.73	.98	1.03	2.02	.79	1.80	2.13	25.83
1949	2.09	1.72	2.35	1.98	1.91	5.99	4.87	.55	1.15	3.28	1.20	5.99	32.92
1950	2.80	2.98	2.62	3.31	.98	5.64	2.45	1.76	1.48	1.32	2.18	3.25	32.98
1951	1.98	2.33	2.92	3.26	3.25	3.34	4.36	4.08	2.60	3.18	3.08	3.24	37.61
1952	1.94	.82	3.05	2.39	2.77	6.27	3.29	1.42	.97	.28	2.71	2.23	30.62
1953	1.10	.44	2.91	2.44	3.18	3.01	3.31	1.76	2.61	.48	1.35	2.37	29.52
1954	1.01	1.86	2.22	3.03	2.57	5.07	6.14	4.81	.40	2.14	1.12	2.10	43.18
1955	1.33	1.45	1.58	2.03	4.27	3.14	2.19	1.21	2.05	4.98	2.19	.91	27.84
1956	.39	1.21	1.17	3.96	3.36	.70	1.85	4.11	.30	.28	1.47	1.28	20.28
1957	3.02	1.58	2.44	3.81	5.12	3.12	8.28	3.42	1.19	2.61	2.49	2.28	41.09
1958	1.80	.48	.65	2.79	2.62	3.91	4.80	2.24	2.62	1.93	.76	.76	26.09
1959	2.06	2.16	2.79	2.40	3.19	2.97	3.84	2.93	2.65	4.82	2.79	2.53	34.67
1960	3.26	4.13	1.28	3.61	3.35	4.44	3.85	1.58	2.19	3.80	.90	.90	31.66
1961	.30	1.17	3.71	2.98	2.15	2.50	3.88	2.09	13.88	3.97	2.73	1.68	40.96
1962	2.90	1.80	1.95	1.70	3.85	3.72	5.05	2.17	1.76	1.06	1.58	.63	29.33
1963	1.47	.70	2.74	4.47	1.70	1.56	4.34	3.15	3.07	.22	2.29	.83	26.74
1964	.84	.70	3.88	6.23	3.34	4.65	7.40	2.75	2.34	.23	3.13	2.92	37.89
1965	4.28	1.43	3.07	4.64	2.30	2.79	3.24	6.22	4.99	1.66	1.81	3.05	40.39
1966	1.11	1.22	2.69	5.89	4.47	4.58	3.64	.95	1.20	2.52	4.38	2.76	35.21
1967	2.55	9.08	3.81	3.90	1.87	6.46	2.79	2.16	2.17	3.20	1.81	1.93	38.43
1968	2.14	1.00	.81	2.29	4.07	3.70	2.91	4.47	4.09	1.08	4.13	3.90	34.09
1969	1.84	.21	1.84	3.29	4.09	7.27	3.31	.95	1.58	6.03	1.28	2.11	33.72
1970	1.25	.49	1.80	4.70	6.37	4.58	2.89	.87	8.99	2.17	3.48	1.34	40.88
1971	1.68	1.74	1.88	1.80	1.68	4.57	3.86	3.12	1.92	.80	1.84	3.96	29.55
1972	1.97	1.18	3.72	3.07	3.37	6.32	4.22	6.74	6.73	2.88	3.47	2.47	47.91
1973	1.10	1.46	2.44	3.34	3.45	2.58	9.26	.81	3.38	1.34	2.48	2.48	36.17
1974	2.90	2.19	3.24	3.32	5.25	4.43	2.28	3.33	1.34	1.91	2.36	1.97	34.52
1975	3.42	2.96	2.34	3.94	3.33	4.20	3.33	7.28	1.12	1.90	3.08	3.13	41.45
1976	1.36	1.48	3.28	4.23	4.30	3.66	3.02	1.69	1.65	1.92	.31	.50	30.22
1977	.55	.67	3.53	2.10	1.43	4.69	2.08	4.87	3.53	1.39	1.50	2.96	31.16
MEAN	1.93	1.67	2.80	3.35	3.44	4.16	3.71	2.97	3.16	2.30	2.21	2.26	33.94

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										477	370	150	M
45-46	19	12	137	439	769	1331	1208	1045	M	472	298	122	M
46-47	0	M	M	250	M	1068	1138	M	M	M	367	119	M
47-48	23	4	M	M	M	M	1475	1162	961	426	272	79	M
48-49	2	7	54	436	650	1088	1166	1085	882	557	247	28	6202
49-50	1	3	185	300	761	1068	1127	1092	1032	716	249	53	6586
50-51	9	38	93	280	931	1422	1360	1095	971	606	216	86	7044
51-52	7	70	143	398	1004	1229	1216	994	986	475	298	24	6796
52-53	0	18	118	340	691	1045	1170	953	879	509	266	36	6285
53-54	2	3	109	274	664	1081	1239	841	1004	460	389	24	6094
54-55	4	6	58	372	703	1056	1268	1061	916	315	186	43	6028
55-56	0	1	70	330	888	1246	1179	1083	960	587	276	23	6663
56-57	9	16	138	211	752	1041	1044	935	894	531	293	47	6319
57-58	0	2	126	403	780	981	1261	1299	927	479	211	113	6601
58-59	0	9	96	291	490	1349	1484	1128	905	512	150	35	6449
59-60	2	0	97	482	985	965	1181	1152	1252	418	270	50	6844
60-61	1	3	61	321	677	1269	1323	888	787	621	320	52	6523
61-62	11	2	97	331	743	1224	1480	1134	989	526	188	51	6795
62-63	4	2	134	307	713	1283	1620	1297	787	446	283	90	6928
63-64	7	15	92	135	618	1461	1093	1055	918	469	122	53	6038
64-65	9	19	119	458	660	1175	1287	1092	1125	568	147	58	6704
65-66	1	29	101	357	691	900	1466	1070	789	581	268	47	6404
66-67	0	5	102	394	682	1101	1143	1267	891	491	274	18	6589
67-68	32	39	136	463	879	1077	1268	1195	872	407	287	86	6441
68-69	13	17	55	391	739	1159	1373	1004	987	490	233	149	6566
69-70	9	0	82	428	803	1139	1501	1103	989	464	197	67	6778
70-71	5	7	113	345	765	1094	1458	1044	920	482	234	14	6479
71-72	3	20	94	281	751	920	1354	1159	977	528	213	106	6428
72-73	26	26	109	493	809	1234	1107	982	962	517	298	2	6257
73-74	0	1	73	289	702	1169	1258	1079	892	429	296	92	6200
74-75	2	10	189	386	699	1057	1155	1068	980	671	175	55	6401
75-76	6	0	159	295	850	1063	1419	873	728	426	309	17	6845
76-77	0	6	104	506	958	1397	1739	1030	681	389	105	90	6965
77-78	1	3	29	387	760	1219							
MEAN	6	10	106	360	750	1153	1312	1072	908	506	259	60	6508

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945				10	12	96	191	200	92	0	0	0	M
1946	0	0	M	9	12	170	269	M	M	23	M	0	M
1947	0	M	M	M	6	113	183	438	M	M	M	M	M
1948	0	0	0	21	0	112	297	247	119	2	0	0	798
1949	0	0	0	0	60	257	349	260	20	32	0	0	994
1950	0	0	0	0	19	133	182	123	33	27	0	0	521
1951	0	0	0	8	51	99	197	129	49	34	0	0	521
1952	0	0	0	2	25	229	320	188	80	6	0	0	850
1953	0	0	0	2	54	219	305	273	109	28	0	0	988
1954	0	0	0	3	18	270	284	198	111	24	0	0	880
1955	0	0	0	0	50	127	422	377	108	10	0	0	1094
1956	0	0	0	3	58	268	193	248	58	16	0	0	844
1957	0	0	0	9	19	170	296	209	31	0	0	0	732
1958	0	0	0	4	33	98	199	252	69	10	0	0	806
1959	0	0	0	2	124	204	293	276	148	0	0	0	1107
1960	0	0	0	29	14	96	213	267	139	9	0	0	789
1961	0	0	0	0	21	190	290	253	104	19	1	0	870
1962	0	0	0	24	137	164	179	265	67	31	0	0	887
1963	0	0	0	3	21	220	280	177	81	96	0	0	840
1964	0	0	0	6	88	294	306	197	121	0	0	0	962
1965	0	0	0	0	76	160	263	197	96	13	0	0	785
1966	0	0	0	0	24	228	387	214	79	3	0	0	935
1967	0	0	0	1	18	192	205	135	71	28	0	0	650
1968	0	0	0	2	14	198	267	292	78	41	0	0	862
1969	0	0	0	2	63	98	283	314	84	20	0	0	894
1970	0	0	0	14	60	178	311	203	78	4	0	0	847
1971	0	0	0	4	46	271	213	190	149	33	0	0	905
1972	0	0	0	0	35	97	260	213	64	0	0	0	669
1973	0	0	0	1	3	199	316	309	117	19	0	0	964
1974	0	0	0	13	20	190	313	192	98	13	1	0	702
1975	0	0	0	0	77	204	312	307	36	23	0	0	959
1976	0	0	0	40	7	198	297	219	77	10	0	0	848
1977	0	0	0	57	184	119	339	226	99	0	2	0	1000
MEAN	0	0	0	8	49	168	267	238	88	17	0	0	831

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

GLENVIEW, ILLINOIS

STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
14855	Glenview, Illinois	42°05'N	87°50'W	653	KNBU	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office located in operations building	Navy	1948	1964	42°05'N	87°50'W	645	Mercurial	
2.	Weather service office	"	1964	1966	"	"	"	"	24
3.	" " "	"	1966	1975	"	"	"	"	24
1a.	" " "	"	1963	1972	"	"	648	Aneroid	24
2a.	" " "	"	1972		"	"	"	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1948	Roof of control tower atop operations building	Selsyn	Triple	77.8 '	1. Barograph (ML-3) 2. Semi-auto met sta (AN/GMQ-14B) 3. Ceiling light (ML-121)
2.	1954	Atop building #1, southeast corner	"	"	47.0'	4. Theodolite 5. Transmissometer (AN/GMQ-10C)
3.	1958	Selsyn replaced by Aerovane and moved to NE section of runways 17-35 and 07-25, 3000' N of weather office	UMQ-5C	RD-108B	18.0'	6. Radar Recorder (RO 415/GMH 6) 7. RVR computer (CV 2062/GMQ 10) 8. Cloud height set (GMQ 13C)
4.	1975	Moved to 1030 feet ENE of weather office adjacent to taxiway, west of runway 17-35	"	"	"	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

U.S. Naval Air Station Guantanamo Bay is located on the southeastern end of the south coast of Cuba. The bay is approximately a mile and a half wide. Mountains encompass the bay from the west through north to the east. The mountains east of the base are a barrier to the prevailing easterly trade winds.

The station's lee side location is reflected in many of its climatic characteristics such as; a higher mean temperature in the summer and a lower mean temperature in the winter than on the windward side of the mountains; a larger temperature range, both daily and annually and less total precipitation than on the windward side. Other climatic characteristics include having only two seasons. From November to May periodic surges of continental air move over the area. This is the winter season. Before the days of the weather satellites it was thought that frontal passages in the tropics were extremely rare. It is quite apparent from available satellite data that frontal passages are a winter characteristic of the "Gitmo" area. Maritime air dominates from June to October. Nearly one-fourth of the total average annual precipitation of 24 inches falls during the month of October. There is a secondary rainfall maximum during May. The total rainfall for any particular month or year may be quite inconsistent with the average monthly or annual totals. Precipitation usually falls in the form of showers from cumuliform clouds.

Guantanamo Bay is normally under the easterly flow found in the trade winds belt. The sea breeze during the afternoon is from the southeast reflecting the dominance of the trade winds. A few hours after sunset the wind backs to a northerly direction with the onset of the land breeze.

The rhythm of the trade winds weather is interrupted occasionally by a tropical disturbance. During the past 33 years, however, hurricane force winds have been recorded only twice at this station. The mountainous barrier of Hispaniola and eastern Cuba provide a protective screen from the fury of the major tropical storms. These storms are the exception. The rule is for excellent flying weather to prevail 99% of the time.

GUANTANAMO BAY, CUBA

PREPARED BY: NNSD ASHEVILLE
JUNE 1978

STATION NAME: GUANTANAMO BAY, CUBA
LOCATION : N19 54 W75 09

PERIOD: APR 43-DEC 77
ELEV : 31

STN LTRS: MUGM
WBAN # : 11706
WMO # : 78367

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL INCHES MAX 24 HR	MAX MN	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAP PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	MEAN SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER NTS DM R	VSBY FOG < 7MI	MAX DEG > 90	MAX DEG > 85	MAX DEG > 75	MIN AND MIN < 65
JAN	84	68	76	95	57	1.0	10.3	#	8.8	0	0	83	59	.64	66	350	N	7	41	3	3	#	0	0	#	#	#	14	31	7
FEB	84	68	76	92	57	.8	9.4	.0	2.0	0	0	0	81	59	.64	66	200	N	7	50	3	3	#	0	0	#	#	1	13	28	6
MAR	85	70	78	92	61	1.0	9.5	.0	2.4	0	0	0	80	60	.67	67	200	N	7	40	3	3	1	0	0	1	#	1	19	31	3
APR	86	72	79	94	63	1.2	5.4	.0	2.9	0	0	0	79	61	.71	69	200	N	7	46	3	3	1	0	0	2	#	4	22	27	1
MAY	88	74	81	95	66	3.5	18.8	#	7.2	0	0	0	81	64	.77	71	200	N	7	60	5	6	2	0	0	4	#	9	27	22	#
JUN	89	75	83	98	68	2.2	17.6	#	6.3	0	0	0	83	65	.82	73	150	N	6	52	6	6	1	0	0	6	#	13	29	13	0
JUL	91	76	84	100	70	1.0	2.2	#	1.6	0	0	0	79	61	.82	73	100	N	7	40	5	4	1	0	0	6	0	20	31	12	0
AUG	91	76	84	99	69	1.8	5.7	#	2.8	0	0	0	81	61	.82	73	200	N	7	48	5	6	1	0	0	8	#	20	31	11	0
SEP	90	76	83	97	67	3.2	13.4	#	5.2	0	0	0	83	63	.82	73	200	N	6	78	5	8	2	0	0	9	#	19	29	11	0
OCT	89	75	82	98	68	5.9	19.8	.3	7.6	0	0	0	86	65	.82	73	300	N	6	50	5	10	3	0	0	7	1	13	28	18	0
NOV	87	72	80	93	62	1.5	7.3	#	3.1	0	0	0	85	62	.74	70	250	N	6	53	4	6	1	0	0	2	#	6	26	26	1
DEC	85	70	77	93	59	1.0	3.9	#	1.9	0	0	0	84	61	.69	68	200	N	7	35	3	4	1	0	0	1	#	1	17	31	4
ANN	87	73	80	100	57	24.1	19.8	.0	8.8	0	0	0	82	62	.74	70	250	N	7	78	4	62	14	0	0	46	1	107	286	261	22
EYR	33	33	33	33	33	33	33	33	33	20	20	20	33	33	33	33	33	33	33	33	29	33	33	20	20	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (1.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

PLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	7	8	6	5	9	7	5	7	6	8	5	5	6	33
LESS 5000	04	6	7	5	5	8	7	7	7	6	8	5	5	6	33
PT AND/OR	07	8	12	8	5	9	7	7	9	9	9	7	7	8	33
VISIBILITY	10	11	11	8	7	9	7	9	11	10	12	8	9	9	33
LESS 5 MI	13	17	14	10	6	7	5	5	8	8	15	16	14	10	33
	16	14	13	10	10	13	9	8	12	12	16	15	15	12	33
	19	10	14	14	15	15	7	7	10	11	13	11	9	11	33
	22	7	9	8	6	9	7	6	6	8	9	7	6	7	33
	ALL HRS	10	11	9	8	10	7	7	9	9	11	9	9	9	33
CEILING	01	2	3	2	0	2	1	3	3	2	2	2	2	2	33
LESS 1000	04	3	3	2	0	1	2	3	3	2	2	2	1	2	33
PT AND/OR	07	3	4	2	1	2	2	4	5	4	4	3	2	3	33
VISIBILITY	10	3	3	2	1	2	1	4	5	4	5	3	2	3	33
LESS 3 MI	13	3	3	2	1	2	1	3	4	4	4	2	3	3	33
	16	3	3	2	1	2	2	3	3	4	5	2	2	3	33
	19	2	3	2	1	1	2	3	4	3	3	2	2	2	33
	22	2	3	2	0	1	2	3	2	3	2	2	2	2	33
	ALL HRS	3	3	2	1	2	1	3	4	3	3	2	2	2	33
CEILING	01	2	3	2	0	2	1	3	3	2	2	2	2	2	33
LESS 500	04	3	3	2	0	1	2	3	3	2	2	2	1	2	33
PT AND/OR	07	3	3	2	1	2	2	3	5	4	3	3	2	3	33
VISIBILITY	10	3	3	2	1	1	1	4	5	3	5	3	2	3	33
LESS 1 MI	13	3	3	2	1	1	1	3	4	4	4	2	3	3	33
	16	3	3	2	1	2	1	3	4	4	4	2	2	3	33
	19	2	3	2	1	1	2	3	3	3	2	2	2	2	33
	22	2	3	2	0	1	1	3	2	3	2	2	2	2	33
	ALL HRS	3	3	2	1	1	1	3	4	3	3	2	2	2	33
CEILING	01	2	3	2	0	1	1	3	3	2	2	2	2	2	33
LESS 100	04	3	3	2	0	1	2	3	3	2	2	2	1	2	33
PT AND/OR	07	3	3	1	1	2	1	3	5	3	3	3	2	3	33
VISIBILITY	10	3	3	2	1	1	1	4	5	3	4	3	2	3	33
LESS 1/4 MI	13	3	3	2	1	1	1	3	4	4	4	2	3	3	33
	16	3	3	2	1	2	1	3	4	4	4	2	2	3	33
	19	2	2	2	1	1	1	3	3	3	2	2	2	2	33
	22	2	3	2	0	1	1	3	2	3	2	2	2	2	33
	ALL HRS	3	3	2	1	1	1	3	4	3	3	2	2	2	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	77.2P	79.6	81.3P	81.7	81.8	82.3	79.9	77.8	75.3	M
1946	76.2	75.7	76.4	76.8	79.5	80.6	82.4	82.0	81.7	81.2	78.0	76.3	78.9
1947	76.3	76.0	76.8	78.5	79.9	81.3P	83.0P	84.4P	83.4	83.0	81.2	78.6P	M
1948	77.1	77.3P	78.4	79.1	82.1	83.2	84.6	83.3	82.7	81.9	81.6P	78.1	M
1949	76.7	76.3	78.2	77.8	80.3P	81.7	82.0	81.7	80.0P	78.5	78.2	M	M
1950	76.3	75.6	75.3	75.8	78.3	80.9	81.0	81.6	80.7	80.2	77.5	75.2	77.9
1951	75.3	75.4	75.4	77.6	79.3	81.4	82.0	83.0	83.4	82.2	80.4	77.6	78.9
1952	76.6	75.2	77.0	78.1	81.0	82.1	82.8	83.1	82.8	82.9	79.4	76.8	79.5
1953	75.0	75.8	76.4	79.0	80.1	81.7	82.4	82.8	82.0	81.0	81.1	79.4P	M
1954	78.7	77.1	79.4	80.5	82.0	83.8	85.0	85.2	84.9	81.1P	80.5	77.2	M
1955	75.4	76.8	77.3	78.4	81.1	82.6	83.9	84.3	83.6	81.9	80.3	77.8	80.3
1956	72.4	74.2	76.0	80.3	81.9	83.2	84.5	84.6	84.2	82.0	79.8	78.7	80.5
1957	78.0	78.0	78.8	80.8	82.4	83.1	84.6	85.2	84.9	82.3	81.1	78.1	81.5
1958	75.6	73.5	76.9	81.5	83.6	84.4	85.6	85.3	84.6	82.6	81.6	79.5	81.4
1959	77.8	76.3	79.9	81.8	82.6	84.2	84.8	84.4	84.7	83.9	81.2	78.1	81.9
1960	77.7	78.6	78.8	81.5	83.8	83.1	85.4P	83.6	84.2	82.9	80.8	78.5	M
1961	77.7	78.8	79.3	81.6	82.5	84.1	85.0	85.1	83.7	81.1	78.9	77.5	81.3
1962	77.9	77.1	77.4	80.9	81.4	84.2	85.6	84.6	84.5	83.5	79.6	77.8	81.2
1963	76.1	78.1	79.8	80.7	82.6	84.6	84.3	84.6	83.1	81.1	80.1	78.9	80.9
1964	77.6	78.4	80.7	80.9	84.0	84.6	84.8	85.2	82.2	80.3	77.4	81.3	
1965	76.7	76.5	78.5	78.7	80.4	82.6	83.7	84.1	83.9	82.6	80.5	77.6	80.3
1966	76.4	77.3	78.9	81.3	81.4	83.7	83.9	84.5	84.5	82.2	77.4	76.7	80.7
1967	77.5	77.3	75.5	78.6	78.7	80.3	82.1	81.4	82.1	81.1	78.9	76.1	78.9
1968	76.8	73.4	76.6	79.1	80.0	81.6	82.0	82.5	81.8	81.2	79.7	76.3	78.6
1969	75.4	76.3	77.4	80.0	81.2	81.7	82.7	82.1	82.2	81.0	77.9	75.2	79.2
1970	74.4	76.7	76.2	79.0	79.3	81.5	82.1	82.3	81.0	80.8	78.9	77.7	79.0
1971	75.8	76.3	76.8	79.4	81.9	82.6	82.5	82.0	81.0	79.9	78.7	76.7	79.5
1972	76.9	76.3	75.9	77.8	79.6	81.7	82.0	81.4	81.7	81.2	80.6	78.8	79.5
1973	76.8	76.8	78.0	79.0	81.3	81.7	83.1	82.0	81.4	80.5	80.4	75.5	79.6
1974	75.4	76.9	77.9	77.5	78.9	81.0	81.9	80.9	81.5	79.4	76.9	78.9	78.9
1975	76.6	77.0	79.1	80.5	80.7	81.0	83.6	84.8	82.5	80.4	78.4	73.4	79.9
1976	73.9	73.0	76.3	76.6	79.6	80.1	81.0	81.9	82.5	81.0	80.3	77.7	78.8
1977	75.8	77.1	77.8	78.1	78.3	82.2	82.8	82.9	82.9	81.5	80.0	77.6	79.7
MEAN	76.0	76.1	77.9	79.0	80.7	82.3	83.2	83.4	82.9	81.7	79.7	77.1	80.0

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	T	2.54	T	.42	.95	.43	4.98	7.27	2.58	M
1946	T	2.18	3.33	1.88	3.73	2.81	1.38	.97	2.07	1.95	2.86	1.33	24.71
1947	.39	9.40	.68	.47	1.19	.93	1.14	1.48P	8.35	2.38	.30	.01	M
1948	.68	.12P	T	1.22	7.04	17.36	1.71	1.12	13.38	9.21	1.14	T	M
1949	.04	.70	.03	.90	2.93	1.98	.25	2.43	4.99	8.66	1.40	.99	24.23
1950	.01	.99	.09	.83	1.08	2.02	1.69	4.37	9.35	8.08	1.76	.72	26.34
1951	T	.01	.00	.98	7.07	T	1.93	.99	2.35	8.89	.73	1.98	24.24
1952	1.06	.93	.41	9.07	.04	2.24	.75	.30	4.47	3.99	.77	.34	23.25
1953	.11	.29	T	.04	2.30	.87	1.74	2.43	3.39	7.72	.13	.04	21.36
1954	.80P	2.99	1.49	.35	4.91	1.74	.66	.29	7.69	1.90P	1.28	.09	M
1955	.08	T	.97	4.21	.09	2.83	.89	5.88	6.18	9.77	.47	2.92	34.09
1956	.42P	.82	.76	.38	.87	.46	1.08	.92	.17	10.60	1.04	1.81	M
1957	.20	.66	1.68	.39	3.08	2.06	.60	.62	1.09P	1.78	.04	.88	M
1958	4.51	1.70P	3.45	1.81	4.18	1.73	.85	.16P	4.69	4.47	.27	1.10	M
1959	T	T	1.60	.07P	.73	.63	.36	1.76	1.24	1.16	1.92	1.38	M
1960	1.65	1.27	.24	1.38	1.05	8.03	.37P	2.67	9.66	3.47	2.39	.20	M
1961	.30	1.99	2.71	2.59	1.65	.96	2.23	5.87	.78	19.33	.74	3.88	40.99
1962	1.17	.17	.28	.92	.69	1.08	.85	3.08	.74	3.73	.45	1.92	14.80
1963	1.23	.42	.29	2.07	6.93	4.77	.38	1.92	.64	19.83	5.62	.78	44.49
1964	.76	.93	.90	.07	1.96	.96	1.06	4.79	1.30	5.56	.49	.29	18.01
1965	.14	T	.28	.30	4.68	.72	.98	.30	2.49	2.40	.81	.96	14.00
1966	1.65	.06	1.41	.06	4.67	2.52	1.46	1.73	6.19	4.33	4.97	2.22	31.21
1967	.18	.47	2.34	.25	.18	1.79	.21	.02	.04	2.00	1.56	.05	9.29
1968	.33	9.77	1.10	T	.03	2.45	.11	1.11	2.21	1.73	1.05	.09	12.98
1969	2.38	T	.05	.12	7.03	4.12	1.46	1.68	1.30	3.30	3.97	.98	26.98
1970	10.36	.41	.07	.06	1.67	.01	.33	3.87	2.27	2.22	.17	.03	21.05
1971	.16	9.23	2.27	.40	.82	.21	1.39	1.93	3.30	9.76	1.48	.79	31.01
1972	.37	9.13	2.69	1.06	12.33	1.62	1.03	.74	.99	4.96	.06	.76	35.76
1973	.80	1.16	.00	.07	.42	1.93	1.94	1.73	2.10	11.98	1.44	1.03	23.62
1974	.50	.08	.68	2.24	6.10	.55	.78	1.64	1.32	1.69	1.02	.16	16.73
1975	T	T	.68	.00	5.01	2.37	.39	1.20	4.09	.33	1.15	.91	16.73
1976	1.28	.20	.36	3.03	.40	1.81	.22	.93	.20	6.97	.79	1.96	17.87
1977	.29	.06	.12	3.36	18.79	.49	.02	1.79	.39	4.12	1.02	.90	32.91
MEAN	1.01	.83	.96	1.20	3.51	2.23	.96	1.84	3.19	5.04	1.59	1.00	24.20

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45											0		M
45-46	0	0	0	0	0	0	0	0	0	0	0	0	0
46-47	0	0	0	0	0	0	0	0	0	0	0	M	M
47-48	M	M	0	0	0	M	0	M	0	0	0	0	M
48-49	0	0	0	0	M	0	0	0	0	0	0	M	M
49-50	0	0	0	M	0	M	0	0	0	0	0	0	M
50-51	0	0	0	0	0	0	0	0	0	0	0	0	0
51-52	0	0	0	0	0	0	0	0	0	0	0	0	0
52-53	0	0	0	0	0	0	0	0	0	0	0	0	0
53-54	0	0	0	0	0	M	0	0	0	0	0	0	M
54-55	0	0	0	M	0	0	0	0	0	0	0	0	M
55-56	0	0	0	0	0	0	0	0	0	0	0	0	0
56-57	0	0	0	0	0	0	0	0	0	0	0	0	0
57-58	0	0	0	0	0	0	0	0	0	0	0	0	0
58-59	0	0	0	0	0	0	0	0	0	0	0	0	0
59-60	0	0	0	0	0	0	0	0	0	0	0	0	0
60-61	M	0	0	0	0	0	0	0	0	0	0	0	M
61-62	0	0	0	0	0	0	0	0	0	0	0	0	0
62-63	0	0	0	0	0	0	0	0	0	0	0	0	0
63-64	0	0	0	0	0	0	0	0	0	0	0	0	0
64-65	0	0	0	0	0	0	0	0	0	0	0	0	0
65-66	0	0	0	0	0	0	0	0	0	0	0	0	0
66-67	0	0	0	0	0	0	0	0	0	0	0	0	0
67-68	0	0	0	0	0	0	0	0	0	0	0	0	0
68-69	0	0	0	0	0	0	0	0	0	0	0	0	0
69-70	0	0	0	0	0	0	0	0	0	0	0	0	0
70-71	0	0	0	0	0	0	0	0	0	0	0	0	0
71-72	0	0	0	0	0	0	0	0	0	0	0	0	0
72-73	0	0	0	0	0	0	0	0	0	0	0	0	0
73-74	0	0	0	0	0	0	0	0	0	0	0	0	0
74-75	0	0	0	0	0	0	0	0	0	0	0	0	0
75-76	0	0	0	0	0	0	0	0	0	0	0	0	0
76-77	0	0	0	0	0	0	0	0	0	0	0	0	0
77-78	0	0	0	0	0	0	0						
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945							323	327	328	472	394	322	M
1946	353	306	360	396	488	475	544	551	508	510	397	359	5137
1947	357	280	373	410	468	M	M	M	496	562	488	M	M
1948	384	M	429	432	538	552	613	638	560	521	M	614	M
1949	306	276	329	392	432	M	521	594	508	M	412	M	M
1950	295	267	326	390	420	480	503	521	481	477	379	322	4781
1951	262	221	269	385	453	501	535	567	558	563	469	399	5102
1952	302	304	379	398	502	520	554	586	539	560	440	312	5396
1953	313	309	361	423	473	508	567	591	520	503	490	M	M
1954	434	363	459	473	534	571	626	651	564	M	471	396	M
1955	326	328	389	413	505	534	594	605	564	529	467	403	5657
1956	238	250	410	465	529	553	611	617	586	530	451	433	5783
1957	410	392	429	492	544	593	616	642	604	544	488	417	6101
1958	338	241	437	501	585	587	638	635	588	594	509	495	6042
1959	407	407	470	512	553	580	623	610	598	593	493	414	6260
1960	402	401	435	506	589	550	M	646	584	564	481	382	M
1961	399	390	481	505	551	578	626	651	560	505	421	393	6019
1962	408	368	392	492	516	585	647	615	589	581	444	404	6008
1963	351	377	465	481	494	550	615	609	589	508	439	438	5886
1964	396	396	478	482	528	579	613	623	568	539	464	391	6055
1965	307	327	423	420	486	532	587	599	573	532	468	393	5674
1966	379	382	428	497	516	568	590	613	589	561	380	372	5829
1967	396	381	535	526	483	471	535	513	516	506	425	393	5158
1968	308	291	506	507	472	504	536	551	512	511	430	357	5065
1969	329	267	494	495	508	508	539	536	524	505	396	323	5284
1970	301	279	536	485	492	501	540	542	489	493	425	399	5204
1971	343	390	574	561	481	515	551	550	519	504	496	496	5390
1972	377	352	541	501	461	507	534	517	507	507	478	436	5389
1973	372	379	613	487	509	510	570	535	498	487	488	353	5401
1974	327	287	591	540	440	487	531	500	484	517	438	376	5198
1975	386	365	442	471	492	484	583	617	534	483	408	287	5490
1976	282	298	553	538	462	498	505	532	532	500	462	401	5162
1977	342	347	404	400	417	524	584	565	525	516	455	397	5448
MEAN	347	320	494	485	492	527	571	577	544	524	448	382	5551

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

GUANTANAMO BAY, CUBA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
11706	Guantanamo Bay, Cuba	19°54'N	75°09'W	51	MUGM	78367

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Second deck of land plane hangar at McCalla Field	NAS		1953	19°54'N	75°09'W	65.9	Mercurial	24
2.	First deck of the land plane hangar McCalla Field	"	1953	1966	"	"	53.8	"	24
3.	Second deck of bldg. AV-32 on the second floor	"	1966	1976	"	"	69.1	"	24
1a.	NWSED (AV-32)	"	1966	1972	"	"	71.3	Aneroid	24
2a.	" " (new ML-448/UM)	"	1972	1976	"	"	"	"	24
3a.	NWSED (AV-600)	"	1976		"	"	66.0	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Main roof of the land plane hangar	AN/UMQ-5		58'	1. Barograph (ML-3A) 2. Theodolite (ML-427)
2.	1962	Approximately 1300' from north end of McCalla runway (01-09) and 500' west of centerline	AN/UMQ-5C	RD-108C	19'	3. Radiosonde/Rawinsonde set (AN-GMD-1B) 4. APT (GRK-7) 5. Rain Gauge (ML 217)
3.	1976	Approximately 1200 yds from east end of runway 27, 160 yds north of center line	AN/UMQ-5	"	56' MSL	6. Electric psychrometer (ML 450)
3a.	1977	Located on mast above AV-150	"	none	144' MSL	

NWSD, Federal Building
Asheville, N. C.

AD-A076 976 NAVAL OCEANOGRAPHY COMMAND DETACHMENT ASHEVILLE NC F/G 4/2
U.S. NAVY AND MARINE CORPS METEOROLOGICAL STATION CLIMATIC SUMM--ETC(U)
OCT 79

UNCLASSIFIED NL

2 OF 3
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AD 76976

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Outlying Landing Field, Imperial Beach, California is located on a coastal plain in the extreme southwestern section of the state. The Pacific Ocean is one mile west and the Mexican border 2 miles south. The city of San Diego is 15 miles north.

Imperial Beach is characterized by a sub-tropical climate with very dry summers and rain occurring during the winter season. The most significant precipitation amounts occur in November, December, January, and February. The dry season extends from May through October. On rare occasions an extra-tropical storm may move into this area in late August or September from the south, bringing moderate east to southeast winds and heavy rainfall.

The station is subject to daily land and sea breezes. The sea breeze commences 2 to 4 hours after sunrise and is experienced as a westerly wind with an average speed of 10 knots. Land breezes normally begin 2 to 4 hours after sunset and are generally lighter than sea breezes. The approach of a cold front may increase the local winds from the south or southwest and they may reach speeds of 30 to 40 knots. After the frontal passage the winds diminish at the station as they shift to the north or northwest even though offshore they may continue to maintain speeds in excess of 30 knots. When "Santa Ana" winds occur, normally during the fall and winter months, there is a sharp increase in temperature as winds begin blowing from the Mojave Desert. The humidity may decrease to 15% or less. Winds generally are sustained at 18 to 24 knots with gusts in excess of 30 knots from the east or southeast.

Thunderstorms at the station in the summer are infrequent and usually very weak. They occur with greatest frequency in the interior and are usually confined to the higher mountains and southeastern desert areas. During the winter they are rare but sometimes accompany cold frontal passages.

Flying conditions in the local area are generally excellent throughout the year. Visual Flight Rules (VFR) may be expected to prevail at the station on an average of 86% of the time in all seasons. Conditions over the operating area to seaward and the mountainous areas inland are somewhat less favorable. The most important weather phenomena, from a flying standpoint, is the frequent stratus and fog conditions along the Southern California coast. These conditions occur most frequently and over extended periods during the summer.

A local phenomena called the Catalina Eddy has a critical effect on fog and stratus along the coast from Santa Barbara to the Mexican border. The stratus layer is carried farther north and inland than would normally be expected.

Snow has been recorded once. A trace was observed in December 1967.

IMPERIAL BEACH, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: IMPERIAL BEACH, CAL
LOCATION : N32 34 W117 07

PERIOD: APR 45-DEC 77
ELEV : 23

STN LTRS: KNRS
WBAN # : 93115
WMO # :

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			VAPR PRESS	RELATIVE HUM		DEW PT	PRESS ALT	SFC PVLG	WINDS		MEAN NUMBER OF DAYS OCCURRENCE OF:											
	MEAN DAILY		MON EXTREMES			M O N T H			MAX 24 HRS	MN	MAX	MAX 24 HR	IN OF HG	04 LST	19	DEG F	FEET 99.95%	DRCTN	SPEED MN	MAX	AMT CLD IN TENTH	PRECIP .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER DAYS	VSBY FOG <7MI	MAX DEG > 90	F = AND > 75	MIN AND < 55	< 40
	MAX	MIN		MAX	MIN	MEAN	MAX	MIN																							
JAN	63	45	54	86	26	1.3	5.9	#	1.6	0	0	0	.29	78	62	44	250	E	6	48	5	6	1	0	0	0	14	0	2	30	7
FEB	63	47	55	83	32	1.0	3.1	#	1.1	0	0	0	.31	82	64	46	250	E	6	38	5	5	1	0	0	#	11	0	1	26	3
MAR	63	49	56	84	33	1.0	3.1	#	1.6	0	0	0	.34	83	66	48	250	W	6	44	5	5	#	0	0	#	12	0	1	29	2
APR	65	52	59	90	34	.8	3.2	#	1.2	0	0	0	.37	83	66	51	250	W	7	48	5	4	#	0	0	#	11	#	1	23	#
MAY	67	56	62	92	44	.2	1.2	.0	1.0	0	0	0	.40	82	67	53	200	W	7	37	6	2	#	0	0	0	8	#	1	13	0
JUN	68	59	64	89	46	.1	.5	.0	.4	0	0	0	.45	85	70	56	400	W	6	27	7	1	0	0	0	#	14	0	1	4	0
JUL	72	62	67	85	52	.1	.8	.0	.5	0	0	0	.52	88	71	60	200	W	6	28	6	#	0	0	0	#	17	0	6	1	0
AUG	74	64	69	86	56	.1	2.1	.0	1.4	0	0	0	.56	87	71	62	200	W	5	26	5	#	#	0	0	#	16	0	12	#	0
SEP	74	62	68	108	51	.2	2.3	.0	1.1	0	0	0	.54	86	71	61	300	W	5	30	5	1	#	0	0	#	16	#	9	2	0
OCT	71	57	64	105	35	.3	1.7	#	.6	0	0	0	.45	83	68	56	300	W	5	41	5	2	#	0	0	#	17	1	5	12	#
NOV	68	50	59	99	35	1.1	6.4	.0	1.9	0	0	0	.35	79	63	49	200	E	6	51	4	4	1	0	0	#	15	#	4	25	2
DEC	64	46	55	85	31	1.1	4.4	#	1.4	#	#	#	.30	80	62	45	250	E	6	44	4	5	1	0	0	#	16	0	2	29	5
ANN	68	54	61	108	26	7.3	6.4	.0	1.9	#	#	#	.40	83	67	53	300	W	6	51	5	35	4	0	0	#	167	1	45	194	19
EYR	25	25	25	25	25	24	24	24	24	24	24	24	13	29		22	22	22	22	22	23	21	24	24	24	24	19	19	25	25	25	25

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA %	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	31	34	36	48	67	85	68	66	60	46	34	33	51	13
LESS 5000	04	30	35	45	56	75	90	83	77	63	49	36	29	56	15
FT AND/OR	07	31	38	49	58	78	86	81	79	64	53	34	29	58	28
VISIBILITY	10	24	28	34	37	47	50	37	31	34	32	24	23	34	29
LESS 5 MI	13	18	21	24	23	31	37	21	20	24	22	19	20	23	29
	16	18	22	26	29	38	42	24	21	21	24	19	19	25	26
	19	25	24	32	36	51	52	32	28	28	26	23	26	32	23
	22	28	30	38	45	56	67	42	41	43	38	31	32	41	16
	ALL HRS	25	28	35	40	53	60	46	42	40	35	26	25	38	22
CEILING	01	9	9	9	10	8	22	24	20	18	15	12	13	14	13
LESS 1000	04	9	9	13	14	13	26	35	28	24	17	13	10	18	15
FT AND/OR	07	11	11	12	13	16	27	33	32	24	20	11	9	19	28
VISIBILITY	10	6	6	7	8	8	13	15	13	11	10	6	7	9	29
LESS 3 MI	13	4	5	7	6	5	9	7	7	8	8	6	6	6	29
	16	5	6	6	6	6	9	7	6	6	6	6	7	7	26
	19	7	5	6	5	9	11	10	9	6	4	7	8	7	23
	22	7	7	8	6	6	14	12	10	9	11	9	12	9	16
	ALL HRS	7	7	8	8	9	15	17	15	13	11	8	8	11	22
CEILING	01	4	4	3	4	1	2	2	1	2	7	5	8	3	13
LESS 200	04	4	3	4	4	2	2	3	2	4	6	6	5	4	15
FT AND/OR	07	6	6	4	3	3	2	2	2	4	6	5	4	4	28
VISIBILITY	10	2	2	2	3	2	1	0	1	1	2	3	3	2	29
LESS 1/2 MI	13	2	1	2	3	2	2	0	2	2	3	3	3	2	29
	16	2	2	2	3	2	2	1	1	1	3	3	3	2	26
	19	3	1	2	2	2	2	0	1	0	2	3	4	2	23
	22	3	2	1	1	1	1	0	0	1	4	3	6	2	16
	ALL HRS	3	3	3	3	2	2	1	1	2	4	4	4	2	22
CEILING	01	3	3	2	3	1	1	1	1	1	6	4	6	2	13
LESS 100	04	4	2	3	3	2	1	1	1	2	5	4	4	3	15
FT AND/OR	07	4	4	3	2	3	1	1	1	2	4	4	3	3	28
VISIBILITY	10	2	2	2	3	2	1	0	1	1	2	3	3	2	29
LESS 1/4 MI	13	2	1	2	3	2	2	0	2	1	2	3	2	2	29
	16	1	2	2	3	2	2	1	1	1	2	2	2	2	26
	19	2	1	2	2	2	1	0	1	0	1	2	3	2	23
	22	2	1	1	1	1	1	0	0	0	3	3	5	2	16
	ALL HRS	2	2	2	2	2	1	1	1	1	3	3	3	2	22

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	M	M	M	55.3	M	63.6	66.7P	69.3	68.5	65.4	56.9P	55.2	M
1949	51.9P	50.3P	54.6	59.2	62.2	M	M	M	M	M	M	M	M
1947	50.1P	54.8P	57.0P	60.2	62.0	M	64.1	M	67.7	62.7	56.0	54.0P	M
1948	M	M	M	57.8	60.1	63.2	64.3	66.0	M	M	M	M	M
1949	52.9	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	55.5P	54.1	M	
1956	57.0	50.3	53.6	56.9	61.9	63.6	67.2	67.7	67.4	62.8	59.8	55.0	59.9
1957	54.1	56.8	55.8	58.1	61.2	65.4	68.5	70.0	67.3	62.8	57.0	57.0	61.2
1958	59.2	57.5	55.3	60.7	63.3	65.9	67.5	70.8	69.8	68.2	59.4	58.0	62.6
1959	56.6	54.8	60.3	63.0	63.0	66.1	70.7	70.7	69.4	64.6	62.2	57.3	63.2
1960	52.3	53.7	56.7	59.5	61.9	64.1	67.9	68.9	69.2	63.2	58.0	53.4	60.7
1961	58.2	56.7	56.6	58.8	59.8	62.6	67.7	69.1	66.0	63.5	57.7	53.6	60.8
1962	54.6	54.2	53.1	58.6	59.5	61.9	65.7	67.5	65.8	61.9	57.4	54.1	59.5
1963	53.3	59.0	58.5	56.7	61.9	63.3	66.3	69.3	71.5	65.6	59.4	56.7	61.6
1964	55.7	54.1	55.3	57.7	58.6	61.7	65.6	68.2	69.8	66.1	57.1	53.7	59.8
1965	54.9	53.5	56.4	58.4	60.2	61.2	64.1	68.4	65.2	66.7	60.7	55.4	60.4
1966	52.8	53.2	56.4	60.2	63.3	66.3	68.7	71.6	67.9	65.6	60.2	55.8	61.8
1967	55.4	55.5	57.0	59.4	60.5	61.7	67.5	70.4	70.7	65.7	62.4	53.5	61.1
1968	54.9	57.4	57.2	59.1	61.3	63.3	69.8	71.1	68.9	61.9	59.7	52.1	61.4
1969	54.7	54.9	54.4	60.4	61.6	63.9	64.8	70.1	69.3	64.0	65.2	58.4	61.7
1970	57.4	59.9	58.0	57.9	63.9P	64.8	69.2	M	66.7	62.3	57.9	51.6	M
1971	51.3	52.9	53.5	56.1	58.5	59.7	62.6	66.6	65.7P	61.2	55.7	50.8	M
1972	49.0	54.7	58.7	59.5	62.1	65.3	69.3	70.8	64.9	60.4	55.9	54.8	60.4
1973	55.0	58.0	55.1P	58.5	61.0	64.6	65.2	66.2	64.8	60.6	54.7	52.4	M
1974	52.9	53.9	55.2	60.8	64.2	66.1	72.7	71.2	70.9	68.0	62.1	56.3	62.9
1975	54.9	54.1	55.6	56.7	59.5	61.4P	65.0	66.3	68.4	62.8P	57.5	53.0	M
1976	55.7P	56.1	54.1	56.7	60.9	M	M	M	69.6P	65.9P	63.1P	57.6P	M
1977	56.8	56.8	59.9	57.6	60.9	64.2P	68.2P	M	68.8P	66.7P	62.0P	61.3P	M
MEAN	54.2	55.4	55.9	58.4	61.3	63.7	67.1	69.1	67.9	64.0	58.8	54.6	60.9

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	M	M	M	M	M	T	.80	T	T	T	T	T	M
1946	T	M	T	T	.00	M	M	M	M	M	M	M	M
1947	M	M	M	M	T	M	M	M	M	M	.00	M	M
1948	M	M	M	M	.00	T	.00	.00	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	.90	M
1956	1.00	.22	T	2.07	.09	T	T	T	.00	.44	.00	.21	4.03
1957	5.99	.37	1.00	1.15	.72	.47	T	T	.04	1.72	.83	1.06	13.29
1958	.45	3.09	3.07	2.27	.56	.00	.00	.04	.34	.03	.49	.05	10.39
1959	.20	3.05	T	.35	.02	.02	T	T	T	.34	.02	1.23	5.23
1960	3.01	1.12	.40	.49	.21	T	T	T	.21	.18	1.05	.90	6.97
1961	.90	.02	.85	.01	.04	.05	T	.08	T	.01	.72	2.03	4.71
1962	2.88	2.32	.57	T	.49	.04	T	T	T	T	.07	.92	6.69
1963	.02	1.04	1.03	.68	T	.51	T	.05	2.25	.12	2.32	T	8.02
1964	1.02	.26	1.13	.46	.16	T	T	T	T	T	1.87	.98	5.28
1965	.31	.80	1.51	3.22	T	.02	.06	T	.12	T	6.42	4.40	16.66
1966	1.25	.92	.12	T	T	.31	.02	.00	T	.54	1.54	2.58	7.28
1967	1.76	T	1.41	2.57	.06	.10	.07	.04	T	T	3.47	1.90	11.38
1968	.61	.02	2.03	.44	.04	.02	.09	T	.00	.02	.24	.65	4.76
1969	3.37	3.07	.92	.22	.18	.01	T	.01	T	.02	.85	.28	8.93
1970	.87	1.31	1.90	.27	.04	T	T	T	T	.07	2.33	2.18	8.97
1971	.39	1.15	.08	.72	.47	T	T	T	.05	.42	.08	1.55	4.91
1972	T	.08	.01	.10	.14	.43	T	.01	.18	.72	1.53	1.72	4.92
1973	1.91	1.78	1.48	.08	T	T	T	T	T	T	1.26	.11	7.12
1974	1.80	.01	1.95	T	T	.01	.03	T	T	.49	.33	1.25	5.87
1975	.38	.30	1.83	1.29	.03	.01	.01	T	.08	.27	1.03	.34	5.77
1976	T	3.30P	1.07	.81	.20	T	.01	T	1.50	.36	1.29	.68	M
1977	2.40	.05	1.16	.02	1.15	.03	.00	2.10	.01	.78	.02	1.55P	M
MEAN	1.32	1.03	1.04	.75	.18	.08	.05	.10	.21	.28	1.14	1.05	7.23

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										284		27	M
45-46	M	0	10	32	M	299	M	M	316	168	80	M	M
46-47	M	M	M	M	M	M	M	M	M	191	88	M	M
47-48	5	M	2	75	260	M	M	M	M	214	145	93	M
48-49	25	0	M	M	M	M	376	M	M	M	M	M	M
49-50	M	M	M	M	M	M	M	M	M	M	M	M	M
49-50	M	M	M	M	M	M	M	M	M	M	M	M	M
50-51	M	M	M	M	332	397	416	348	296	110	46	M	
51-52	0	1	2	89	176	302	330	225	277	200	113	21	1736
52-53	0	1	3	65	232	243	298	205	290	130	49	5	1521
53-54	0	0	0	14	162	223	252	280	162	58	58	4	1191
54-55	0	0	0	29	91	235	287	317	255	170	92	21	1597
55-56	9	9	1	79	207	349	213	224	231	181	134	71	1739
56-57	4	9	13	91	220	348	318	297	363	187	103	88	2092
57-58	7	9	11	94	221	330	362	170	288	239	88	46	1856
58-59	5	0	0	24	160	295	341	309	295	220	192	93	1894
59-60	16	9	5	24	231	343	314	315	260	193	141	106	1948
60-61	30	1	12	37	128	293	372	325	259	139	48	5	1449
61-62	4	0	13	91	220	348	318	297	363	187	103	88	2092
62-63	7	0	11	94	221	330	362	170	288	239	88	46	1856
63-64	5	0	0	24	160	295	341	309	295	220	192	93	1894
64-65	16	9	5	24	231	343	314	315	260	193	141	106	1948
65-66	30	1	12	37	128	293	372	325	259	139	48	5	1449
66-67	0	0	3	31	185	279	351	241	239	209	150	90	1888
67-68	0	0	0	30	79	330	308	213	226	175	107	46	1344
68-69	5	0	4	96	154	393	282	275	319	134	98	30	1788
69-70	32	0	0	38	66	201	227	138	208	208	M	15	M
70-71	0	M	21	58	210	410	417	334	351	260	195	193	M
71-72	69	5	M	198	267	435	391	292	188	138	86	12	M
72-73	0	0	25	139	268	309	301	192	M	187	98	27	M
73-74	16	6	29	135	305	383	367	310	297	117	26	2	1989
74-75	0	0	0	8	111	263	308	301	286	244	165	M	M
75-76	19	9	1	M	224	367	M	295	272	241	119	M	M
76-77	M	M	M	M	M	M	292	225	337	216	124	M	M
77-78	M	M	M	M	M	M							
MEAN	11	1	7	69	187	316	330	267	276	199	112	46	1811

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945				0		2		142	121	49		1	M
1944	M	M	0	0	0	M	M	M	M	M	M	M	M
1947	M	M	M	12	0	M	47	M	93	11	0	M	M
1948	M	M	M	4	0	6	9	39	M	M	M	M	M
1949	4	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	0	M
1956	0	0	0	0	21	12	71	92	81	24	28	0	329
1957	0	2	0	0	0	44	118	139	77	5	0	0	405
1958	0	2	0	4	5	40	85	184	149	120	0	12	603
1959	0	0	3	4	2	46	182	184	137	23	12	7	600
1960	0	0	1	8	1	2	106	128	136	29	2	0	413
1961	8	0	0	2	0	4	93	133	51	90	11	0	352
1962	3	0	0	1	0	0	37	82	42	4	0	0	169
1963	6	8	0	0	0	1	51	143	203	49	0	5	466
1964	0	0	0	8	0	0	40	107	36	62	3	0	256
1965	4	0	0	0	0	0	10	110	27	99	2	1	253
1966	0	0	0	0	3	51	119	209	96	57	22	0	557
1967	0	0	0	0	16	0	84	171	179	57	6	0	513
1968	2	0	0	4	0	3	161	196	129	8	0	0	503
1969	0	0	0	0	0	5	34	164	106	15	18	2	344
1970	0	2	0	0	M	14	137	M	76	9	2	0	M
1971	0	0	0	0	0	0	3	63	M	45	0	0	M
1972	0	0	0	0	1	25	142	187	27	3	0	0	385
1973	0	0	M	0	0	21	24	48	30	4	0	0	M
1974	0	8	0	1	5	40	243	199	182	108	34	0	820
1975	1	0	0	0	0	M	23	47	109	M	7	0	M
1976	M	4	0	0	0	M	M	M	M	M	M	M	M
1977	0	1	0	0	0	M	M	M	M	M	M	M	M
MEAN	1	1	0	2	2	15	83	133	99	40	7	1	384

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

IMPERIAL BEACH, CALIFORNIA

STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
93115	Imperial Beach, California	32°34'N	117°07'W	23	KNRS	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1951	1968	32°34'N	117°07'W	28	Aneroid	Var
2.	Weather office	"	1968		"	"		"	"
1a.	Weather service office	"	1955	1956	"	"	29	Mercurial	"
2a.	" " "	"	1956	1963	"	"	27	"	"
3a.	Inside bulkhead of ops bldg	"	1963	1968	"	"	27	"	"
4a.	West wall in weather office	"	1968	1968	"	"	21	"	"
5a.	*New ML-512/GM installed west wall in weather office 12/69	"	1969	1976	"	"	21	"	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
		NOTE: Wind vane oriented 30° west of true North prior to 12/20/55.				1. Barograph (open scale)
1.		Mounted on roof of operation control tower	AN/UMQ-5B		50' MSL	2. Semi-auto met sta (AN/GMQ-14B)
2.	1955	Top control tower(new transmitter)	AN/UMQ-5B	RD-108B	50' MSL	3. Cloud height set (AN/GMQ-13)
3.	1962	Adjacent to runway 09R (2200 WSW of operations building)	AN/UMQ-5C	"	31' MSL	
4.	1966	Same	"	"	23' MSL	
5.	1968	*Adjacent to runway 09R (4280' WSW of ops bldg) (new ops bldg 8/26/68)	"	"	23' MSL	
6.	1968	Adjacent to runway 09R, 4280' WSW of ops bldg	"	"	9'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Air Station Iwakuni is located on the southwestern section of the island of Honshu, Japan, approximately 19 miles south-southwest of Hiroshima. The station is built on a delta bounded on the east and south by the Inland Sea, to the north by the Imazu River and to the west and southwest by the Monzen River.

The combination of hills in close proximity to the station on the west and the large body of water within one-half mile of the runway to the east has a significant effect on the local climate. Air drainage down the valley and across the delta produces prevailing night wind from the west-northwest at 3 to 7 knots. During the late spring, summer, and early autumn, a daily sea breeze from the southeast is observed from mid-morning to shortly after sunset. During the winter, the hills protect the station from the severity of Arctic and Polar outbreaks.

Iwakuni experiences two seasonal weather regimes and two transitional periods. The winter season is November to mid-May and the summer season is late June or early July to late September.

The mean annual precipitation is 65.2 inches with the greatest amounts falling during June and July. The month of December has the lowest mean monthly precipitation. The average number of days with a measurable amount of precipitation is 121 days annually. Thunderstorms occur on an average of 13 days out of the year. Snow may fall from November through March, but the amounts are small and much of the snow melts upon contact with the surface.

Fog occurs most frequently during June. Smoke will create a visibility problem with a northeast wind during the early morning hours on 7 to 9 days a month throughout the year, this is due to the heavy industrial area to the northeast of the station.

The most frequently occurring wind direction is west-northwest. Iwakuni generally has good flying weather.

IWAKUNI, JAPAN

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: IWAKUNI, JAPAN
LOCATION : N34 09 E132 14

PERIOD: NOV 52-DEC 77
ELEV : 8

STN LTRS: RJOI
WBAN # : 47324
WMO # : 47764

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL				RELATIVE HUM		VAPR PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN AMT CLD TENTH	PRECIP .01 GTR	PRECIP .5 GTR	SNOWFALL .1 GTR	SNOWFALL 1.5 GTR	T HUS NT DM ES R	V S B Y FOG	MAX DEG > 90	F ° < 75	MIN AND < < 40	32
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX	MAX 24 HR		04	13																		
JAN	48	34	41	64	20	2.5	5.5	.2	2.4	1	6	4	76	60	.17	31	350	W	5	44	6	8	2	2	#	#	8	0	0	27	12
FEB	49	35	42	70	19	2.8	6.7	.4	2.4	1	12	9	76	60	.18	32	300	WNW	5	35	6	9	2	1	#	0	10	0	0	23	10
MAR	55	40	47	73	24	4.9	11.5	.5	2.8	#	3	3	76	60	.22	37	400	WNW	5	54	6	11	3	#	#	1	12	0	0	18	8
APR	64	50	57	84	33	8.1	13.9	2.2	3.4	#	#	#	78	64	.32	47	450	WNW	4	42	7	12	5	0	0	1	15	0	2	3	#
MAY	72	57	65	87	43	4.9	14.8	2.1	6.2	0	0	0	80	66	.44	55	550	NW	4	32	7	13	5	0	0	1	17	0	9	0	0
JUN	77	65	71	91	53	10.9	20.5	3.1	7.8	0	0	0	85	73	.58	63	550	S	3	31	8	12	5	0	0	1	18	#	21	0	0
JUL	85	74	80	96	54	9.1	22.6	1.6	6.4	0	0	0	86	75	.79	72	550	S	4	30	7	13	5	0	0	3	16	7	30	0	0
AUG	88	75	81	100	62	9.3	12.3	.1	6.1	0	0	0	83	70	.82	73	600	WNW	4	60	6	9	3	0	0	3	12	10	31	0	0
SEP	81	68	75	92	51	6.7	15.4	.2	4.2	0	0	0	84	68	.64	66	500	WNW	4	56	7	11	4	0	0	2	14	1	26	0	0
OCT	72	57	64	87	37	4.1	9.6	1.0	6.6	0	0	0	80	61	.42	54	350	WNW	5	34	6	8	3	0	0	1	10	0	9	#	0
NOV	62	47	55	79	32	3.0	6.8	.1	2.3	#	#	#	80	60	.30	45	250	WNW	3	35	5	8	2	#	0	#	9	0	#	5	#
DEC	53	38	46	69	25	1.7	4.3	.2	1.7	#	1	1	77	59	.21	36	250	WNW	5	48	5	7	1	#	0	#	7	0	0	21	5
ANN	67	53	60	100	19	69.8	22.6	.1	7.8	2	12	9	80	65	.37	51	600	WNW	4	60	6	121	40	3	#	13	148	18	128	97	32
EYR	23	23	23	23	23	29	23	23	23	23	23	23	25	25	25	25	25	25	25	20	25	23	23	23	23	24	24	23	29	29	23

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.3DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	24	26	24	28	28	31	30	20	27	17	16	18	24	25
LESS 5000	03	27	30	27	30	30	34	32	25	31	19	17	18	27	25
FT AND/OR	06	31	33	29	36	33	37	37	29	34	22	19	20	30	25
VISIBILITY	09	29	28	26	34	32	35	38	29	31	21	21	22	29	25
LESS 5 MI	12	40	43	39	32	29	32	33	25	27	25	27	32	32	25
	15	43	42	34	30	28	30	28	23	25	26	28	33	31	25
	18	29	27	27	28	26	30	27	19	26	20	21	22	25	25
	21	25	25	23	27	26	31	26	17	24	17	16	18	23	25
	ALL HRS	31	32	29	30	29	32	31	23	28	21	21	23	28	25
CEILING	00	1	4	3	4	4	5	2	1	2	1	1	1	2	25
LESS 1000	03	1	3	4	6	4	5	4	1	1	1	1	1	3	25
FT AND/OR	06	1	4	4	7	5	7	5	1	2	1	1	1	3	25
VISIBILITY	09	2	4	4	6	6	6	3	2	2	4	4	2	4	25
LESS 3 MI	12	3	5	5	5	4	5	2	3	5	5	6	4	4	25
	15	6	6	5	5	4	4	3	4	4	7	7	5	5	25
	18	3	4	5	5	5	4	3	3	3	2	2	1	3	25
	21	1	3	3	5	5	5	2	1	1	1	1	1	2	25
	ALL HRS	2	4	4	5	5	5	3	2	3	3	3	2	3	25
CEILING	00	0	1	1	2	1	1	1	0	0	0	0	0	1	25
LESS 500	03	0	1	1	2	1	2	1	0	0	0	0	1	1	25
FT AND/OR	06	0	1	1	2	2	2	1	1	0	1	0	0	1	25
VISIBILITY	09	1	2	2	3	1	1	1	1	1	3	3	1	2	25
LESS 1 MI	12	3	3	2	2	1	1	1	2	3	5	5	3	3	25
	15	5	4	3	3	2	1	2	4	3	7	6	4	4	25
	18	1	1	3	2	3	1	2	3	2	1	1	1	2	25
	21	0	1	1	2	2	1	0	0	0	0	0	0	1	25
	ALL HRS	1	2	2	2	2	1	1	1	1	2	2	1	2	25
CEILING	00	0	0	0	0	0	0	0	0	0	0	0	0	0	25
LESS 200	03	0	0	0	0	0	1	0	0	0	0	0	0	0	25
FT AND/OR	06	0	0	1	1	1	0	1	0	0	0	0	0	0	25
VISIBILITY	09	1	1	1	1	0	0	0	1	1	3	3	1	1	25
LESS 3/4 MI	12	3	3	1	1	1	1	1	2	3	5	5	3	2	25
	15	4	4	3	2	2	1	2	4	3	7	6	4	3	25
	18	1	1	2	1	1	0	1	3	2	1	1	0	1	25
	21	0	0	1	0	0	0	0	0	0	0	0	0	0	25
	ALL HRS	1	1	1	1	1	0	1	1	1	2	2	1	1	25

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1934	M	M	M	M	M	M	M	M	M	61.9	57.2	46.6	M
1935	39.7	44.1	49.3	57.4	66.5	73.4	79.8	81.6	74.8	64.0	52.5	47.6	60.7
1936	41.0	40.0	47.2	53.7	62.4	70.9	79.6	79.0	76.4	63.1	52.4	41.7	59.1
1937	43.4	44.5	44.9	58.5	62.6	70.2	78.1	80.6	74.7	63.2	53.7	46.4	59.6
1938	41.3	43.2	46.9	56.9	64.9	72.1	79.9	79.6	75.7	63.0	55.2P	48.3	M
1939	40.8	40.3	49.5	56.9	65.0	72.5	79.7	81.7	76.4	63.6	56.9	47.1	61.6
1940	41.7	43.7	50.4	55.0	64.5	71.3	81.1	82.4	75.1	64.5	56.6	44.5	61.0
1941	39.2	40.6	49.0	57.1	65.0	72.3	82.5	82.9	76.0	66.6	56.7	46.3	61.6
1942	40.2	43.2	47.1	54.7	63.9	69.3	79.0	81.5	76.9	63.4	53.6	46.4	59.8
1943	36.1	37.7	46.1	56.8	65.7	72.0	79.7	80.2	71.6	62.2	54.1	47.2	59.1
1944	44.0	38.6	46.9	63.2	65.6	70.1	82.1	83.4	76.3	65.1	53.9	46.2	61.3
1945	40.9	41.3	44.9	53.2	64.0	70.3	78.7	80.2	70.2	61.8	55.1	44.6	58.8
1946	40.4	43.1	49.0	55.9	63.6	69.2	76.4	79.9	71.7	65.4	53.2	43.6	59.3
1947	40.3	41.6	47.7	56.9	65.9	72.7	79.1	83.3	75.6	63.0	56.3	41.1	60.2
1948	40.5	37.0	46.4	57.3	64.6	70.7	77.2	80.3	72.9	62.1	55.0	49.9	59.4
1949	42.4	42.6	45.2	57.2	65.3	69.1	77.9	81.5	76.2	63.2	52.7	43.9	59.7
1950	39.6P	43.8	49.7	53.2	64.6	68.7	78.7	81.5	77.2	64.9	53.2	46.6	M
1951	40.9	41.5	49.7	56.6	62.4	71.2	80.5	80.6	M	62.6	55.6	45.7	M
1952	45.6	44.1	47.4	56.0	64.5	70.2	78.6	79.2	72.7	63.5	53.6	45.7	60.0
1953	44.0	43.2	48.1	60.2	64.0	70.6	82.0	83.0	72.8	63.9	53.0	41.9	60.7
1954	40.8	40.5	45.6	57.3	65.3	69.8	78.1	82.1	73.7	65.0	53.1	46.2	59.8
1955	40.9	41.1	46.6	58.1	64.3	72.0	80.4	82.6	80.2	67.2	57.7	47.9	61.6
1956	41.6	40.2	48.5	56.4	65.7	72.3	78.6	81.0	69.9	63.1	50.7	43.8	59.8
1957	38.4	39.1	47.9	57.7	64.8	70.8	80.4	79.3	75.3	64.1	56.7	47.7	60.2
MEAN	41.1	42.2	47.1	57.0	64.4	70.9	79.5	81.2	74.4	64.1	54.5	45.6	60.2

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1934	M	M	M	M	M	M	M	M	M	2.17	1.88	1.82	M
1935	1.05	9.93	3.19	10.47	4.21	9.48	8.53	2.52	7.85	9.60	2.15	.94	63.92
1936	3.54	1.21	7.63	6.09	9.16	15.42	8.55	10.39	8.00	3.62	1.79	.26	76.86
1937	2.87	2.78	1.51	9.61	9.76	11.83	22.56	4.79	13.83	2.44	2.13	3.22	87.13
1938	3.93	9.04	5.98	11.23	4.34	9.38	5.57	11.07	2.08	2.86	3.44	1.83	58.57
1939	2.03	9.44	4.99	6.34	7.12	3.05	10.61	6.35	4.27	4.32	2.00	4.27	62.01
1940	1.93	.44	4.12	7.13	8.62	11.04	8.79	2.12	8.83	2.82	2.99	.81	57.62
1941	2.91	2.48	3.38	8.66	6.39	7.05	7.73	5.61	5.68	5.98	3.28	1.06	62.12
1942	1.45	1.73	1.27	3.03	8.16	14.17	16.87	6.23	3.38	6.17	4.43	2.62	72.48
1943	1.19	.01	2.88	4.23	14.75	10.80	3.27	12.28	9.48	5.78	2.26	.97	70.21
1944	3.75	9.14	4.19	7.32	2.24	14.62	2.48	4.35	4.74	4.48	2.08	1.88	55.44
1945	1.60	1.38	1.60	6.73	11.08	17.21	11.50	4.00	10.02	3.21	6.47	2.99	78.29
1946	2.90	9.48	11.51	6.03	7.78	11.57	5.08	1.45	13.44	2.26	2.18	1.10	74.97
1947	2.44	1.01	8.38	12.84	2.93	4.36	16.10	.13	.19	4.33	4.88	.18	59.99
1948	1.78	2.80	4.20	2.20	2.14	8.11	11.02	3.46	10.04	4.22	1.88	3.96	58.41
1949	4.24	9.05	2.86	4.43	2.89	13.08	18.53	1.09	1.78	1.90	2.84	1.10	56.89
1950	1.01P	2.36	1.99	9.59	8.09	20.90	6.98	7.80	6.38	5.67	1.70	1.26	M
1951	2.01	9.66	4.09	2.02	8.89	8.40	11.33	0.35	M	3.10	.10	1.42	M
1952	4.49	3.46	4.33	7.90	7.72	15.32	12.61	12.22	6.61	6.63	4.61	1.86	94.79
1953	5.52	9.37	.32	10.82	7.63	7.92	1.62	2.12	8.16	3.66	.89	.26	52.09
1954	.90	4.16	3.98	5.91	3.90	9.47	13.09	9.96	7.73	6.83	1.71	2.31	69.87
1955	2.34	1.62	3.91	8.36	3.89	14.86	3.03	3.86	4.88	6.45	3.06	1.41	59.35
1956	.70	4.48	3.26	10.24	9.86	6.83	3.25	3.16	8.99P	5.89	3.28	M	M
1957	.18	1.76	9.91	13.94	6.60	12.10	2.32	6.14	2.38	.98	2.88	1.93	60.40
MEAN	2.46	9.78	4.32	8.06	6.96	10.75	9.07	5.90	6.70	4.15	3.00	1.73	65.24

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
53-54													M
54-55	M	M	M	101	226	569	776	578	478	224	56	0	M
55-56	0	0	0	79	370	534	736	717	546	276	89	0	3347
56-57	0	0	0	52	369	716	667	679	615	202	86	7	3393
57-58	0	0	6	72	271	571	727	602	554	244	77	0	3122
58-59	0	0	0	96	M	504	743	511	472	235	41	0	M
59-60	0	0	0	33	264	548	714	550	447	294	46	0	2978
60-61	0	0	0	55	253	628	795	678	490	235	43	1	3178
61-62	0	0	0	26	247	566	762	606	539	305	67	2	3120
62-63	0	0	0	95	334	572	890	759	979	239	64	0	3532
63-64	0	0	2	98	322	563	646	726	574	100	38	0	3069
64-65	0	0	2	58	326	575	728	648	618	248	62	0	3275
65-66	0	0	4	109	294	625	754	552	490	275	68	7	3178
66-67	0	0	9	47	347	656	758	649	528	240	33	0	3265
67-68	0	0	0	88	309	735	751	803	459	223	55	0	3503
68-69	0	0	1	110	292	663	692	616	604	234	25	4	3041
69-70	0	0	0	97	363	680	M	587	484	287	49	1	M
70-71	0	0	1	99	367	622	761	654	605	263	76	1	3359
71-72	0	0	M	82	280	589	593	601	534	268	60	0	M
72-73	0	0	1	67	335	594	644	565	517	157	62	1	2923
73-74	0	0	0	90	356	707	765	679	592	221	38	1	3429
74-75	0	0	0	46	349	575	739	660	562	208	34	0	3193
75-76	0	0	0	29	213	524	718	556	504	253	33	0	2832
76-77	0	0	3	81	426	653	819	720	522	216	64	0	3504
77-78	0	0	0	18	253	526							
MEAN	0	0	1	70	310	594	724	637	568	240	57	1	3192

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1934													
1935	0	0	0	1	45	259	466	516	502	13	0	0	M
1936	0	0	0	3	13	185	459	441	285	64	0	0	1845
1937	0	0	0	12	18	167	412	491	183	23	0	0	1494
1938	0	0	0	7	40	222	474	459	329	42	M	0	1306
1939	0	0	0	0	47	232	463	526	350	56	9	0	M
1940	0	0	0	1	40	198	506	548	307	48	1	0	1881
1941	0	0	0	8	50	227	569	582	398	144	4	0	1849
1942	0	0	0	0	59	140	437	517	302	51	0	0	1937
1963	0	0	0	4	91	219	464	477	307	22	0	0	1496
1964	0	0	0	54	66	159	537	576	348	66	1	0	1984
1965	0	0	0	0	58	168	485	477	165	16	2	0	1807
1966	0	0	0	11	30	139	389	466	209	49	0	0	1318
1967	0	0	0	3	68	238	445	382	326	33	0	0	1285
1968	0	0	0	0	20	175	386	481	244	30	0	0	1695
1969	0	0	0	8	44	184	468	520	343	36	0	0	1836
1970	M	0	0	0	40	122	432	518	373	73	0	0	1490
1971	0	0	0	0	26	190	484	488	M	13	0	0	M
1972	0	0	0	8	22	163	424	448	238	29	0	0	1332
1973	0	0	0	20	36	176	536	366	239	61	1	0	1635
1974	0	0	0	0	34	155	413	535	268	52	0	0	1477
1975	0	0	0	8	39	215	485	547	461	103	0	0	1858
1976	0	0	0	3	33	225	424	504	137	29	0	0	1425
1977	0	0	0	2	33	178	483	450	318	55	8	0	1527
MEAN	0	0	0	7	44	186	454	508	289	50	1	0	1841

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

IWAKUNI, JAPAN

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
43324	Iwakuni, Japan	34°09'N	132°14'E	8	RJOI	47764

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office (operations bldg)	NS		1962	34°09'N	132°14'E	10	Mercurial	24
2.	Relocated in weather office	MCAF	1962	1964	"	"	9.4	"	24
3.	New barometer installed	"	1964	1966	"	"	9.4	"	24
4.	Relocated in weather office	"	1966		"	"	9.4	"	24
1a.	Weather office (operations bldg)	"	1962	1966	"	"	12	Aneroid	24
2a.	Mounted in GMQ-14B cabinet	"	1966	1972	"	"	12	"	24
3a.	GMQ-14B cabinet	"	1972		"	"	12	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Roof of operations building	AN/UMQ-5	none	58'MSL	1. Barograph (ML 3) 2. Semi-auto met sta (AN/GMQ-14B) 3. Ceiling light (ML-121) 4. Cloud height set (RO-121/GMQ-13) 5. Theodolite (ML-474) 6. Transmissometer (1D-820/GMQ-10C) 7. Rain gauge (ML 217) 8. APT (GRK-7)
2.	1958	855' west of the runway center line and 3800' north of the south end of the runway	AN/UMQ-5C	RD-108B	20'MSL	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station, Jacksonville, Florida is located on the west bank of the St. Johns River, about 14 miles inland from the Atlantic Ocean and 5.5 miles south of the city of Jacksonville. The surrounding terrain is nearly level with an average elevation of 30 feet. Easterly and southerly winds blowing about 50% of the time produce a maritime influence that modifies to some extent the heat of summer and the cold of winter. The station seldom experiences strong winds or severe cold waves. Exceptional weather at Naval Air Station Jacksonville is occasioned by infrequent "Noreasters" along the northeast Florida coast marked by winds 20 - 30 knots, low stratus clouds, and drizzle. These occur mainly during the winter and sometimes persist for several days.

Good flying conditions (VFR) are experienced 92% of the time. The months of lowest percentage of VFR conditions are December and January with 85%. Contributing factors to these two months are "Nor-easters" and stalling cold fronts that create low stratus, light rain and/or drizzle along with fog. During the period of April through September, marginal flying conditions rarely occur for periods in excess of an hour.

June, July, August, and September are the hottest months with mean temperatures averaging near 80 degrees F. December, January, and February are the coolest months, with mean temperatures near 58 degrees F. On hot days, either an afternoon thunderstorm or a southeasterly sea breeze usually reaches this area about midday. Night temperatures in summer are usually comfortable, very rarely failing to drop below 80 degrees F.

Rainshowers associated with thunderstorms supply the majority of the precipitation for this area. Snow has been observed but is very rare.

Prevailing wind direction is north in the autumn and winter months and south and east in spring and summer. Most hurricanes reaching this latitude tend to move parallel to the coastline, keeping well out to sea, or to lose much of their force moving over land before reaching this area.

JACKSONVILLE, FLORIDA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: JACKSONVILLE, FLORIDA
LOCATION : N30 14 W81 40

PERIOD: JAN 45-DEC 77
ELEV : 22

STN LTRS: KNIP
WBAN # : 93837
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL INCHES			RELATIVE HUM		VAP PRESS IN DF	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD TENTH	PRECIP INCHES .01 DR GTR	PRECIP INCHES .5 DR GTR	SNOWFALL .1 DR GTR	SNOWFALL 1.5 DR GTR	T HUNDS	V SBY FOG <7MI	MAX DEG > 90	MAX DEG > 80	MIN AND MIN < 40	MIN AND MIN < 32
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MEAN	MAX 24 HRS	MIN	MN	MAX 24 HR	MAX	04	13																
JAN	66	47	57	87	19	2.4	6.2	#	3.1	#	#	80	59	.31	46	350	N	7	47	5	7	2	0	0	1	15	0	3	8	3
FEB	68	49	59	89	24	3.0	6.0	.4	3.5	#	#	78	55	.31	46	400	N	7	55	5	7	2	0	0	2	11	0	3	6	2
MAR	74	54	64	92	29	3.1	11.2	.2	5.4	#	#	77	52	.37	51	400	S	7	55	5	8	2	0	0	3	10	#	10	2	#
APR	80	61	70	93	40	2.4	6.1	.7	2.4	0	0	78	50	.47	57	300	ESE	7	52	5	6	2	0	0	4	9	1	17	#	0
MAY	86	67	77	100	50	3.4	13.1	.6	6.3	0	0	80	52	.60	64	300	ESE	7	57	5	9	2	0	0	7	9	8	27	0	0
JUN	89	72	81	102	60	5.3	12.5	1.4	3.9	0	0	84	58	.74	70	250	E	7	62	6	12	3	0	0	11	7	14	29	0	0
JUL	91	74	83	100	64	6.0	11.4	1.9	3.6	0	0	85	61	.79	72	150	S	6	69	6	15	4	0	0	15	5	20	31	0	0
AUG	90	75	83	100	64	7.2	17.9	2.7	5.9	0	0	86	62	.82	73	200	S	6	66	6	15	5	0	0	14	8	18	30	0	0
SEP	87	73	80	98	55	6.1	12.4	.2	5.5	0	0	85	64	.77	71	450	NE	7	70	6	13	4	0	0	7	10	9	28	0	0
OCT	80	64	72	96	38	3.6	11.0	.1	5.2	0	0	84	60	.56	62	350	N	7	67	5	8	2	0	0	2	14	1	18	#	0
NOV	73	54	64	88	21	1.5	3.3	#	2.2	0	0	82	58	.40	53	450	N	7	47	5	6	1	0	0	1	14	0	7	3	1
DEC	67	48	57	87	14	2.3	7.0	#	2.3	#	#	81	60	.32	47	400	N	7	42	5	7	1	0	0	1	15	0	2	8	2
ANN	79	61	71	102	14	44.3	17.9	#	6.3	#	#	82	58	.50	59	400	N	7	70	5	113	30	0	0	68	127	71	205	27	8
EYR	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	32	31	33	33	32	33	33	33	33	29	29	33	33	33	33

REMARKS: #DATA NOT AVAILABLE. # LESS THAN 0.5DAY>0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	24	21	17	13	8	7	4	6	13	16	18	23	14	33
LESS 5000	04	30	27	24	16	12	8	5	7	14	18	23	28	18	33
FT AND/OR	07	35	32	30	21	16	13	8	11	18	25	28	33	22	33
VISIBILITY	10	35	30	26	26	25	28	26	25	35	30	25	30	28	33
LESS 5 MI	13	30	31	30	33	37	46	47	47	50	40	28	29	37	33
	16	25	27	25	23	28	32	34	35	32	29	21	23	28	33
	19	22	21	18	16	16	19	17	18	22	19	18	22	19	33
	22	21	19	16	12	10	10	8	10	15	18	16	22	15	33
	ALL HRS	28	26	23	20	19	20	19	20	25	24	22	26	23	33
CEILING	01	14	8	7	4	2	1	1	1	3	4	10	12	6	33
LESS 1000	04	16	13	11	6	4	2	1	3	5	7	11	14	8	33
FT AND/OR	07	19	18	14	10	7	5	3	5	7	12	15	17	11	33
VISIBILITY	10	18	13	9	3	1	2	1	2	5	8	9	13	7	33
LESS 3 MI	13	8	7	4	2	1	1	1	2	2	4	4	7	4	33
	16	7	7	4	2	2	2	1	3	3	3	4	7	4	33
	19	9	7	6	4	1	2	1	2	4	4	6	8	5	33
	22	9	9	6	3	2	1	0	2	1	4	6	10	4	33
	ALL HRS	12	10	8	4	2	2	1	3	4	6	8	11	6	33
CEILING	01	8	4	4	2	1	0	0	0	1	2	5	7	3	33
LESS 500	04	11	8	6	3	2	0	0	1	1	5	7	9	4	33
FT AND/OR	07	13	9	7	5	2	2	1	2	3	5	10	9	6	33
VISIBILITY	10	9	6	3	1	0	0	0	0	1	2	3	5	3	33
LESS 1 MI	13	3	2	1	0	0	0	0	0	0	1	1	3	1	33
	16	2	1	1	0	1	1	0	1	0	0	1	2	1	33
	19	4	3	2	1	0	0	0	1	1	1	2	4	2	33
	22	5	3	2	1	0	0	0	0	0	1	3	6	2	33
	ALL HRS	7	5	3	2	1	0	0	1	1	2	4	6	3	33
CEILING	01	2	1	1	0	0	0	0	0	0	0	1	3	1	33
LESS 100	04	3	2	2	1	0	0	0	0	0	1	2	3	1	33
FT AND/OR	07	4	2	2	1	0	0	0	0	0	1	3	3	1	33
VISIBILITY	10	1	1	0	0	0	0	0	0	0	0	0	0	0	33
LESS 1/4 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	33
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	33
	19	0	0	0	0	0	0	0	0	0	0	0	1	0	33
	22	2	1	0	0	0	0	0	0	0	0	0	2	0	33
	ALL HRS	2	1	1	0	0	0	0	0	0	0	1	1	1	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	56.6	63.2	72.5	74.2	78.2	82.0	82.9	82.7	82.2	73.7	64.0	56.6	72.0
1946	58.7	59.8	66.8	71.1	77.0	80.2	82.4	82.3	78.2	73.1	69.8	61.8	71.9
1947	65.1P	61.0	68.1	74.1	77.5	80.6	80.9	82.7	80.0	74.8P	66.9	59.5	M
1948	52.6	60.2	67.4	73.5	78.6	82.2	82.3	81.4	78.0	69.6	70.1	62.4	71.7
1949	61.6	62.3	64.0	70.2	77.1	80.49	83.3	82.4	78.9	76.7	68.3	60.6	M
1950	60.5	63.2	68.3	66.1P	78.1	83.3	81.8	82.3	78.8	74.0	69.1	62.0	M
1951	57.9	57.7	64.6	68.1	78.8	81.6	83.0	84.7	81.1	74.3	68.0	61.2	70.9
1952	61.0	58.7	64.5	67.5	77.3	83.1	84.1	82.7	78.9	69.3	68.2	58.9	70.9
1953	58.4	60.8	68.0	69.6	81.0	81.6	82.5	81.7	79.7	71.2	62.2	58.9	71.2
1954	58.7	61.0	62.6	73.1	76.9	82.6	84.0	83.5	81.5	71.1	59.9	53.9	70.7
1955	56.7	59.0	65.8	71.8	77.8	82.1	82.9	82.9	80.9	71.4	63.1	56.1	70.6
1956	51.8	63.9	63.5	68.6	77.6	79.7	82.7	83.6	77.3	71.7	61.0	62.4	70.3
1957	60.9	64.8	62.5	70.6	76.7	81.0	82.2	81.1	80.7	68.9	66.0	55.3	70.9
1958	49.2	49.1	60.9	70.3	78.2	82.2	83.9	83.0	82.1	70.1	67.3	56.0	69.1
1959	55.6	62.6	61.9	70.4	78.3	81.5	82.9	83.3	78.8	76.7	69.1	56.1	70.6
1960	56.9	56.0	66.6	71.9	78.2	80.0	83.2	83.4	79.9	73.0	67.0	51.5	69.8
1961	52.3	61.1	67.4	66.3	78.4	79.6	82.8	82.0	80.4	70.7	66.1	57.8	70.0
1962	55.3	63.8	61.0	68.5	78.4	80.5	84.9	83.7	81.2	72.0	58.2	51.7	70.1
1963	52.8	51.0	64.0	71.0	78.5	82.6	83.9	83.5	78.5	71.4	63.4	51.1	69.9
1964	56.4	54.2	64.2	70.7	76.9	82.6	81.2	81.1	77.9P	68.2	63.8	59.8	M
1965	55.5	57.3	61.6	71.0	75.8	77.0	79.3	80.5	77.9	70.4	65.7	56.6	69.1
1966	56.0	57.7	62.2	70.2	75.4	77.7	80.0	82.2	78.8	74.3	63.4	56.9	69.5
1967	57.7	56.2	65.8	72.1	78.1	78.0	80.3	80.0	76.4	70.3	62.7	61.3	69.6
1968	54.5	60.9	59.7	71.9	78.2	79.2	80.9	81.0	79.6	73.9P	60.8	54.2	M
1969	54.9	53.2	57.9	71.1	76.8	82.8	84.2	81.1	79.3	73.9	59.8	53.5	68.9
1970	49.2	54.2	64.7	72.8	76.9	78.6	82.1	82.0	80.0	74.8	59.3	59.0	69.7
1971	59.4	58.7	60.3	67.2	76.3	81.4	83.5	82.9	81.3	78.1	64.4	66.8	71.1
1972	63.6	67.8	64.8	71.1	78.5	79.1	81.0	79.1	78.1	70.0	65.2	61.7	70.4
1973	57.3	55.1	66.7	66.5	75.6	80.8	82.9P	81.8	81.5	73.7	67.5	55.2	M
1974	70.4	67.7	67.4	69.6	77.4	79.3	80.6	81.1	78.7	67.9	62.8	56.1	70.8
1975	59.3	62.0	62.2	68.8	77.4	80.3	80.0	81.6	78.7	73.1	63.4	55.7	70.2
1976	51.6	60.8	68.0	67.7	78.2	77.8	82.8	80.9	78.5	67.1	58.2	54.2	68.3
1977	45.6	52.4	67.2	69.1	76.8	82.6	83.4	82.3	81.4	68.3	64.6	54.8	68.9
MEAN	56.5	58.9	65.9	70.3	78.4	80.7	82.5	82.2	79.7	71.9	63.3	57.2	70.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	2.67	.40	.26	2.77	1.76	6.87	8.86	10.21	8.85	1.88	.48	7.06	52.30
1946	1.80	1.19	4.39	2.93	5.97	5.83	9.33	12.11	6.12	2.16P	1.07P	.14	M
1947	3.48	4.40	4.38	4.08	3.80	5.96	7.48	7.97	10.98	10.20P	2.71	2.98	M
1948	3.39	1.14	11.20	2.10	1.03	3.91	6.83	9.20	7.22	4.31	1.17	3.84	54.44
1949	.60	4.19	.91	5.85	1.67	2.31P	4.96	11.91	7.79	1.96	3.14	.91	M
1950	.08	.80	3.87	1.78P	2.48	5.36	10.01	2.73	9.79	4.48	.18	2.08	M
1951	.27	2.86	1.90	1.18	1.32	4.77	9.30	3.30	7.19	6.99	2.70	2.19	39.16
1952	.89	4.04	1.02	2.23	4.61	3.26	4.42	7.07	7.07	2.55	.88	.73	40.87
1953	4.15	2.12	2.96	0.82P	.92	1.43	8.26	14.01	8.23	4.04	1.07	3.79	M
1954	.69	3.04	1.07	1.00	1.46	5.90	1.69	5.00	3.96	6.52	.88	.78	28.19
1955	3.38	3.16	1.76	3.38	2.19	4.28	4.48	6.90	7.46	0.17	1.27	.82	44.82
1956	2.96	2.98	.26	2.96	3.33	3.48	6.38	3.63	3.88	11.01	.01	T	44.09
1957	.17	1.78	4.27	1.90	4.72	5.44	11.42	11.63	7.61	2.86	1.48	.39	52.87
1958	3.21	4.09	5.78	4.52	4.17	2.88	2.62	6.91	1.60	4.22	2.16	4.67	46.79
1959	5.25	4.63	5.19	2.64	13.31	9.02	4.32	5.97	10.82	2.56	1.87	1.09	64.87
1960	1.78	3.14	6.28	2.86	.61	5.31	9.89	3.46	10.03	3.06	.84	1.90	48.78
1961	3.18	5.67	1.62	3.00	2.30	9.46	4.99	4.90	1.79	.22	1.00	.03	38.90
1962	1.56	.70	2.79	.76	.72	2.97	8.01	6.61	3.56	2.72	1.32	1.04	33.97
1963	4.11	6.33	8.25	.97	2.57	5.75	9.02	5.19	4.60	.56	1.08	2.10	52.63
1964	3.78	4.86	.99	3.34	5.71	4.39	3.84	7.26	12.61	3.63	2.61	5.06	59.69
1965	1.08	4.56	2.38	.78	1.28	6.98	3.85	5.23	4.12	2.88	1.46	3.63	37.95
1966	3.68	5.50	1.19	2.88	10.39	7.96	5.37	4.07	4.18	1.65	.65	.90	48.82
1967	2.18	1.74	.48	1.05	12.28	7.08	8.87	3.80	1.08	.09	4.80	4.80	48.17
1968	.18	1.07	.98	1.20	3.86	9.95	5.00	17.55	1.16	7.78P	2.62	1.16	M
1969	.39	3.07	3.07	1.03	3.02	4.43	6.39	12.73	3.02	6.23	1.97	3.71	57.04
1970	3.38	4.02	7.01	1.84	1.84	1.27	4.30	7.39	2.79	3.13	.04	1.30	41.00
1971	1.86	3.10	2.01	3.23	2.91	9.28	0.78	5.96	9.28	2.89	1.04	2.96	46.64
1972	3.26	2.68	3.68	2.78	4.73	9.72	5.07	5.92	.19	4.42	2.93	2.58	46.16
1973	2.31	2.06	0.25	3.21	2.08	6.66	4.98P	6.88	3.35	3.30	.02	2.68	M
1974	.26	1.19	3.49	.95	3.19	6.99	8.20	4.07	5.69	.03	1.98	1.99	37.29
1975	3.04	2.76	3.01	3.83	4.59	10.92	7.90	4.93	9.60	8.74	.67	2.10	59.21
1976	3.44	1.26	2.05	1.37	7.49	3.08	4.72	2.72	0.18	1.27	2.19	4.88	40.62
1977	2.77	3.60	1.30	1.39	3.14	5.86	5.75	4.22	7.66	1.08	3.91	3.67	41.57
MEAN	2.43	2.93	3.13	2.43	3.41	5.30	5.96	7.17	6.08	3.39	1.68	2.32	46.22

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45							269	120	5	13	2	0	M
45-46	0	0	0	9	138	315	199	147	56	10	0	0	869
46-47	0	0	0	1	32	123	M	384	219	2	0	0	M
47-48	0	0	0	M	69	191	333	170	63	0	0	0	M
48-49	0	0	0	12	23	121	104	93	127	5	0	M	M
49-50	0	0	0	0	153	156	21	105	129	M	0	0	M
50-51	0	0	0	0	229	366	221	228	89	33	0	0	1165
51-52	0	0	0	2	202	139	177	99	90	40	0	0	839
52-53	0	0	0	45	103	280	216	144	35	18	0	0	841
53-54	0	0	0	32	138	220	217	127	176	4	0	0	904
54-55	0	0	0	35	172	360	320	185	112	4	0	0	1188
55-56	0	0	0	19	113	283	405	99	121	24	0	0	1064
56-57	0	0	0	5	175	140	180	95	123	13	6	0	737
57-58	0	0	0	66	66	295	484	448	137	15	4	0	1409
58-59	0	0	0	20	38	277	352	139	141	19	0	0	982
59-60	0	0	0	5	137	276	268	262	291	15	2	0	1256
60-61	0	0	0	1	37	412	386	167	57	73	0	0	1133
61-62	0	0	0	20	69	257	317	82	172	47	0	0	964
62-63	0	0	0	34	212	406	384	289	108	11	0	0	1444
63-64	0	0	0	13	108	433	326	306	88	17	0	0	1291
64-65	0	0	M	37	56	184	295	232	181	10	0	0	M
65-66	0	0	0	21	49	246	339	216	127	14	0	0	1012
66-67	0	0	0	5	131	313	234	251	61	7	1	0	1007
67-68	0	0	0	2	6	122	196	318	406	201	1	0	1210
68-69	0	0	0	M	179	352	302	330	229	3	0	0	M
69-70	0	0	0	0	168	296	488	296	94	13	0	0	1355
70-71	0	0	0	0	102	160	305	218	188	60	3	0	1146
71-72	0	0	0	0	24	93	118	226	67	22	3	0	593
72-73	0	0	0	13	121	183	275	277	59	50	0	0	978
73-74	M	0	0	21	49	320	11	298	49	32	0	0	M
74-75	0	0	0	20	126	291	204	136	134	40	0	0	981
75-76	0	0	0	0	161	304	411	166	33	20	0	0	1101
76-77	0	0	0	46	273	337	993	351	68	23	0	0	1694
77-78	0	0	0	48	102	332							
MEAN	0	0	0	17	123	261	285	217	117	21	1	0	1062

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945	0	77	251	295	554	549	591	557	523	354	111	1	3583
1946	43	10	114	196	378	440	565	566	488	259	182	30	3197
1947	M	0	11	279	387	473	498	551	487	M	95	16	M
1948	6	27	146	262	430	523	577	518	488	156	102	27	3310
1949	64	98	108	146	389	M	573	595	487	368	24	28	M
1950	132	59	81	M	414	557	523	550	411	288	59	5	M
1951	6	92	86	184	468	506	566	518	486	297	80	90	3172
1952	15	53	96	179	387	467	500	554	424	151	56	4	3127
1953	16	30	133	169	503	557	523	620	522	61	45	45	3185
1954	27	71	108	292	512	596	598	643	501	231	28	3	3282
1955	9	21	144	213	503	620	539	563	483	223	62	15	3107
1956	2	72	82	138	490	467	554	586	576	219	39	60	3000
1957	61	94	94	198	377	486	539	509	478	172	105	1	3069
1958	0	6	18	180	528	522	593	566	522	187	113	3	3098
1959	10	74	32	187	420	502	560	572	490	574	88	9	3278
1960	13	8	38	217	529	486	570	576	484	316	104	2	3083
1961	1	61	137	65	527	443	560	535	467	304	110	40	2992
1962	20	108	54	157	421	472	625	584	494	264	13	0	3216
1963	12	3	84	196	486	555	590	563	411	219	67	3	3201
1964	8	0	78	193	513	527	510	507	M	144	87	91	M
1965	9	22	82	197	360	364	488	486	595	193	77	0	2617
1966	8	19	44	173	537	586	566	540	621	501	92	3	2890
1967	16	12	97	226	552	598	679	674	508	179	58	50	3649
1968	3	2	44	211	539	630	601	504	468	M	57	23	M
1969	0	5	13	193	510	540	602	503	483	288	20	6	2883
1970	4	1	93	262	513	613	536	567	565	313	28	28	3083
1971	13	48	48	138	504	497	580	563	498	350	92	118	3242
1972	85	18	67	211	573	651	604	599	573	134	89	54	2827
1973	41	7	116	105	537	483	M	524	500	296	129	33	M
1974	185	39	127	178	588	637	496	503	418	126	67	22	2986
1975	34	39	71	161	600	672	673	521	618	266	120	83	3018
1976	5	46	164	106	561	591	599	498	608	126	19	8	2982
1977	0	8	142	136	503	527	578	543	499	144	97	13	3029
MEAN	28	36	90	185	501	478	568	543	468	257	80	26	3098

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

JACKSONVILLE, FLORIDA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93837	Jacksonville, Florida	30°14'N	81°40'W	22	KNIP	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, second deck of operations building	Navy	1950	1959	30°14'N	81°40'W	30	Mercurial	24
2.	In old tower, two decks above roof of operations building	"	1959	1962	"	"	57	"	24
3.	Weather service office, second deck of operations building	"	1962	1968	"	"	30	"	24
4.	NWSF Building 118	"	1968	1976	"	"	41	"	24
1a.	Weather service office	"			"	"	43.7	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Unknown	Atop operations control tower, disassembled 1956.	Selsyn	Triple	82'	1. Barograph (marine) 2. Auto met sta (AN/GMQ-29) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13B) 5. Transmissometer (AN/GMQ-10C) 6. Radar (AN/FPS-106) 7. Weather Vision (AN/GMQ-27)
2.	1955	Installed 18' above main roof on operations building	AN/UMQ-5	RD-108	40'	
3.	1958	Atop operations control tower	"	"	70'	
4.	1960	On Tacan Bldg near center of field	"	"	22'	
5.	1977	Adjacent to southwest corner of Bldg 935 near center of field	AN/UMQ-5C	RO 447/ GMQ-29	14'	
6.	1978	2000 ft NW of NAS TACAN	"	RO 447/ GMQ-29	14'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Weather Service Environmental Detachment Kadena is located on Kadena Air Base on the island of Okinawa, Japan. Okinawa is the largest link in the Ryukyu Island chain which geographically separates the East China Sea from the Pacific Ocean. To the northeast lie the islands of mainland Japan; the Asiatic mainland is to the northwest. Taiwan is located to the west-southwest, and the Philippines are to the southwest, with the Pacific Ocean extending to the east. The Kuroshio current flows northward around Okinawa and modifies air masses so that extreme temperatures are not experienced.

The island is 67 miles long and varies from sixteen to two miles in width. The northern two-thirds is comprised of rugged mountains covered with lush forest vegetation; the average height of these mountains is 1500 feet. The southern third of the island consists of coral escarpments, cultivated patches, small rolling hills, with ridges oriented across the island. Practically the entire population, both civilian and military, live in the southern section.

Okinawa experiences two principal seasons, summer and winter, which are monsoonal in nature. The weather of a particular summer or winter depends on the intensity of the Pacific and Siberian pressure cells. The polar front or trough divides these two air masses. Okinawa experiences southerly winds and maritime tropical air in the summer and northerly winds with modified continental polar air in the winter. The continental polar air is greatly modified during its contact with the warm Kuroshio current. Spring and fall months are transitional months and the type of weather conditions that occur are variable.

The typhoon season for Okinawa begins in late May and lasts through November, with maximum occurrence during August and September. The number of tropical cyclones that affects Okinawa varies greatly from year to year. During an average year two tropical cyclones strike Okinawa with winds in excess of 50 knots; six to seven more approach near enough to produce inclement weather.

KADENA, OKINAWA

PREPARED BY: USAFETAC
APRIL 1979

STATION NAME : KADENA AB OKINAWA JP
LOCATION : N26 21 E127 45

PERIOD: JAN 46-FEB 78 B
ELEV : 140

STN LTRS: RODN
WBAN NO.: 42204
WMO NO. : 47931

AWS CLIMATIC BRIEF

MONTH	TEMPERATURE (°F) MEAN DAILY MAX	MEAN DAILY MIN	MEAN MONTHLY	EXTREME MAX	EXTREME MIN	PRECIPITATION (IN) MONTHLY MEAN	MONTHLY MAX	MONTHLY MIN	MAX 24 HRS	SNOWFALL (IN) MONTHLY MEAN	MONTHLY MAX	MAX 24 HRS	MEAN RELATIVE HUMIDITY (%) 04 LST	13 LST	MEAN VAPOR PRESSURE (IN Hg)	DEW PT (°F)	PRESSURE ALTITUDE (FT) 99.95%	SURFACE WINDS PVLG DRCTN (16 PT)	SPEED MEAN (KT)	SPEED MAX (KT) **	MEAN CLOUD COVER (tenths)	MEAN NUMBER OF DAYS OCCURRENCE OF: PRECIP (IN) ≥ 0.01	≥ 0.5	SNOWFALL (IN) ≥ 0.1	≥ 1.5	THUNDERS	STORMS	FOG VSBY < 7 MI	TEMPERATURE (°F) MAX ≥ 90	≥ 80	MIN ≤ 60	≤ 50
JAN	65	55	60	81	37	4.7	12.9	1.1	4.4	#	#	#	75	64	.38	51	350	N	8	45		15	3	0	0	#	2	0	#	24	4
FEB	66	56	61	83	37	4.4	9.8	1.3	5.1	#	#	#	79	68	.39	52	400	N	8	45		14	2	0	0	#	3	0	#	21	4
MAR	69	58	64	82	42	4.8	11.2	.9	4.5	0	0	0	79	67	.42	54	400	N	8	48		14	3	0	0	1	4	0	1	17	2
APR	75	64	70	87	46	5.9	15.0	.7	4.5	0	0	0	82	69	.56	62	400	E	8	40		13	4	0	0	2	5	0	6	6	#
MAY	80	70	75	90	53	9.5	26.8	.6	5.6	0	0	0	83	70	.67	67	550	E	7	39		16	6	0	0	2	6	#	17	1	0
JUN	84	75	80	93	62	12.7	30.7	3.5	9.4	0	0	0	84	74	.79	72	550	SW	8	48		16	7	0	0	3	5	1	25	0	0
JUL	88	78	83	95@	71	8.6	19.5	.5	9.0	0	0	0	83	70	.88	75	750	SW	8	68		12	4	0	0	3	1	7	31	0	0
AUG	87	78	83	95	69	9.3	21.3	2.2	11.0	0	0	0	85	72	.88	75	850	E	8	96		16	4	0	0	3	2	5	31	0	0
SEP	86	76	81	92	64	7.8	57.6	1.2	42.2	0	0	0	84	70	.82	73	650	ENE	6	74		13	3	0	0	2	1	2	29	0	0
OCT	81	70	76	90	53	6.8	35.0	.7	10.2	0	0	0	81	67	.67	67	450	ENE	7	108		12	3	0	0	1	1	#	21	#	0
NOV	75	65	70	86	52	5.3	16.5	1.7	9.2	0	0	0	77	64	.50	59	350	NE	9	89		12	3	0	0	#	2	0	5	4	0
DEC	69	59	64	81	42	5.1	13.2	.9	9.1	0	0	0	77	63	.42	54	300	N	8	42		14	3	0	0	#	2	0	#	17	1
ANN	77	67	72	95@	37	84.9	57.6	.5	42.2	#	#	#	81	68	.58	63	700	N	8	108	*	167	45	0	0	17	34	15	166	90	11
EYR	32	32	32	32	32	32	32	32	32	32	32	32	10	10	.10	10	10	10	10	19		32	32	32	32	32	32	32	32	32	32	32

REMARKS:

RUSSWO POR:
HRLY OBS: MAR 68-FEB 78
DAILY OBS: JAN 46-FEB 78

(A) TYPHOONS/TROPICAL STORMS
(B) TYPHOONS ONLY
NUMBER OBSERVED WITHIN: 60NM
(POR: 1949-1977) 120NM
240NM

	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B	A/B
	2/2	1/0	5/5	7/5	11/8	9/8	5/5	5/3	1/0	46/36
	2/2	2/1	7/4	9/9	14/11	10/8	7/7	6/3	1/0	58/45
	2/2	6/3	13/9	20/14	29/24	20/19	10/9	8/6	1/0	109/86

1. EXTREMES AND MEANS INCLUDED FROM DET. 8 LCD SUMMARY (4505-6712).
2. 20 WSQ MONTHLY MEATHER SUMMARY (6801-7112)

NOTE: * DATA NOT AVAILABLE # AMTS < UNITS SHOWN IN HEADING ** INSTANTANEOUS PEAK WINDS $ % CALM GRTR % PLVG. DRCTN @ BASED ON < FULL MONTHS

CAV FREQ (%)	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING LESS THAN 3000 FT AND/OR VISIBILITY LESS THAN 3 MI	00-02	10	17	21	19	23	22	10	11	9	7	7	10	14	
	03-05	10	15	23	21	27	28	12	13	8	9	7	12	15	
	06-08	13	17	21	23	26	21	11	11	7	8	8	12	15	
	09-11	11	16	20	22	24	21	11	13	7	10	9	11	15	
	12-14	13	20	21	21	21	21	13	15	11	11	9	11	16	
	15-17	15	19	23	20	21	24	12	14	10	12	10	12	16	
	18-20	16	19	21	18	21	20	9	12	9	10	9	10	15	
	21-23	10	18	19	18	21	19	9	9	8	9	8	9	13	
	ALL HRS	12	18	21	20	23	22	11	12	9	10	8	11	15	10
CEILING LESS THAN 1500 FT AND/OR VISIBILITY LESS THAN 3 MI	00-02	2	5	7	10	14	13	4	3	2	1	2	2	5	
	03-05	2	5	7	11	16	17	6	4	1	2	2	3	6	
	06-08	3	5	7	13	15	12	7	5	2	2	3	3	6	
	09-11	4	5	7	12	12	11	5	5	12	3	4	4	6	
	12-14	4	5	8	9	11	9	5	5	2	4	4	4	6	
	15-17	4	5	8	8	11	13	5	3	3	4	4	4	6	
	18-20	3	6	7	8	12	10	4	2	2	2	3	2	5	
	21-23	2	4	7	9	12	11	4	2	3	1	2	2	5	
	ALL HRS	3	5	7	10	13	12	5	4	2	2	3	3	6	10
CEILING LESS THAN 1000 FT AND/OR VISIBILITY LESS THAN 2 MI	00-02	1	2	4	6	8	6	2	2	#	0	1	1	3	
	03-05	1	3	3	6	8	9	4	2	0	#	1	1	3	
	06-08	2	3	3	7	8	5	4	1	1	1	#	1	3	
	09-11	2	3	4	5	6	4	3	2	#	1	2	2	3	
	12-14	2	3	3	4	5	5	2	2	1	2	2	3	3	
	15-17	2	2	4	4	6	6	2	2	1	1	2	2	3	
	18-20	1	3	3	4	5	5	1	1	1	1	1	1	2	
	21-23	1	1	3	5	5	5	2	1	1	#	1	1	2	
	ALL HRS	2	3	3	5	6	6	3	2	1	1	1	2	3	10
CEILING LESS THAN 200 FT AND/OR VISIBILITY LESS THAN 1/2 MI	00-02	0	0	#	#	#	#	0	#	0	0	0	0	#	
	03-05	0	0	#	#	#	#	#	#	0	0	0	0	#	
	06-08	0	0	1	#	#	#	#	#	#	#	0	0	#	
	09-11	0	#	0	#	#	#	#	#	0	0	0	0	#	
	12-14	0	#	0	0	0	#	0	#	#	0	#	#	#	
	15-17	0	#	#	0	#	#	0	#	0	0	0	0	#	
	18-20	#	0	#	0	#	#	0	0	#	0	0	0	#	
	21-23	0	0	#	0	#	#	0	0	#	#	0	0	#	
	ALL HRS	#	#	#	#	#	#	#	#	#	#	#	#	#	10

AWS FORM 4 62
PREVIOUS EDITION IS OBSOLETE.

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
42204	Kadena AB, Okinawa	26°21'N	127°46'E	138	RODN	47931

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
	All weather equipment belongs to Detachment 8, 30th Weather Squadron, Air Weather Service (AWS). AWS takes and records all weather observations.								

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Air Station Kaneohe Bay, Hawaii is located on Mokapu Peninsula on the northern (windward) coast of the Island of Oahu. The peninsula is bounded by the Pacific Ocean to the north through east and by Kaneohe Bay to the west and southwest. Mokapu Peninsula is generally flat lowland covered by lush tropical growth and surrounded by narrow sandy beaches. Considerable swamp land exists on the southern boundary where the peninsula connects to the island land mass. A small extinct volcano crater rises to an elevation of 683 feet on the northeastern corner of the peninsula.

The range in normal temperature between the warmest month, September and the coolest month, February, averages only 6.0 degrees F. The average daily temperature range is also small. Maxima are usually in the high 70's or low 80's, minima in the high 60's or low 70's.

Because of the persistence and moderate humidity of the northeasterly trade winds, August and September are usually comfortable. Unpleasant weather is more likely later in autumn or early winter when the trades may diminish or give way to southerly winds. During these periods, known locally as "Kona Weather", the humidity may become oppressively high.

Hawaii experiences only two well defined seasons. The summer season runs from May through September and winter from October through April. Summer is characterized by a persistent flow of moderate to fresh northeasterly trades, partly cloudy skies and widely scattered light showers occurring mainly at night and along windward coasts and near higher terrain.

Hawaii provides almost ideal flying weather the year around, with the exception of a few days each year, generally during the winter months.

Obstructions to vision on windward Oahu is nonexistent except during precipitation. Visibility on the leeward side of the island is sometimes reduced slightly due to industrial smoke or the burning of sugarcane fields.

The mean annual precipitation of MCAS Kaneohe Bay is about 38 inches. The months of October through April provide over 75% of the annual total precipitation at the Air Station.

Over the ocean around Hawaii average windspeeds are highest during the summer tradewind period. These winds are from the northeast quadrant 90% of the time. It is during this winter season that light variable winds are most frequent.

On the average, a tropical storm will pass sufficiently close to Hawaii every year or two to affect the weather in some part of the islands. Hurricanes and tropical storms are most likely to occur during the last half of the year from July through December.

KANEOHE BAY, HAWAII

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: KANEOHE BAY, HAWAII
LOCATION : N21 27 W157 47

PERIOD: APR 45-DEC 77
ELEV : 18

STN LTRS: PHNG
WBAN # : 22919
WMO # : 91176

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	SNOWFALL MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR ESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN CLD AMT TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL INCHES .1 OR GTR	SNOWFALL INCHES 1.5 OR GTR	THUNDER DAYS	VSBY FOG <	MAX DEG >	F =	MIN AND <
JAN	78	68	73	87	60	4.7	15.5	.4	8.4	0	0	0	81	69	.60	64	500	ENE	8	83	6	17	2	0	0	1	#	0	27	8	0
FEB	77	68	73	88	60	3.6	16.0	.7	3.9	0	0	0	80	68	.60	64	250	ENE	9	65	6	13	2	0	0	1	0	0	24	7	0
MAR	78	68	73	87	60	4.5	14.3	.5	11.6	0	0	0	81	69	.60	64	200	ENE	10	51	7	17	2	0	0	1	#	0	27	5	0
APR	78	70	74	87	61	4.4	22.2	.8	7.3	0	0	0	80	69	.62	65	150	ENE	11	52	7	17	2	0	0	1	0	0	28	3	0
MAY	80	71	76	87	62	2.1	7.0	.3	3.6	0	0	0	80	69	.64	66	100	ENE	10	41	7	16	1	0	0	#	#	0	31	1	0
JUN	81	73	77	90	67	1.3	2.8	.5	1.3	0	0	0	80	68	.69	68	50	ENE	10	36	6	16	0	0	0	#	0	#	30	1	0
JUL	82	73	78	88	67	1.9	4.3	.5	1.0	0	0	0	80	69	.71	69	50	ENE	11	40	6	19	0	0	0	#	#	0	31	0	0
AUG	83	74	79	89	68	1.7	5.8	.3	2.8	0	0	0	79	68	.71	69	100	ENE	11	46	6	17	0	0	0	#	0	0	31	0	0
SEP	83	73	79	91	68	1.8	4.5	.4	2.2	0	0	0	78	67	.71	69	100	ENE	9	35	6	14	1	0	0	#	0	#	30	0	0
OCT	83	74	78	91	65	2.2	5.4	.7	1.3	0	0	0	80	69	.71	69	150	ENE	9	47	6	15	1	0	0	1	#	#	31	#	0
NOV	81	72	76	90	62	4.7	16.0	.7	9.1	0	0	0	80	70	.67	67	200	ENE	9	47	6	17	2	0	0	1	#	#	30	1	0
DEC	78	69	74	90	60	3.9	9.7	.4	2.5	0	0	0	79	69	.62	65	200	ENE	9	56	6	18	2	0	0	1	#	#	30	4	0
ANN	80	71	76	91	60	37.8	22.2	.3	11.6	0	0	0	80	69	.67	67	200	ENE	10	83	6	196	15	0	0	7	#	#	350	30	0
#YR	24	24	24	24	24	24	24	24	24	23	23	23	26	26	26	26	26	26	26	24	24	24	24	23	23	24	24	24	24	24	24

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
#YR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	#YR
CEILING	02	39	44	44	50	46	39	46	43	38	34	44	42	42	24
LESS 5000	05	41	41	45	51	47	45	48	43	38	35	43	43	43	24
FT AND/OR	08	45	49	52	57	52	52	58	55	47	47	52	52	52	28
VISIBILITY	11	42	47	48	50	45	45	49	46	41	41	47	48	46	28
LESS 5 MI	14	44	43	48	51	43	41	44	39	38	43	46	49	44	28
	17	47	47	55	56	50	45	47	45	43	50	51	52	49	28
	20	42	42	47	54	53	49	50	44	40	42	48	44	46	26
	23	40	41	43	52	43	42	43	41	39	36	43	41	42	24
	ALL HRS	43	44	48	53	47	45	48	45	41	42	47	47	46	26
CEILING	02	4	3	2	2	4	5	4	4	4	4	4	4	4	24
LESS 1000	05	4	3	2	1	6	5	4	5	4	4	4	4	4	24
FT AND/OR	08	5	6	5	6	9	8	8	8	9	8	7	5	7	28
VISIBILITY	11	6	6	4	6	10	9	9	9	10	8	8	5	7	28
LESS 3 MI	14	6	6	5	6	10	9	9	9	9	9	8	5	8	28
	17	5	6	4	7	9	9	9	9	10	8	6	5	7	28
	20	4	3	2	4	6	5	4	5	4	4	4	4	4	26
	23	4	3	2	2	5	5	4	4	5	4	4	3	4	24
	ALL HRS	5	4	3	4	7	7	7	7	7	6	6	4	6	26
CEILING	02	3	3	1	1	4	5	4	4	4	4	4	3	4	24
LESS 600	05	3	3	1	1	6	5	4	5	4	4	3	4	4	24
FT AND/OR	08	5	6	3	5	9	8	8	7	9	8	7	4	7	28
VISIBILITY	11	5	6	3	6	10	9	9	9	10	8	8	4	7	28
LESS 1 MI	14	5	5	4	5	10	9	9	8	9	8	7	5	7	28
	17	5	6	4	6	8	9	8	8	10	8	5	4	7	28
	20	3	3	1	3	6	5	4	4	4	4	3	3	4	26
	23	3	3	1	2	5	5	4	4	5	4	4	3	4	24
	ALL HRS	4	4	3	4	7	7	6	6	7	6	5	4	5	26
CEILING	02	3	3	1	1	4	5	4	4	4	4	4	3	3	24
LESS 400	05	3	3	1	1	6	5	4	5	4	4	3	4	4	24
FT AND/OR	08	5	5	3	5	9	8	8	7	9	7	7	4	7	28
VISIBILITY	11	5	6	3	5	10	9	8	9	10	8	7	4	7	28
LESS 1 MI	14	5	5	4	5	10	9	9	8	9	8	7	5	7	28
	17	5	6	3	6	8	9	8	8	10	8	5	4	7	28
	20	3	3	1	3	6	5	4	4	4	4	3	3	4	26
	23	3	3	1	2	5	5	4	4	5	4	4	3	4	24
	ALL HRS	4	4	2	4	7	7	6	6	7	6	5	4	5	26

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	73.8	76.9	77.6	78.7P	78.7	78.5	77.8	76.6	73.8	M
1946	73.0P	72.9	73.3	73.3	74.6P	76.8	78.7	78.2	78.4	77.0	74.5	71.7	M
1947	70.0	71.8	72.4	73.2	76.2	76.8	77.6	78.1	77.9	77.9	75.6	72.9	74.9
1948	70.5P	70.5	71.8	72.8	74.7	76.2	77.0	78.0	78.6	77.4	74.4	71.8	M
1949	70.4	71.6P	71.5	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	75.8	77.2	77.0	75.3	74.5	72.9	M
1953	73.8	72.9	72.6	73.8	75.2	76.1	78.9	77.0	77.7P	76.7	74.6	72.6	M
1954	72.1	72.7	71.2	74.2	75.7	76.5	76.8	77.5	78.8	78.2	77.5	73.3	75.2
1955	73.3	70.8	70.9	73.5	74.1	75.2	76.3	76.4	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	78.5	76.9	73.6	M	M
1958	72.4	72.9	71.8	73.2	74.5	77.1	77.4	78.5	78.4	M	M	M	M
1959	M	M	M	M	73.4P	76.2	79.5	79.7	79.8	79.3	77.8	73.6	M
1960	74.0	73.8	73.6	74.9	77.4	78.5	79.5	80.2	80.1	78.5	76.8	74.0	76.9
1961	73.9	74.1	73.3	73.3	76.8	77.7	78.4	79.3	79.3	78.3	75.2	74.0	76.5
1962	74.4	72.4	72.7	73.5	75.5	77.9	77.7	78.8	78.4	77.8	77.2	73.2	76.1
1963	72.9	74.3	74.1	74.9	76.9	77.2	78.2	79.6	79.3	78.6	77.3	74.3	76.3
1964	75.0	74.2	74.0	74.8	75.5	77.7	77.8	78.6	79.5	77.2	76.1	73.8	76.3
1965	73.0P	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	M	M	M	M	M	M	M	M	M	M	M
1968	M	M	M	M	M	79.3	80.3	80.7	80.5	80.7	79.0	74.6	M
1969	71.3	73.0	73.1	73.5	76.7	78.9	80.9	80.1	78.8	80.0	76.6	73.3	76.4
1970	71.9	71.8	73.9	74.0	75.7	77.3	78.5	79.2	78.6	77.9	74.6	73.2	75.6
1971	70.7	72.7	72.4	73.2	76.9	75.3	76.8	77.5	78.4	77.0	75.4	73.1	74.8
1972	70.6	71.8	73.1	74.9	76.5	75.8	75.9	78.1	78.7	78.3	76.8	72.6	75.4
1973	73.5	70.8	71.7	73.3	73.9	75.2	76.3	76.2	78.5	77.3	76.3	74.6	75.1
1974	75.5	73.4	75.1	75.8	76.4	77.7	79.1	79.0	80.0	78.1	75.9	76.6	77.1
1975	75.6	73.8	72.9	73.7	76.1	75.7	76.1	78.2	78.7	77.3	75.9	73.1	75.9
1976	74.1	72.3	71.9	73.2	76.4	75.6	76.0	77.9	78.3P	77.6	76.3	74.6	M
1977	74.7	74.6	74.1	73.6	75.1	76.4	77.7	79.0	79.9	79.8	78.8	75.8	76.7
MEAN	72.9	72.8	72.9	74.1	75.4	76.9	77.6	78.6	79.1	78.1	76.1	73.9	75.7

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	14.67	2.15	1.20	.67	2.56	1.37	1.06	1.38P	9.31	M
1946	7.72	9.73	1.62	1.98	.39P	2.82	2.92	0.38P	1.09	2.23	3.26	9.06	M
1947	2.74	.74	9.70	2.68P	1.63	2.79	1.68	1.16	4.54	1.39	6.80	2.99	M
1948	9.34P	5.01	1.73	9.33	1.33	1.38	1.79	1.86	2.38	.91	3.78	3.67	M
1949	15.56	4.45P	2.54	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	.24P	.28	.85	4.47	7.98P	1.28	M
1953	1.49	9.73	6.33	1.58	1.17	1.13	1.02	1.59	1.75	.89	1.44	2.14	25.06
1954	3.04	4.92	8.34	2.81	1.51	1.61	4.32	2.48	1.81	3.69	15.98	5.82	50.25
1955	3.74	14.06	5.90	.86	1.52	.81	1.24	2.48	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	M	1.97	7.88	4.93	M
1958	1.85	9.45	14.38	1.56	1.88	1.37	3.93	5.76	2.08	M	M	M	M
1959	M	M	M	M	2.81	.56	1.85	4.26	1.69	1.91	3.18	2.90	M
1960	2.48	9.27	7.31	2.06	2.02	2.37	1.58	2.63	2.38	3.08	1.97	5.39	39.67
1961	3.06	1.88	1.24	2.05	1.33	2.15	2.45	1.67	2.33	5.44	5.89	2.88	35.11
1962	4.45	9.84	9.89	1.89	3.04	.77	1.47	.86	1.81	1.67	1.08	5.11	32.28
1963	11.62	9.48	9.20	22.23	6.01	1.73	2.40	.72	1.11	2.68	.89	6.15	87.23
1964	4.07	1.90	6.09	3.70	.88	.90	2.47	1.44	2.25	3.10	3.76	9.22	40.94
1965	3.18P	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	M	M	M	M	M	M	M	M	M	M	M
1968	M	M	M	M	M	.66	.79	.46	2.33	3.26	6.81	9.71	M
1969	12.67	9.41	3.71	1.67	2.44	1.02	1.88	1.39	1.56	1.33	1.79	3.97	38.65
1970	9.32	.84	.34	2.34	.88	.70	1.75	.78	1.23	2.98	14.18	1.76	36.30
1971	9.18	1.71	2.18	4.94	.63	1.94	.07	1.18	2.28	1.39	1.80	3.95	31.45
1972	9.49	9.08	3.29	9.45	1.14	.71	1.20	1.38	.68	1.13	1.41	1.25	33.16
1973	1.08	.48	1.23	1.29	1.88	.92	2.34	1.24	1.20	2.16	2.80	4.21	20.83
1974	5.08	1.96	1.44	2.79	7.03	1.43	1.02	.71	2.48	2.41	4.22	.97	30.97
1975	9.28	9.67	2.48	.95	.33	.48	1.31	.71	.28	.70	9.33	.97	30.89
1976	1.95	9.76	7.16	4.24	.80	.79	1.02	.78	3.02P	1.28	.95	.92	M
1977	.90	2.42	2.32	4.98	4.74	1.84	1.76	1.40	1.33	.90	1.72	2.28	29.07
MEAN	5.70	5.53	4.50	4.42	2.12	1.33	1.88	1.69	1.80	2.16	4.68	5.90	37.73

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										0	0	0	M
45-46	M	0	0	0	0	0	M	0	0	0	M	0	M
46-47	0	0	0	0	0	0	0	0	0	0	0	0	0
47-48	0	0	0	0	0	0	M	0	0	0	0	0	M
48-49	0	0	0	0	0	0	0	M	0	M	M	M	M
49-50	M	M	M	M	M	M	M	M	M	M	M	M	M
51-52	M	M	M	M	M	M	M	M	M	M	M	M	M
52-53	0	0	0	0	0	0	0	0	0	0	0	0	0
53-54	0	0	M	0	0	0	0	0	1	0	0	0	0
54-55	0	0	0	0	0	0	0	0	0	0	0	0	0
55-56	0	0	M	M	M	M	M	M	M	M	M	M	M
56-57	M	M	M	M	M	M	M	M	M	M	M	M	M
57-58	M	M	M	0	0	0	0	0	0	0	0	0	M
58-59	0	0	0	M	M	M	M	M	M	M	M	0	M
59-60	0	0	0	0	0	0	0	0	0	0	0	0	0
60-61	0	0	0	0	0	0	0	0	0	0	0	0	0
61-62	0	0	0	0	0	0	0	0	0	0	0	0	0
62-63	0	0	0	0	0	0	0	0	0	0	0	0	0
63-64	0	0	0	0	0	0	0	0	0	0	0	0	0
64-65	0	0	0	0	0	0	M	M	M	M	M	M	M
65-66	M	M	M	M	M	M	M	M	M	M	M	M	M
67-68	M	M	M	M	M	M	M	M	M	M	M	0	M
68-69	0	0	0	0	0	0	0	0	0	0	0	0	0
69-70	0	0	0	0	0	0	0	0	0	0	0	0	0
70-71	0	0	0	0	0	0	0	0	0	0	0	0	0
71-72	0	0	0	0	0	0	0	0	0	0	0	0	0
72-73	0	0	0	0	0	0	0	0	0	0	0	0	0
73-74	0	0	0	0	0	0	0	0	0	0	0	0	0
74-75	0	0	0	0	0	0	0	0	0	0	0	0	0
75-76	0	0	0	0	0	0	0	0	0	0	0	0	0
76-77	0	0	M	0	0	0	0	0	0	0	0	0	M
77-78	0	0	0	0	0	0							
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945				271	373	384		431	410	405	355	269	M
1946	M	228	264	296	M	399	371	413	409	378	294	219	M
1947	184	198	236	232	291	362	393	412	395	406	329	231	3693
1948	M	169	217	244	304	342	381	412	413	390	287	219	M
1949	179	M	201	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	340	385	387	324	293	230	M
1953	248	227	243	270	326	342	344	383	M	371	288	244	M
1954	226	273	199	248	279	330	374	394	421	419	382	293	3908
1955	262	167	189	280	288	313	357	384	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	423	363	274	M
1958	235	278	219	253	297	368	395	425	434	M	M	M	M
1959	M	M	M	M	M	401	448	486	450	448	389	328	M
1960	282	261	272	306	392	414	457	478	459	436	382	283	4424
1961	264	242	328	315	373	390	421	452	437	420	314	302	4278
1962	296	213	269	351	369	398	401	433	411	400	370	284	4122
1963	251	266	288	301	311	369	419	459	434	429	377	299	4194
1964	314	276	286	299	332	386	402	428	434	384	336	342	4220
1965	M	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	M	M	M	M	M	M	M	M	M	M	M
1968	M	M	M	M	M	434	480	487	475	495	432	304	M
1969	201	228	260	284	370	424	498	475	422	470	386	284	4292
1970	223	199	285	279	339	378	423	446	413	406	298	280	3969
1971	184	274	238	284	316	317	373	396	409	378	321	298	3868
1972	180	206	321	301	363	390	344	413	444	449	303	292	3901
1973	269	171	216	284	281	311	388	416	441	388	342	303	3730
1974	331	296	319	351	360	388	444	440	494	449	382	381	4657
1975	336	244	250	328	349	328	369	417	417	389	332	318	4097
1976	290	218	203	284	302	327	368	M	397	386	306	M	M
1977	306	276	289	292	321	390	401	458	454	469	420	340	4342
MEAN	252	227	253	281	330	369	397	428	428	414	340	281	3996

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

KANEOHE BAY, HAWAII

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
22519	Kaneohe Bay, Hawaii	21°27'N	157°47'W	18	PHNG	91176

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.		MCAS	1952	1962	21°27'N	157°47'W	9.8		
2.	Meteorology office, hangar 105	"	1962	1967	"	"	"		
3.	Weather office, hangar 105	"	1967		"	"	"		
1a.	Meteorology office, hangar 105	"	1962	1967	"	"	"		
2a.	Weather office, hangar 105	"	1967		"	"	11.5		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop control tower	UMQ-5	RD-108		1. Barograph (Aero 1932 USN)
2.	1956	20' above hangar roof	"	"	72.4'	2. Auto met station (GMQ-29)
3.	1956	12' atop control tower	"	"		3. Ceiling light (ML 121)
4.	1961	Adjacent to & 366 yards from center line of runway			13'	4. Theodolite (ML 247) 5. APT Recorder (Alden 9225N)
5.	1977	Adjacent to & 366 yards from center line of runway	GMQ-29A	RO-447A		6. Fax Recorder (Alden 18")

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Iceland, the land of ice and fire, with its numerous glaciers and occasionally active volcanoes lies at the northern edge of the Atlantic Ocean between Norway and Greenland. Although its northern tip extends slightly beyond the Arctic Circle, Iceland's climate is continually moderated by the relatively warm waters from the Gulf Stream.

Keflavik is located at the western tip of the Reykjanes Peninsula which extends approximately 25 miles into the Atlantic Ocean from Reykjavik, Iceland's capital. The surrounding terrain is relatively flat. In general, Iceland experiences only the seasons of summer and winter. There are rapid transitions between these two seasons, approximately, during the months of April and October.

One of the notable characteristics of Keflavik's weather is the extremely rapid changes of the winter weather caused by the rapid movement of pressure systems through the local area.

Prolonged snowfalls rarely occur at Keflavik, since the northeasterly winds usually accompanying wintertime storm systems have a downslope motion from the interior of Iceland and evaporate the low level cloudiness and precipitation. However, a 3 to 7 inch snowfall in the period of a few hours is not uncommon but the snow is usually melted by rainfall within a few days.

Two peculiar winter phenomena occur at Keflavik, Iceland. One is intense, rapid moving snow showers which transit the area in frequencies ranging from several per hour to several per day. The second phenomena is the freezing of roads and runways with temperatures as high as 38 degrees F. and winds as high as 30 to 40 knots. This is believed to result from evaporation cooling aided by low humidity which occurs when winds are from a northerly direction.

Major storm tracks during the summer months are located well to the south of Iceland. Summers are characterized by a decrease in wind speeds and milder temperatures. Although temperatures are still cool an increased occurrence of fog is attributed to a light, warm, southerly flow of maritime tropical air over relatively cool ocean waters. Many potentially warm summer days are spoiled by the invasion of a sea breeze which restricts the temperature to the high 50's or, at most, low 60's.

In spite of the northern locale, the average monthly temperatures are all greater than 32 degrees F., and below zero temperatures have never been observed by U.S. NWSED Keflavik. Consequently, a large part of the maritime precipitation is received in the form of rain, frequently accompanied by 40 to 60 knot winds from the southerly quadrants. Diurnal temperature changes are minimized by the maritime climate and by the "Artic Behavior" of the sun (i.e. long winter nights and 20-hour mid-summer days).

KEFLAVIK, ICELAND

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: KEFLAVIK, ICELAND
LOCATION : N63 58 W22 35

PERIOD: JAN 49-DEC 77
ELEV : 169

STN LTRS: BIKF
WBAN # : 16201
WMO # : 04018

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAPR PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER DAY S	VSBY MAX FOG DEG < 7MI	> 60	> 50	MIN AND < 32	< 10
JAN	36	28	32	49	4	4.3	9.2	.9	1.4	14	67	12	82	81	.15	27	2300	NNE	15	73	8	19	2	9	3	#	6	0	0	21	1
FEB	37	29	33	48	1	4.1	12.4	.7	1.5	13	51	12	82	81	.15	28	2030	NNE	15	76	8	17	2	8	2	#	7	0	0	19	#
MAR	39	31	35	51	4	4.5	9.9	.4	2.7	14	50	25	82	78	.16	29	1750	NNE	14	67	8	19	2	8	3	0	8	0	#	17	#
APR	42	34	38	56	6	3.7	6.0	1.6	1.3	7	25	13	83	77	.18	32	1500	NNE	14	67	8	19	2	5	1	#	10	0	2	11	#
MAY	48	39	44	66	23	3.0	8.2	.4	1.6	1	6	2	82	72	.21	36	1200	N	12	59	8	16	1	#	#	0	9	#	12	4	0
JUN	52	44	48	64	33	3.0	6.2	.5	1.7	#	#	#	85	74	.27	42	1150	N	11	54	8	17	1	0	0	#	10	1	24	#	0
JUL	55	47	51	70	38	2.6	5.2	.7	1.1	#	#	#	87	76	.30	45	1000	N	10	49	8	15	1	0	0	#	12	2	30	0	0
AUG	54	47	51	67	35	3.8	7.6	.4	3.6	#	#	#	87	76	.30	45	1150	N	11	58	8	17	2	0	0	#	11	2	29	0	0
SEP	50	43	47	64	27	4.5	10.1	.9	2.2	#	2	2	85	78	.26	41	1500	NNE	12	81	8	20	2	#	#	0	10	#	18	1	0
OCT	45	38	42	57	18	5.5	9.0	1.8	1.4	2	12	5	84	81	.22	37	1850	E	13	68	8	22	3	2	#	#	9	0	5	5	0
NOV	39	32	36	52	15	4.8	12.3	1.5	1.9	8	29	12	82	82	.17	31	1900	NNE	14	70	8	19	3	6	2	#	8	0	1	15	0
DEC	36	29	33	49	7	5.1	9.6	.7	2.5	19	51	9	82	82	.15	27	2100	NNE	15	73	8	21	3	11	5	#	7	0	0	21	#
ANN	44	37	41	70	1	49.9	12.4	.4	3.4	78	67	25	84	78	.20	35	1700	NNE	13	81	8	221	24	69	16	#	107	5	121	114	1
EYR	29	29	29	29		29	29	29	29	29	29	29	29	29	29	29	26		29	29	23	29	29	29	29	29	29	29	29	29	29

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY*0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA	% HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING		00	73	78	77	77	74	75	75	75	75	75	75	78	75	29
LESS 5000		03	75	77	76	78	73	75	77	74	76	76	76	78	76	29
FT AND/OR		06	76	78	76	78	74	75	76	73	76	74	77	78	76	29
VISIBILITY		09	76	75	71	77	71	77	77	70	74	77	75	77	75	29
LESS 5 MI		12	71	74	72	78	71	75	74	72	72	75	76	78	74	29
		15	72	71	73	79	72	72	71	70	71	75	76	77	73	29
		18	76	75	71	74	72	71	72	70	74	78	78	79	74	29
		21	76	74	75	76	72	71	72	74	72	78	77	77	74	29
	ALL	HRS	74	75	74	77	72	74	74	72	74	76	76	78	75	29
CEILING		00	33	36	37	36	36	33	39	42	37	38	38	35	37	29
LESS 1000		03	33	36	34	36	35	33	41	40	41	38	39	38	37	29
FT AND/OR		06	35	35	31	34	35	35	39	40	35	35	37	35	36	29
VISIBILITY		09	30	30	31	36	32	37	42	37	34	34	32	35	34	29
LESS 3 MI		12	30	32	29	34	30	35	39	36	33	32	35	32	33	29
		15	30	32	29	36	32	33	36	38	33	31	34	30	33	29
		18	33	32	29	33	35	35	41	40	32	35	35	34	35	29
		21	34	34	33	34	35	35	42	40	35	34	37	34	36	29
	ALL	HRS	32	33	32	35	34	35	40	39	35	35	36	34	35	29
CEILING		00	25	28	26	25	26	21	24	32	26	27	29	26	26	29
LESS 900		03	25	26	25	24	25	21	26	29	28	27	29	29	26	29
FT AND/OR		06	27	26	22	23	25	22	25	28	25	26	28	27	25	29
VISIBILITY		09	21	22	22	23	22	25	27	24	22	25	23	25	23	29
LESS 1 MI		12	21	22	19	22	21	23	25	23	20	22	24	23	22	29
		15	21	21	20	24	23	23	23	26	19	20	23	20	22	29
		18	24	23	18	21	26	25	26	27	20	25	26	26	24	29
		21	25	26	23	23	25	23	28	29	24	26	28	25	26	29
	ALL	HRS	24	24	22	23	24	23	26	27	23	25	26	25	24	29
CEILING		00	24	25	24	21	23	19	20	29	23	26	27	25	24	29
LESS 100		03	24	24	23	21	23	18	21	26	25	24	27	26	24	29
FT AND/OR		06	26	25	21	20	23	20	22	26	22	24	26	26	23	29
VISIBILITY		09	20	20	20	21	21	23	24	22	19	23	21	23	22	29
LESS 1/4 MI		12	20	21	18	20	20	22	24	22	19	20	22	22	21	29
		15	20	20	18	23	21	22	22	24	18	19	21	18	21	29
		18	23	21	17	19	25	24	25	26	18	23	25	24	22	29
		21	23	24	22	21	23	21	26	26	22	24	26	24	23	29
	ALL	HRS	22	23	20	21	22	21	23	25	21	23	24	23	22	29

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1951	M	M	M	M	M	M	M	M	48.5	41.3	36.2	29.8	M
1952	26.4	31.3	33.4	37.1	42.2	48.2	49.7	50.4	45.8	41.8	37.3	34.5	39.7
1953	33.6	33.8	34.4	32.3	41.7	49.5	52.7	51.9	49.1	38.9	35.9	46.4	41.4
1954	35.8	32.2	34.8	39.6	44.8	49.2	50.1	51.1	48.2	39.3	37.1	31.5	40.7
1955	29.5	29.1	34.9	41.7	41.4	49.2	50.0	49.3	46.2	39.3	39.5	28.8	39.9
1956	26.8	27.2	28.8	38.5	42.8	46.4	50.5	49.5	47.8	40.4	40.7	33.7	41.3
1957	33.9	28.5	32.0	41.3	44.1	49.2	52.7	51.8	44.5	40.4	37.7	42.0	40.7
1958	28.4	29.4	35.2	38.8	40.4	49.5	53.7	49.5	51.9	43.2	40.4	42.9	40.9
1959	26.7	30.2	28.2	36.2	44.9	47.6	52.3	49.9	46.9	43.2	34.3	32.4	40.9
1960	33.1	29.7	37.7	40.0	46.7	49.3	53.4	52.0	48.9	42.2	37.5	42.5	42.1
1961	35.1	34.0	33.0	36.8	46.7	48.5	51.1	51.8	49.6	43.3	38.7	31.0	40.9
1962	33.6	32.4	30.6	39.2	43.6	49.1	52.6	51.6	46.7	41.2	34.3	34.1	40.7
1963	32.5	35.3	30.2	37.7	39.8	48.3	49.6	48.9	49.3	41.8	31.3	47.3	40.4
1964	36.6	38.1	41.1	39.8	48.0	48.5	49.8	49.8	46.8	43.2	38.9	30.7	42.5
1965	31.7	30.9	38.8	37.9	48.7	48.7	51.6	50.7	48.8	45.5	34.7	41.3	41.4
1966	31.6	31.0	35.2	38.9	43.3	50.4	51.6	50.7	47.9	38.9	34.4	40.5	40.4
1967	35.8	33.4	27.8	35.9	42.0	48.0	50.8	51.2	47.4	38.4	34.5	42.3	40.0
1968	31.3	31.4	31.9	37.0	42.3	48.3	53.1	51.3	50.9	39.4	41.2	33.6	40.9
1969	27.6	28.8	32.8	36.4	43.8	49.1	49.8	52.2	44.9	42.3	31.7	32.8	39.2
1970	32.3	28.7	29.2	37.0	43.1	47.3	48.5	49.7	46.2	38.8	33.4	36.8	39.3
1971	28.9	34.9	36.3	38.8	44.1	48.5	51.8	51.3	46.9	41.4	39.7	33.8	41.1
1972	37.9	38.5	37.5	40.1	46.9	49.2	51.1	47.2	45.2	40.3	33.3	33.5	41.8
1973	36.4	28.4	29.8	37.7	41.4	46.6	50.8	51.3	47.6	41.6	32.1	27.6	39.6
1974	34.2	32.1	39.1	43.7	47.4	47.8	49.8	50.1	45.1	41.1	37.2	29.5	41.3
1975	28.0	27.2	35.2	36.0	41.3	45.0	47.2	49.3	49.7	43.6	35.9	31.9	39.2
1976	28.8	32.2	32.6	36.2	41.4	48.1	51.3	47.9	46.3	42.6	36.4	40.6	39.5
1977	26.5	31.8	37.0	36.7	46.2	46.8	50.4	49.6	44.8	41.9	31.5	34.0	39.6
MEAN	31.9	33.0	34.6	38.0	43.6	48.2	51.0	50.4	46.5	41.5	35.8	32.5	40.6

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1951	M	M	M	M	M	M	M	M	2.39	5.70	1.93	5.17	M
1952	6.98	2.99	1.98	2.83	2.73	.69	2.40	1.03	1.29	4.13	4.13	.71	31.52
1953	4.26P	4.14	6.39	1.83	2.14	1.97	1.49	2.63	6.09	4.09	4.44	8.01	M
1954	4.81	4.00	2.67	4.31	1.87	1.07	2.63	3.18	.86	2.86	6.12	3.56	37.96
1955	3.30	1.29	1.90	4.93	1.46	2.60	4.79	3.66	2.44	3.41	2.91	4.83	36.74
1956	4.64	4.40	3.92	1.62	3.60	2.69	1.71	.37	3.47	4.56	8.13	4.52	45.67
1957	4.16	.71	2.40	2.37	3.92	1.72	1.63	2.01	1.89	6.63	5.02	5.87	38.13
1958	3.79	1.42	1.62	5.36	.37	1.83	.60	1.05P	4.43	6.60	12.26	3.36	M
1959	2.61	12.36	9.91	2.76	2.69	2.98	2.18	5.57	10.05	7.98	2.79	4.08	85.95
1960	3.95	7.18	5.94	3.89	3.65	5.98	2.10	.68	3.23	2.34	2.42	6.07	44.36
1961	4.16	4.63	7.11	3.28	2.44	1.75	2.22	3.94	6.30	5.00	4.91	2.08	48.61
1962	4.89	9.71	.39	5.30	1.70	4.61	2.58	1.72	5.43	6.05	6.28	4.75	52.94
1963	3.44	9.93	4.32	6.00	4.17	1.61	2.01	1.09	3.76	7.22	3.65	5.14	66.74
1964	6.67	9.65	4.26	2.02	2.22	4.02	4.27	2.28	2.03	6.40	4.89	5.04	68.93
1965	5.13	7.71	2.38	3.78	1.77	2.50	1.01	2.14	2.33	9.01	2.76	1.93	39.27
1966	2.55	.85	3.02	3.04	4.13	3.23	3.16	5.32	4.35	1.80	8.09	5.27	44.95
1967	3.08	4.98	2.54	4.06	1.64	4.21	1.19	3.86	4.65	2.83	6.52	9.57	52.01
1968	4.49	5.90	5.14	3.87	1.97	2.66	1.66	4.83	3.35	2.96	4.81	6.14	47.22
1969	.91	3.76	6.08	4.83	2.08	6.18	3.69	7.19	5.81	7.97	2.02	6.89	56.78
1970	2.01	2.49	3.36	4.88	8.17	5.17	2.06	4.53	9.24	9.11	3.06	3.00	57.68
1971	1.41	4.18	3.20	3.13	3.66	.32	3.89	2.30	4.81	7.29	3.89	3.83	47.17
1972	5.49	4.45	3.67	4.08	4.89	3.20	5.14	4.06	6.31	9.85	2.92	5.34	61.20
1973	5.21	4.80	4.74	2.02	3.20	2.94	2.30	5.88	4.85	6.92	5.51	4.94	54.11
1974	6.86	5.62	7.18	3.76	2.88	2.44	1.14	3.82	3.63	6.76	4.36	4.70	53.12
1975	4.16	4.24	3.81	1.96	3.76	3.39	2.33	6.93	6.41	6.89	8.19	9.06	59.92
1976	9.17	4.87	6.81	3.35	3.02	3.61	2.56	7.96	3.28	4.04	4.45	4.79	59.51
1977	2.11	1.12	2.58	2.90	3.34	4.20	3.17	4.30	5.00	4.02	2.88	4.98	42.60
MEAN	4.32	4.12	4.46	3.86	2.96	3.00	2.36	3.76	4.45	5.46	4.73	5.07	48.57

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
51-52	M	M	686	726	918	1062	1190	965	973	828	700	560	M
52-53	469	444	769	709	825	937	966	810	881	976	684	657	8697
53-54	374	399	670	773	867	881	897	915	939	793	822	646	8346
54-55	457	478	647	786	831	1033	1092	1000	927	691	723	468	9082
55-56	457	478	958	792	759	1116	1178	800	809	785	656	549	8953
56-57	444	496	911	749	721	900	959	1015	1018	704	638	468	8603
57-58	373	462	806	754	811	1015	1127	991	981	768	735	660	9023
58-59	374	472	887	671	730	990	1181	802	826	854	617	516	8420
59-60	387	462	937	803	919	1002	920	1017	840	762	560	493	8649
60-61	352	397	690	698	817	1000	919	860	985	900	623	550	8389
61-62	426	413	656	661	866	1051	968	877	1036	786	659	472	8869
62-63	384	410	572	729	916	991	1009	826	782	815	777	488	8667
63-64	473	493	642	718	1009	952	805	772	732	791	583	484	8305
64-65	444	441	601	669	777	1037	1023	698	1004	806	592	482	8655
65-66	400	486	586	680	901	1038	1026	943	979	789	684	482	8776
66-67	402	462	818	770	911	1062	896	826	1144	867	708	504	9004
67-68	433	419	824	817	908	1009	1033	948	1020	831	699	498	9190
68-69	368	418	655	796	796	993	1134	1064	993	851	649	477	8861
69-70	465	392	608	696	983	992	1001	1011	1104	838	672	535	9292
70-71	516	446	559	806	944	869	1112	858	886	778	659	486	8891
71-72	399	418	838	728	871	961	829	784	865	762	555	664	8113
72-73	426	344	684	781	946	967	880	1017	958	816	725	644	9161
73-74	434	418	816	718	979	1152	969	914	796	636	588	510	8560
74-75	466	486	651	733	826	1092	1143	775	978	862	726	594	9298
75-76	367	480	665	665	866	1018	1116	944	995	860	723	498	9379
76-77	417	521	958	690	881	1056	1123	929	859	899	638	540	9078
77-78	440	471	609	709	998	954							
MEAN	428	445	730	722	868	1000	1019	898	935	803	658	498	8824

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1951	M	M	M	M	M	M	M	M	0	0	0	0	M
1952	0	0	0	0	0	0	0	0	0	0	0	0	0
1953	0	0	0	0	0	0	0	0	0	0	0	0	0
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	0	0	0	0	0	0	0	0
1956	0	0	0	0	0	0	0	0	0	0	0	0	0
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	0	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	0
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	0	0	0	0	0	0	0	0	0	0
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

KEFLAVIK, ICELAND

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
16201	Keflavik, Iceland	63°58'N	22°35'W	169	BIKF	04018

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
*1.	Observation tower	Navy	1961	1964	63°58'N	22°35'W	164	Tonnelot	24
2.	Forecast office, second deck Operations building	"	1964	1976	"	"	176	"	24
1a.	Building T 50 Radiosonde site	"	1967		"	"	129	Aneroid	2
2a.	Observation tower, third deck Operations building	"	1976		"	"	193	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
*1.		3400' northwest of the center of the runway complex and 1 1/2 miles northwest of the observation tower	AN/UMQ-5	RD-108	13'	* Station operated by U.S. Air Force prior to October 1961. 1. Barograph (marine) 2. Ceiling light (ML-121) 3. Cloud height set (AN/GMQ-13C) 4. Theodolite (ML-247) 5. Transmissometer (AN/GMQ-10B) 6. Radiosonde (AN/GMD-1b) 7. Radar (AN/FPS-81) 8. Weather vision (AN/GMQ-19V) 9. Semi-auto met station (GMQ 14B) 10. RVR (GMQ 10b) 11. Surface Condition Analyzer (SCAN)
2.	1968	1450' S of center line of runway 12-30 and 750' E of center line of runway 03-21	AN/UMQ-5C	RD-108B	25'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Key West is located on Boca Chica Key, approximately 5 miles east-northeast of the city of Key West. The Florida Keys are a chain of islands swinging in a southwesterly arc from the southeast coast of the Florida Peninsula. The closest point on the Florida mainland is about 55 miles to the northeast, while Cuba at it's closest point is 98 miles south. Boca Chica Key is approximately 3 miles long and 2 1/2 miles wide. The official height of runways is 6 feet above mean sea level. Vegetation is confined to dense mangrove and scattered clusters of small trees with the exception of the landscaped areas of the Naval Air Station.

Key West has a notably mild, tropical-maritime climate. The average temperature during the winter months is only 16 degrees lower than in the summer. There is no known record of frost, ice, or snow in Key West. Prevailing easterly tradewinds and sea breezes suppress the usual summertime heating. Diurnal variations throughout the year average only about 10 degrees.

Northeasterly to easterly winds dominate the autumn and winter months due to polar outbreaks reaching the Gulf of Mexico, while easterly to southeasterly winds prevail during the spring and summer months due to the influence of the subtropical ridge and the Bermuda High. Wind speeds throughout the year are mostly between 7 and 16 knots with the yearly mean speed of 10 knots.

There are two primary seasons at Key West. The dry season occurring from December through April receives abundant sunshine and slightly less than 22% of the annual rainfall. April is the driest month with less than 1 inch. The rainy season for this area is from June through October. Numerous showers and thunderstorms account for almost two-thirds the average annual rainfall of 38 inches during this period. Early morning is the favored time for the showers. Easterly waves during this season are common and occasionally bring abundant rainfall. The hurricane season is from June through November. June and July are the months when the Key West area is most likely to be affected by tropical disturbances.

Flying weather is exceptionally good with marginal flying weather occurring less than 1% of the time. While humidity remains relatively high during the entire year, fog is quite rare, occurring only once or twice a year.

KEY WEST, FLORIDA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: KEY WEST, FLORIDA
LOCATION : N24 35 W81 41

PERIOD: MAR 45-DEC 77
ELEV : 6

STN LTRS: KNQX
WBAN # : 12850
WMO # :

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL			RELATIVE		VAP PRESS	DEW PT	PRESS ALT	SFC PVLG	WINDS		MEAN AMT	MEAN PRECIP		SNOWFALL		MEAN NUMBER OF DAYS			OCCURRENCE OF:		
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MONTH MEAN	MONTH MAX	MONTH MIN	MN MAX 24 HRS	MAX 24 HR	LST 04	LST 13	IN OF HG	DEW PT F	ALT FEET 99.95%	DRCTN	SPEED MN	SPEED MAX	CLD TENTH	.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	THUNDER DAYS R	VSBY FOG 7MI	MAX DEG > 90	MAX DEG > 75	MIN AND < 65	MIN AND < 55
JAN	74	65	70	85	45	1.5	7.9	#	3.3	0	0	0	81	69	.96	62	200	NE	10	62	4	6	1	0	0	1	2	0	18	15	3
FEB	75	65	70	86	45	2.2	5.7	#	3.5	0	0	0	80	68	.96	62	250	E	11	46	4	6	1	0	0	1	1	0	17	14	2
MAR	78	69	74	88	51	1.2	4.2	#	1.8	0	0	0	79	66	.60	64	200	E	11	48	4	4	1	0	0	1	#	0	25	8	1
APR	82	73	78	90	58	1.2	5.8	#	4.2	0	0	0	76	64	.64	66	200	E	11	53	4	4	1	0	0	2	#	#	29	1	0
MAY	84	76	80	93	66	3.2	12.4	.2	5.7	0	0	0	76	65	.74	70	200	E	9	51	5	8	2	0	0	2	#	1	31	#	0
JUN	87	78	83	95	68	5.4	13.8	.3	3.4	0	0	0	78	68	.82	73	200	ESE	8	72	6	11	3	0	0	9	#	5	30	0	0
JUL	88	80	84	95	70	3.3	6.9	.7	3.1	0	0	0	76	66	.85	74	50	ESE	8	52	6	11	2	0	0	11	0	9	31	0	0
AUG	89	79	84	94	69	4.9	11.9	1.1	3.8	0	0	0	77	66	.85	74	100	E	7	48	6	14	3	0	0	13	0	11	31	0	0
SEP	88	78	83	93	66	6.5	13.2	2.9	5.1	0	0	0	81	70	.85	74	200	E	8	80	6	16	4	0	0	11	#	5	30	#	0
OCT	84	75	80	90	60	4.6	14.4	.6	6.1	0	0	0	79	69	.77	71	250	NE	9	84	5	11	3	0	0	5	#	#	31	#	0
NOV	79	70	75	89	50	1.9	8.0	#	5.8	0	0	0	80	69	.64	66	200	NE	10	48	4	6	1	0	0	1	1	0	25	5	#
DEC	75	66	71	89	46	1.6	4.8	.1	4.0	0	0	0	81	69	.56	62	150	NE	10	51	4	7	1	0	0	1	1	0	18	14	2
ANN	82	73	78	95	45	37.5	14.4	#	6.1	0	0	0	79	67	.69	68	200	E	9	84	5	104	23	0	0	61	5	31	316	57	8
EYR	26	26	26	26	26	26	26	26	26	26	26	26	31	31	31	31	30	31	31	26	30	26	26	26	26	25	25	26	26	26	26

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	15	15	11	8	10	9	6	7	10	8	9	15	10	31
LESS 5000	04	18	19	11	12	9	9	7	7	9	9	11	16	11	31
FT AND/OR	07	22	24	16	12	11	11	9	7	8	12	15	20	14	31
VISIBILITY	10	20	18	15	9	12	14	11	10	10	11	13	18	13	31
LESS 5 MI	13	17	17	13	10	10	14	11	10	13	12	12	16	13	31
	16	16	14	11	7	7	12	6	7	9	10	12	14	10	31
	19	16	14	10	7	8	11	5	7	9	8	10	14	10	31
	22	13	13	9	7	9	8	5	6	9	8	9	12	9	31
	ALL HRS	17	17	12	9	9	11	8	8	10	10	11	16	11	31
CEILING	01	1	1	1	0	0	0	0	0	0	1	1	2	1	31
LESS 1000	04	2	1	1	0	0	0	0	0	0	1	0	1	1	31
FT AND/OR	07	2	3	1	0	1	1	0	0	1	1	1	1	1	31
VISIBILITY	10	2	3	1	0	1	1	0	0	1	1	1	2	1	31
LESS 3 MI	13	4	2	2	0	1	1	1	0	1	1	1	3	1	31
	16	3	2	1	0	1	1	0	0	1	1	1	2	1	31
	19	3	2	1	0	0	1	0	0	1	1	1	1	1	31
	22	2	2	1	0	0	1	0	0	0	0	1	1	1	31
	ALL HRS	2	2	1	0	1	1	0	0	1	1	1	2	1	31
CEILING	01	0	0	0	0	0	0	0	0	0	0	0	0	0	31
LESS 300	04	0	0	0	0	0	0	0	0	0	0	0	0	0	31
FT AND/OR	07	0	0	0	0	0	0	0	0	0	0	0	0	0	31
VISIBILITY	10	0	0	0	0	0	0	0	0	0	0	0	0	0	31
LESS 1 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	19	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	22	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	31
CEILING	01	0	0	0	0	0	0	0	0	0	0	0	0	0	31
LESS 100	04	0	0	0	0	0	0	0	0	0	0	0	0	0	31
FT AND/OR	07	0	0	0	0	0	0	0	0	0	0	0	0	0	31
VISIBILITY	10	0	0	0	0	0	0	0	0	0	0	0	0	0	31
LESS 1/4 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	19	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	22	0	0	0	0	0	0	0	0	0	0	0	0	0	31
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	31

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1943	M	M	76.0	79.0	79.3	83.0	84.2	84.1	83.3	80.8	73.4	70.6	M
1944	71.6	73.3	75.0	77.9	M	M	M	M	83.1	79.3P	77.7	73.7	M
1947	74.9	66.7	70.4	80.3	80.2	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	84.3	84.9	83.3	77.8	74.3	72.1	M
1954	71.0	70.5	71.9	78.6	80.5	82.8	84.6	84.4	82.4	77.7	72.4	67.5	77.0
1955	67.7	68.9	74.4	77.0	79.6	81.6	82.3	83.7	82.8	78.1	74.7	69.9	76.7
1956	66.9	72.9	72.5	74.9	80.0	81.4	83.4	84.8	80.8	79.4	71.7	72.4	76.7
1957	72.2	74.1	73.0	77.7	79.7	82.8	84.8	84.0	82.5	77.7	76.2	67.4	77.7
1958	64.6	62.6	70.7	75.3	78.7	82.5	84.0	84.6	83.4	79.3	78.7	71.1	76.3
1959	68.4	76.5	73.0	76.4	79.8	82.5	82.7	82.9	82.2	82.1	75.4	68.8	77.6
1960	69.8	69.0	69.7	75.6	78.4	82.2	84.8	83.6	82.5	81.8	76.6	67.4	76.8
1961	64.8	71.6	75.4	75.8	80.2	82.9	83.9	84.5	82.7	79.2	76.0	72.2	77.6
1962	69.6	73.1	73.0	75.4	78.6	82.2	85.3	84.3	83.3	80.1	71.7	67.1	77.0
1963	69.9	68.7	74.8	76.1	78.8	83.0	84.1	84.9	83.8	78.0	73.7	69.7	76.8
1964	68.0	66.0	75.2	78.6	80.4	83.1	84.6	85.7	83.0	77.0	76.2	73.5	77.6
1965	70.5	73.4	75.3	80.5	81.7	83.5	85.2	83.7	82.1	79.3	75.7	70.7	78.5
1966	67.9	69.2	71.0	75.0	79.9	80.0	83.5	84.2	83.5	79.7P	71.2	66.4	M
1967	69.9	70.3	75.2	80.6	83.8	84.2	84.4	83.3	82.8	78.7	73.3	71.1	78.2
1968	68.0	68.1	70.1	76.9P	78.1	81.4	83.8	84.2	82.7	79.0	72.5	68.6	M
1969	69.7	66.7	67.6	78.7	82.5	85.7	85.1	83.5	81.6	79.9	71.1	69.0	76.7
1970	65.4	65.3	71.8	78.1	77.3	81.8	M	83.5	82.2	80.4	71.8	71.7	M
1971	70.1	70.7	71.2	74.6	79.7	82.5	83.1	83.2	83.0	81.1	75.7	76.4	77.6
1972	75.2	71.6	75.2	77.4	80.4	81.1	83.5	84.4	83.2	81.2	77.6	73.5	78.7
1973	71.7	66.4	75.6	77.0	80.6	83.3	84.1	83.4	83.2	80.4	78.0	69.8	77.8
1974	76.4	70.8	76.1	77.6	80.6	83.3	83.8	84.6	84.8	79.1	75.2	72.0	78.7
1975	74.8	75.7	77.2	79.9	83.1	84.4	84.2	84.3	83.0	80.8	75.2	70.9	79.5
1976	67.3	70.0	77.2	76.3	80.9	80.8	84.7	83.8	84.0	79.6	74.2	70.5	77.4
1977	69.3	67.4	76.7	76.7	79.1	83.7	84.5	83.3	84.2	78.8	75.9	71.6	77.3
MEAN	69.7	70.0	73.5	77.3	80.1	82.6	84.1	84.1	82.9	79.5	74.7	70.4	77.4

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1943	M	M	.10	M	M	M	3.37P	11.88	8.16	7.50	3.31	.80	M
1944	1.00	1.39	.05	.98	M	M	M	M	4.83	3.37P	1.61	.73	M
1947	.77	4.85	2.45	.05	3.06	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	.31	3.81	2.72	2.02	3.82	5.07	1.08	4.85	3.80	1.22	7.96	.62	37.28
1955	1.15	.03	.62	.02	.21	4.51	1.91	2.58	4.27	1.76	.52	2.00	19.58
1956	.46	.71	T	.32	2.03	2.32	2.03	1.05	11.26P	.71	.14	.24	M
1957	.11	5.88	2.25	1.52	5.52	.34	1.82	5.26P	7.07	6.09	.75	1.53	M
1958	7.86	2.38	4.23	1.82	2.76	2.78	5.28	3.80	6.46	2.81	.68	3.96	44.62
1959	.66	.52	2.21	.01	3.38	5.35	6.94	3.73	9.60	3.22	0.14	4.18	45.94
1960	.06	2.11	.94	1.43	12.38	1.81	2.04	6.70	9.27	4.67	.82	.80	43.03
1961	1.49	2.41	1.63	1.21	2.77	2.50	1.49	3.42	2.92	2.24	T	.62	22.70
1962	.58	.65	.58	.66	.46	2.95	4.05	9.08	3.63	3.73	.86	2.91	30.14
1963	.78	1.99	.08	.13	1.90	1.13	1.86	2.25	10.18	6.99	.88	32.96	
1964	.12	.93	1.19	1.22	.62	5.84	1.64	3.29	6.53	5.75	.89	3.02	31.04
1965	.94	4.73	.26	1.15	.97	3.42	.69	2.44	4.63	7.33	.35	.89	27.80
1966	3.72	3.84	1.12	1.43	1.12	13.79	4.84	2.58	7.00	7.88	.14	.30	47.76
1967	.77	2.72	.55	.02	1.09	8.42	1.33	3.42	6.15	5.03	1.78	4.75	36.03
1968	.01	3.16	3.32	.27P	10.62	11.20	2.82	6.06	6.47	8.51	2.32	.10	M
1969	3.60	1.04	.67	5.81	2.74	9.94	1.68	1.84	9.55	14.42	1.23	.38	52.90
1970	5.24	2.12	3.85	.04	3.61	2.71	M	2.22	8.04	7.57	.24	.23	M
1971	.25	1.62	.12	.10	1.01	5.03	0.18	6.73	4.80	9.48	4.85	1.06	41.23
1972	1.93	1.83	.27	1.59	2.28	11.26	4.56	3.18	5.48	.60	1.55	3.12	37.65
1973	3.64	2.42	1.96	.17	.94	3.72	0.25	9.66	4.77	1.28	.27	2.96	38.04
1974	.81	.19	.30	.13	4.05	3.75	4.77	3.45	4.09	1.33	1.28	.52	24.67
1975	.15	1.36	.29	.69	1.32	5.15	5.44	6.74	8.76	3.63	1.35	2.18	37.06
1976	.81	2.00	.10	5.11	2.40	12.13	1.46	8.54	3.16	1.78	.77	1.96	40.22
1977	.95	1.47	T	2.90	8.51	4.76	2.29	8.30	4.34	2.30	3.21	2.34	41.87
MEAN	1.46	2.15	1.20	1.22	3.18	5.41	3.25	4.88	6.45	4.61	1.87	1.63	37.31

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
46-45									0	0	0	0	M
45-46	0	0	0	0	7	7	18	2	0	0	M	M	M
46-47	M	M	0	M	0	0	2	35	8	0	0	M	M
47-48	M	M	M	M	M	M	M	M	M	M	M	M	M
52-53	M	M	M	M	M	M	M	M	M	M	M	M	M
53-54	0	0	0	0	1	22	10	0	10	0	0	0	43
54-55	0	0	0	0	0	31	36	23	1	0	0	0	91
55-56	0	0	0	0	0	3	49	0	4	0	0	0	56
56-57	0	0	0	0	12	5	2	0	2	0	0	0	21
57-58	0	0	0	0	0	33	62	114	16	0	0	0	225
58-59	0	0	0	0	0	5	42	0	5	0	0	0	52
59-60	0	0	0	0	16	8	44	22	27	0	0	0	117
60-61	0	0	0	0	0	35	42	11	2	0	0	0	90
61-62	0	0	0	0	0	24	26	2	5	0	0	0	57
62-63	0	0	0	0	5	61	11	8	0	0	0	0	85
63-64	0	0	0	0	0	9	43	40	51	0	0	0	140
64-65	0	0	0	0	0	0	1	18	10	4	0	0	33
65-66	0	0	0	0	0	3	38	30	5	0	0	0	76
66-67	0	0	0	M	3	37	22	16	0	0	0	0	M
67-68	0	0	0	0	0	18	23	21	27	M	0	0	M
68-69	0	0	0	0	11	47	13	35	31	0	0	0	137
69-70	0	0	0	0	3	30	74	44	11	0	0	0	162
70-71	M	0	0	0	13	6	30	26	11	4	0	0	M
71-72	0	0	0	0	0	0	0	11	0	0	0	0	11
72-73	0	0	0	0	0	13	21	45	0	0	0	0	79
73-74	0	0	0	0	0	0	30	0	18	0	0	0	48
74-75	0	0	0	0	0	0	3	3	0	0	0	0	6
75-76	0	0	0	0	0	6	17	32	8	0	0	0	83
76-77	0	0	0	0	1	12	77	31	1	0	0	0	122
77-78	0	0	0	0	0	23							
MEAN	0	0	0	0	3	19	29	22	7	0	0	0	80

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1943			347	426	447	545	601	600	554	495	265	188	M
1944	230	241	320	396	M	M	M	M	548	M	389	279	M
1947	316	89	184	469	478	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	606	623	554	405	289	247	M
1954	199	160	222	415	491	539	615	607	527	402	229	114	4520
1955	127	137	300	367	460	505	543	586	540	412	297	168	4442
1956	92	235	243	306	472	495	581	622	480	453	222	245	4446
1957	233	259	257	386	463	541	621	597	531	403	341	116	4748
1958	56	55	159	317	430	530	592	614	559	469	420	201	4422
1959	156	325	258	350	467	530	556	564	522	536	334	192	4730
1960	201	144	181	325	420	523	620	583	534	529	354	117	4531
1961	103	203	330	329	478	543	593	613	540	449	337	253	4771
1962	173	235	260	321	428	525	637	605	556	474	210	131	4555
1963	169	118	311	338	434	547	596	625	570	412	273	71	4464
1964	140	86	321	414	485	550	613	647	547	377	339	272	4791
1965	196	253	333	470	525	561	633	589	521	449	328	187	5045
1966	134	153	197	305	469	457	580	602	563	M	195	86	M
1967	179	169	325	475	588	585	610	573	540	433	255	213	4945
1968	123	117	191	M	412	497	588	599	538	442	242	163	M
1969	166	86	140	416	548	627	629	581	506	469	191	161	4520
1970	93	59	231	401	387	511	M	582	520	485	223	220	M
1971	194	190	209	295	463	531	568	572	547	508	329	358	4764
1972	323	208	324	377	485	492	577	611	550	509	387	383	5126
1973	234	91	335	368	492	555	600	578	551	482	399	182	4867
1974	360	185	352	384	489	558	590	616	601	444	313	230	5122
1975	314	309	384	453	566	588	599	604	568	495	319	207	5386
1976	139	161	381	346	501	481	618	589	579	460	282	189	4720
1977	95	103	369	389	444	571	611	572	580	435	334	233	4706
MEAN	182	168	278	377	474	535	599	598	545	456	300	194	4706

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

KEY WEST, FLORIDA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
12850	Key West, Florida	24°35'N	81°41'W	6	KNQX	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather Service Office, second deck of building 244	Navy	1953	1960	24°35'N	81°41'W	22	Mercurial	24
2.	Building 244, room 200	"	1960	1969	"	"	22	"	24
3.	" " " 210	"	1969	1971	"	"	23	"	24
4.	" " " 115	"	1971	1974	"	"	11	"	24
1a.	Building 244, room 200	"	1964	1966	"	"	22	Aneroid	24
2a.	" " " " Replacement	"	1966	1971	"	"	25	"	24
3a.	" " " 115	"	1971		"	"	13	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Install-ed	Mounted on tower roof	3 cup	nax-1-48	86'	1. Barograph (ML-3) 2. Auto met. station (OU-89/GMQ-29) 3. Ceiling light (ML-121)
2.	Unknown	Replaced 3 cup anemometer	AN/UMQ-5	RD-108	86'	
3.	1964	1100 feet from tacan	"	RD-108C	MSL 22'	
4.	1964	Approximately 1625 feet southeast of building 244. Spare transmitter atop building 244.	"	"	23'	
5.	1974	Relocated to 1400 feet northeast of runway intersection	AN/UMQ-5	RO-447	16'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Kingsville, Texas is located 28 miles southwest of Corpus Christi. The flat area surrounding Kingsville is mostly under cultivation, however, some of it is devoted to livestock raising. The nearest body of water, Baffin Bay, is 5 miles southeast of the city and extends approximately 23 miles southeastward to the Laguna Madre along the Gulf of Mexico. Due to the flat, dry character of the terrain, South Texas weather is not affected by orographic influences.

The climate is characteristic of subtropical regions. There is no sharply established delineation of the four seasons. Summer and winter predominate, with shortened transitional periods. The average annual precipitation is just over 23 inches and is spread over the year with one significant wet month (September) and one significant dry month (March). It is not unusual for South Texas to experience periods of long draught in which desert climatic conditions prevail. Above normal tropical cyclone activity in the Gulf of Mexico can produce copious amounts of rain during late summer and autumn. Monthly totals can be misleading as well, since it is possible for a single thunderstorm to account for the entire month 's rainfall.

The weather phenomena causing the greatest and most persistent interference with local flying safety are fog and low stratus clouds. Because of the proximity of the Gulf of Mexico and the prevailing low level wind flow from this moisture source, the formation and dissipation of fog or stratus are major problems. Of the two, stratus occurs more frequently than fog and occurs during all seasons.

While thunderstorms occur during all months of the year, they are much more frequent from April through September. During these months the thunderstorms are mostly of the air mass type. In general, maximum thunderstorm activity occurs during the afternoon, but in all sections of South Texas there is a high frequency of nocturnal thunderstorms drifting inland from the Gulf of Mexico.

Blowing sand or dust occasionally reduces the visibility during the "windy" months of February, March, and April. Some of the sand or dust is carried in aloft from West Texas and visibility is very poor aloft as well as at the surface. This phenomenon occurs only two or three times during the months mentioned.

Funnel clouds and waterspouts are common with intense thunderstorm activity also. Dust devils are numerous during the intensely hot days of summer. Some of them are severe enough to unroof lightly constructed buildings.

The largest and most destructive storms which affect South Texas are tropical cyclones. These storms are most likely to affect the area in August and September with the average frequency for the entire Texas coast being 1 per year.

KINGSVILLE, TEXAS

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: KINGSVILLE, TEXAS
LOCATION : N27 30 W97 49

PERIOD: MAR 45-DEC 77
ELEV : 50

STN LTRS: KNQI
WBAN # : 12928
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL INCHES			RELATIVE HUM		VAPR PRES STN PR	DEW PT	PRESS ALT FEET	SEC PVLG DRCTN	WINDS SPEED		MEAN AMT CLD	PRECIP INCHES .01 OR	PRECIP INCHES .5 OR	SNOWFALL .1 OR	SNOWFALL 1.5 OR	T HUS WT	V S R V	MAX FOG	MAX DEG		MIN AND	
	MEAN DAILY MAX	MEAN DAILY MIN	EXTREMES MAX	EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX	MAX 24 HR	04	13	HG	F	99.95%		MN	MAX	TENTH	GTR	GTR	GTR	GTR	DM ES	< 7MI	> 95	> 80	< 45	< 32
JAN	67	47	92	17	1.7	9.7	#	3.0	#	2	2	84	66	.34	48	500	N	8	50	6	7	1	#	#	1	17	0	5	15	3
FEB	71	50	61	95	27	1.6	4.1	#	3.3	#	2	2	83	61	.36	50	550	N	9	62	6	6	1	#	#	1	14	#	6	9	1
MAR	77	57	67	101	32	.9	4.6	#	2.7	0	0	0	82	58	.45	56	650	SE	9	69	6	5	#	0	0	1	15	1	14	4	#
APR	83	64	74	103	41	1.5	8.2	#	3.4	0	0	0	84	60	.58	63	650	SE	10	56	7	5	1	0	0	3	15	1	22	1	0
MAY	87	70	79	105	48	2.4	11.4	.2	3.1	0	0	0	86	60	.71	69	650	SE	9	55	6	6	2	0	0	5	14	2	29	0	0
JUN	91	74	83	102	57	3.1	12.4	#	3.5	0	0	0	86	58	.79	72	400	SE	9	56	5	6	2	0	0	5	9	5	30	0	0
JUL	94	76	85	105	65	2.1	12.0	#	4.0	0	0	0	84	53	.82	73	250	SE	9	43	4	5	1	0	0	4	8	14	31	0	0
AUG	94	76	85	105	66	2.7	10.9	#	3.6	0	0	0	84	53	.82	73	300	SE	8	47	4	6	2	0	0	5	8	15	31	0	0
SEP	90	73	82	102	53	4.5	19.4	.9	6.9	0	0	0	86	59	.77	71	400	SE	7	79	5	9	3	0	0	6	10	4	29	0	0
OCT	86	64	74	96	40	3.2	10.6	#	6.0	0	0	0	84	57	.58	63	400	SE	7	54	4	6	2	0	0	2	13	#	25	1	0
NOV	75	55	65	97	31	1.3	5.0	#	1.9	#	#	#	82	58	.44	55	500	N	7	52	5	5	1	0	0	1	14	#	13	6	#
DEC	69	49	59	93	22	1.1	6.7	#	3.5	#	#	#	82	62	.35	49	500	N	7	49	6	6	1	0	0	1	15	0	5	13	1
ANN	82	63	73	105	17	28.3	19.4	#	6.9	#	2	2	84	59	.56	62	550	SE	8	79	5	72	17	#	#	35	152	47	240	49	5
EYR	28	28	28	28	28	28	28	28	28	28	28	27	27	27	27	27	27	27	27	24	26	28	28	28	28	27	27	28	28	28	28

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY=0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER *PRESS ALT FEET 99.95%* INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	41	34	39	47	32	15	3	3	8	14	26	32	24	27
LESS 5000	03	49	40	46	51	37	16	5	4	11	17	34	40	29	27
FT AND/OR	06	51	46	52	58	43	22	7	8	17	22	39	43	34	27
VISIBILITY	09	50	44	52	60	59	62	45	37	37	27	38	43	46	27
LESS 5 MI	12	46	44	48	51	57	61	46	46	52	44	43	41	48	28
	15	40	35	33	32	38	30	19	21	33	28	33	35	31	27
	18	31	26	23	24	20	11	3	3	9	11	22	28	17	28
	21	35	28	29	37	24	11	2	2	6	11	23	28	20	28
	ALL HRS	43	37	40	45	39	28	16	15	22	22	32	36	31	27
CEILING	00	21	16	18	23	8	1	0	0	1	3	9	14	10	27
LESS 1000	03	27	19	20	22	10	2	0	0	2	6	14	20	12	27
FT AND/OR	06	29	23	24	26	13	4	1	2	4	8	18	24	15	27
VISIBILITY	09	27	22	19	15	6	3	1	2	5	7	16	22	12	27
LESS 3 MI	12	17	12	6	4	3	1	1	1	3	3	7	12	6	28
	15	13	9	4	4	3	1	1	1	2	2	6	9	4	27
	18	14	9	5	6	2	1	0	1	1	2	6	10	5	28
	21	17	12	13	18	5	1	0	0	1	3	7	11	7	28
	ALL HRS	21	15	14	14	6	2	0	1	2	4	10	15	9	27
CEILING	00	6	4	3	4	1	0	0	0	0	0	2	4	2	27
LESS 300	03	10	8	7	5	1	0	0	0	0	1	5	7	4	27
FT AND/OR	06	11	8	8	5	2	0	0	1	0	2	6	9	4	27
VISIBILITY	09	9	5	4	2	1	0	0	0	0	1	4	5	2	27
LESS 1 MI	12	2	1	0	0	1	0	0	0	0	0	0	1	1	28
	15	1	0	1	1	1	0	0	0	0	0	0	0	0	27
	18	2	1	1	1	1	0	0	0	0	0	1	1	1	28
	21	3	3	2	2	1	0	0	0	0	0	1	2	1	28
	ALL HRS	6	4	3	2	1	0	0	0	0	1	2	4	2	27
CEILING	00	5	3	3	3	0	0	0	0	0	0	2	3	2	27
LESS 200	03	7	5	5	3	1	0	0	0	0	1	4	5	3	27
FT AND/OR	06	8	6	6	4	2	0	0	0	0	2	5	7	3	27
VISIBILITY	09	5	3	1	1	0	0	0	0	0	0	2	4	1	27
LESS 1/2 MI	12	1	1	0	0	1	0	0	0	0	0	0	0	0	28
	15	0	0	1	1	1	0	0	0	0	0	0	0	0	27
	18	1	0	1	1	1	0	0	0	0	0	0	0	0	28
	21	3	2	1	1	1	0	0	0	0	0	1	2	1	28
	ALL HRS	4	3	2	2	1	0	0	0	0	0	2	3	1	27

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1944	M	M	72.3	72.8	76.7	M	83.6	83.1P	80.6	71.9	70.8	57.1	M
1945	54.9	61.1	68.6	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	82.1	M	87.0	82.8	76.1	63.8	53.6	M
1952	65.9	64.3	68.2	71.7	77.7	83.1	85.0	86.8	80.0	70.6	63.8	58.7	73.0
1953	62.6	60.6	73.4	75.4	79.9	86.8	86.8	84.1	80.6	73.6	64.5	55.3	73.6
1954	61.4	65.4	66.7	75.1	79.1	82.7	85.8	85.4	82.6	75.2	65.1	52.7	73.7
1955	58.6	61.5	68.7	76.4	81.8	83.1	84.8	85.9	81.5	72.4	64.5	59.9	73.2
1956	59.4	63.1	66.3	72.4	78.9	83.3	84.7	85.5	81.7	77.3	62.5	61.8	73.1
1957	61.4	67.2	67.8	72.5	78.8	83.0	86.1	85.6	80.4	72.3	63.2	61.6	73.3
1958	59.5	57.8	61.3	72.4	78.1	84.6	M	86.0	81.9	71.6	64.1	56.0	M
1959	55.9	58.5	63.9	69.3	79.8	82.9	85.2	85.2	82.7	75.2	59.6	60.1	71.4
1960	56.6	56.5	61.0	72.8	76.9	84.1	86.8	84.9	79.9	76.4	66.8	55.7	71.5
1961	52.3	60.0	69.3	70.8	79.5	82.5	83.3	83.1	80.2	73.4	62.9	60.1	71.5
1962	51.5	68.5	63.8	73.1	78.9	82.7	85.8	86.9	83.1	78.8	65.7	56.4	72.9
1963	50.5	56.3	68.7	78.1	79.4	83.6	83.5	84.8	80.5	74.4	67.3	52.2	71.6
1964	57.1	55.5	64.8	74.5	79.1	81.8	84.7	86.9	82.7	71.0	66.7	57.0	71.8
1965	62.0	59.3	62.7	75.5	79.7	82.4	85.9	83.8	83.3	70.3	73.3	62.7	73.4
1966	50.5	55.1	65.8	74.3	76.7	81.0	86.4	85.0	82.5	72.9	67.7	58.7	71.4
1967	57.3	59.4	71.2	79.1	80.9	83.8	84.6	82.4	77.0	72.6	67.2	57.3	72.7
1968	56.0	54.0	62.6	72.8	78.2	81.8	84.1	85.4	80.9	77.2	64.1	59.9	71.2
1969	60.2	62.1	61.4	73.1	77.7	83.5	87.9	87.1	82.5	74.8	64.0	62.4	73.1
1970	51.6	60.0	62.7	74.0	74.2	80.3	84.7	85.3	81.2	73.2	62.5	65.8	71.3
1971	62.6	61.4	69.0	70.3	79.3	84.4	85.4	83.9	82.1	78.2	69.1	63.3	74.1
1972	62.4	62.1	71.3	78.3	78.0	82.8	83.2	84.5	83.4	76.0	60.0	55.5	73.1
1973	52.2	56.2	70.2	69.5	78.3	83.3	87.3	83.8	82.2	76.8	73.1	59.0	72.6
1974	57.1	59.0	69.3	71.1	78.9	78.9	81.8	83.5	76.3	72.1	61.0	55.2	70.4
1975	59.1	59.2	67.5	73.8	79.8	82.4	82.3	82.2	79.1	72.2	64.2	57.6	71.6
1976	55.6	64.6	67.3	72.7	75.4	83.2	82.6	84.9	82.0	66.9	57.2	53.0	70.5
1977	48.4	57.9	67.6	71.6	79.1	83.6	85.7	86.0	83.5	73.3	64.9	59.8	71.8
MEAN	56.8	60.3	66.9	73.5	78.4	82.9	84.9	85.0	81.3	73.8	64.1	58.9	72.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1944	M	M	2.31	9.37	.17	M	1.26	1.15P	1.16	5.53	T	.90	M
1945	4.12	.84	1.15	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	.47	M	.29	13.46	2.80	.92	.03	M
1952	.24	.44	.05	.53	1.97	.86	1.77	T	2.90	T	1.69	.65	11.10
1953	.43	.89	.59	.19	.71	.02	.95	10.96	1.19	3.94	.18	1.17	21.20
1954	.75	T	.91	2.61	1.96	2.78	.33	1.90	2.78	3.65	.48P	.16	M
1955	1.09	3.51	.09	.28	1.71	.65	2.06	1.31	7.43	1.19	1.66	.33	21.31
1956	1.28	.36	1.33	2.55	3.30	.71	.79	.12	1.00	3.31	.84	.35	15.94
1957	.34	1.88	2.57	2.49	5.68	5.22	T	1.89	2.60	2.20	3.26	.84	28.97
1958	9.69	4.12	.79	.24	2.75	1.74	M	1.41	7.53	7.54	.77	1.42	M
1959	.99	4.11	T	1.64	2.70	2.68	1.20	2.73	1.08	1.91	1.55	1.25	21.44
1960	1.38	1.78	1.41	.91	1.29	1.52	.90	3.84	.86	6.98	1.24	5.70	28.81
1961	1.38	3.14	.01	1.46	.34	5.51	3.03	2.67	3.08	.08	1.03	.61	22.34
1962	.92	.04	.77	2.61	.27	4.70	1.37	.84	2.24	.43	.51	1.56	16.26
1963	.11	1.09	.07	.54	1.29	1.65	.78	.21	3.72	.78	1.74	.75	12.73
1964	.81	1.22	.62	.14	1.72	1.79	3.60	.50	1.63	.17	.04	1.61	13.79
1965	.80	3.23	1.14	.27	3.92	3.44	1.97	4.01	3.29	3.47	.79	2.46	28.79
1966	2.10	1.11	.71	3.92	11.35	4.92	.10	5.42	1.31	1.13	.05	.43	31.95
1967	2.74	1.27	.03	.20	2.39	.09	1.21	6.18	19.35	3.27	.18	1.78	38.79
1968	2.20	2.10	.85	1.21	7.48	4.35	4.00	1.77	2.21	2.96	.98	.11	30.20
1969	.43	3.05	.26	.74	1.85	.60	.16	3.03	5.77	1.59	3.69	.91	22.08
1970	1.74	.75	1.05	.28	4.28	5.08	1.28	3.00	4.61	2.44	.63	.03	25.17
1971	.02	.06	T	2.22	1.62	4.34	.34	6.29	10.22	2.41	.30	3.48	31.80
1972	1.41	4.14	1.24	1.24	2.60	7.14	6.97	1.75	3.69	.68	1.98	.19	33.04
1973	3.79	2.14	.06	1.07	.51	12.43	1.28	6.54	11.10	10.63	.06	.06	49.67
1974	1.81	T	4.59	T	1.18	1.49	.79	.65	3.91	1.26	1.37	.79	17.84
1975	2.19	.45	.07	.30	2.24	2.63	6.81	3.14	3.74	4.94	1.03	1.29	28.43
1976	.98	.09	.87	6.22	2.37	1.56	12.00	2.31	1.86	10.16	5.04	1.72	47.18
1977	2.43	1.92	.66	1.79	1.94	4.08	.41	.58	1.33	4.26	2.39	.02	21.81
MEAN	1.71	1.62	.86	1.50	2.58	3.05	2.13	2.72	4.47	3.17	1.26	1.13	26.20

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									11	34	0		M
45-46	0	M	0	20	27	270	323	149	26	M	M	M	M
46-47	M	M	M	M	M	M	M	M	M	M	M	M	M
50-51	M	M	M	M	M	M	M	M	M	M	M	0	M
51-52	M	0	0	0	154	162	120	102	38	P	0	0	M
52-53	0	0	0	14	146	221	119	145	23	10	6	0	704
53-54	0	0	0	3	70	323	164	57	123	0	6	0	756
54-55	0	0	0	13	62	149	218	173	108	1	0	0	724
55-56	0	0	0	2	130	193	210	151	89	9	0	0	780
56-57	0	0	0	0	150	191	197	93	40	24	0	0	825
57-58	0	0	0	39	160	193	287	214	160	1	0	0	1020
58-59	M	0	0	43	91	278	355	216	97	44	0	0	M
59-60	0	0	0	7	238	166	284	240	179	10	4	0	1148
60-61	0	0	0	9	76	315	388	168	33	30	0	0	1023
61-62	0	0	0	3	118	206	421	46	124	14	0	0	927
62-63	0	0	0	0	59	275	434	269	45	0	0	0	1102
63-64	0	0	0	0	69	402	254	276	75	8	0	0	1084
64-65	0	0	0	9	81	313	148	184	165	1	0	0	901
65-66	0	0	0	19	10	113	495	282	65	5	4	0	993
66-67	0	0	0	6	61	256	269	173	27	0	0	0	790
67-68	0	0	1	5	51	265	352	317	152	4	0	0	1145
68-69	0	0	0	0	122	198	213	105	149	0	0	0	787
69-70	0	0	0	8	132	131	439	152	124	20	4	0	1004
70-71	0	0	2	12	134	103	161	156	69	30	0	0	673
71-72	0	0	0	0	32	124	182	149	18	4	0	0	507
72-73	0	0	0	3	204	310	405	258	11	31	0	0	1228
73-74	0	0	0	0	25	215	299	197	75	30	0	0	841
74-75	0	0	0	11	180	319	251	188	79	17	0	0	1045
75-76	0	0	0	7	142	262	305	88	68	0	0	0	872
76-77	0	0	0	70	260	366	513	227	56	1	0	0	1301
77-78	0	0	0	7	88	200							
MEAN	0	0	0	15	109	250	288	177	80	14	1	0	909

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1944			247	271	371		589		476	238	204	30	M
1945	20	48	144	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	A	519	M	690	541	354	120	125	M
1952	144	87	140	219	404	548	632	682	456	193	118	90	3653
1953	52	47	289	328	476	664	683	596	476	278	62	33	3984
1954	57	76	187	316	357	534	653	639	534	337	72	85	3847
1955	28	80	249	349	531	548	619	654	502	235	121	40	3936
1956	49	104	136	283	439	556	619	604	438	387	80	58	3805
1957	91	132	130	254	434	545	660	648	467	272	116	52	3801
1958	1	19	51	237	414	593	M	661	514	258	130	5	M
1959	17	38	72	179	465	546	631	630	535	331	83	21	3548
1960	33	18	62	250	378	579	682	623	452	369	137	29	3612
1961	3	51	171	216	453	531	573	569	465	273	57	63	3425
1962	8	153	94	264	437	537	650	689	551	435	85	15	3918
1963	12	31	103	402	453	564	578	620	473	300	142	13	3751
1964	18	5	74	300	446	512	617	688	541	202	137	69	3809
1965	65	32	103	320	463	527	654	594	555	191	264	50	3818
1966	7	12	94	291	375	488	669	624	530	257	148	68	3563
1967	31	26	229	430	499	569	612	546	368	248	121	37	3712
1968	18	4	85	243	414	511	596	638	482	387	102	44	3524
1969	72	32	45	248	401	502	718	693	532	318	111	57	3789
1970	27	16	62	295	297	467	614	637	495	275	68	133	3386
1971	95	57	200	201	453	590	660	593	521	417	160	79	4006
1972	108	73	224	411	408	543	570	610	556	351	60	22	3936
1973	17	19	179	178	416	555	700	591	522	372	273	95	3857
1974	60	39	214	220	440	422	528	578	346	240	68	23	3178
1975	76	31	156	287	468	530	566	539	389	241	124	40	3447
1976	22	84	147	238	327	555	585	622	515	136	34	0	3235
1977	4	33	148	211	449	567	647	659	564	272	91	47	3686
MEAN	47	50	146	274	425	543	624	628	496	292	117	47	3684

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

KINGSVILLE, TEXAS

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
12928	Kingsville, Texas	27°30'N	97°49'W	50	KNQI	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office, hangar #760	NS		1954	27°30'N	97°49'W	60	Mercurial	24
2.	" " " "	"		1954	"	"	60	"	24
1a.	Weather service office, Bldg 1770	"	1954	1968	"	"	55	Aneroid	24
2a.	" " " " "	NAAS	1954	1965	"	"	58	"	24
2b.	" " " " "	NAS	1965		"	"	57	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1954	Discontinued	Selsyn	Double register		1. Barograph (7 day open scale) 2. Semi-auto met. station (GMQ-14) 3. Ceiling light (ML/121) 4. Cloud set (AN/GMQ-13C) 5. Transmissometer (AN/GMQ-10C) 6. Radar Fax Recorder (GMH-6(V) 7. Closed circuit TV (AN/GMQ 27-V) 8. Sta. press. alt. (Kollsman) 9. Pilot to forecaster transmitter/ receiver (AM-413A/6) 10. Tpg. bucket rain gauge (GMQ-14) 11. RVR 1D-1348 12. Alt. stg. contr. indic. C-7826/F
2.	1954	Installed transmitter on roof of operations building. Recorder is located in weather service office, building 1770.	AN/UMQ-5B	RD-108/ UMQ-5	62' Above Ground	
3.	1961	Transmitter 500' west of operations building # 1770	UMQ-5C	RD-108B	20'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Air Engineering Center at Lakehurst, New Jersey is located in east central New Jersey approximately 12 miles inland from the Atlantic Ocean. East central New Jersey has a generally flat topography with some rolling hills. In the immediate vicinity of the station are numerous swamps, cranberry bogs, small rivers, and lakes. NAEC Lakehurst is close enough to the coast to experience two recurring coastal phenomena, a sea breeze and coastal fog. Both of these occur most frequently during the late spring, summer and early autumn. There is very little seasonal variation in the rainfall. Precipitation is fairly uniform for all seasons ranging from a high monthly average of 3.8 inches during the summer to a low of 3.2 inches per month during the spring.

The winter months (December - March) are characterized by storms that move along the eastern seaboard. These storms bring high winds and heavy precipitation in the form of snow, ice pellets and/or rain. The "Gulf" or "Hatteras" lows produce the poorest local flying weather, but the station experiences marginal flying weather only 18% of the time annually.

The spring transition is a period of contrasting weather particularly during April, whereas the autumn is a season of comfortable temperatures and generally pleasant weather. The summer months are warm and humid with occasional showers and thunderstorms. Ground fog is a major weather problem in the summer especially during the early morning hours. Marginal visibility is also a problem when low level southwesterly winds advect industrial pollutants from the Philadelphia area. The resulting haze and smoke may linger for several days in the local flying area.

LAKEHURST, NEW JERSEY

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: LAKEHURST, NEW JERSEY
LOCATION : N40 02 W74 21

PERIOD: FEB 45-DEC 77
ELEV : 93

STN LTRS: KNEL
WBAN # : 14780
WMO # : 72409

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL			RELATIVE	VAP PRESS	DEW PT	PRESS ALT	SFC PVLG	WINDS		MEAN AMT	MEAN NUMBER OF DAYS OCCURRENCE OF: PRECIP		SNOWFALL		THUNDER	VISIBILITY	MAX		MIN
	MEAN DAILY		MON	EXTREMES		M O N T H			MAX 24			HUM					SPEED											
	MAX	MIN		MAX	MIN	MEAN	MAX	MIN	HRS	MN	MAX	LST 04 13	IN OF HG	DEG F	99.95% FEET	DRCTN	MN	MAX	CLD IN TENTH	.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	US NT DMES R	SB Y FOG 7MI	MAX DEG < 90	DEG > 75	F = AND < 32	MIN AND < 10
JAN	40	24	32	76	-4	3.3	9.2	.5	4.0	6	22	75 62	.12	23	850	W	8	58	6	11	2	4	1	#	13	0	#	25	4
FEB	42	25	34	76	-7	3.2	7.1	1.1	2.4	7	27	73 59	.12	23	950	W	9	63	6	9	2	4	1	#	12	0	#	22	2
MAR	50	32	41	89	3	3.9	7.3	.5	2.2	6	35	18 74 56	.16	29	900	WNW	9	76	6	11	3	2	1	1	15	0	1	17	#
APR	61	40	51	93	20	3.3	6.6	.9	2.9	#	4	3 76 50	.22	37	900	W	8	60	6	11	2	#	#	2	15	#	4	5	0
MAY	71	50	61	95	31	3.1	7.5	.3	4.6	#	#	# 81 52	.34	48	800	W	7	60	6	11	2	0	0	4	18	1	12	#	0
JUN	80	59	70	100	40	3.2	7.2	#	5.0	0	0	0 86 54	.50	59	700	W	7	62	6	10	2	0	0	5	20	5	22	0	0
JUL	85	65	75	102	49	4.0	9.9	1.0	4.2	0	0	0 87 54	.60	64	600	SW	6	55	6	9	3	0	0	6	21	7	29	0	0
AUG	83	63	73	102	42	4.5	10.6	.9	3.8	0	0	0 88 57	.58	63	450	W	6	61	6	9	3	0	0	6	23	4	27	0	0
SEP	76	56	66	100	30	3.5	10.2	.6	4.9	0	0	0 88 58	.47	57	550	W	6	51	6	8	2	0	0	2	21	2	17	#	0
OCT	66	46	56	90	17	3.3	7.2	.2	4.4	#	#	# 85 55	.31	46	750	W	6	75	5	7	2	#	0	1	19	#	6	2	0
NOV	55	37	46	83	14	3.7	9.0	.4	4.1	1	7	7 80 58	.22	37	750	W	7	71	6	10	3	#	#	1	15	0	1	11	0
DEC	43	27	35	73	2	4.0	8.2	.5	3.0	4	19	17 77 62	.15	27	900	W	8	54	6	10	3	2	1	#	15	0	0	22	2
ANN	63	44	53	102	-7	43.0	10.6	#	5.0	24	35	18 81 56	.28	43	750	W	7	76	6	116	29	12	4	28	207	19	119	104	8
EYR	33	33	33	33	33	33	33	33	33	32	32	32 31 33	32	32	32	32	32	33	28	33	33	32	32	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY>0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	32	29	30	27	29	26	23	24	29	25	31	32	28	31
LESS 5000	04	31	31	32	32	36	33	32	31	32	30	30	33	32	31
FT AND/OR	07	34	32	32	30	32	30	29	31	38	35	31	35	32	33
VISIBILITY	10	30	31	37	34	33	31	31	30	32	30	30	30	32	33
LESS 5 MI	13	33	35	41	38	39	40	43	41	39	34	36	35	38	33
	16	27	30	37	35	31	33	32	31	29	24	31	31	31	33
	19	26	27	30	27	25	21	19	18	23	22	28	29	25	33
	22	28	27	28	25	26	24	18	19	25	24	28	29	25	33
	ALL HRS	30	30	33	31	31	30	28	28	31	28	31	32	30	32
CEILING	01	16	14	15	14	18	15	12	12	14	12	12	14	14	31
LESS 1000	04	16	14	17	16	21	20	18	16	17	16	13	14	16	31
FT AND/OR	07	16	15	18	17	19	17	15	15	19	17	13	14	16	33
VISIBILITY	10	13	15	16	11	11	8	7	7	7	10	11	13	11	33
LESS 3 MI	13	12	12	13	9	8	6	4	4	6	5	10	13	9	33
	16	12	11	13	10	7	5	3	5	6	6	9	13	8	33
	19	12	12	14	12	10	8	4	5	7	8	10	13	9	33
	22	14	15	13	12	13	11	7	8	9	10	11	13	11	33
	ALL HRS	14	14	15	13	13	11	9	9	10	10	11	14	12	32
CEILING	01	9	9	10	9	12	9	6	6	10	7	6	8	8	31
LESS 500	04	10	10	10	9	14	13	11	9	11	10	7	9	10	31
FT AND/OR	07	9	9	10	8	10	9	7	7	9	9	6	7	8	33
VISIBILITY	10	7	6	7	4	4	2	1	1	2	3	3	6	4	33
LESS 1 MI	13	5	5	5	3	3	2	0	1	2	1	2	5	3	33
	16	5	5	6	3	3	1	0	1	2	1	4	6	3	33
	19	6	7	7	6	5	4	1	2	3	2	5	7	4	33
	22	8	8	8	8	9	7	3	3	5	5	5	7	6	33
	ALL HRS	7	7	8	6	7	6	4	4	5	5	5	7	6	32
CEILING	01	2	2	2	2	3	2	2	2	3	3	3	1	2	31
LESS 100	04	2	2	2	2	4	4	3	3	4	4	3	2	3	31
FT AND/OR	07	2	2	2	1	1	1	1	1	2	3	2	2	2	33
VISIBILITY	10	1	0	0	0	0	0	0	0	0	0	0	0	0	33
LESS 1/2 MI	13	1	0	0	0	0	0	0	0	0	0	0	0	0	33
	16	1	1	0	0	0	0	0	0	0	0	0	0	0	33
	19	1	1	1	1	1	0	0	0	0	0	0	1	1	33
	22	2	1	1	1	2	2	0	1	1	2	1	1	1	33
	ALL HRS	1	1	1	1	1	1	1	1	1	2	1	1	1	32

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1943	M	33.7	51.2	54.8	59.9	71.0	74.1	72.0	69.7	55.0	47.2	29.8	M
1944	34.0	33.3	48.6	49.9	61.4	68.0	73.6	70.2	68.6	60.2	48.9	37.8	54.5
1947	38.8	27.8	36.6	50.7	60.8	68.0	75.0P	74.4	66.9	61.4	42.6P	32.3	M
1948	25.9	29.7	42.9P	49.3	59.7	68.6	75.3	73.2	66.5	54.3	50.8	36.8	M
1949	34.8	39.0	42.5	52.1	61.9P	71.4	77.1	74.5	51.7	M	44.8	39.0P	M
1950	43.7	32.6	36.9	47.4	57.6	68.8	73.8	71.3	62.5	57.6	46.4	33.1	52.6
1951	35.7	35.8	41.3	51.2	61.1	68.0	74.7	72.3	66.1	57.4	42.6	38.4	53.7
1952	36.2	36.1	39.1	53.0	59.7	71.9	77.9	73.3	66.7	52.4	45.7	37.2	54.1
1953	37.7	37.6	42.6	51.2	63.3	71.3	74.9	73.4	67.4	57.7	46.8	39.6	55.3
1954	31.6	40.7	40.7	54.0	58.6	69.6	74.5	71.2	67.1	59.9	43.8	35.0	53.9
1955	30.0	34.1	42.2	53.0	64.1	67.6	78.9	76.6	65.3	58.0	43.5	29.0	53.5
1956	31.0	36.8	37.2	47.3	57.9	70.5	72.3	72.4	63.9	56.3	45.9	41.4	52.8
1957	28.2	36.6	40.9	52.5	61.2	72.7	74.9	70.3	68.4	54.2	47.2	38.7	53.8
1958	30.6	26.8	38.4	52.2	59.0	66.0	76.6	72.8	65.9	54.6	46.8	28.6	51.5
1959	31.4	32.7	40.1	52.6	64.6	70.8	74.7	75.9	69.5	58.8	45.1	37.9	54.5
1960	34.8	36.2	32.2	54.9	60.7	70.4	72.9	72.9	66.0	59.0	47.6	28.4	52.7
1961	26.0	35.5	40.8	47.7	58.1	69.7	74.9	73.2	71.3	56.9	46.6	33.7	52.9
1962	31.4	31.0	39.6	50.9	61.4	69.7	71.4	70.5	62.5	55.3	41.6	30.5	51.3
1963	29.5	27.9	43.6	51.1	59.3	69.4	74.2	71.0	62.3	59.0	49.3	28.1	52.1
1964	33.9	31.0	42.5	48.5	62.5	69.2	75.0	70.7	64.9	53.4	47.9	36.5	53.1
1965	27.9	32.7	37.6	47.5	64.8	68.9	73.2	72.6	67.3	53.2	46.5	37.8	52.3
1966	29.8	32.6	41.3	46.2	57.9	70.3	75.1	73.4	63.5	53.2	47.2	36.0	52.2
1967	36.7	29.5	37.3	49.9	56.0	70.1	73.2	71.3	62.9	53.9	40.7	36.8	51.4
1968	27.5	28.5	42.7	51.7	58.9	69.0	74.5	75.0	64.0	56.8	44.6	32.6	52.4
1969	29.4	30.1	37.2	54.2	62.1	71.0	72.6	73.9	66.0	54.1	43.8	32.6	52.3
1970	24.4	32.3	36.8	49.8	61.3	69.0	74.3	73.3	68.0	57.2	47.4	34.8	52.4
1971	27.1	34.6	38.6	48.4	58.0	70.4	73.7	72.4	69.9	61.5	43.8	40.8	53.3
1972	33.9	31.3	38.5	47.0	60.1	66.9	75.9	72.4	67.2	59.4	42.4	39.5	52.0
1973	34.2	32.1	45.8	52.4	58.3	70.2	75.4	74.7	67.7	59.3	46.9	38.8	54.5
1974	34.7	31.1	42.1	53.8	58.7	67.0	73.9	73.4	64.7	51.8	51.0	38.4	53.5
1975	34.0	35.0	38.9	46.0	63.2	69.5	74.2	73.4	63.3	58.3	51.4	35.6	53.7
1976	27.6	40.2	44.3	53.7	60.1	71.9	72.5	72.2	64.4	50.6	39.3	29.5	52.2
1977	29.1	33.3	46.4	52.4	62.5	67.7	74.9	73.9	67.6	52.9	46.9	33.9	52.7
MEAN	31.8	33.3	40.8	50.8	60.3	69.6	74.5	72.8	65.9	55.8	45.9	35.0	53.0

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1943	M	3.12P	2.53P	2.08	3.78	3.46	6.46	2.42	2.48	1.59	6.31	3.96P	M
1944	1.72P	1.52	2.49	.93	4.52P	5.95P	1.39P	6.71	2.86P	1.06P	1.02	2.40	M
1947	2.61	1.12	1.69	2.94	5.78P	2.60	3.29P	3.08	1.77	1.55	4.60P	3.08P	M
1948	4.28P	1.30	1.59P	2.85	3.98	2.13P	3.20	4.53	1.53	1.26	1.20	3.71	M
1949	4.05	3.50	2.38	1.92	2.84P	.01	1.74	5.97	1.65	M	1.80	1.17P	M
1950	.65	1.46	2.67	2.08	3.03P	2.67	3.23	3.81	4.05	2.63	4.67	3.32	M
1951	3.67	3.53	4.85	2.49	2.98	3.64	2.57	1.94	1.30	5.60	6.06	5.72	44.10
1952	6.03	2.31	6.13	6.63	6.17	1.77	1.70	10.33	2.25	.97	3.39	4.98	52.66
1953	5.26	3.37	6.94	5.89	4.63	4.52	4.54	4.43	.81	3.04	4.75	3.58	51.76
1954	1.96	2.26	3.23	4.87	4.69	.27	1.46	0.67	10.18	1.38	4.10	4.10	45.17
1955	.46	2.60	4.30	2.59	2.38	5.13	1.04	7.71	3.02	6.78	1.45	.51	37.97
1956	2.78	6.15	5.51	3.58	2.03	2.12	7.81	2.78	4.00	5.75	3.48	3.65	49.67
1957	1.64	2.99	3.14	3.87	.33	3.88	3.63	1.27	1.65	2.26	4.36	8.03	37.35
1958	9.19	6.06	5.79	5.14	4.48	3.48	7.56	5.59	4.70	7.17	2.03	1.77	62.96
1959	1.82	1.30	4.08	2.02	2.69	1.21P	9.49	3.65	.61	9.31	7.21	6.93	M
1960	5.67	7.05	5.25	2.64	2.38	2.34	4.50	4.02	8.31	2.42	2.24	3.26	50.08
1961	4.63	3.06	7.28	4.44	5.03	2.90	3.82	4.13	3.06	4.46	2.59	3.82	49.24
1962	2.95	3.20	4.42	3.19	1.64	5.76	3.87	5.89	3.78	2.77	4.65	2.37	44.49
1963	1.77	2.27	3.96	1.11	1.91	2.31	2.31	2.69	3.75	.22	6.87	2.27	31.44
1964	3.90	4.08	1.88	5.95	.36	2.35	6.97	1.13	3.91	2.91	1.81	4.72	39.97
1965	3.95	2.76P	4.78	2.53	1.18	3.06	3.43	1.89	1.40	1.18	1.05	1.39	M
1966	4.28	4.88	.53	3.59	3.67	2.56	3.35	.91	8.52	4.31	2.26	3.02	41.88
1967	1.51	3.36	4.82	2.84	3.25	2.55	5.03	8.57	1.97	1.72	1.95	4.70	42.27
1968	2.66	1.50	4.36	1.64	7.47	7.24	2.60	4.75	1.44	2.68	5.91	3.15	45.35
1969	1.81	2.46	3.31	3.07	1.76	3.28	9.90	1.90	3.48	1.89	3.36	8.24	44.66
1970	1.55	3.76	3.96	6.33	2.62	4.45	1.41	4.42	2.06	1.01	4.42	3.64	39.64
1971	2.23	4.97	2.63	2.13	4.23	.76	2.12	8.38	6.58	9.64	4.92	2.00	46.59
1972	2.66	5.11	3.36	3.63	4.66	5.51	2.78	1.98	1.18	6.40	8.46	4.96	50.60
1973	4.11	3.92	4.02	6.15	3.77	5.10	2.01	3.28	4.80	.99	6.43	4.47	46.47
1974	3.00	2.87	4.38	2.58	1.76	3.27	1.60	4.83	4.17	1.92	1.92	6.02	38.32
1975	4.98	2.53	3.23	3.39	3.51	4.39	4.67	2.47	6.59	3.54	3.37	2.84	45.51
1976	4.25	2.31	1.96	1.48	2.54	2.24	1.67	5.50	1.39	8.77	.40	2.22	31.82
1977	3.04	1.57	3.32	2.30	.90	2.98	5.49	10.56	7.41	4.12	9.02	6.11	56.83
MEAN	3.30	3.17	3.90	3.29	3.13	3.22	3.95	4.45	3.51	3.25	3.75	4.00	42.86

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45								870	665	310	190	80	M
45-46	2	5	31	306	528	1082	934	884	903	448	181	67	4961
46-47	2	8	29	173	674	836	804	1038	976	431	107	37	4893
47-48	M	0	118	149	M	1007	1267	1016	M	468	193	26	M
48-49	1	9	54	330	427	864	807	723	693	386	M	32	M
49-50	0	3	398	M	597	M	651	903	876	521	234	33	M
50-51	0	4	129	236	561	980	901	810	726	414	151	42	4992
51-52	0	2	58	252	665	817	885	832	796	359	182	15	4863
52-53	0	3	47	391	570	858	828	780	690	416	109	27	4711
53-54	1	0	68	223	529	783	1029	676	744	346	210	24	4639
54-55	0	1	50	256	629	924	1078	859	701	359	100	45	5002
55-56	0	1	69	228	639	1109	1048	813	855	536	244	28	5570
56-57	5	7	123	264	568	725	1134	788	762	385	173	28	4942
57-58	0	10	72	329	527	805	1061	1065	814	385	209	45	5388
58-59	0	2	66	334	538	1121	1035	897	763	371	129	32	5288
59-60	0	0	56	275	596	936	929	828	1009	316	148	12	5005
60-61	0	2	49	211	513	1129	1202	820	762	511	228	17	5518
61-62	0	3	66	247	558	962	1080	944	780	440	184	16	5210
62-63	0	11	120	302	687	1063	1095	1035	456	416	208	80	5681
63-64	0	9	128	199	463	1134	936	979	689	496	146	41	5240
64-65	1	12	76	359	508	876	1143	896	847	519	97	50	5377
65-66	1	17	70	382	607	836	1085	897	726	559	244	37	5440
66-67	0	0	113	305	527	893	971	989	852	449	340	18	5417
67-68	0	3	111	389	722	868	1139	1091	689	390	205	23	5579
68-69	0	0	26	270	604	999	1097	969	852	329	144	13	5309
69-70	0	1	87	342	631	997	1230	909	869	448	170	17	5721
70-71	0	0	67	252	522	926	1168	845	813	496	225	28	5338
71-72	0	3	29	128	627	746	955	972	814	535	176	39	5021
72-73	0	3	48	178	572	783	917	917	807	392	227	8	5046
73-74	0	2	49	280	525	809	904	940	703	347	222	37	4828
74-75	2	2	99	403	615	819	894	895	799	569	122	17	4968
75-76	0	4	92	216	410	905	1153	716	626	376	181	32	4711
76-77	0	12	90	442	758	1099	1386	885	579	389	139	39	5819
77-78	0	0	49	307	553	956							
MEAN	1	5	82	294	568	929	1022	890	744	427	189	32	5173

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1943		0	23	11	27	265	293	231	178	6	1	0	M
1944	0	0	0	0	45	165	278	175	145	31	0	0	839
1947	0	0	0	11	63	136	M	299	181	46	M	0	M
1948	0	0	M	0	34	141	327	260	107	6	9	0	M
1949	0	0	4	4	M	231	382	302	9	M	0	M	M
1950	0	0	0	4	14	155	280	202	64	14	10	0	743
1951	0	0	0	4	35	141	304	238	97	26	0	0	845
1952	0	0	0	7	21	229	408	267	106	8	0	0	1046
1953	0	0	0	11	63	222	316	268	146	4	0	0	1030
1954	0	0	0	16	18	170	306	202	120	106	0	0	938
1955	0	0	0	3	78	133	438	366	86	18	0	0	1122
1956	0	0	0	11	32	202	240	245	99	0	3	0	832
1957	0	0	0	16	63	266	314	179	182	3	0	0	1023
1958	0	0	0	4	23	100	365	231	99	20	0	0	862
1959	0	0	0	7	125	216	306	343	200	91	4	0	1292
1960	0	0	0	18	22	180	253	254	77	9	0	0	813
1961	0	0	0	3	20	165	313	262	241	3	12	0	1021
1962	0	0	0	24	79	164	205	188	51	11	0	0	722
1963	0	0	0	4	38	168	290	199	55	16	0	0	770
1964	0	0	0	6	75	172	318	197	108	2	0	0	878
1965	0	0	0	0	96	171	260	236	146	4	0	0	933
1966	0	0	0	0	30	206	322	264	71	1	0	0	894
1967	0	0	0	4	6	179	262	207	54	17	0	0	729
1968	0	0	0	0	12	151	302	323	119	21	0	0	928
1969	0	0	0	12	60	199	241	261	125	10	0	0	928
1970	0	0	0	0	62	142	296	268	165	18	0	0	951
1971	0	0	0	0	13	198	275	245	180	25	11	0	947
1972	0	0	0	0	30	100	319	238	121	0	0	0	808
1973	0	0	0	19	25	226	334	307	136	17	0	0	1064
1974	0	0	0	19	33	106	285	273	94	1	1	0	812
1975	0	0	0	0	71	159	292	270	47	16	7	0	862
1976	0	0	0	44	34	249	239	240	79	6	0	0	891
1977	0	0	10	19	69	127	319	290	134	0	0	0	968
MEAN	0	0	1	9	45	177	303	254	116	17	2	0	924

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

LAKEHURST, NEW JERSEY

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
14780	Lakehurst, New Jersey	40°02'N	74°21'W	93	KNEL	72409

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	South side of room 220-General Service Bldg (Weather service off.)	Navy		1959	40°02'N	74°21'W	120.5	Mercurial	24
2.	North side of room 202-HTA hangar (Weather service office)	"	1959	1966	"	"	110	"	24
3.	Weather office, 2nd deck	"	1966	1976	"	"	110	"	24
1a.	Weather Office	"	1966	1971	"	"	110	Aneroid	24
2a.	Building 307, room 201	"	1971	1976	"	"	110	"	24
3a.	" " " "	"	1976		"	"	110	"	18

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		On 50' mast atop General Service Building No. 150	Selsyn	Triple	79'	1. Barograph 2. Semi-auto met. station
1a.		Atop General Service Building No 150	aero-vane		79'	3. Cloud height set (AN/GMQ-13B) 4. Ceiling light (ML-121)
2.	1951	Atop General Service Building	Selsyn	Triple	63'7"	5. Fax Recorder (GMH-6)
2a.	1951	" " " "	aero-vane		63'	6. Cloud height recorder (RD-121) 7. Cloud height indicator (1P 327B)
3a.	1959	Transmitter "B" 900' southeast, Building 307	AN/UMQ-5	RD-108B	28'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Lemoore is located in the center of the Southern San Joaquin Valley, about 30 miles southwest of Fresno, California. The terrain around Lemoore is generally flat and level, consisting mainly of irrigated crop fields and fruit orchards. The foothills of the Sierra Nevada mountains begin their rise rather abruptly 40 miles east of Lemoore. Twenty miles to the west, the foothills of the Diablo Range of the Coastal mountains rise abruptly.

The climate at Lemoore is dry, with mild winters and hot summers. Nearly all the annual precipitation falls from November to March.

Clear skies prevail nearly 8 months of each year. From mid-November to mid-February the flying weather at Lemoore is occasionally marginal. Fog accounts for nearly all the instrument flight conditions at Lemoore. Aside from the winter fog the only other obstruction reducing normally good visibility is smoke produced by burning in the fields adjacent to the station.

The effects of frontal systems differ widely depending upon speed of movement and intensity with the emphasis on speed of movement.

The prevailing winds at Lemoore are directly related to the orientation of the San Joaquin Valley, north-northwest to south-southeast. Of particular interest are the strong gradient winds that produce an eddy effect in the southern portion of the San Joaquin Valley; however, gradient winds at Lemoore will be northwesterly at 25-35 knots.

Destructive storms and other severe weather phenomena are almost non existent in the San Joaquin Valley.

The climatological feature for which Lemoore is most noted are the 100 degrees plus temperatures recorded almost daily from early June to early September of each year. These temperature extremes are tolerable due to the low humidity and constant light winds that produce almost "tropical" evenings.

LEMOORE, CALIFORNIA

PREPARED BY: NWSO ASHEVILLE JUNE 1978

STATION NAME: LEMOORE, CALIFORNIA
LOCATION : N36 20 W119 57

PERIOD: JUL 61-DEC 77
ELEV : 235

STN LTRS: KNLC
WBAN # : 23110
WMO # : 74702

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MEAN	SNOWFALL MAX	SNOWFALL MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SFC WINDS SPEED MN	SFC WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER STORMS DAYS	VISIBILITY 7MI FOG	MAX TEMP DEG > 90	MAX TEMP DEG > 75	MIN TEMP AND < 45	MIN TEMP AND < 32
JAN	54	34	43	75	14	1.2	3.3	#	1.3	#	3	3	86	68	.22	37	900	SSE	4	38	6	6	#	#	#	#	23	0	#	28	13
FEB	62	39	51	81	21	1.2	3.9	#	1.4	#	#	#	83	60	.26	41	550	N	4	43	5	7	#	0	0	#	17	0	1	23	6
MAR	68	40	54	90	22	.8	1.8	#	.8	0	0	0	75	45	.25	40	550	NNW	5	49	4	5	#	0	0	#	7	#	6	26	4
APR	75	43	59	99	30	.5	1.5	#	.7	0	0	0	67	34	.24	39	900	NNW	6	37	4	4	#	0	0	#	2	2	18	20	1
MAY	85	51	68	107	34	.3	1.3	.0	.3	0	0	0	57	28	.28	43	550	NNW	6	37	3	2	#	0	0	#	1	10	27	6	0
JUN	93	57	75	112	43	.1	.4	.0	.4	0	0	0	52	25	.32	47	550	NNW	7	36	2	1	0	0	0	#	#	19	29	1	0
JUL	99	62	81	113	47	#	.2	.0	.2	0	0	0	46	23	.36	50	900	NNW	6	28	1	#	0	0	0	#	#	29	31	0	0
AUG	97	61	79	112	48	#	.1	.0	.1	0	0	0	51	26	.39	52	900	NNW	6	27	1	#	0	0	0	#	#	27	31	0	0
SEP	91	56	73	107	41	.2	2.9	.0	1.3	0	0	0	56	30	.35	49	550	NNW	5	32	1	1	#	0	0	1	1	17	30	1	0
OCT	80	48	64	101	24	.4	1.3	.0	.8	0	0	0	60	34	.27	42	900	NNW	4	39	2	2	#	0	0	#	4	5	22	10	#
NOV	65	40	53	87	22	.9	2.7	.0	.9	0	0	0	76	54	.25	40	900	N	4	33	5	5	#	0	0	#	15	0	4	23	5
DEC	54	35	45	77	18	1.1	3.7	.1	.9	#	#	#	86	70	.23	38	900	SSE	3	41	6	7	1	0	0	#	24	0	#	28	11
ANN	77	47	62	113	14	6.7	9.3	.0	1.4	#	3	3	66	41	.28	43	650	NNW	5	49	3	40	1	#	#	1	94	109	196	164	40
EYR	17	17	17	17	17	17	17	17	17	17	17	17	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.3DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	40	22	6	4	2	0	0	0	1	2	16	46	12	17
LESS 5000	04	48	27	8	6	2	0	0	0	1	3	22	52	14	16
FT AND/OR	07	58	36	13	8	5	2	0	0	1	5	29	60	18	16
VISIBILITY	10	52	33	11	11	6	3	0	1	1	4	22	52	16	16
LESS 5 MI	13	39	26	18	18	7	3	1	0	1	5	19	41	15	17
	16	32	18	14	14	7	3	0	0	1	3	14	32	11	17
	19	29	13	9	7	5	0	1	0	0	3	13	31	9	17
	22	33	18	7	4	3	1	0	0	1	2	12	36	10	17
	ALL HRS	41	24	11	9	4	2	0	0	1	3	18	44	13	16
CEILING	01	26	10	0	0	0	0	0	0	0	1	8	32	6	17
LESS 1000	04	35	17	0	1	0	0	0	0	0	1	12	39	9	16
FT AND/OR	07	41	21	2	2	1	0	0	0	0	2	18	44	11	16
VISIBILITY	10	35	19	2	1	1	0	0	0	0	1	12	36	9	16
LESS 3 MI	13	21	8	0	1	1	0	1	0	0	0	6	22	5	17
	16	15	6	0	1	1	0	0	0	0	1	4	17	4	17
	19	17	4	0	1	1	0	0	0	0	0	5	18	4	17
	22	21	6	0	0	0	0	0	0	0	0	5	24	5	17
	ALL HRS	26	12	1	1	1	0	0	0	0	1	9	29	7	16
CEILING	01	17	6	0	0	0	0	0	0	0	0	4	17	4	17
LESS 200	04	24	11	0	0	0	0	0	0	0	0	6	24	5	16
FT AND/OR	07	29	14	1	2	1	0	0	0	0	1	10	28	7	16
VISIBILITY	10	19	9	1	1	1	0	0	0	0	0	4	15	4	16
LESS 1/2 MI	13	3	1	0	1	1	0	1	0	0	0	0	1	1	17
	16	2	0	0	1	1	0	0	0	0	0	0	1	1	17
	19	6	1	0	1	1	0	0	0	0	0	1	4	1	17
	22	11	3	0	0	0	0	0	0	0	0	2	9	2	17
	ALL HRS	14	6	0	1	1	0	0	0	0	0	3	12	3	16
CEILING	01	12	4	0	0	0	0	0	0	0	0	2	11	3	17
LESS 100	04	17	6	0	0	0	0	0	0	0	0	4	15	4	16
FT AND/OR	07	19	9	1	1	1	0	0	0	0	1	6	18	5	16
VISIBILITY	10	8	4	1	1	1	0	0	0	0	0	1	7	2	16
LESS 1/4 MI	13	1	0	0	1	1	0	1	0	0	0	0	0	0	17
	16	1	0	0	1	1	0	0	0	0	0	0	0	0	17
	19	3	0	0	1	1	0	0	0	0	0	0	3	1	17
	22	7	2	0	0	0	0	0	0	0	0	1	6	1	17
	ALL HRS	9	3	0	1	1	0	0	0	0	0	2	8	2	16

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1961	M	M	M	M	M	M	81.8	81.7	71.0	63.4	51.1	44.0	M
1962	40.0	48.2	52.5	63.4	68.2	79.2	78.7	78.1	71.7	61.1	55.6	47.5	61.5
1963	42.6	47.1	54.9	57.0	68.2	71.4	76.9	76.2	73.7	62.0	49.3	37.6	60.5
1964	41.7	45.6	54.3	59.0	66.0	73.0	80.4	79.2	70.4	67.6	49.9	48.0	60.8
1965	45.0	48.2	53.9	62.0	68.2	71.4	80.6	79.6	68.4	63.6	54.4	41.2	61.5
1966	43.8	46.0	55.3	64.2	70.3	74.8	77.0	80.9	72.2	66.3	53.5	46.3	62.4
1967	46.5	45.2	52.6	60.9	66.3	73.0	83.0	80.1	77.2	66.9	52.7	41.0P	M
1968	42.1	46.9	54.2	62.0	68.8	78.0	84.0	77.9	75.6	63.6	51.4	42.6	62.9
1969	44.6	48.2	52.7	58.5	66.9	71.4	82.6	79.2	74.0	61.2	53.1	46.1	61.7
1970	48.9	51.3	53.1	54.0	67.4	76.3	82.8	79.1	71.8	62.0	52.8	49.0	62.1
1971	46.4	48.7	53.8	58.2	66.7	76.3	80.8	80.7	76.3	61.0	49.9	43.2	61.0
1972	40.9	46.9	61.1	61.3	69.8	77.2	80.9	78.9	73.0	64.5	51.5	42.7	63.0
1973	45.8	52.1	49.4	58.9	72.1	77.5	79.1	79.3	71.7	62.2	51.8	43.1	62.0
1974	47.2	48.1	54.4	59.7	69.3	77.8	81.8	80.2	78.3	67.7	53.8	45.8	64.0
1975	44.8	51.7	55.7	55.9	69.5	76.4	80.5	79.0	76.4	63.3	51.3	45.3	62.9
1976	48.9	52.1	53.6	57.7	70.7	75.2	81.5	79.0	76.3	67.6	56.4	46.8	63.1
1977	48.5	52.6	51.1	63.5	69.4	78.9	80.6	80.1	75.8	66.8	53.9	50.3	63.1
MEAN	44.3	48.6	53.7	59.0	67.9	75.1	80.9	79.4	73.4	64.0	52.7	44.8	62.2

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1961	M	M	M	M	M	M	T	T	.04	T	1.35	1.39	M
1962	.83	3.48	1.70	T	.02	T	.00	T	.00	.13	.00	.29	9.67
1963	1.01	1.58	.77	1.41	.65	T	.00	.02	.14	.78	1.07	.08	7.52
1964	.84	.02	.65	.10	.05	.03	T	.14	.00	.93	.84	.82	4.63
1965	.54	.90	.69	1.87	.00	.00	.03	.01	T	.04	2.49	1.23	8.98
1966	.42	.78	T	T	.35	.07	.11	.00	.02	.00	.62	2.13	4.33
1967	1.44	.08	1.29	1.06	.25	.27	.00	.00	.24	.01	1.72	.36P	M
1968	.55	.46	1.16	.21	.16	T	T	.02	.00	1.32	1.09	1.36	6.79
1969	3.24	3.72	.67	.76	.05	.38	.21	.00	.12	.03	.46	.38	12.12
1970	1.44	1.26	1.09	.13	.00	T	T	.00	.00	.09	1.81	1.90	8.87
1971	.17	.21	.10	.04	1.27	T	T	T	.08	.01	.28	1.18	4.09
1972	.06	.11	T	.13	.07	.04	.01	.00	.05	.05	2.72	.01	3.85
1973	2.70	2.40	1.39	.04	T	T	.00	.09	.00	.73	.47	.02	8.64
1974	2.41	.03	1.32	.16	.00	.00	T	T	.00	.69	.07	1.42	6.32
1975	.10	1.06	1.74	.92	.00	.00	T	.03	.04	.00	.13	.12	4.16
1976	T	2.10	.33	1.17	.00	.04	.02	.06	2.34	.50	.76	.01	8.13
1977	.68	.03	.91	T	1.14	.24	.00	T	T	.04	.40	3.07	7.11
MEAN	1.15	1.15	.82	.92	.25	.07	.02	.02	.20	.35	.92	1.09	6.85

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
60-61													M
61-62	0	0	4	147	612	648	771	461	381	79	52	4	2996
62-63	0	0	0	131	384	543	685	218	336	249	23	1	2637
63-64	0	0	8	135	467	692	717	359	434	191	104	7	3490
64-65	0	0	5	48	448	520	611	440	353	199	48	7	2861
65-66	0	0	11	35	318	783	685	524	490	70	5	0	2940
66-67	0	0	4	60	337	576	837	423	376	448	84	21	2903
67-68	0	0	0	37	274	M	709	285	276	132	31	1	M
68-69	0	0	0	76	400	697	824	465	378	199	50	1	2898
69-70	0	0	1	134	352	579	692	374	464	327	41	0	2864
70-71	0	0	9	139	358	612	630	506	463	204	63	6	2864
71-72	0	0	11	220	446	668	761	288	127	126	29	0	2656
72-73	0	0	0	76	400	685	887	394	476	196	21	1	2702
73-74	0	0	1	116	397	610	844	619	261	169	36	0	2553
74-75	0	0	0	31	326	567	621	565	464	276	38	0	2590
75-76	0	0	0	122	405	598	585	369	483	222	4	0	2938
76-77	0	0	1	38	283	566	666	341	423	76	120	0	2481
77-78	0	0	0	48	326	448							
MEAN	0	0	4	96	368	620	687	400	366	194	67	3	2710

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1961							526	526	185	103	0	0	M
1962	0	0	0	38	69	320	635	611	308	20	7	0	1305
1963	0	0	0	1	126	198	377	393	272	63	0	0	1373
1964	0	0	5	15	80	256	501	649	171	126	0	0	1611
1965	0	0	0	74	152	201	488	464	118	98	0	0	1595
1966	0	0	4	31	176	289	576	498	328	64	0	0	1469
1967	0	0	0	0	126	268	629	664	474	94	3	M	M
1968	0	0	0	31	183	401	594	464	376	36	0	0	1923
1969	0	0	2	8	176	199	565	448	278	22	0	0	1673
1970	0	0	0	0	118	348	559	465	321	46	0	0	1797
1971	0	0	0	8	63	300	603	493	298	102	0	0	1784
1972	0	0	17	21	184	372	486	438	267	64	0	0	1824
1973	0	0	0	19	266	387	665	613	210	36	6	0	1764
1974	0	0	0	15	175	388	529	493	412	120	0	0	2111
1975	0	0	0	2	184	346	487	442	409	77	0	0	1949
1976	0	0	0	6	189	312	518	517	286	121	2	0	1787
1977	0	0	0	38	46	422	488	496	271	102	0	0	1840
MEAN	0	0	2	21	142	313	498	484	265	70	1	0	1784

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

LEMOORE, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
23110	Lemoore, California	36°20'N	119°57'W	235	KNLC	74702

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1961	1966	36°20'N	119°57'W	238	Mercurial	24
2.	Replacement installed	"	1966	1976	"	"	238	"	24
1a.	Weather service office	"	1961		"	"	240	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1961	500' west of midpoint, runway 32L/14R	AN/UMQ-5	RD-108	10'	1. Barograph (marine) 2. Auto met. station (AN/GMQ-29) 3. Cloud height set (AN/GMQ-13C) 4. Theodolite (ML 474) 5. Transmissometer (AN/GMQ-10C) 6. Weather vision (AN/GMQ-19V) 7. Wind measuring set (AN/PMQ-3C) 8. (3) ASCI II Character Generators (CT 64) 9. Telephone answer set (AC 2)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

U.S. Naval Station at Mayport, Florida is located on the northeast coast of Florida on the Saint John's River. The surrounding terrain is mostly level and averages about 15 to 20 feet above mean sea level. It is generally a swampy area with a heavily wooded section of live oak to the south of the station. To the west and north, the station is bounded by the Saint John's River and to the east by the Atlantic Ocean. With easterly winds prevailing much of the time a maritime influence results that modifies the heat of summer and the cold of winter. Cold fronts usually become stationary before reaching Mayport. Those cold outbreaks that do make it south of the station are usually followed by gusty northwest to northeast winds lasting one to three days.

The annual mean temperature for Mayport is near 70 degrees F. June, July, and August are the warmest months with the normal average maximum temperature reaching 85 degrees F. to 88 degrees F. and the monthly extremes reaching up to 99 degrees F. December, January, and February are the coldest months with mean temperatures near 55 degrees F. and extreme lows ranging from 15 degrees F. in December to 23 degrees F. in February.

The average relative humidity varies from 85% in the morning to 70% in the afternoon. Precipitation all in the form of rain, totals about 43 inches per year. The greatest monthly rainfall occurs during the summer months. Local thundershower activity produces most of the summer rainfall. November and December are the driest months with about 2 inches of rainfall per month.

The prevailing winds are generally northeasterly in the fall and winter months. Southwesterly winds prevail during the spring and summer months except from May through September during the afternoon and early evening hours, a pronounced easterly sea breeze can be expected from 10 to 20 days per month. Destructive winds on the whole are rare in the area and are, in most instances, associated with thunderstorm activity; however, tornadoes and water spouts have been observed in the area during the passage of a severe squall line. The area is rarely affected by the full fury of hurricanes. Tropical storms reaching this latitude generally move parallel to the coastline, keeping well out to sea, or lose much of their force moving over land before reaching this area.

Flying conditions are for the most part good through the year with Visual Flight Rules(VFR) existing in excess of 90% most of the time. Morning fog can be expected on an average of 9 to 13 days per month except 15 to 20 days per month during January, February, and March.

MAYPORT, FLORIDA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: MAYPORT, FLORIDA
LOCATION : N30 24 W81 25

PERIOD: JAN 56-DEC 77
ELEV : 16

STN LTRS: KNRB
WBAN # : 03853
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAPR PRESS DEW PT	PRESS ALT	SFC WINDS		MEAN CLD AMT	PRECIP INCHES		SNOWFALL		THUS NT DM	VSBY FOG	MAX DEG		MIN AND
	DAILY MEAN MAX	DAILY MEAN MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	M O N T H MEAN	M O N T H MAX	M O N T H MIN	MAX 24 HRS	MN	MAX 24 HR	MAX	LST 04	LST 13	IN OF HG	DEW PT DEG F	ALT FEET 99.95%	DRCTN	SPEED MN	SPEED MAX	TENTH	.01 DR GTR	.5 DR GTR	.1 DR GTR	1.5 DR GTR	ES R	< 7MI	> 90	> 75	< 45	< 32
JAN	62	46	54	87	21	2.5	6.8	.5	1.9	#	#	#	84	68	.32	47	350	NNE	7	40	6	8	2	0	0	1	16	0	4	13	3
FEB	63	47	55	88	23	4.3	8.4	.7	3.8	0	0	0	81	64	.32	47	400	W	8	44	5	8	3	0	0	2	13	0	3	13	2
MAR	69	52	61	90	30	2.8	7.2	.5	4.8	0	0	0	80	62	.37	51	400	W	8	44	5	7	2	0	0	3	13	#	9	7	#
APR	76	61	69	92	43	2.0	4.0	.5	1.9	0	0	0	81	60	.49	58	400	W	8	45	5	6	2	0	0	3	13	1	18	#	0
MAY	81	67	74	98	51	2.9	11.9	.7	4.9	0	0	0	84	64	.62	68	300	E	7	40	5	8	2	0	0	5	12	3	27	0	0
JUN	85	72	79	99	57	5.5	12.8	1.1	5.7	0	0	0	86	68	.77	71	200	E	7	45	6	12	3	0	0	10	9	5	30	0	0
JUL	88	74	81	99	67	5.5	10.2	2.2	3.3	0	0	0	89	68	.82	73	150	S	6	39	6	14	3	0	0	14	10	10	31	0	0
AUG	87	74	81	98	68	5.7	11.3	2.6	4.5	0	0	0	91	72	.85	74	200	S	5	40	5	13	3	0	0	12	12	7	31	0	0
SEP	85	74	79	98	57	4.6	11.2	1.0	5.5	0	0	0	84	71	.79	72	200	E	8	80	6	10	3	0	0	5	10	3	30	0	0
OCT	79	67	73	94	45	3.1	6.9	.3	2.4	0	0	0	83	68	.62	65	300	NE	8	46	5	10	2	0	0	2	13	#	24	#	0
NOV	71	55	63	86	27	1.9	5.4	.1	3.1	0	0	0	83	65	.45	56	300	N	7	40	5	6	1	0	0	1	15	0	9	4	#
DEC	65	49	57	87	15	2.2	4.4	.4	2.4	#	#	#	84	66	.35	49	300	NNE	7	41	5	6	2	0	0	1	15	0	5	12	2
ANN	76	61	69	99	15	49.0	12.8	.1	5.7	#	#	#	84	66	.54	61	350	NE	7	80	5	108	26	0	0	59	151	29	221	49	7
EYR	13	13	13	13	13	13	13	13	13	13	13	13	17	17	17	17	17	17	17	13	17	13	13	13	13	15	15	13	13	13	13

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	30	24	16	14	9	11	5	6	15	16	20	21	16	13
LESS 5000	04	29	29	21	14	10	13	5	6	15	16	22	24	17	15
PT AND/OR	07	36	34	26	19	16	14	9	8	22	23	27	30	22	19
VISIBILITY	10	32	29	25	16	18	22	16	15	26	25	22	26	23	19
LESS 5 MI	13	30	26	23	18	18	24	24	19	27	27	23	26	24	19
	16	28	27	22	16	22	23	20	18	23	26	22	22	22	19
	19	25	26	17	16	18	17	10	13	19	24	21	23	19	15
	22	26	20	13	14	13	11	6	8	16	18	18	20	15	15
	ALL HRS	30	27	21	16	16	17	13	12	21	22	22	24	20	17
CEILING	01	13	10	5	4	1	1	1	2	1	3	6	10	5	13
LESS 1000	04	14	11	8	4	3	2	0	2	2	5	8	13	6	15
PT AND/OR	07	19	17	11	9	4	3	2	3	4	7	13	15	9	19
VISIBILITY	10	15	11	7	3	3	2	0	2	3	4	7	11	6	19
LESS 3 MI	13	12	8	6	3	2	1	1	2	2	4	5	8	4	19
	16	11	8	4	3	2	2	1	2	3	4	7	9	5	19
	19	12	9	6	3	1	1	1	2	3	4	7	9	5	15
	22	11	8	5	3	1	1	0	0	1	3	5	9	4	15
	ALL HRS	13	10	7	4	2	2	1	2	2	4	7	10	6	17
CEILING	01	#	6	3	2	1	0	0	0	1	2	2	8	3	13
LESS 600	04	11	6	5	2	2	1	0	2	2	3	5	9	4	15
PT AND/OR	07	12	10	6	5	2	2	1	2	3	3	7	9	5	19
VISIBILITY	10	9	6	4	1	0	0	0	0	1	1	3	7	3	19
LESS 2 MI	13	8	4	3	1	0	1	0	1	1	1	2	6	2	19
	16	7	4	2	1	0	1	1	1	1	1	3	7	2	19
	19	8	5	3	1	1	1	0	0	1	1	3	6	3	15
	22	8	4	3	2	1	0	0	0	0	1	2	6	2	15
	ALL HRS	9	6	4	2	1	1	0	1	1	1	3	7	3	17
CEILING	01	5	4	2	1	0	0	0	0	0	1	1	5	2	13
LESS 400	04	7	4	3	1	1	1	0	1	1	2	3	6	2	15
PT AND/OR	07	9	6	4	3	1	0	0	1	1	2	5	8	3	19
VISIBILITY	10	6	3	2	1	0	0	0	0	0	0	1	5	2	19
LESS 1 MI	13	4	2	2	0	0	0	0	0	0	0	1	2	1	19
	16	4	2	1	0	0	0	1	0	0	0	1	4	1	19
	19	5	3	2	0	1	0	0	0	1	0	1	3	1	15
	22	5	3	2	1	0	0	0	0	0	0	2	3	1	15
	ALL HRS	6	3	2	1	0	0	0	0	0	1	2	5	2	17

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1959	M	M	M	M	M	M	M	M	M	78.6	62.2	55.4	M
1960	54.6	54.5	54.9	68.4	72.4	78.8	81.0	80.8	80.0	73.9	65.3	51.4	67.9
1961	50.9	49.0	66.1	68.1	73.4	78.7	80.5	80.0	79.2	70.3	66.2	58.4	68.8
1962	53.2	52.1	58.0	65.3	76.0	79.0	81.9	81.1	78.9	72.7	60.2	52.3	68.4
1963	52.4	50.3	63.0	69.3	74.4	79.1	80.7	80.3	77.7	70.2	61.6	49.7	67.4
1964	53.3	52.6	61.6	69.3	76.0	80.2	80.0	80.1	78.5	68.5	66.9	59.6	68.6
1965	59.0	56.7	60.2	69.1	76.1	78.5	79.5	80.4	79.5	72.1	65.1	58.4	68.7
1966	52.3	53.8	59.1	67.3	73.9	78.5	81.9	80.3	78.2	71.8	62.1	54.7	67.6
1967	56.0	53.0	64.2	71.1	76.4	77.6	79.8	79.7	78.4	70.1	62.6	60.9	68.9
1968	52.9	51.0	58.9	68.8	74.0	79.5	80.0	79.9	79.4	73.2	60.2	54.1	67.8
1969	54.5	52.8	56.6	69.6	73.4	79.2	82.2	80.2	78.9	73.9	61.6	55.4	68.2
1970	50.4	54.0	65.6	70.6	76.9	79.1	81.6	81.3	80.1	73.7	59.8	50.1	69.2
1971	56.3	56.5	58.8	67.5	72.0	78.2	80.6	80.3	80.9	73.5	66.1	47.7	69.9
1972	54.1	56.7	64.0	69.7	75.8	79.1	82.0	82.3	80.5	74.6	65.3	61.1	71.3
1973	56.9	M	M	M	M	M	M	M	M	M	M	M	M
MEAN	54.2	54.9	60.7	68.6	75.9	78.3	80.9	80.3	79.2	72.7	63.1	56.9	68.7

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1959	M	M	M	M	M	M	M	M	M	3.29	2.76	1.30	M
1960	2.00	4.81	6.35	3.16	.66	7.07	5.07	2.67	6.10	2.78	1.23	1.42	45.12
1961	2.92	9.97	1.21	3.68	3.10	5.48	3.09	7.01	1.02	.92	1.25	.86	39.21
1962	1.76	.47	3.80	1.70	1.18	3.13	6.63	5.92	7.85	2.08	1.03	1.45	39.52
1963	3.98	4.09	2.40	2.91	2.91	12.83	6.64	5.76	4.64	1.78	3.07	3.71	56.72
1964	6.77	6.41	1.59	3.53	3.11	6.39	10.24	8.20	.869	2.88	3.36	4.13	M
1965	.80	4.50	2.75	.72	1.76	5.03	4.36	2.98	3.85	2.17	1.64	4.35	37.71
1966	4.95	9.27	.96	1.62	11.07	9.69	6.26	3.13	6.69	3.20	.80	1.00	54.90
1967	2.46	7.81	.71	.72	1.72	10.00	9.27	4.02	3.86	2.81	.24	3.98	49.03
1968	.60	2.98	.79	.84	2.77	8.81	5.97	11.28	1.58	5.90	2.08	.79	42.92
1969	.49	7.77	[illegible]	.48	2.88	1.20	2.30	7.73	11.23	6.92	2.41	3.12	43.96
1970	2.96	4.09	7.15	.92	1.01	1.12	6.75	5.04	1.20	2.61	.11	.46	33.90
1971	.86	2.29	1.28	3.93	1.76	1.24	2.15	4.15	2.92	4.29	.34	2.92	28.92
1972	2.38	7.93	4.91	2.86	2.21	3.04	3.23	4.39	1.44	2.24	2.21	1.76	36.40
1973	2.18	M	M	M	M	M	M	M	M	M	M	M	M
MEAN	2.51	4.29	2.81	2.04	2.91	5.67	5.68	5.72	4.63	3.05	1.91	2.19	43.01

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
58-59													M
59-60	M	M	M	8	146	304	328	302	324	30	4	0	M
60-61	0	0	0	0	46	413	434	188	76	40	0	0	1217
61-62	0	0	0	23	69	247	368	138	222	47	0	0	1184
62-63	0	0	0	28	159	386	596	401	123	20	0	0	1515
63-64	0	0	0	18	138	471	461	340	165	24	0	0	1517
64-65	0	0	0	26	97	196	513	241	201	25	0	0	1059
65-66	0	0	0	23	57	263	385	313	190	55	0	0	1266
66-67	0	0	0	16	130	316	281	281	90	2	1	0	1115
67-68	0	0	2	13	128	160	571	402	214	10	0	0	1297
68-69	0	0	0	37	184	360	320	352	316	9	0	0	1578
69-70	0	0	0	0	125	304	453	303	116	19	0	0	1320
70-71	0	0	0	0	179	197	369	270	224	63	3	0	1281
71-72	0	0	0	1	56	57	119	244	99	28	3	0	567
72-73	0	0	0	0	104	167	320	M	M	M	M	M	M
73-74	M	M	M	M	M	M							
MEAN	0	0	0	14	112	273	342	292	179	30	1	0	1263

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1959										343	88	11	M
1960	10	6	18	136	241	361	309	496	487	288	46	1	2382
1961	0	28	119	97	266	356	481	469	431	199	112	48	2568
1962	11	83	15	84	347	428	382	506	484	272	22	0	2702
1963	19	0	44	197	298	490	494	492	589	196	41	1	2597
1964	9	0	46	189	287	462	479	478	411	141	80	95	2594
1965	11	18	80	193	289	393	495	484	444	249	66	4	2581
1966	4	6	19	118	272	351	517	482	408	280	51	9	2495
1967	9	8	75	193	307	383	446	444	387	181	57	40	2382
1968	1	2	21	139	288	463	469	467	444	299	47	28	2670
1969	0	0	0	134	266	421	541	475	423	246	31	12	2686
1970	7	4	79	195	317	431	521	512	517	279	59	21	2913
1971	16	23	39	140	231	402	491	490	489	330	97	123	2981
1972	98	9	117	174	282	481	534	543	473	306	117	94	3158
1973	19	M	M	M	M	M	M	M	M	M	M	M	M
MEAN	14	13	51	149	283	408	498	488	453	261	62	28	2881

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

MAYPORT, FLORIDA

STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
03853	Mayport, Florida	30°24'N	81°25'W	16	KNRB	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1963	1976	30°24'N	81°25'W	20	Mercurial	Var
1a.	" " "	"	1958	1966	"	"	21	Aneroid	24
2a.	" " "	"	1966		"	"	18	"	19

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Unknown	Atop control tower	Selsyn	Triple	80'	1. Barograph (marine)
2.	1956	" " "	"	"	68'	2. Semi-auto. met station(AN/GMQ-14B)
3.	1958	" " " (replaced selsyn)	AN/UMQ-5	RD-108	68'	3. Ceiling light (ML 121)
4.	1959	Approximately 2200 feet northwest of operations building	"	"	15'	4. Cloud height set (AN/GMQ-13C)
						5. Transmissometer (AN/GMQ-10C)
5.	1964	Same as above	AN/UMQ-5C	RD-108B	11'	6. Radar Facsimile RO-415/GMH-6
6.	1967	Approximately 750' NW of the intersection of ABND runway and runway No. 23			11'	7. Facsimile (Alden)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

McMurdo is located on a tip of a peninsula about 7 miles long that extends southwestward from Ross Island. This peninsula, known as Hut Point Peninsula, is an extension of the lower slopes of Mount Erebus, an active volcano whose summit is about 13,000 feet. Ross Island is located about 40 miles off the Victoria Land Coast of Antarctica. The area to the south through east is the flat ice shelf of the Ross Sea extending several hundred miles, uninterrupted by any significant land forms, and exposing the station to winds from the east through south. To the west, across McMurdo Sound and through the north to the northeast lies the Ross Sea, covered most of the year by annual sea ice, but becoming largely open water in mid and late summer. Across McMurdo Sound lies the Royal Society Mountains which are a part of the Trans-Antarctic Mountain Range and which extend to 14,000 feet. Prevailing mid and upper tropospheric westerly winds blow across the Royal Society Mountains, thence across Ross Island. This flow is mainly a downslope, katabatic, dry wind and accounts for much of the excellent weather experienced at McMurdo.

McMurdo enjoys a crisp, cool, invigorating and pleasant environment interrupted by brief periods of howling snow-laden cold winds.

Temperatures generally remain well below freezing year round, with August usually the coldest month. Summer occurs for about 2 months, December to early February, with 2 transitional months on either side of a six-month winter. The first sunrise is approximately 19 August and 24 hours of daylight begins on 23 October. The first sunset is approximately 20 February and 24 hours of darkness begins 25 April.

Maximum cloudiness is restricted to the coastal or offshore areas and decreases towards a minimum over the central plateau. Maximum cloudiness occurs in February and March with most clear days in July. The maximum measurable precipitation is coincident with the cloud maximum and occurs in February.

The average wind speeds for each month are not excessive, ranging from 10 to 15 knots, and all prevailing directions are easterly. When storm condition exists, transportation and all aircraft operations are at a standstill. These storms always bring fresh snow and the visibility is reduced to near zero in snow and blowing snow.

McMURDO, ANTARCTICA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: MC MURDO, ANTARCTICA
LOCATION : S77 51 E166 39

PERIOD: MAR 56-DEC 77
ELEV : 109

STN LTRS: NZCM
WBAN # : 87601
WMO # : 89664

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	SNOWFALL MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SFC WINDS SPEED MN	SFC WINDS SPEED MAX	MEAN AMT CLD TENTH	PRECIP INCHES .01 DR GTR	PRECIP INCHES .5 DR GTR	SNOWFALL .1 DR GTR	SNOWFALL 1.5 DR GTR	THUNDER STORMS	VISBY MILES <	MAX WIND DEG >	MIN AND F >	MIN AND F < 00-40
JAN	32	22	27	47	4	.7	2.8	#	1.9	7	28	15	66	65	.09	16	1300	E	9	54	6	4	0	4	1	0	3	2	16	0 0
FEB	21	12	17	39	-11	1.0	5.4	#	2.1	11	54	21	65	64	.06	7	1400	E	12	65	8	6	0	6	2	0	2	0	2	2 0
MAR	6	-5	0	28	-46	.5	2.4	#	1.0	6	24	10	65	64	.06	8	1550	E	15	70	7	5	0	5	1	0	5	0	0	22 #
APR	0	-13	-7	25	-39	.5	1.6	#	1.0	5	16	10	65	66	.08	14	1300	E	13	87	6	6	0	6	1	0	4	0	0	26 #
MAY	-4	-18	-11	27	-48	.6	2.2	#	1.7	6	22	17	64	64	.10	18	1750	E	12	91	5	7	0	6	1	0	3	0	0	29 1
JUN	-3	-17	-10	24	-42	.8	5.3	#	1.2	8	53	12	63	62	.11	19	1800	E	13	86	5	7	0	7	1	0	2	0	0	28 #
JUL	-8	-22	-15	24	-59	.6	2.7	#	.7	6	27	7	58	59	.14	26	1800	E	12	101	5	7	0	7	1	0	3	0	0	30 2
AUG	-10	-25	-18	24	-57	.6	2.9	#	.6	6	29	6	59	60	.15	27	1950	E	12	87	5	7	0	7	1	0	4	0	0	31 3
SEP	-5	-20	-13	24	-47	.5	1.4	#	.9	5	14	9	58	58	.12	22	1900	E	12	92	6	6	0	6	1	0	4	0	0	29 1
OCT	3	-11	-4	25	-40	.7	4.6	#	2.8	7	46	28	60	62	.08	13	1800	E	11	73	6	5	0	5	1	0	4	0	0	26 #
NOV	20	10	15	37	-19	.5	1.7	#	1.1	5	21	8	62	64	.06	5	1600	E	10	77	6	4	0	4	1	0	1	0	1	4 0
DEC	30	21	26	43	2	.9	3.0	#	.8	5	30	8	68	67	.09	16	1400	E	10	67	6	4	0	4	1	0	2	1	13	0 0
ANN	7	-6	1	47	-59	7.5	5.4	#	2.8	77	54	28	63	63	.06	7	1700	E	12	101	6	68	0	67	13	0	37	3	32	227 7
EYR	21	21	21	21	21	21	21	21	21	21	21	21	14	14	14	14	19	19	19	21	19	21	21	21	21	22	22	21	21	21 21

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY>0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	31	43	50	37	33	39	30	29	31	34	29	31	35	21
LESS 5000	03	32	44	49	41	29	35	26	27	30	38	31	31	34	17
FT AND/OR	06	34	45	51	44	34	37	27	29	35	36	29	31	36	21
VISIBILITY	09	35	45	48	49	32	37	29	37	32	34	27	30	36	17
LESS 5 MI	12	33	44	49	46	38	40	34	36	32	35	27	30	37	21
	15	32	43	47	45	37	40	32	36	32	36	26	30	36	17
	18	30	44	48	49	37	39	30	32	34	33	27	29	36	21
	21	32	42	49	43	28	36	26	30	30	31	29	29	33	17
	ALL HRS	33	44	49	44	34	38	29	32	32	34	28	30	35	19
CEILING	00	17	16	19	14	17	20	16	15	17	16	17	15	17	21
LESS 1000	03	17	14	15	14	11	13	12	11	16	19	17	16	15	17
FT AND/OR	06	17	17	16	16	16	17	16	14	18	19	14	15	16	21
VISIBILITY	09	19	17	13	16	14	15	15	16	17	16	13	17	16	17
LESS 3 MI	12	18	16	20	15	19	19	19	17	19	18	14	16	18	21
	15	17	17	17	14	16	17	18	16	17	20	15	15	17	17
	18	16	16	19	17	19	18	16	18	19	18	14	15	17	21
	21	19	15	14	15	10	15	12	13	16	15	16	15	15	17
	ALL HRS	17	16	17	15	16	17	16	15	17	18	15	15	16	19
CEILING	00	16	14	15	10	14	16	13	12	13	12	15	13	13	21
LESS 300	03	14	12	12	10	9	10	10	9	12	15	15	13	12	17
FT AND/OR	06	14	15	13	13	13	13	13	12	14	15	12	12	13	21
VISIBILITY	09	15	15	11	13	10	11	12	11	13	14	12	14	13	17
LESS 1 MI	12	15	14	16	12	14	14	16	14	15	15	12	14	14	21
	15	15	14	13	11	12	11	15	13	13	18	12	14	14	17
	18	15	15	15	13	13	14	14	14	14	15	11	13	14	21
	21	17	14	12	9	7	11	10	11	13	12	15	13	12	17
	ALL HRS	15	14	14	12	12	13	13	12	13	14	13	13	13	19
CEILING	00	15	14	14	9	13	13	11	10	10	11	15	13	12	21
LESS 100	03	14	12	11	9	7	8	7	8	10	14	15	12	11	17
FT AND/OR	06	14	15	12	12	11	12	11	10	12	13	12	12	12	21
VISIBILITY	09	15	15	10	12	7	9	10	10	12	12	12	13	12	17
LESS 1/4 MI	12	14	14	15	12	13	12	14	12	13	13	12	13	13	21
	15	15	14	12	10	9	9	12	11	11	16	12	13	12	17
	18	15	14	14	12	12	12	13	13	13	13	11	13	13	21
	21	17	14	11	8	6	8	8	10	10	11	14	13	11	17
	ALL HRS	15	14	12	11	10	11	11	11	12	13	13	13	12	19

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1956	M	M	1.7P	-10.6	-2.2	-12.0	-11.7	-29.0	-4.3	-6.0	16.7	27.8	M
1957	29.9	17.6	.7	-11.4	-11.5	-11.4	-17.9	-14.1	-8.0	-6.9	17.3	26.7	.8
1958	27.9	21.3	-1.9	-9.5	-13.7	-15.0	-24.7	-22.0	-14.3	-3.0	16.0	21.2	-1.4
1959	27.1	19.6	1.6	-6.7	-12.8	-10.7	-10.8	-23.8	-13.8	-12.9	11.0	27.1	-.8
1960	21.1	12.0	-5.6	-10.6	-8.7	-12.2	-19.3	-17.5	-9.4	1.3	12.9	23.7	-.8
1961	26.6	19.7	-1.0	2.0	-5.0	-10.5	-19.1	-19.9	-7.6	-8.1	16.5	24.6	1.5
1962	24.9	13.3	-9.1	-8.3	-9.3	-9.1	-19.0	-20.5	-21.0	-9.2	13.9	22.7	-2.1
1963	24.1	15.5	-5.3	-10.7	-10.8	-8.6	-18.5	-15.3	-11.1	-2.8	16.9	25.6	-.4
1964	23.5	12.6	-1.1	-3.8	-10.5	-3.6	-8.6	-26.7	-19.6	-21.0P	18.1	25.8	M
1965	27.7	17.0	-4.0	-5.6	-19.5	-18.0	-8.5	-12.6	-19.4	-2.2	14.7	28.8	.5
1966	25.9	19.6	12.5	-6.6	-18.6	-3.5	-9.8	-19.3	-14.4	-.8	16.3	26.0	2.3
1967	29.5	22.6	-.1	-11.4	-9.7	-6.4	-12.9	-10.4	-11.1	-0.0	14.0	26.6	2.1
1968	26.6	16.1	6.0	-6.2P	-10.9P	-12.4P	-15.0P	-22.3P	-26.7P	-3.1	14.6	24.1	M
1969	27.4	15.6	9.9	-7.2	-11.2	M	-23.5	-14.3	-13.6	-3.5	14.7	27.8	M
1970	29.1	18.3	9.4P	-3.4	-11.9	-5.6	-14.1	-20.5	-0.9	5.1	13.6	27.6	M
1971	30.4	19.7	-1.6	1.2	-7.3	-10.2	-18.2	-16.3	-6.3	-3.6	17.5	27.1	2.6
1972	27.1	18.8	4.4	-6.7	-2.4	-3.0	-10.9	-10.9	-7.6	2.3	13.7	28.1	4.3
1973	26.9	10.9	-5.8	-6.9	-6.8P	-9.4	-10.3	-8.9	-10.8	2.7	17.0	24.2	M
1974	28.9	19.6	-4.4	-5.5	-5.3	-8.4	-19.4	-10.1	-27.6	.1	16.6	27.7	1.2
1975	26.9	17.6	1.7	-7.2	M	-9.4P	-13.4	-23.9	-13.9	-8.7	11.8	22.8	M
1976	27.4	17.6	1.4	-11.6	-16.3	-18.1	-7.1	-17.2	-14.2	-15.4	10.9	26.0	-1.4
1977	29.6	M	M	M	M	M	M	M	M	M	M	M	M
MEAN	26.9	18.0	-.6	-6.7	-11.0	-9.7	-14.8	-17.5	-11.9	-3.7	15.0	25.8	.7

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1956	M	M	.48P	.01	T	T	T	T	T	.13	.28	.38	M
1957	T	T	.34	.27	2.20	.58	.83	1.05	.95	.29	.25	.52	6.69
1958	T	T	.10	.40	T	T	.15	.05	.15	.05	.56	.92	1.98
1959	T	.03	.26	.90	.28	.30	.60	.23	.55	.05	.10	.11	2.67
1960	1.78	.46	T	.19	T	T	.05	.57	.78	.77	.10	.92	5.26
1961	.76	1.05	.37	.89	.22	.87	.06	.26	.41	.08	.12	.37	5.66
1962	.67	1.19	.02	.26	.27	.07	.47	.01	.05	.21	.02	.59	3.79
1963	T	.42	.09	T	.15	.40	.06	.47	.18	.26	.41	.25	2.61
1964	.77	.49	1.27	1.22	.47	.68	.84	.12	.47	T	.09	.20	6.32
1965	.32	2.03	.11	T	.01	.76	.91	.65	.90	.22	1.24	.72	7.17
1966	2.36	5.42	1.20	.04	.70	2.59	1.14	2.87	1.38	.65	.28	.62	18.85
1967	T	.97	.39	.41	1.65	5.26	.55	1.84	.59	.96	.55	.70	13.49
1968	2.82	1.74	1.17	1.32P	1.81P	.24P	.39	.21P	TP	.84	.30	.53	M
1969	.53	1.72	2.37	1.56	.60	M	.85	.50	.26	.79	1.48	3.00	M
1970	1.71	.72	.84P	.89	.87	.66	.07	.26	.08	2.15	.78	.90	M
1971	.19	.86	.21	1.53	.67	1.17	.59	.30	.30	4.87	T	.98	10.89
1972	.03	.75	.75	1.54	.88	.70	1.44	.22	.25	.84	.38	.37	8.23
1973	1.17	1.84	.24	.18	.64	.52	.29	.17	1.17	1.08	.88	.93	8.83
1974	.17	.23	.67	.47	1.58	1.00	.76	.70	.16	.68	.96	.37	7.95
1975	.33	.93	.19	.25	M	1.02	.16	.68	.47	.53	.05	.41	M
1976	.06	.09	.27	.23	.67	.05	2.88	.31	.07	T	1.67	T	6.10
1977	.79	M	M	M	M	M	M	M	M	M	M	M	M
MEAN	.69	1.02	.54	.53	.62	.84	.57	.56	.46	.72	.69	.93	7.57

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
55-56										2275	2086	2314	M
56-57	2385	2798	2686	2139	1441	1144	1264	1327	1991	2300	2378	2293	23486
57-58	2576	2699	2191	2171	1427	1177	1143	1218	2078	2120	2445	2425	23430
58-59	2780	2712	2464	2110	1463	1352	1169	1408	1971	2094	2468	2275	24228
59-60	2354	2749	2368	2420	1613	1148	1334	1530	2195	2274	2224	2322	24581
60-61	2421	2544	2204	1976	1557	1274	1180	1347	2147	1891	2170	2271	23102
61-62	2614	2657	2181	2175	1447	1250	1235	1386	2302	2106	2308	2225	23866
62-63	2612	2659	2586	2305	1528	1305	1224	1380	2183	2276	2342	2217	24821
63-64	2434	2693	2288	2104	1437	1214	1262	1319	2167	2063	2533	2082	23577
64-65	2283	2848	2934	M	1401	1211	1150	1318	2139	2123	2624	2513	M
65-66	2242	2698	2327	2086	1505	1114	1206	1265	1619	2149	2600	2055	22815
66-67	2321	2675	2584	2039	1493	1203	1095	1185	2016	2295	2318	2144	23080
67-68	2418	2343	2287	2200	1523	1163	1194	1396	1923	M	M	M	M
68-69	M	M	M	2114	1504	1261	1156	1377	1889	2168	2364	M	M
69-70	2780	2685	2364	2128	1565	1146	1107	1302	M	2092	2387	2121	M
70-71	2458	2659	2252	1854	1595	1152	1065	1376	2463	1915	2267	2258	22813
71-72	2586	2527	2084	2127	1617	1168	1107	1393	1970	2214	2088	2043	22824
72-73	2358	2385	2180	1942	1532	1136	1171	1508	2199	2158	M	2236	M
73-74	2339	2295	2274	1928	1436	1257	1114	1377	2151	2115	2185	2147	22620
74-75	2438	2581	2633	2011	1447	1149	1175	1326	1960	2167	M	M	M
75-76	2436	2761	2376	2287	1591	1300	1159	1370	1962	2299	2525	2496	26596
76-77	2238	2554	2378	2500	1618	1202	1090	M	M	M	M	M	M
77-78	M	M	M	M	M	M							
MEAN	2480	2562	2311	2131	1494	1208	1173	1360	2027	2193	2360	2245	23504

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1956				0	0	0	0	0	0	0	0	0	M
1957	0	0	0	0	0	0	0	0	0	0	0	0	0
1958	0	0	0	0	0	0	0	0	0	0	0	0	0
1959	0	0	0	0	0	0	0	0	0	0	0	0	0
1960	0	0	0	0	0	0	0	0	0	0	0	0	0
1961	0	0	0	0	0	0	0	0	0	0	0	0	0
1962	0	0	0	0	0	0	0	0	0	0	0	0	0
1963	0	0	0	0	0	0	0	0	0	0	0	0	0
1964	0	0	0	0	0	0	0	0	0	M	0	0	0
1965	0	0	0	0	0	0	0	0	0	0	0	0	M
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	0	0	0	0	0	0	0
1968	0	0	0	M	M	M	M	M	M	0	0	0	M
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	M	0	0	0	0	0	0	0	0	0	M
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	M	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	M
1975	0	0	0	0	M	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	M	M	M	M	M	M	M	M	M	M	M	M
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

MCMURDO, ANTARCTICA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
87601	McMurdo, Antarctica	77°51'S	166°39'E	109	NZCM	89664

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office	Navy	1956	1964	77°51'S	166°39'E	80		
2.	Resurveyed	"	1964	1965	"	"	84.33	Mercurial	
3.	Meteorology building 51	"	1965	1972	"	"	"	"	
4.	Admin/Ops building 165	"	1972		"	"	109.0	"	
1a.	GMD space adjacent to weather off.	"	1964	1965	"	"	84	Aneroid	
2a.	Meteorology building 51	"	1965	1971	"	"	85	"	
3a.	Admin/Ops building 165	"	1971		"	"	109.1	"	

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Prior to 1957	80'S of aerological office			15'	1. Barograph 2. Theodolite (ML 247)
2.	1958	20 meters S of aerological office			5 meters	3. Speedomax (H Leeds/Northrup)
3.	1959	Adjacent to aerological office	UMQ-5C		22 "	4. Radiosonde (GMD-1B)
4.	1960	Replaced UMQ-5C	UMQ-5D	RD-108B	" "	
5.	1972	NW Corner admin/ops bldg. 165	UMQ-5C	RD-108D	39'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Memphis is located 22 miles NNE of Memphis International Airport in the southwestern corner of Tennessee on a relatively flat area of the Mississippi River basin. The terrain in the immediate vicinity of the station being a low rolling type with an elevation of 295 feet above mean sea level.

Dominating air masses for the local area are the continental polar air mass, and associated polar front, during the winter months and the maritime tropical air mass which is a part of the Bermuda high circulation during the summer months. Pre-frontal squall lines produce severe thunderstorms and tornado activity in the local area during the winter and spring. During the summer months, pre-frontal squall line thunderstorms are replaced by convective type thunderstorms. Occasionally tropical cyclones moving inland produce heavy rains and gusty winds throughout the area.

The average mean temperature for the year is in the low 60's, varying from the low 40's in January to the low 80's in July. A record high of 106 degrees F. has been recorded during both the months of June and July. Temporary relief from the high temperatures occur during the fall with cold fronts passing occasionally through the area. With the onset of winter, radical temperature changes become more common, with a 50 degree temperature drop during a cold frontal passage being not at all uncommon.

Precipitation of 47 inches per year is fairly well distributed throughout the year, with the only frozen or freezing precipitation occurring during the winter when the Texas panhandle lows pass just south of the station. Relative humidity averages about 70% for the year.

Visibility throughout the area is generally good; however, it is reduced to less than 1 mile if a stationary front or a slow moving warm front is in the area. Winds from the south to west-southwest may also reduce visibility to 3 miles as they bring smoke from the industrial sites over the station. Haze in the area usually reduces visibility to 5 miles.

Flying conditions are generally good with ceilings and visibilities greater than 1,000 feet and 3 miles more than 80% of the time even during the bad weather months of winter. During the months of May, June, and July Visual Flight Rules (VFR) are experienced more than 96% of the time. Thunderstorms are the principal cause of reduction in flight operations during the summer months. The low ceilings and visibilities brought on by these storms are usually of short duration.

MEMPHIS, TENNESSEE

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: MEMPHIS, TENNESSEE
LOCATION : N35 21 W89 52

PERIOD: MAR 45-DEC 77
ELEV : 322

STN LTRS: KNQA
WBAN # : 93839
WMO # :

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAP PRES	DEW PT	PRESS ALT	SFC WINDS		MEAN NUMBER OF DAYS OCCURRENCE OF:									
	MEAN DAILY		MON	EXTREMES		MONTH			MAX 24	MN	MAX 24		LST		IN OF	DEW PT	ALT	PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD	PRECIP INCHES .01 OR	.5 OR	SNOWFALL .1 OR	1.5 OR	THUNDR ES	VSBY FOG	MAX DEG		MIN AND
	MAX	MIN		MAX	MIN	MEAN	MAX	MIN	HRS			HR	04	13	HG	F	99.95%				TENTH	GTR	GTR	GTR	GTR	R	7MI	90	75	32	00
JAN	48	30	39	76	-2	4.2	9.7	.8	4.9	3	13	9	78	68	.17	31	800	S	7	49	6	10	3	2	1	2	14	0	#	19	#
FEB	53	34	44	80	5	4.5	9.3	1.5	4.8	1	7	6	74	62	.19	33	850	S	7	55	6	9	3	1	#	3	12	0	#	12	0
MAR	61	43	52	84	12	5.1	12.4	.7	3.9	1	15	8	72	58	.25	40	950	S	8	58	6	11	3	1	#	5	10	0	4	5	0
APR	72	52	63	91	32	5.1	11.1	2.0	4.8	#	#	#	72	55	.35	49	800	S	8	107	6	11	4	0	0	7	10	#	13	#	0
MAY	80	61	71	98	36	4.6	11.9	.9	3.8	0	0	0	76	55	.49	58	650	S	6	58	6	9	3	0	0	7	11	3	24	0	0
JUN	88	68	78	106	49	3.5	9.3	.4	5.4	0	0	0	78	54	.62	65	550	S	6	68	5	8	2	0	0	7	10	13	29	0	0
JUL	91	72	81	106	56	3.5	8.5	.5	3.5	0	0	0	80	57	.71	69	450	S	5	56	5	9	2	0	0	9	14	19	31	0	0
AUG	89	70	80	104	54	3.0	7.4	.2	3.6	0	0	0	81	57	.69	68	500	E	4	49	5	7	2	0	0	7	17	16	31	0	0
SEP	83	63	74	104	40	3.7	9.5	.1	3.0	0	0	0	81	57	.56	62	550	E	5	46	5	7	2	0	0	4	15	6	26	0	0
OCT	74	51	63	94	28	2.5	7.7	#	3.1	#	#	#	78	52	.36	50	600	N	5	48	4	6	2	0	0	2	14	#	16	1	0
NOV	60	41	51	83	16	4.0	12.6	.6	4.9	#	2	2	74	58	.24	39	750	S	6	55	5	8	2	#	#	2	12	0	3	7	0
DEC	51	34	43	79	-14	4.7	9.7	.9	3.4	1	13	13	77	65	.19	33	800	S	7	53	6	10	3	1	#	2	14	0	#	15	#
ANN	71	52	61	106	-14	48.4	12.6	#	5.4	6	15	13	77	58	.36	50	750	S	6	107	5	105	91	5	1	57	153	57	177	59	#
EYR	28	28	28	28	28	28	28	28	28	28	28	28	28	30	29	29	29	29	29	29	28	28	28	28	28	29	29	28	28	28	28

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	35	29	24	18	13	7	6	6	11	14	22	31	18	28
LESS 5000	03	38	32	28	19	15	9	8	8	13	15	27	35	21	28
FT AND/OR	06	42	35	36	27	21	14	15	15	21	23	32	39	26	30
VISIBILITY	09	43	40	38	31	25	17	17	13	25	21	32	40	28	30
LESS 5 MI	12	42	40	40	35	33	33	34	31	34	25	31	39	35	30
	15	41	37	36	31	28	25	28	24	27	21	28	36	30	30
	18	34	33	30	23	16	12	11	8	15	15	24	33	21	30
	21	33	29	24	17	11	8	9	7	12	13	22	30	18	30
	ALL HRS	39	34	32	25	21	16	16	14	20	18	27	36	25	29
CEILING	00	13	10	7	3	3	1	1	1	3	4	6	12	5	28
LESS 1000	03	16	10	8	4	4	2	2	3	4	3	8	12	6	28
FT AND/OR	06	18	13	11	7	6	3	5	5	7	8	10	15	9	30
VISIBILITY	09	22	16	11	7	6	4	5	3	10	7	11	16	10	30
LESS 3 MI	12	17	12	8	4	3	1	1	1	4	4	8	14	6	30
	15	14	9	5	3	2	1	1	1	4	3	6	11	5	30
	18	12	10	6	3	2	1	1	1	2	3	4	11	5	30
	21	12	9	6	2	1	0	0	1	2	3	5	10	4	30
	ALL HRS	15	11	8	4	3	2	2	2	5	4	7	13	6	29
CEILING	00	4	4	1	1	1	0	0	0	0	1	1	4	2	28
LESS 500	03	5	4	3	1	1	0	0	1	1	1	2	4	2	28
FT AND/OR	06	7	5	3	1	2	1	1	2	1	3	4	5	3	30
VISIBILITY	09	8	6	2	1	0	0	1	0	2	2	3	5	2	30
LESS 1 MI	12	5	2	1	0	0	0	0	0	1	1	1	4	1	30
	15	3	2	1	0	0	0	0	0	1	0	1	3	1	30
	18	4	2	1	0	0	0	0	0	0	1	1	3	1	30
	21	4	2	1	0	0	0	0	0	0	1	1	4	1	30
	ALL HRS	5	3	2	1	1	0	0	1	1	1	2	4	2	29
CEILING	00	1	0	0	0	0	0	0	0	0	1	0	2	0	28
LESS 200	03	2	1	1	0	1	0	0	0	0	1	1	2	1	28
FT AND/OR	06	2	1	2	0	1	1	0	1	0	2	1	2	1	30
VISIBILITY	09	1	1	0	0	0	0	0	0	0	0	0	1	0	30
LESS 1/2 MI	12	1	0	0	0	0	0	0	0	0	0	0	0	0	30
	15	0	0	0	0	0	0	0	0	0	0	0	0	0	30
	18	1	0	0	0	0	0	0	0	0	0	0	1	0	30
	21	1	0	0	0	0	0	0	0	0	0	0	1	0	30
	ALL HRS	1	1	0	0	0	0	0	0	0	1	0	1	0	29

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1943	M	M	59.8	63.5	66.3	75.7	79.8	79.9	74.5	61.8	53.1	37.7	M
1946	41.5	47.1	59.7	65.7	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	82.3	79.2	69.6	65.2	51.5	46.3P	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	73.6	62.8	45.5	45.2	M
1952	46.6	46.2	50.3	59.4	71.2	75.3	84.0	81.6	72.6	55.7	49.9	43.5	62.4
1953	45.4	40.7	54.0	58.1	71.9	75.4	82.1	M	74.9	63.9P	50.9	41.6	M
1954	41.8	50.3	50.9	67.1	66.2	81.9	86.4	83.0	77.7	63.7	51.4	43.4	63.8
1955	41.2	44.3	52.3	66.1	73.3	74.5	82.6	81.5	77.1	62.0	49.6	42.2	62.2
1956	38.4	47.5	51.4	60.2	73.3	77.3	82.4	82.0	73.1	66.1	50.5	46.8	62.6
1957	38.3	49.2	50.5	66.4	71.4	78.5	80.5	79.4	71.7	59.3	50.6	47.5	61.7
1958	37.4	52.4	45.2	60.1	71.2	78.1	81.3	80.2	73.1	62.4	54.0	38.2	59.6
1959	37.2	42.3	50.1	60.0	72.9	76.2	78.4	81.1	75.2	63.8	48.0	48.1	60.7
1960	40.4	39.5	39.5	66.0	68.4	77.7	81.1	80.9	74.1	66.0	51.1	37.7	60.0
1961	37.0	41.2	54.9	58.6	67.2	76.8	79.4	78.5	73.9	61.6	48.6	41.4	60.4
1962	36.5	49.1	45.2	59.8	77.4	77.9	81.1	80.1	72.7	66.7	50.0	38.3	61.3
1963	33.2	36.0	55.5	62.6	69.7	77.9	79.7	80.5	73.1	67.0	52.6	30.9	59.9
1964	40.3	40.0	51.9	64.2	71.9	78.2	79.6	77.2	70.5	59.2	53.5	42.8	60.7
1965	41.6	42.4	49.5	65.6	76.9	78.3	80.7	78.6	74.5	61.8	56.1	45.7	62.0
1966	33.5	42.0	55.5	61.1	68.5	78.0	84.1	77.0	71.4	58.4	53.4	40.8	60.2
1967	42.3	39.8	57.3	65.7	67.5	78.4	77.1	75.0	69.4	62.1	49.1	45.2	60.7
1968	37.9	36.1	50.9	63.6	70.1	79.0	80.2	81.0	71.2	63.0	49.9	39.8	60.2
1969	39.7	42.4	44.1	62.1	70.5	78.8	83.6	78.2	73.9	62.2	48.6	39.0	60.2
1970	33.8	40.2	48.4	63.9	71.7	76.9	77.9	79.6	78.7	60.9	48.6	46.5	60.2
1971	38.2	42.3	48.1	60.4	66.5	80.1	79.2	78.1	76.0	69.5	50.4	40.5	61.6
1972	41.2	43.8	52.2	63.4	69.8	76.7	78.7	79.4	76.6	61.0	49.6	39.7	60.6
1973	39.4	40.9	59.3	58.3	67.4	79.6	82.0	77.8	73.9	66.9	55.6	42.0	62.0
1974	43.2	43.9	57.6	61.4	72.0	73.7	82.2	78.8	67.6	60.3	51.4	43.5	61.3
1975	44.4	43.9	48.0	59.9	72.1	78.2	80.3	79.5	68.6	63.3	52.6	42.9	61.2
1976	37.7	31.0	50.8	61.4	66.5	75.1	80.1	76.3	70.6	55.4	41.7	39.1	59.2
1977	26.6	42.2	59.9	65.2	72.7	80.1	83.6	80.4	76.5	59.9	52.7	41.4	61.7
MEAN	39.0	43.4	51.8	62.4	70.5	78.2	81.1	79.5	73.3	62.9	50.5	42.2	61.2

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	7.94	5.25	4.85	5.78	4.26	7.22	5.05	2.71	12.02	6.44	M
1946	9.13	5.31	4.58P	4.62	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	1.25P	2.01	1.10P	7.66	.59	6.16P	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	5.07	4.49	4.01	8.06	M
1952	3.23	4.41	7.01	2.34	2.05	.78	.07	2.19	2.92	.84	4.19	3.01	33.04
1953	5.02	9.42	7.90	7.12	11.91	3.08	4.79	M	.12	.36P	1.49	5.27	M
1954	9.42	4.10	1.84	3.28	3.23	1.40	.93	7.31	2.78	.84	1.35	4.16	35.24
1955	1.63	6.62	7.04	8.53	4.09	5.45	2.54	1.54	1.44	1.58	2.27	1.12	43.83
1956	5.45	9.28	3.14	5.56	2.92	6.20	2.25	2.49	.41	1.27	3.08	5.81	45.98
1957	9.69	4.40	2.89	6.56	6.63	6.26	3.00	2.72	3.60	5.52	9.86	5.42	66.70
1958	2.66	5.17	4.55	6.36	4.79	2.52	3.24	7.71	7.19	1.10	3.90	2.97	44.23
1959	4.06	7.91	3.11	1.95	1.20	1.66	8.49	3.92	1.60	1.07	2.36	4.71	41.62
1960	4.28	7.39	3.14	3.10	3.50	3.48	3.19	3.19	2.58	5.67	3.70	5.21	43.49
1961	1.38	4.08	7.38	4.93	6.34	2.57	4.46	.55	.88	.77	6.77	9.72	52.03
1962	5.82	9.12	4.34	3.25	1.08	4.27	2.16	8.00	1.97	1.41	.93	4.41	46.01
1963	.83	2.08	4.29	2.87	6.30	3.28	3.07	1.08	1.75	.02	3.11	4.77	33.42
1964	3.52	9.07	8.34	9.32	3.01	2.08	2.26	9.22	2.26	2.09	2.74	4.46	50.35
1965	3.36	7.33	5.30	3.12	3.09	5.30	4.23	2.84	7.94	.36	2.01	.88	45.73
1966	3.49	5.00	.67	5.80	6.30	.41	3.26	6.09	4.20	1.80	1.71	5.53	44.40
1967	1.56	1.78	3.56	5.25	5.07	1.63	6.90	2.05	1.45	2.17	1.64	6.83	39.09
1968	5.09	1.49	7.91	6.35	4.68	2.00	1.30	.32	2.95	1.93	3.92	4.05	42.30
1969	2.77	1.66	1.94	4.23	.89	.90	1.28	7.40	.88	1.33	3.34	7.34	33.97
1970	1.56	3.78	5.39	7.80	3.33	8.23	4.95	2.29	4.69	6.29	2.68	4.68	55.17
1971	2.25	5.81	3.11	4.19	4.60	4.13	4.53	5.98	6.32	.13	2.17	7.06	50.34
1972	4.37	7.10	4.78	3.42	2.62	2.33	4.71	5.11	4.66	3.68	6.57	4.22	52.57
1973	5.13	5.66	6.57	11.05	7.72	1.16	5.04	1.35	5.06	2.33	9.38	4.46	63.13
1974	7.66	4.50	3.43	6.84	7.79	9.27	1.62	4.85	3.11	2.54	3.66	5.76	61.51
1975	4.19	9.18	12.37	3.27	7.48	1.04	4.23	1.91	4.43	2.73	6.59	7.67	56.06
1976	2.48	4.92	5.95	1.95	4.65	6.36	4.15	.18	3.31	6.22	1.87	1.93	44.37
1977	2.88	7.34	4.70	4.90	2.30	3.93	1.77	2.46	9.49	1.26	7.03	4.01	46.27
MEAN	4.20	4.52	5.13	5.09	4.55	3.48	3.53	2.95	3.76	2.49	4.01	4.70	48.39

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									706	122	88	6	M
45-46	0	0	7	126	369	841	721	497	189	72	M	M	M
46-47	M	M	M	M	M	M	M	M	M	M	M	M	M
47-48	M	M	M	M	M	M	M	M	M	M	M	M	M
48-49	M	M	M	M	M	M	M	M	M	M	M	M	M
49-50	0	0	26	100	402	M	M	M	M	M	M	M	M
50-51	M	M	M	M	M	M	M	M	M	M	M	M	M
51-52	M	M	8	130	582	818	869	681	496	210	21	0	M
52-53	0	0	2	294	457	840	804	505	282	232	91	0	3067
53-54	0	M	3	M	417	716	710	407	446	63	74	0	M
54-55	0	0	1	167	404	663	727	580	414	60	0	1	3017
55-56	0	0	0	158	488	703	816	498	425	190	7	1	3286
56-57	0	0	0	47	443	699	822	458	462	142	25	0	2858
57-58	0	0	7	195	431	537	867	878	408	164	38	0	3705
58-59	0	0	13	135	341	824	936	627	435	182	15	0	3448
59-60	0	0	2	125	367	608	761	753	791	99	72	0	3758
60-61	0	0	0	98	415	840	861	495	319	248	63	0	3337
61-62	0	0	14	192	497	725	878	446	516	202	1	0	3493
62-63	0	0	6	123	463	819	981	804	917	130	40	0	3693
63-64	0	0	11	39	369	1053	738	718	411	87	16	0	3602
64-65	0	1	33	190	358	683	720	627	659	81	0	0	3352
65-66	0	0	23	178	264	591	969	639	966	162	42	0	3194
66-67	0	0	2	214	348	767	701	705	293	75	46	0	3131
67-68	0	1	36	192	465	607	829	829	455	104	10	0	3496
68-69	0	0	1	118	468	776	780	627	662	112	14	0	3516
69-70	0	0	0	102	484	799	963	690	911	110	17	0	3736
70-71	1	0	15	152	484	869	823	622	522	180	62	0	3410
71-72	0	0	3	12	457	640	728	606	590	136	80	0	3772
72-73	0	0	11	180	376	775	817	676	184	225	91	0	3475
73-74	0	0	12	83	293	708	670	586	257	160	7	0	2776
74-75	0	0	35	161	420	664	634	586	523	214	2	0	3239
75-76	0	0	79	138	275	681	840	385	275	153	78	0	3004
76-77	0	0	10	309	489	799	1181	692	387	83	3	0	3993
77-78	0	0	0	175	371	725							
MEAN	0	0	13	149	436	702	799	604	416	143	30	0	3288

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945			51	84	137	337	468	469	326	35	19	0	M
1946	0	0	30	98	M	M	M	M	M	M	M	M	M
1947	M	M	M	M	M	M	M	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	542	467	164	119	5	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	267	103	3	8	M
1952	6	0	6	90	221	616	595	521	238	14	7	0	2274
1953	0	0	8	33	252	617	537	M	304	M	1	0	M
1954	0	4	17	132	117	501	602	628	186	134	0	0	2601
1955	0	5	27	98	263	391	581	520	370	73	31	3	2232
1956	0	0	11	54	272	376	559	532	247	86	13	3	2153
1957	0	2	0	130	229	407	489	452	210	29	0	0	1953
1958	0	0	0	23	237	400	511	477	265	61	19	0	1993
1959	0	0	1	38	266	344	422	507	316	94	5	0	1993
1960	1	0	4	75	184	389	504	501	341	74	5	0	2078
1961	0	0	9	82	134	357	452	425	278	54	10	0	1781
1962	0	0	2	54	302	392	504	476	261	121	0	0	2189
1963	0	0	21	96	193	396	461	484	259	106	9	0	1989
1964	0	0	1	72	238	402	462	384	204	14	19	0	1805
1965	2	0	0	104	316	405	495	429	315	46	5	0	2117
1966	0	0	19	80	154	398	600	578	201	19	7	1	1820
1967	4	0	61	104	129	408	580	517	174	67	0	0	1644
1968	0	0	8	71	173	424	477	501	199	64	2	0	1913
1969	0	0	0	32	191	421	580	416	254	83	0	0	1977
1970	1	0	0	85	233	306	408	438	342	32	2	3	1878
1971	0	0	4	69	97	462	467	409	342	160	8	0	1978
1972	0	0	0	98	174	399	621	491	337	83	4	0	1916
1973	0	0	14	31	114	446	583	404	348	137	16	0	2045
1974	1	0	36	59	230	270	539	436	119	28	21	0	1737
1975	3	0	2	71	231	401	484	459	193	100	12	1	1957
1976	0	2	29	35	73	307	480	357	185	14	0	0	1502
1977	0	0	14	98	340	460	576	485	339	21	9	0	2396
MEAN	1	1	19	70	207	403	506	457	268	69	8	1	2004

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

MEMPHIS, TENNESSEE

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93839	Memphis, Tennessee	35°21'N	89°52'W	322	KNQA	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, main deck operations building	Navy	1949	1960	35°21'N	89°52'W	295	Mercurial	24
2.	Moved within weather office	"	1960	1968	"	"	"	"	24
3.	Replacement installed	"	1968		"	"	"	"	24
1a.	Weather service office	"	1960		"	"	"	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop control tower	3 cup		67.3'	1. Barograph 2. Semi-auto met. station (AN/GMQ-14A)
1a.	* "	" " "	Selsyn	Triple	68.9'	3. Ceiling light (ML-121)
2.	"	" " "	AN-UMQ-5	RD-108	67.3'	4. Cloud height set (AN/GMQ-13B)
	1953					5. Transmissometer (AN/GMQ-10C)
3.	1958	1500' 350° from ops bldg, N-Z	AN/UMQ-5C	"	12'	6. Wind measuring set (AN/PMQ-3)
4.	1962	Same as above	"	"	8'	
		* Survey date unknown				

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Air Station Meridian is located about 17 miles northeast of the city of Meridian, Mississippi. Small hills to the north, east, and west cause cold air drainage during periods of light or calm winds which results in lower minimum temperatures than might normally be expected. The Gulf of Mexico, about 150 miles to the south, is the most significant single factor influencing the Meridian weather. The frequent southerly flow from the Gulf causes mild winters and long warm summers.

Flying weather is generally very good at Meridian with Visual Flight Rules (VFR) prevailing 84% of the time. This varies from an average of 79% VFR in January to 93.5% in July. Visibilities average 6 miles or more 81.6% of the time annually, ranging from an average of 76.5% in January to 87% in October. The most significant obstruction to vision is the morning fog occurring frequently during winter months. From August through April the period from 0600 to 0800 daily is the time of the most frequent occurrence of fog while from May through July it is the 0300 to 0500 local time.

The prevailing wind direction generally is northerly during the months of August through February, southerly during March and April, and variable during May through July. Average monthly speeds are generally between 3 and 4 knots with daily averages occasionally as high as 10 to 15 knots during February and March.

Rainfall is fairly evenly distributed during the year in the Meridian area. An average amount of 4.3 inches a month may be expected. The highest amount recorded at the Naval Air Station in any one month was 15.05 inches in March 1976 and the lowest was a trace in October 1963.

The Meridian area is seldom affected by hurricanes. The remnants of such storms passing near Meridian usually cause moderate to heavy rain with little wind. The most destructive weather that may be encountered around the Meridian area would be tornadoes. Although only a few have been reported near Meridian, they are usually more frequent in the western part of Mississippi. The tornado season generally runs from December through March with the maximum occurrence during the month of February.

MERIDIAN, MISSISSIPPI

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: MERIDIAN, MISSISSIPPI
LOCATION : N32 33 W88 34

PERIOD: AUG 61-DEC 77
ELEV : 317

STN LTRS: KNMM
WBAN # : 03866
WMO # : 72234

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAP PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN AMT CLD IN TENTH	MEAN NUMBER OF DAYS PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER STORMS	VISIBILITY BY FOG < 7MI	MAX DEG > 90	MAX DEG > 75	MIN AND < 32	MIN AND < 20
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX 24 HR	MAX 04 LST	HUM 13 LST																		
JAN	56	33	45	80	1	5.0	9.3	2.2	4.2	1	6	4	82	63	.21	36	650	N	4	50	6	11	3	#	#	2	17	0	2	16	4
FEB	60	34	47	85	9	4.2	9.2	1.4	4.2	#	2	2	79	56	.21	36	700	N	5	43	5	8	3	#	#	3	13	0	2	14	2
MAR	68	42	55	88	19	6.1	15.1	1.8	3.5	#	2	2	80	53	.28	43	750	S	5	53	6	11	4	#	#	5	17	0	9	6	#
APR	77	51	64	89	28	5.4	12.8	1.3	5.7	0	0	0	82	52	.39	52	700	S	4	44	5	8	3	0	0	5	19	0	20	1	0
MAY	82	58	70	96	36	3.7	7.9	.5	2.2	0	0	0	87	54	.50	59	550	N	3	39	5	9	3	0	0	5	23	3	27	0	0
JUN	88	65	77	102	45	3.5	10.5	.6	3.1	0	0	0	88	55	.64	66	500	E	2	58	5	8	3	0	0	8	23	13	30	0	0
JUL	91	69	80	102	52	5.0	10.1	1.9	3.9	0	0	0	89	59	.74	70	400	W	2	42	6	12	3	0	0	13	24	20	31	0	0
AUG	89	68	79	97	52	3.9	7.0	1.0	2.4	0	0	0	91	59	.71	69	400	N	2	47	5	10	2	0	0	8	26	17	31	0	0
SEP	85	63	75	98	37	2.8	6.1	.9	3.4	0	0	0	89	59	.62	65	450	N	2	31	5	8	2	0	0	4	25	8	27	0	0
OCT	77	50	64	94	27	2.7	8.0	#	4.1	0	0	0	86	52	.40	53	500	N	3	37	4	5	2	0	0	1	20	1	19	1	0
NOV	66	41	54	86	17	3.1	7.8	1.2	2.3	#	#	#	85	56	.29	44	600	N	3	41	5	9	2	0	0	2	18	0	7	8	#
DEC	59	36	48	80	2	4.1	12.1	1.9	6.1	1	13	10	83	62	.24	39	650	N	4	43	6	11	4	#	#	2	17	0	3	14	2
ANN	75	51	63	102	1	51.5	15.1	#	6.1	2	13	10	85	57	.40	53	650	N	3	58	5	110	34	#	#	58	242	62	208	60	8
EYR	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	16	16	16	16

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	38	29	30	20	14	7	7	8	16	17	26	37	21	16
LESS 5000	03	46	32	36	27	18	12	11	13	23	17	30	41	26	16
FT AND/OR	06	47	34	43	39	27	17	20	25	33	30	39	44	33	16
VISIBILITY	09	46	36	38	34	24	21	19	19	32	27	35	44	31	16
LESS 5 MI	12	40	33	36	31	32	40	47	42	38	25	30	41	36	16
	15	39	31	33	25	26	30	36	28	25	20	29	38	30	16
	18	35	25	25	18	15	10	16	14	16	16	23	33	20	16
	21	35	24	25	15	12	8	12	8	15	15	23	36	19	16
	ALL HRS	40	30	33	26	21	18	21	20	25	21	30	39	27	16
CEILING	00	20	10	9	5	5	2	2	3	7	5	12	18	8	16
LESS 1000	03	23	13	12	10	8	5	5	8	15	9	14	22	12	16
FT AND/OR	06	27	15	18	18	16	9	11	16	21	15	18	26	18	16
VISIBILITY	09	25	19	14	9	6	6	7	9	19	14	18	26	14	16
LESS 3 MI	12	19	10	7	4	3	1	2	0	5	5	10	18	7	16
	15	15	8	7	3	2	1	2	1	3	3	6	14	5	16
	18	15	9	7	3	2	1	2	2	4	3	7	13	6	16
	21	15	8	7	3	3	2	2	2	5	3	7	15	6	16
	ALL HRS	20	11	10	7	6	3	4	5	10	7	11	19	10	16
CEILING	00	8	4	2	2	2	1	0	1	2	2	4	8	3	16
LESS 400	03	9	5	4	2	3	3	3	4	6	4	7	10	5	16
FT AND/OR	06	12	6	8	6	7	5	7	9	9	7	10	13	8	16
VISIBILITY	09	11	6	3	3	1	0	1	1	2	3	7	10	4	16
LESS 1 MI	12	6	1	1	0	0	0	0	0	0	0	2	5	1	16
	15	4	1	1	1	0	0	1	0	1	1	1	3	1	16
	18	7	1	2	0	0	1	0	0	1	0	3	6	2	16
	21	8	2	1	1	1	0	0	1	1	1	3	6	2	16
	ALL HRS	8	3	3	2	2	1	2	2	3	2	5	7	3	16
CEILING	00	2	1	0	0	0	0	0	0	0	0	1	1	1	16
LESS 100	03	2	1	1	0	0	1	1	1	1	0	2	3	1	16
FT AND/OR	06	2	1	3	1	1	0	1	2	1	1	4	3	2	16
VISIBILITY	09	1	0	0	0	0	0	0	0	0	0	1	1	0	16
LESS 1/4 MI	12	0	0	0	0	0	0	0	0	0	0	0	0	0	16
	15	0	0	0	0	0	0	0	0	0	0	0	0	0	16
	18	1	0	0	0	0	0	0	0	0	0	0	0	0	16
	21	1	0	0	0	0	0	0	0	0	0	1	1	0	16
	ALL HRS	1	0	1	0	0	0	0	0	0	0	1	1	1	16

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1961	M	M	M	M	M	M	M	78.79	75.4	62.2	56.7	47.6	M
1962	42.8	48.2	51.5	61.0	74.2	76.3	82.1	80.0	75.6	66.2	51.6	43.7	63.4
1963	39.2	42.0	59.6	66.7	72.9	77.1	79.7	80.3	74.6	67.7	55.4	38.9	62.8
1964	43.1	41.3	54.0	64.7	69.6	77.5	77.8	79.4	74.2	60.8	56.7	50.0	62.4
1965	40.1	46.1	50.7	66.8	72.0	76.1	79.3	79.1	74.7	61.2	58.1	48.0	63.4
1966	41.6	48.1	54.1	66.9	69.9	75.2	82.4	78.2	73.4	60.3	54.7	46.8	62.5
1967	45.4	43.5	59.6	69.3	66.7	75.2	76.9	73.6	69.4	63.6	56.5	49.6	62.1
1968	42.6	49.8	59.9	63.9	70.5	78.6	80.0	79.4	71.7	63.9	51.7	44.9	61.5
1969	40.0	48.0	48.3	64.2	74.9	79.2	82.4	78.0	73.5	65.2	50.9	46.4	62.8
1970	40.9	46.2	54.2	68.9	71.0	76.5	M	80.3	77.9	63.8	50.2	52.8	M
1971	46.3	43.9	49.9	61.4	69.9	78.0	79.7	79.8	77.4	70.1	52.7	57.5	63.6
1972	47.8	48.8	56.9	61.8	67.5	76.6	77.1	79.2	74.8	63.5	50.4	50.0	62.9
1973	45.1	47.4	61.6	61.1	69.2	76.8	80.4	77.3	76.1	67.2	59.6	47.0	64.0
1974	55.9	49.3	62.5	61.5	73.0	74.4	80.3	79.5	72.0	61.0	52.5	48.0	64.2
1975	49.3	44.9	54.2	60.5	72.3	77.6	80.2	79.8	72.5	64.0	54.5	45.6	63.5
1976	41.4	52.8	58.7	62.0	63.8	76.5	79.0	76.9	71.8	57.6	45.7	42.2	60.6
1977	33.9	46.8	56.9	63.8	71.4	79.0	81.3	79.9	74.9	59.9	55.6	46.2	62.6
MEAN	44.5	47.1	55.1	63.9	70.9	76.8	79.8	78.8	74.3	63.4	53.5	47.4	62.9

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1961	M	M	M	M	M	M	M	2.229	1.57	1.83	6.32	12.10	M
1962	6.66	4.40	3.88	5.00	1.67	10.52	2.90	1.07	.85	2.74	2.36	1.93	43.14
1963	9.28	2.34	4.27	2.77	2.89	3.61	3.39	1.03	1.21	T	3.41	4.00	38.60
1964	4.14	9.07	7.42	12.83	2.25	4.59	10.11	4.77	1.30	5.12	3.34	6.26	65.20
1965	3.63	4.65	4.85	2.92	.49	4.80	2.59	4.69	1.23	.84	1.58	2.72	36.39
1966	6.54	9.72	4.05	4.11	7.28	1.56	3.41	4.41	2.58	1.88	1.87	5.14	52.61
1967	2.38	9.46	1.79	1.62	6.58	.58	3.43	5.96	.96	1.92	1.22	10.01	40.04
1968	4.02	1.82	2.58	4.81	3.63	2.20	4.03	4.40	3.94	1.27	4.42	7.91	44.64
1969	3.92	9.25	4.87	7.56	2.31	1.94	8.05	3.90	1.57	3.38	2.30	6.94	48.57
1970	2.20	3.45	4.44	3.90	4.09	1.74	M	7.02	2.75	8.01	1.58	4.83	M
1971	3.18	7.87	8.07	3.82	3.60	4.13	8.17	7.66	5.91	1.62	1.78	6.50	57.04
1972	7.72	3.40	3.81	1.67	2.69	2.52	2.25	4.42	2.93	2.26	3.49	7.76	44.70
1973	4.23	2.80	8.69	8.33	7.92	2.80	1.69	3.86	3.02	2.66	3.17	11.93	61.27
1974	3.69	4.91	3.04	10.73	2.27	5.99	2.44	5.75	3.67	.34	3.50	7.13	58.68
1975	7.27	4.49	7.10	7.09	4.33	3.81	6.20	4.97	3.32	4.89	1.94	3.95	61.05
1976	2.32	1.41	15.05	1.32	4.87	2.48	5.77	1.28	2.61	2.18	2.97	4.27	47.03
1977	6.83	4.53	12.44	8.17	1.85	2.46	9.79	2.39	6.12	6.66	7.76	2.05	70.07
MEAN	5.03	4.19	6.05	5.38	3.66	3.48	4.97	3.91	2.80	2.73	3.12	6.15	51.45

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
60-61	M	M	5	137	329	534	681	272	412	108	6	0	M
61-62	0	0	7	96	389	651	794	640	704	54	18	0	2897
62-63	0	0	1	32	295	801	673	674	550	78	13	0	2917
64-65	0	0	0	105	275	478	511	535	457	58	2	0	2401
65-66	0	0	13	150	223	517	722	486	342	98	18	4	2353
66-67	0	0	2	174	310	586	597	597	224	33	70	1	2574
67-68	0	0	34	94	318	483	693	792	446	89	16	0	2895
68-69	0	0	0	121	397	615	583	459	509	72	10	0	2766
69-70	0	0	1	95	419	570	744	520	526	64	8	0	2747
70-71	M	0	0	87	439	391	577	589	466	153	60	0	M
71-72	0	0	0	22	381	253	502	470	526	152	24	2	2132
72-73	0	0	7	112	469	469	611	484	134	168	41	0	2473
73-74	0	0	1	88	215	528	592	496	143	135	7	0	1825
74-75	0	0	9	144	385	525	447	392	349	187	0	0	2473
75-76	0	0	21	84	336	597	726	324	222	110	70	0	2490
76-77	0	0	7	251	570	701	659	503	286	74	9	0	3330
77-78	0	0	0	178	280	579							
MEAN	0	0	6	117	354	545	634	505	324	106	23	0	2614

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1961									324	56	30	2	M
1962	0	30	8	55	299	348	541	470	337	134	1	0	2216
1963	1	0	39	113	271	369	403	481	395	121	12	0	2105
1964	0	0	15	76	162	385	404	452	280	41	32	22	1869
1965	25	11	20	119	227	342	451	443	311	42	26	0	2017
1966	4	0	11	103	176	315	546	419	238	38	8	10	1888
1967	0	0	56	171	130	315	314	274	172	61	10	14	1517
1968	0	0	12	63	191	415	472	453	207	93	1	0	1907
1969	0	7	0	55	199	432	565	409	260	108	0	2	2017
1970	6	9	1	189	202	355	M	477	396	56	0	19	M
1971	4	0	4	50	92	397	464	467	379	185	20	28	2090
1972	7	3	9	65	112	355	380	450	166	72	16	12	1847
1973	0	0	39	59	148	361	483	388	341	142	56	0	2017
1974	18	3	74	38	261	289	481	456	226	25	16	3	1890
1975	5	2	22	61	284	385	476	467	254	61	28	2	2027
1976	0	5	34	29	43	292	439	376	216	21	0	0	1455
1977	0	2	21	46	214	427	514	472	335	28	4	3	2066
MEAN	4	4	23	81	187	361	465	435	291	76	15	7	1949

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

MERIDIAN, MISSISSIPPI

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
03866	Meridian, Mississippi	32°33'N	88°34'W	317	KNMM	72234

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, on east bulkhead	Navy	1963	1976	32°33'N	88°34'W	288	Mercurial	24
1a.	Weather service office in GMQ-14 console	"	1965		"	"	290	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1961	805 feet east of centerline, 500 feet south approach end 18L	UMQ-5C	RD-108B	15'	1. Barograph 2. Auto met. station (AN-GMQ-29) 3. Cloud height set (AN/GMQ-13)
2.	Relocated 1976	200 feet west of centerline 500 feet north approach end 36L	UMQ-5	RD-108	13'	4. Transmissometer (AN/GMQ-10C) 5. Radar (AN/FPS-106)
3.	1977	300 feet south of centerline 2100 feet west of approach end 27	UMQ-5	GMQ-29A	13'	6. Cloud height set (AN/GMQ-13) 7. RVR (ID 1346/GMQ-10)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Midway Islands, approximately 1,100 nautical miles west northwest of the principal islands of Hawaii, consist of two habitable and usable islands and several smaller islands and sandspits. The two main islands, Sand and Eastern, lie within a nearly circular reef that has a diameter of about 6 miles. This reef ranges in height from slightly below the surface to 4 or 5 feet above the surface. Sand Island is about 2 miles long by 1 mile wide. The terrain is flat and sandy, attaining a maximum elevation of only 29 feet above sea level.

Midway essentially experiences two climatic seasons, summer and winter. The summer season, characterized by northeasterly trade winds and fair weather cumulus clouds, begins in late March or early April and lasts into late November or early December. This season has mostly scattered to broken cumuliform clouds, bases at 1,800 to 3,000 feet, with occasional brief rain showers. Frontal passages are almost nonexistent. Occasionally, an easterly wave will move into the Midway region from the east-southeast and produce two or three days of low cloudiness and rain. By December cold frontal passages at Midway are quite common. During December the prevailing surface winds shift to west-southwest, a direction that will persist into March. Sustained periods of strong gusty winds are prevalent through the winter months, particularly when associated with frontal passages. Periods of moderate to heavy rain also occur quite frequently during winter months but rarely cause marginal flying weather for more than 3 or 4 hours. On a few occasions when local area weather is severe enough to curtail flight operations, it is more likely that the deterrent will be strong runway cross-winds rather than low ceilings and visibilities.

Fog is of little significance. It occurs chiefly in conjunction with winter rains and ending when the rain stops. Typhoons frequently form out of easterly waves which have passed Midway but have never affected the islands. Thunderstorms are observed at the station on an average of only 7 days a year.

Although the reef acts as an effective breakwater in destroying large ocean waves and swells approaching the island, it does not prevent an excess of water from building up inside the reef causing unusually strong currents during periods of strong winds. These currents, in conjunction with the strong winds that brought about their formation, makes shiphandling very difficult and hazardous inside the lagoon.

MIDWAY ISLAND

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: MIDWAY ISLAND
LOCATION : N28 12 W177 23

PERIOD: APR 45-DEC 77
ELEV : 13

STN LTRS: PMDY
WBAN # : 22701
WMO # : 91066

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION MONTH MEAN	PRECIPITATION MONTH MAX	PRECIPITATION MONTH MIN	INCHES MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX 24 HR	SNOWFALL MAX MON	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER BY DAY	VSBY MAX FOG < 7MI	VSBY MAX DEG > 85	VSBY MIN DEG > 75	MIN AND < 65	MIN AND < 55
JAN	69	62	66	80	51	4.9	9.3	1.8	5.0	0	0	0	77	69	.47	57	650	W	13	67	6	17	3	0	0	1	1	0	2	25	2
FEB	70	62	66	81	50	3.8	8.1	.9	3.1	0	0	0	78	70	.47	57	500	E	12	63	7	13	2	0	0	#	1	0	2	23	2
MAR	70	63	67	81	51	3.2	13.1	#	3.9	0	0	0	79	70	.49	58	450	E	11	58	7	12	2	0	0	#	1	0	4	23	1
APR	71	64	68	82	53	2.3	11.8	.2	5.0	0	0	0	80	69	.50	59	200	E	10	60	7	10	1	0	0	#	1	0	7	19	#
MAY	75	68	72	86	59	2.5	12.9	.2	6.8	0	0	0	81	70	.58	63	150	E	9	42	6	9	1	0	0	#	1	#	18	8	0
JUN	80	72	76	88	61	2.5	13.4	.2	7.3	0	0	0	84	72	.71	69	200	E	8	47	6	10	1	0	0	#	1	1	29	1	0
JUL	82	74	78	88	63	3.5	13.3	.6	3.8	0	0	0	82	71	.74	70	300	E	10	56	6	15	2	0	0	1	#	3	31	#	0
AUG	83	75	79	89	64	4.2	10.8	1.1	4.6	0	0	0	82	71	.77	71	150	E	9	41	6	15	2	0	0	1	#	5	31	#	0
SEP	83	75	79	89	64	3.3	7.4	.7	3.7	0	0	0	80	69	.74	70	250	E	8	51	5	14	2	0	0	1	#	5	30	#	0
OCT	79	72	76	88	60	3.5	10.0	.5	6.8	0	0	0	79	69	.67	67	400	E	9	63	6	14	2	0	0	1	#	1	28	2	0
NOV	76	69	72	87	55	4.1	12.3	.6	6.2	0	0	0	79	71	.60	64	350	E	10	52	6	14	2	0	0	1	#	#	20	7	#
DEC	72	65	69	80	51	4.1	17.9	1.0	3.9	0	0	0	77	70	.52	60	600	E	12	77	6	16	2	0	0	#	1	0	8	18	1
ANN	76	68	72	89	50	41.9	17.9	#	7.3	0	0	0	80	70	.60	64	400	E	10	77	6	159	22	0	0	6	7	15	210	126	6
EYR	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	28	29	29	29	29	29	29	29	29	29	29	29

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	44	43	50	47	39	28	18	13	16	25	35	42	33	29
LESS 5000	04	46	45	51	50	41	30	17	16	15	28	35	42	35	29
FT AND/OR	07	48	52	61	54	46	34	22	20	20	35	42	46	40	29
VISIBILITY	10	46	48	53	46	39	27	20	16	19	31	40	43	36	29
LESS 5 MI	13	46	45	47	43	35	25	20	17	17	28	37	39	33	29
	16	49	43	49	45	37	26	20	15	18	30	39	41	34	29
	19	52	49	49	49	39	30	17	14	20	37	41	45	37	29
	22	45	42	48	46	37	25	14	12	16	29	35	43	33	29
	ALL HRS	47	46	51	48	39	28	18	15	18	30	38	43	35	29
CEILING	01	2	1	2	2	2	1	1	1	0	0	1	1	1	29
LESS 1000	04	1	1	2	2	2	1	1	1	1	0	1	1	1	29
FT AND/OR	07	1	1	2	2	1	2	1	1	1	1	1	2	1	29
VISIBILITY	10	1	2	2	2	2	2	1	1	1	0	2	1	1	29
LESS 3 MI	13	2	2	2	2	1	1	0	0	1	1	1	2	1	29
	16	3	2	2	2	1	1	0	0	1	1	1	1	1	29
	19	2	2	1	1	2	2	1	0	1	0	1	2	1	29
	22	1	2	1	2	2	1	0	0	1	0	2	2	1	29
	ALL HRS	2	2	2	2	2	2	0	0	1	1	1	1	1	29
CEILING	01	0	0	0	0	1	0	0	0	0	0	0	0	0	29
LESS 900	04	0	0	0	0	0	0	0	0	0	0	0	0	0	29
FT AND/OR	07	0	0	0	0	0	1	0	0	0	0	0	0	0	29
VISIBILITY	10	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	19	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	22	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	29
CEILING	01	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 200	04	0	0	0	0	0	0	0	0	0	0	0	0	0	29
FT AND/OR	07	0	0	0	0	0	0	0	0	0	0	0	0	0	29
VISIBILITY	10	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1/2 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	19	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	22	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	29

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	66.5	67.5	69.7	72.2	72.0	77.1	77.3	78.6	78.8	77.6	76.3	69.0	73.4
1950	65.7P	67.9	67.4	69.8	72.3	M	M	79.4	78.3	73.1	69.2	M	M
1951	67.9	67.2	69.0	67.8	70.8	73.5	77.7	78.6	79.0	75.9	74.6	68.4	72.1
1952	66.2	67.0	68.6	69.3	73.8	77.1	77.9	78.9	79.0	76.9	73.2	71.7	73.1
1953	66.8	66.6	68.1	69.6	72.5	76.4	79.9	79.5	78.1	76.1	76.8	67.9	73.0
1954	65.6	65.0	69.0	66.1	70.1	76.6	77.7	78.8	77.5	76.8	72.1	69.6P	M
1955	66.3	65.4	64.9	67.5	73.1	77.6	78.2	77.9	77.8	75.0	71.0	67.7	71.9
1956	64.6	63.6	66.0	67.8	70.4	76.0	76.6	77.6	79.4	75.7	70.2	66.9	71.4
1957	63.3	64.9	66.6	66.9	70.9	76.9	78.6	78.9	78.1	73.6	68.8	68.9	71.2
1958	65.8	63.9	65.1	67.9	70.9	73.3	76.2	78.2	78.6	75.2	70.4	67.2	71.1
1959	62.9	64.1	67.7	65.3	69.7	75.4	78.2	79.4	78.8	73.6	70.0	68.7	71.1
1960	67.6	63.9	65.8	67.7	72.0	77.8	78.1	79.1	79.0	73.8	71.5	67.6	72.0
1961	65.7	67.9	66.9	63.0	68.0	75.0	77.4	78.4	79.2	73.0	73.0	69.5	71.5
1962	65.1	63.2	65.9	66.0	69.3	73.0	76.9	79.2	78.4	76.1	73.5	68.6	71.6
1963	66.5	64.8	66.6	67.0	72.1	77.0	77.1	78.5	80.1	77.9	73.5	66.7	72.3
1964	64.8	66.3	67.0	65.4	70.8	74.6	77.5	77.9	78.8	76.6	71.6	65.5	71.9
1965	63.1	64.9	65.1	66.1	69.1	74.4	77.0	78.4	76.8	75.8	70.3	66.8	70.6
1966	66.7	64.1	67.3	67.7	68.3	74.1	76.4	77.7	78.5	74.7	70.7	69.1	71.3
1967	69.0	64.6	62.6	68.2	69.8	74.8	76.8	79.1	80.2	78.0	74.5	68.7	72.2
1968	64.3P	62.6	63.7	65.3	71.0	75.4	79.0	80.5	78.8	73.5	67.6	67.6	M
1969	63.2	65.4	66.1	69.9	74.7	75.2	79.0	78.6	78.1	74.8	70.5	68.4	72.0
1970	65.5	65.6	69.0	70.2	70.7	79.1	79.3	79.7	77.9	75.0	72.2	71.8	73.0
1971	64.5	68.0	68.4	72.0	74.2	75.8	77.3	78.5	M	75.1	72.4	65.0	M
1972	64.7	65.1	63.9	66.4	71.2	75.6	77.9	79.0	78.3	73.3	72.5	66.3	71.2
1973	65.9	63.4	72.1	70.4	74.9	78.0	79.6	78.8	78.2	74.6	73.1	69.6	73.3
1974	67.0	71.1	65.5	66.4	71.7	76.0	78.4	79.2	78.6	76.6	77.1	70.7P	M
1975	66.2	66.3	67.7	69.1	72.4	77.2	79.7	78.9	77.4	76.9	74.5	69.0	72.9
1976	65.5	63.7	67.1	67.8	72.8	74.5	77.6	79.3	79.2	76.1	71.1	69.7	72.1
1977	63.5	63.7	64.6	67.6	72.1	77.5	77.2	78.1	77.4	76.0	69.9	66.0	71.1
MEAN	65.7	65.7	66.6	67.8	71.4	75.9	77.9	78.8	78.6	75.5	72.1	68.2	72.0

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1949	3.07	9.83	1.26	.54	.98	1.73	4.82	1.56	.86	.52	1.81	5.92	29.80
1950	4.05P	1.19	1.97	.98	1.07	M	M	M	.72	1.51	5.08	3.07	M
1951	5.99	4.83	1.77	.81	1.57	.45	.56	2.46	.93	2.82	6.79	4.86	33.66
1952	3.71	9.12	1.04	2.35	.59	13.42	3.06	4.35	4.11	2.88	1.96	1.10	41.65
1953	9.28	9.44	2.74	3.80	4.92	2.66	3.81	1.85	7.38	3.39	2.95	2.03	48.85
1954	2.76	.89	1.78	4.03	.32	1.19	2.77	1.18	4.49	.71	1.98	1.80P	M
1955	1.76	4.42	.64	2.21	.23	.92	3.11	4.90	2.02	8.66	4.13	5.26	39.86
1956	4.07	4.90	.86	.24	1.54	4.84	6.23	9.39	9.85	7.69	.80	4.22	48.99
1957	4.12	7.24	1.11	1.17	1.72	.70	4.50	10.21	2.61	1.69	1.49	3.84	39.70
1958	8.29	9.27	3.70	.22	.91	1.62	1.44	1.40	2.44	2.91	2.84	2.45	31.09
1959	3.76	1.14	1.71	2.12	.38	2.58	1.82	5.72	6.43	1.14	1.29	1.12	29.21
1960	6.92	4.79	1.23	4.70	12.65	1.56	.96	10.69	2.22	9.70	1.90	2.00	52.51
1961	4.89	4.52	4.46	2.37	1.82	7.73	.83	2.96	1.95	10.00	1.27	4.52	51.00
1962	7.47	4.23	5.82	11.81	.29	2.93	5.82	2.46	1.87	2.92	2.89	5.79	56.10
1963	6.07	9.16	13.14	3.28	1.53	1.55	6.62	3.02	2.12	6.18	10.89	1.97	61.13
1964	4.66	7.25	9.22	2.05	3.07	2.22	2.63	1.24	1.07	6.11	9.08	5.56	49.10
1965	2.55	4.46	3.14	2.21	.20	5.51	1.34	1.49	3.46	.80	4.06	3.85	32.07
1966	2.36	.98	1.71	.91	2.49	.77	2.18	1.63	4.49	8.74	2.68	1.44	30.28
1967	2.86	4.07	2.17	2.32	1.06	3.09	13.28	4.77	1.90	1.53	10.36	4.73	56.16
1968	6.49P	4.55	.04	.99	2.48	2.44	2.85	7.18	9.43	1.37	3.85	17.85P	M
1969	1.81	1.94	1.90	.80	.83	.51	1.80	7.39	3.11	2.33	6.00	1.98	29.90
1970	5.28	3.80	4.31	2.30	11.10	1.08	2.57	2.66	9.29	5.53	12.29	4.45	59.06
1971	6.72	7.98	.65	.24	1.86	.89	2.15	10.83	M	1.92	2.36	3.97	M
1972	5.22	9.13	3.05	7.59	1.27	1.43	6.30	1.95	3.79	.73	1.02	.98	39.25
1973	2.64	1.48	5.71	1.76	.53	.33	2.08	4.35	2.85	4.87	5.54	1.42	35.62
1974	8.89	9.43	10.07	1.28	10.21	2.53	5.26	4.24	4.01	.71	5.03	4.08P	M
1975	2.90	9.26	4.52	.97	3.33	1.48	3.48	3.06	1.59	6.00	3.29	3.03	36.89
1976	5.48	7.44	.98	1.93	2.61	8.83	.89	7.55	1.09	1.81	1.96	4.34	39.50
1977	8.67	1.97	2.88	.84	1.38	.23	3.88	1.10	0.94	2.31	4.87	7.74	42.01
MEAN	4.94	5.44	3.23	2.30	2.50	2.51	3.48	4.23	3.31	3.48	4.06	4.13	42.01

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
48-49							11	4	2	0	0	0	M
49-50	0	0	0	0	0	1	M	2	12	7	0	M	M
50-51	M	M	0	0	0	3	5	3	78	6	0	0	M
51-52	0	0	0	0	0	6	16	5	0	1	0	0	28
52-53	0	0	0	0	0	0	14	18	11	5	0	0	48
53-54	0	0	0	0	0	8	22	31	28	9	0	0	108
54-55	0	0	0	0	9	M	18	31	38	8	0	0	M
55-56	0	0	0	0	0	6	32	20	14	0	0	0	72
56-57	0	0	0	0	0	13	43	31	25	9	0	0	141
57-58	0	0	0	0	0	3	29	44	28	8	0	0	112
58-59	0	0	0	0	1	6	70	40	17	12	1	0	147
59-60	0	0	0	0	2	2	8	43	22	5	0	0	82
60-61	0	0	0	0	0	3	20	11	13	72	7	0	136
61-62	0	0	0	0	0	2	23	22	22	19	1	0	89
62-63	0	0	0	0	0	1	11	25	20	8	0	0	65
63-64	0	0	0	0	0	0	16	4	4	14	22	0	60
64-65	0	0	0	0	0	0	34	49	36	29	17	1	186
65-66	0	0	0	0	1	18	8	33	4	3	0	0	67
66-67	0	0	0	0	0	1	6	29	72	0	0	0	111
67-68	0	0	0	0	0	7	M	84	47	15	0	0	M
68-69	0	0	0	0	0	12	14	36	24	14	0	0	0	122
69-70	0	0	0	0	0	3	22	28	2	0	5	0	60
70-71	0	0	0	0	0	0	39	0	13	0	0	0	52
71-72	0	0	M	0	1	40	32	27	42	8	0	0	M
72-73	0	0	0	0	0	16	33	32	0	0	0	0	81
73-74	0	0	0	0	0	0	6	3	0	35	12	0	0	56
74-75	0	0	0	0	0	M	51	23	21	8	0	0	M
75-76	0	0	0	0	0	4	42	59	9	10	0	0	124
76-77	0	0	0	0	0	0	75	64	55	17	0	0	209
77-78	0	0	0	0	12	33							
MEAN	0	0	0	0	1	9	30	26	24	10	1	0	101

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1949	64	52	191	224	224	370	586	426	422	408	285	152	3172
1950	M	69	99	138	231	M	M	M	436	418	268	142	M
1951	99	73	21	97	189	269	401	489	427	344	294	117	2733
1952	63	66	118	139	271	371	404	438	424	314	252	216	3078
1953	78	70	116	144	241	351	468	458	399	393	300	104	3082
1954	57	37	33	50	164	357	403	436	381	375	227	M	M
1955	66	46	42	91	261	392	419	406	391	317	187	97	2713
1956	25	41	50	87	171	341	366	401	439	340	183	98	2502
1957	19	33	79	76	190	363	430	437	400	231	119	128	2481
1958	60	19	40	101	188	295	353	417	447	329	189	84	2460
1959	9	23	107	29	156	318	417	456	421	275	137	126	2490
1960	97	17	53	96	228	394	416	443	427	280	200	89	2740
1961	48	99	68	19	108	309	393	422	432	318	246	147	2605
1962	31	33	57	56	161	290	375	448	432	354	283	117	2577
1963	64	27	77	76	229	364	383	428	439	407	280	79	2850
1964	130	108	60	42	187	300	395	403	420	368	203	59	2698
1965	15	40	40	87	104	291	380	426	359	342	184	78	2294
1966	68	16	79	87	108	279	361	403	402	307	180	138	2428
1967	136	77	9	104	139	296	371	443	440	408	293	191	2984
1968	M	7	19	26	101	320	440	469	421	269	96	100	M
1969	6	38	56	134	206	313	441	425	400	313	173	115	2763
1970	46	47	134	101	189	432	483	442	396	317	227	220	3080
1971	66	92	129	218	281	331	389	426	M	320	228	68	M
1972	29	36	16	58	200	324	406	441	403	270	231	93	2677
1973	49	47	228	146	303	401	480	436	402	309	252	198	3207
1974	72	176	57	64	212	339	422	443	413	367	268	M	M
1975	96	70	118	134	258	372	461	459	382	373	290	198	3183
1976	66	27	82	102	250	291	398	451	438	351	191	193	2797
1977	30	31	48	99	225	382	385	415	375	349	186	98	2371
MEAN	58	53	73	100	209	333	406	434	413	334	222	116	2753

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

MIDWAY ISLAND

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
22701	Midway Island	28°12'N	177°23'W	13	PMDY	91066

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office on top of command post building	Navy	1949	1958	28°12'N	177°23'W	42.4	Mercurial	24
2.	Same as above	"	1958	1961	"	"	32	"	24
3.	Weather office	"	1961		"	"	34	"	24
1a.	GMQ-14 console	"	1972		"	"	34		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop building #521	Selsyn	Double register	91'MSL	1. Barograph (ML-3) 2. Semi-auto met station (AN/GMQ-14A) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-B) 5. Theodolite (ML-247) 6. Radiosonde/Rawinsonde set (AN/GMD-10B) 7. APT System (AN/GKR-7)
2.	Relocated 1954	Atop building #585	"	"	82'MSL	
3.	Installed 1955	Atop building #581	AN/UMQ-5	RD-108	72'MSL	
4.	1958	Air operations hangar roof	"	RD-108B	93'MSL	
5.	1960	2051' S. weather office	AN/UMQ-5C	"	15'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Miramar is located 12 miles north of downtown San Diego and about 7 1/2 miles inland from the Pacific Coast. The station is situated on a mesa which has an average elevation of about 450 feet. Eastward of the mesa the Laguna Mountain range dominates, with peaks rising to 6,500 feet. East of the Laguna Mountains lies the Imperial Valley and the Salton Sea.

Miramar's climate is a subtropical Steppe climate, characterized by warm dry summers, moderate winters and frequent fog. The principal climatic controls are the semi-permanent subtropical ridge with it's shallow, fog-producing marine layer and pronounced, smoke-trapping low-level inversion; and the cool California current which restricts the mean temperatures to a 15 degree range. The main special phenomena is the Santa Ana condition, which occurs chiefly in the summer and early fall. It is characterized by hot, dry, easterly winds. Although Miramar rarely experiences the strong winds associated with the Santa Ana, it is subjected to temperatures in the mid 90's to low 100's during the cycle. Humidities at those times are extremely low and fire conditions are greatly increased.

Flying weather is generally good. Fog and coastal low cloudiness are the major weather hazards to flying safety. On a seasonal basis, fog and low clouds are nearly twice as prevalent from June through November with the worst month being July during which some 16 days have fog and low clouds. The least cloudy and foggy month is February, which has a mean of only 8 days with these phenomena. On a diurnal basis this fog/low cloudiness is confined almost exclusively to the hours between midnight and 0900 local time.

Few fronts pass through Miramar, especially during the spring and summer months. Very often, even during the winter months, frontal passages are hailed only by extensive middle level cloudiness.

Precipitation consists almost exclusively of rain or rain showers associated with frontal passages from November through March. More than 75% of the 10 inches of annual precipitation falls during these months. The dearth of rain is, however, considerably compensated by a deposit of some 15 inches of dew annually.

Temperatures are mild as befits a locale dominated by a marine layer which overlies a cold current. The extreme minimum temperature is 28 degrees F. in January. The absolute maximum temperature was 111 degrees F., and occurred as might be expected during the Santa Ana condition in September.

Surface winds undergo both seasonal and diurnal variations. During the winter and spring, the northwesterly sea breeze commences about 1100 LST and lasts until about 1600 LST. Easterly winds prevail at other hours. During the summer and fall months, the sea breeze commences about 0900 LST and endures until 1700 LST. At night the winds become easterly again, or calm. Thus, due to the diurnal variation of the sea-land breeze, the prevailing winds shift from easterly in the winter and spring to westerly during the summer and fall.

Destructive storms, high winds, thunderstorms, and snow are extremely rare at Miramar; however, the Laguna Mountains harbor strong Santa Ana winds, clear air turbulence and occasional summertime thunderstorms.

MIRAMAR, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: MIRAMAR, CALIFORNIA
LOCATION : N32 52 W117 08

PERIOD: APR 47-DEC 77
ELEV : 477

STN LTRS: KNKX
WBAN # : 93107
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F					PRECIPITATION INCHES			SNOWFALL			RELATIVE HUM		VAPR PRES	DEW PT	PRESS ALT	SFC WINDS		MEAN AMT CLD	PRECIP INCHES		SNOWFALL		THUNDER	VISIBILITY	MAX TEMP		MIN TEMP	
	MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	PRECIPITATION MEAN	MAX 24 HRS	MIN	SNOWFALL MN	MAX 24 HR	MAX	HUM LST 04	HUM LST 13	IN OF HG	DEW PT DEG F	ALT FEET 99.95%	PVLG DRCTN	SPEED MN	SPEED MAX	IN TENTH	.01 OR GTR	.5 OR GTR	.1 OR GTR	1.5 OR GTR	DAYS	DAYS	FOG <	DEG >	P >	MIN AND DEG <
JAN	64	45	88	28	1.9	6.5	#	#	#	72	49	.24	39	650	E	5	39	5	7	1	0	0	#	9	0	4	31	7
FEB	65	46	93	34	1.5	5.3	#	0	0	75	52	.27	42	700	E	5	46	5	5	1	0	0	#	9	#	4	28	4
MAR	65	47	87	33	1.5	5.4	#	0	0	79	55	.29	44	700	E	5	38	5	6	1	0	0	#	9	0	3	31	2
APR	67	50	95	39	1.0	3.8	#	#	#	80	56	.32	47	850	WNW	5	48	5	5	#	0	0	#	9	#	5	30	1
MAY	69	54	92	46	.4	2.6	#	1.5	0	0	0	82	58	.37	51	650	W	5	44	6	3	#	0	0	#	10	#	5	31	0
JUN	73	57	65	100	46	.1	.8	#	.4	0	0	0	85	60	.44	55	700	W	5	32	6	2	0	0	0	#	13	1	10	30	0
JUL	79	61	70	101	50	#	.2	.0	.1	0	0	0	86	56	.50	59	800	WNW	4	33	5	1	0	0	0	#	16	1	24	27	0
AUG	80	63	72	98	53	.1	1.4	.0	.8	0	0	0	85	55	.52	60	650	NW	4	28	5	#	#	0	0	#	15	1	24	24	0
SEP	79	61	70	111	49	.2	2.1	.0	1.1	0	0	0	83	55	.49	58	700	NW	4	41	5	1	#	0	0	#	14	3	21	27	0
OCT	76	56	66	105	33	.4	2.1	.0	1.3	0	0	0	77	52	.39	52	700	WNW	4	33	4	2	#	0	0	1	12	2	14	30	#
NOV	71	51	61	100	37	1.2	5.7	.0	2.0	0	0	0	72	47	.29	44	700	E	4	50	4	5	1	0	0	#	11	1	9	30	1
DEC	66	46	56	89	30	1.5	5.6	.1	2.3	#	#	#	70	46	.25	40	700	E	5	41	4	6	1	#	0	#	10	0	5	31	5
ANN	71	53	62	111	28	9.#	6.5	.0	2.3	#	#	#	79	53	.35	49	750	WNW	5	50	5	43	5	#	0	1	137	9	130	350	20
EYR	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30	30	30	30	29	29	30	30	30	30

REMARKS: #DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	31	34	45	51	69	80	65	63	57	49	34	28	50	28
LESS 5000	04	29	34	49	56	76	87	78	77	65	51	31	28	55	29
FT AND/OR	07	43	44	52	62	77	82	64	71	63	57	41	41	58	30
VISIBILITY	10	39	42	47	48	48	37	11	13	25	32	34	36	34	30
LESS 5 MI	13	36	36	38	34	34	25	7	7	16	23	26	32	26	30
	16	31	32	34	35	36	25	7	9	17	22	23	27	25	30
	19	28	28	32	36	47	40	16	15	28	31	28	26	29	30
	22	29	31	39	47	60	64	40	41	46	40	34	28	42	29
	ALL HRS	33	35	42	46	56	55	35	36	39	38	31	31	40	30
CEILING	01	14	17	17	18	25	41	46	42	34	26	18	13	26	28
LESS 1000	04	14	13	18	21	31	47	57	54	40	27	16	13	29	29
FT AND/OR	07	26	24	24	25	31	38	39	42	37	32	24	26	31	30
VISIBILITY	10	23	20	15	12	11	8	4	4	7	10	14	20	12	30
LESS 3 MI	13	18	15	13	8	9	6	4	4	5	8	13	17	10	30
	16	17	14	14	11	9	7	5	5	6	8	13	16	10	30
	19	15	13	10	9	11	12	7	6	11	11	13	12	11	30
	22	13	15	13	16	18	29	23	23	26	20	17	13	19	29
	ALL HRS	18	16	16	15	18	23	23	22	21	18	14	16	18	30
CEILING	01	9	10	8	7	6	9	8	6	11	14	11	8	9	28
LESS 300	04	8	8	10	10	11	14	12	14	15	15	10	8	11	29
FT AND/OR	07	20	18	15	13	9	8	5	6	12	20	18	21	14	30
VISIBILITY	10	16	15	11	7	7	4	3	3	4	7	11	17	9	30
LESS 1 MI	13	15	12	11	7	8	5	4	4	4	7	11	15	9	30
	16	13	11	11	8	7	5	4	5	5	7	10	13	8	30
	19	8	6	5	4	3	3	3	2	2	4	7	7	4	30
	22	8	8	7	5	3	4	2	2	7	9	10	9	6	29
	ALL HRS	13	11	10	8	7	7	5	5	7	10	11	12	9	30
CEILING	01	7	8	6	5	3	3	2	2	6	9	9	6	6	28
LESS 100	04	7	6	7	7	6	7	5	7	9	12	8	7	7	29
FT AND/OR	07	18	16	12	10	6	4	2	2	7	14	16	20	11	30
VISIBILITY	10	16	14	10	7	7	4	3	3	4	7	11	16	8	30
LESS 1/4 MI	13	14	12	11	7	8	5	4	4	4	7	11	15	9	30
	16	13	11	11	8	7	5	4	5	5	6	10	13	8	30
	19	6	5	4	3	3	3	3	2	2	3	6	6	4	30
	22	7	6	5	3	2	1	1	1	4	5	8	6	4	29
	ALL HRS	11	10	8	6	5	4	3	3	5	8	10	11	7	30

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1947	M	M	M	M	M	M	70.5	69.8P	70.5	66.7	56.8P	56.8P	M
1948	56.1	52.1	55.8	58.4	60.3	63.4	66.7	67.4	69.5	63.1P	60.8	52.6	M
1949	48.1	50.1	55.2	M	M	M	67.4P	69.9P	70.2P	63.6P	65.9	54.0	M
1950	49.8	52.8	55.7	58.8	58.4	62.5	68.9	67.2	66.0	66.3	61.3	59.1	60.7
1951	53.5	52.6	56.4	57.8	60.2	64.0	68.7	67.9	67.6	66.2	60.2	53.2	60.8
1952	51.4	53.0	52.9	57.2	62.2	61.4	68.2	70.0	70.1	63.7	57.8	54.4	60.3
1953	58.3	53.2	56.4	56.1	60.4	63.4	71.2	69.1	67.3	66.6	61.6	56.7	61.8
1954	53.8	51.0	56.5	58.4	61.6	64.4	71.6	69.9	69.3	63.9	63.1	57.1	62.4
1955	51.7	52.7	58.0	57.9	60.0	64.0	67.7	72.6	71.9	62.5	58.9	55.0	61.2
1956	54.1	51.4	57.0	56.9	63.0	66.2	69.0	69.2	72.6	64.5	63.2	59.7	62.4
1957	53.6	47.3	56.9	58.5	61.8	64.1	71.9	73.5	69.3	64.3	58.3	60.4	62.9
1958	57.6	48.0	56.8	61.7	64.5	67.2	69.3	72.1	72.3	71.0	61.5	61.8	64.3
1959	58.0	54.7	61.7	63.5	62.8	68.5	73.8	72.8	70.7	66.4	69.2	58.8	64.8
1960	52.8	54.7	57.9	61.2	63.9	65.9	71.5	70.8	71.7	69.7	60.2	56.1	62.7
1961	60.3	48.8P	58.3	62.1	62.7	68.0	71.4	73.5	70.1	67.2	60.0	55.8	M
1962	56.0	49.0	59.7	61.9	62.2	64.8	66.5	72.5	70.6	67.1	61.0	57.8	62.4
1963	55.9	53.2P	59.2	60.8	62.9	63.8	69.1	72.7	73.5	68.2	62.1	62.3	M
1964	56.3	50.6	57.9	61.4	64.2	64.4	72.5	72.1	69.7	71.5	59.3	57.4	63.8
1965	57.2	49.9	57.5	59.6	61.4	62.6	68.5	74.4	68.5	71.3	61.4	55.8	62.8
1966	53.5	53.4	57.4	61.5	63.7	68.9	72.4	75.5	72.4	70.1	63.2	58.9	64.3
1967	56.5	47.6	55.7	61.9	61.0	60.8	69.5	74.7	72.0	68.9	63.1	53.1	62.1
1968	56.9	48.2	57.5	58.6	61.8	64.5	71.4	71.4	70.7	65.9	60.3	53.2	62.4
1969	57.8	53.9	59.4	60.8	61.8	63.3	70.6	74.1	70.3	63.7	63.3	55.8	62.6
1970	55.4	49.8	58.8	59.0	63.6	66.5	71.6	71.7	69.3	64.0	58.0	53.8	62.6
1971	54.0	44.3	54.9	57.9	58.3	62.6	69.4	73.7	69.8	61.3	54.1	47.9	59.7
1972	50.2	48.8	57.0	59.2	62.0	64.5	71.7	71.5	67.7	62.1	58.1	54.3	61.1
1973	51.6	54.8	52.6	57.0	61.7	67.7	70.4	70.5	67.0	64.9	55.8	55.1	60.8
1974	52.3	54.8	55.2	57.7	60.0	65.3	69.4	68.4	68.6	64.4	60.1	54.1	60.8
1975	54.4	52.1	52.2	52.7	58.4	61.0	67.4	66.8	69.7	62.8	58.0P	54.2	M
1976	56.7	55.4	56.7	54.4	60.9	66.9	70.1	69.9	69.8	67.9	65.5	58.6	62.6
1977	57.1	49.5	54.2	60.4	60.4	66.8	71.9	72.4	70.5	67.6	63.7	60.3	63.7
MEAN	54.6	52.2	56.0	58.8	61.6	65.0	70.1	71.3	69.9	66.1	61.0	56.2	62.2

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1947	M	M	M	M	M	M	.00	T	.83	.58	1.00	4.83	M
1948	T	1.46	.83	.08	T	.07	T	.00	.00	.87	.04	2.51	5.86
1949	2.59	1.97	.21	M	M	M	.00P	TP	.06P	.23P	1.14	1.14	M
1950	3.00	1.78	1.66	.36	1.18	T	.02	T	T	T	1.21	.19	8.78
1951	1.87	1.98	.63	2.28	T	T	.15	.65	.20	1.58	1.16	4.95	14.96
1952	5.26	1.00	5.03	1.65	T	.06	T	T	.05	T	1.72	2.30	17.07
1953	.36	.66	.98	.57	.14	.08	.02	T	T	.03	.59	.08	3.06
1954	3.62	.67	5.40	.11	.07	.01	.17	T	T	T	.96	.49	11.70
1955	3.39	1.90	.39	1.50	1.16	T	T	T	T	T	.80	.46	9.68
1956	2.17	.26	.02	1.94	.30	T	.00	T	.00	.01	.00	.05P	M
1957	6.48	.47	.81	1.16	1.55	.40	T	T	T	1.62	.63	.97	14.30
1958	.96	9.57	4.96	2.92	.27	T	T	T	.20	.07	.34	.06	15.34
1959	.66	9.69	T	.42	T	T	T	.04	T	.57	.19	1.83	7.40
1960	3.40	2.18	.92	.39	.32	.03	T	T	.38	.03	1.73	.11	9.69
1961	.89	.01P	1.49	.01	.09	.02	T	T	.01	.72	.95	1.82	M
1962	2.88	9.48	1.48	T	.69	.09	T	.00	T	.01	.01	.91	8.95
1963	.54	1.70	1.46	1.05	.08	.30	.00	T	2.10	.12	1.67	.09	9.03
1964	1.25	.43	2.00	1.04	.39	.05	.00	T	.36	.08	1.13	.71	7.38
1965	.31	.96	1.16	3.84	T	T	.01	T	.20	.01	9.66	4.70	16.93
1966	1.02	1.19	.12	T	T	T	.24	.01	T	T	.97	1.26	4.83	9.04
1967	1.93	T	1.01	1.91	.04	.06	.08	T	T	.00	1.93	1.23	8.19
1968	.41	.22	1.05	.56	.23	.01	.06	.00	T	.03	.30	.73	3.80
1969	3.89	4.52	1.40	.26	.20	.26	.06	T	.01	T	.72	.47	11.98
1970	.44	2.06	.97	.29	.03	T	T	.03	.00	.12	1.26	1.98	6.98
1971	.60	.47	.25	.88	.98	.01	T	.01	.02	.98	.17	2.88	7.20
1972	.07	.24	T	.02	.30	.76	.00	T	.20	.81	3.71	1.31	7.42
1973	2.01	2.12	2.64	.05	.03	T	T	.02	.02	.03	1.58	.19	8.69
1974	4.36	.76	1.93	.17	.18	.06	.07	.00	T	2.11	.61	2.14	11.87
1975	.55	.77	3.09	3.52	T	.11	.12	.00	.03	.13	.09P	.03	M
1976	T	9.26	1.09	1.94	.34	.03	T	.11	1.98	.52	1.59	1.14	14.00
1977	2.27	.13	.96	.05	2.60	.03	T	1.42	T	.38	.01	2.40	10.23
MEAN	1.92	1.67	1.46	.99	.38	.09	.03	.08	.21	.41	1.15	1.92	9.71

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
46-47													M
47-48	0	M	1	35	M	M	276	369	368	210	141	92	M
48-49	3	0	11	M	127	277	577	408	358	M	M	M	M
49-50	M	M	M	M	85	333	462	307	285	184	198	82	M
50-51	0	1	10	23	158	182	357	311	264	211	146	41	1704
51-52	6	3	4	35	156	353	417	288	371	226	86	102	2047
52-53	8	0	12	46	229	328	214	272	294	264	165	71	1923
53-54	0	1	10	46	138	259	341	145	319	190	102	29	1577
54-55	0	0	4	56	91	242	406	312	218	209	158	98	1794
55-56	3	0	13	86	197	304	333	386	249	235	103	13	1915
56-57	0	0	0	55	76	167	339	214	265	185	96	6	1379
57-58	0	0	0	37	197	149	227	192	310	133	88	2	1376
58-59	0	0	0	6	109	127	210	284	113	60	66	0	973
59-60	0	0	2	21	41	199	369	296	219	135	72	11	1365
60-61	1	0	0	38	141	273	158	M	208	109	72	8	M
61-62	0	0	3	47	172	277	286	285	343	112	100	42	1667
62-63	3	0	1	7	130	216	281	M	176	126	72	47	M
63-64	0	0	0	9	102	114	264	230	228	123	53	23	1148
64-65	0	0	0	6	106	228	252	251	226	182	109	71	1521
65-66	1	0	4	10	109	292	347	317	226	114	47	4	1471
66-67	0	0	0	1	90	186	258	202	285	389	149	127	1688
67-68	0	0	0	2	76	362	311	195	230	170	112	46	1504
68-69	1	0	5	23	149	359	229	302	279	132	95	61	1635
69-70	1	0	0	63	79	282	292	150	138	178	81	22	1304
70-71	0	0	9	59	203	340	334	304	325	218	207	92	2103
71-72	0	0	29	195	321	329	453	318	242	168	117	33	2400
72-73	0	0	6	82	200	325	411	281	277	236	112	19	2049
73-74	0	0	11	80	274	304	387	277	293	217	157	45	2025
74-75	5	0	4	93	164	331	322	295	292	368	197	119	2310
75-76	7	2	4	99	M	331	260	269	314	311	125	44	M
76-77	0	0	0	5	82	189	242	166	327	137	137	5	1290
77-78	0	0	0	19	81	140							
MEAN	1	0	3	43	144	270	321	275	275	191	114	48	1682

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1947							164		172	32			M
1948	7	1	0	19	4	10	81	81	123	M	6	0	M
1949	0	0	0	M	M	M	M	M	M	M	119	0	M
1950	0	0	3	3	0	16	124	179	48	76	83	6	459
1951	4	0	5	0	1	14	129	100	91	81	18	0	443
1952	0	6	4	0	5	1	113	164	170	32	19	6	520
1953	15	4	5	0	30	29	198	134	87	107	37	10	658
1954	0	38	0	0	1	17	216	158	139	29	40	2	640
1955	0	1	7	5	9	14	94	244	227	13	19	0	633
1956	0	0	0	0	30	56	131	135	233	45	88	11	749
1957	0	8	1	0	1	134	220	270	138	21	1	10	804
1958	0	2	0	38	29	73	140	226	224	198	12	37	979
1959	1	0	20	22	4	114	201	252	181	72	52	13	1012
1960	0	0	6	30	43	45	211	184	210	67	3	3	804
1961	17	M	6	29	7	106	203	267	163	122	30	0	M
1962	12	9	0	35	20	63	34	240	174	77	15	1	670
1963	5	M	6	7	11	14	134	247	922	124	20	36	M
1964	3	0	14	33	35	70	238	228	149	216	30	0	1016
1965	15	4	1	28	3	6	117	300	116	211	6	12	821
1966	0	0	3	15	12	123	237	331	228	165	40	1	1157
1967	1	1	1	0	32	6	147	309	217	131	26	0	871
1968	1	3	4	10	21	39	204	207	180	58	14	0	741
1969	13	0	4	10	1	16	182	290	196	32	35	4	783
1970	0	9	5	3	43	73	211	214	114	27	1	0	700
1971	18	11	0	13	5	25	141	275	149	87	2	0	726
1972	0	0	0	2	32	23	214	209	93	28	0	0	603
1973	0	0	0	0	15	106	175	177	80	62	3	2	620
1974	0	0	0	0	4	96	180	112	120	33	24	0	521
1975	1	0	0	0	0	2	87	63	133	33	M	0	M
1976	11	0	0	0	5	108	165	158	132	102	104	1	804
1977	4	14	0	5	2	65	219	258	172	98	49	7	873
MEAN	4	4	3	10	15	48	165	203	160	83	30	5	730

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

MIRAMAR, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93107	Miramar, California	32°52'N	117°08'W	477	KNKX	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1949	1953	32°52'N	117°08'W	473	Mercurial	
2.	Moved to new office in operations building	"	1953	1957	"	"	463	"	
3.	Resurveyed	"	1957	1968	"	"	459	"	24
4.	New barometer ML 512/GM	"	1968		"	"	459	"	24
1a.	Weather service office	"			"	"	461	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1a.		Roof of tower	Aerovane		47'	1. Barograph
1.	1949	Atop hangar roof on 18' mast, 250' from weather office	Selsyn	Double	50'	2. Auto met station (AN/GMQ-29) 3. Ceiling light (ML-121)
2.	1953	New transmitter installed	"	"	50'	4. Cloud height set (AN/GMQ-13D)
3.	1953	Roof of operations tower	"	"	47'	5. Transmissometer (AN/GMQ-10) 2 ea.
4.	1954	1000' north of operations building (installed)	"	"	18'	6. RWY Temperature SPEEDOMAX H-4
5.	1957	1000' north of operations building	UMQ-5C	RD-108	22'	
6.	1960	2700' southwest of weather office	"	"		
7.	1968	Top of control tower	UMQ-5C	RD-108	65'	
8.	1970	2700 feet southwest of weather office	UMQ-5	RO-447/ GMQ-29	20'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Moffett Field is situated at the southern end of San Francisco Bay. The bay terminates in marshes northeast of the field, and northwest the bay becomes a widening area of open water. The Santa Clara Valley extends to the southeast with the closest point of the Pacific Ocean approximately 25 miles to the west. The terrain around the field is such that it lies in a protected bowl. This bowl is formed by the ridges of the Santa Cruz Mountains in addition to the Sunol and Valpe ridges of the Diablo Mountains.

NAS Moffett Field enjoys a mediterranean or dry summer subtropical type climate. Winter rains account for approximately 80% of the annual precipitation during the months of November through March. An average of 7 to 10 days per month have precipitation during the winter. Severe winter storms with heavy rain and gale winds occur only occasionally. Thunderstorms, although very infrequent, may occur during any period of the year and are usually of light intensity.

The daily and annual temperature range is relatively small. Freezing temperatures may be expected occasionally during the winter months. Under the right synoptic conditions temperatures have been known to exceed 100 degrees F. during summer and early autumn; however, these temperatures are the exception rather than the rule.

The summer weather is dominated by night and morning stratus (usually dissipating before noon) and the sea breeze emanating from the cold waters of the bay. Both influences combine to moderate daily temperatures. The average maximum ranges in the low 70's with minimums in the mid 50's. September, the month during which the sea breeze becomes less pronounced, is the warmest month of the year. September is also the month during which the all time record maximum of 105 degrees was observed.

During the winter months the worst flying conditions may be expected. Fog is the usual cause for below minimum conditions at the station. It's prevalence increases from a negligible value in September to a maximum of 3% of the time in December, then decreases to 0.3% by March. Relatively unfavorable flying conditions are also encountered during frontal passages.

Obstructions to vision consist largely of haze and smoke. This pollution is trapped below a strong inversion based between 1,000 to 2,000 feet persisting through most of the summer. Inversions close to the ground are not common during summer months, but become more frequent during the fall and winter months.

MOFFETT FIELD, CALIFORNIA

PREPARED BY: NAVSO ASHEVILLE
JUNE 1978

STATION NAME: MOFFETT FIELD, CALIFORNIA
LOCATION : N37 25 W122 03

PERIOD: MAR 45-DEC 77
ELEV : 26

STN LTRS: KNUQ
WBAN # : 23244
WMO # : 74509

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	T'MS DM ES R	VIS BY FOG 7MI	MAX DEG > 90	> 75	MIN AND < < 45	32
JAN	57	41	49	76	21	2.6	6.2	.2	2.3	#	2	82	64	.25	40	350	SE	5	56	6	9	1	#	#	#	13	0	#	24	4
FEB	60	44	52	82	26	1.9	6.0	.1	1.5	#	#	82	62	.28	43	350	SE	5	56	6	9	1	0	0	#	10	0	#	17	1
MAR	62	45	53	83	30	1.9	6.0	.1	1.3	#	#	79	56	.28	43	350	NNW	6	44	5	9	1	0	0	#	5	0	1	18	#
APR	66	47	56	87	32	.9	4.0	#	1.2	0	0	79	54	.30	45	300	NNW	6	43	5	5	#	0	0	#	4	0	4	12	#
MAY	69	51	60	103	38	.4	1.7	#	.7	0	0	80	56	.34	48	250	NNW	6	38	4	3	#	0	0	#	3	#	5	4	0
JUN	73	54	64	104	43	.1	.5	0	.4	0	0	80	57	.39	52	300	NNW	7	40	4	1	#	0	0	#	2	1	9	1	0
JUL	74	56	65	101	45	#	.3	0	.3	0	0	83	60	.44	55	200	NNW	6	33	3	#	#	0	0	#	6	#	11	#	0
AUG	74	57	66	100	47	.1	.8	0	.5	0	0	83	60	.44	55	250	NNW	6	34	3	1	#	0	0	#	8	#	12	0	0
SEP	75	56	66	105	41	.2	2.0	0	2.0	0	0	80	54	.42	54	300	NNW	5	33	3	1	#	0	0	#	7	2	13	1	0
OCT	71	52	62	93	33	.7	3.5	0	2.5	0	0	79	53	.36	50	250	NNW	4	48	4	3	#	0	0	#	10	#	9	4	#
NOV	64	46	55	87	29	1.7	5.6	#	2.8	0	0	81	59	.30	45	300	NNW	4	46	5	7	1	0	0	#	12	0	1	14	1
DEC	57	42	50	76	27	2.4	9.6	.2	2.2	#	#	83	65	.27	42	350	SE	4	54	6	10	1	0	0	#	15	0	#	22	2
ANN	67	49	58	105	21	12.9	9.6	0	2.8	#	2	81	58	.34	48	350	NNW	5	56	4	58	5	#	#	#	95	3	65	117	8
EYR	33	33	33	33	33	33	33	33	33	32	32	33	33	33	33	33		33	33	29	33	33	32	32	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	27	29	29	24	28	30	37	37	27	24	22	30	29	33
LESS 5000	04	33	35	34	31	36	38	47	49	39	31	26	33	36	33
FT AND/OR	07	37	40	37	34	40	40	51	52	44	35	32	43	41	33
VISIBILITY	10	34	36	35	28	27	19	12	15	21	27	27	37	26	33
LESS 5 MI	13	30	29	31	22	18	11	3	4	7	12	22	30	18	33
	16	27	24	28	19	13	11	4	3	5	9	19	24	16	33
	19	23	22	20	15	12	10	4	3	6	10	16	23	14	33
	22	24	24	22	18	19	16	15	19	15	16	19	26	19	33
	ALL HRS	29	30	29	24	24	22	22	23	20	21	23	31	25	33
CEILING	01	6	8	4	4	5	7	20	19	9	8	6	10	9	33
LESS 1000	04	11	11	6	6	7	9	25	25	15	13	10	13	13	33
FT AND/OR	07	14	14	6	6	7	7	21	24	18	16	13	17	14	33
VISIBILITY	10	12	11	4	3	2	2	2	2	2	7	9	14	6	33
LESS 3 MI	13	4	3	3	2	3	4	2	1	1	1	4	5	3	33
	16	3	1	4	3	4	5	3	1	2	2	2	2	3	33
	19	2	2	2	2	3	5	3	1	2	2	2	4	3	33
	22	4	4	3	2	3	3	6	8	5	4	4	7	4	33
	ALL HRS	7	7	4	4	4	5	10	10	7	7	6	9	7	33
CEILING	01	4	5	2	1	0	1	1	0	0	1	3	6	2	33
LESS 500	04	8	9	3	1	0	1	1	1	1	4	6	9	4	33
FT AND/OR	07	10	11	3	2	1	1	1	2	3	7	9	13	5	33
VISIBILITY	10	9	7	2	1	2	2	1	0	0	2	6	9	3	33
LESS 1 MI	13	2	1	3	2	3	4	2	1	1	1	2	3	2	33
	16	2	1	4	3	4	5	3	1	2	2	2	3	3	33
	19	1	1	2	2	3	5	3	1	2	1	2	2	2	33
	22	3	2	2	1	1	2	1	0	1	1	1	4	2	33
	ALL HRS	5	5	3	2	2	3	2	1	1	2	4	6	3	33
CEILING	01	2	2	2	1	0	1	1	0	0	0	1	3	1	33
LESS 100	04	4	4	2	1	0	1	1	0	0	1	3	4	2	33
FT AND/OR	07	5	5	1	1	1	1	1	0	0	2	4	5	2	33
VISIBILITY	10	3	2	2	1	2	2	1	0	0	0	2	2	2	33
LESS 1/4 MI	13	2	1	3	2	3	4	2	1	1	1	2	1	2	33
	16	2	1	4	3	4	5	3	1	2	2	2	1	2	33
	19	1	1	2	2	3	5	3	1	2	1	1	1	2	33
	22	1	1	2	1	1	2	1	0	1	1	1	2	1	33
	ALL HRS	2	2	2	2	2	2	2	1	1	1	2	2	2	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	50.1	55.8	57.7	63.6	66.3	66.2	65.6	61.2	53.8	50.0	M
1966	48.0	47.6	52.9	55.4	58.0	63.0	65.6	63.7	65.0	58.9	51.2	48.3	56.6
1967	48.7	51.8	54.7	58.8	61.6	66.1	66.9	65.7	65.1	60.8	50.5	47.1	57.9
1968	50.2	48.3	50.2	53.6	56.0	63.1	64.4	65.0	63.0	60.5	53.4	49.0	56.1
1969	41.1	46.7	52.3	56.2	58.9	64.2	63.3	63.59	65.0	58.3	56.7	46.4	M
1970	44.4	49.3	51.1	56.9	58.6	61.3	65.3	66.0	65.2	61.3	58.7	52.3	57.6
1971	48.6P	49.6	52.4	53.9	60.2	61.8	63.0	64.5	63.9	60.9	54.8	47.7	M
1972	46.8	50.3	50.7	56.4	60.6	61.1	65.9	64.2	64.3	61.6	52.5	50.0	57.3
1973	52.7	51.1	52.0	54.7	57.8	61.3	65.3	64.5	64.4	60.4	55.7	51.2	57.8
1974	49.0	42.7	51.1	59.0	60.0	63.0	66.1	62.4	62.3	59.1	54.4	47.7	57.2
1975	45.1	48.4	52.6	51.2	58.9	61.1	62.1	63.0	62.9	59.2	53.0	51.9	55.8
1976	49.9	47.3	51.1	53.9	59.2	61.5	63.1	62.8	64.4	58.0	54.5	48.4	56.2
1977	46.0	53.5	54.1	57.4	59.7	63.0	65.5	63.7	65.1	61.0	53.7	49.3	57.9
1978	50.7	48.9	51.1	55.9	60.8	64.1	64.8	67.2	64.1	62.9	54.6	53.7	59.1
1979	52.0	51.2	56.4	58.9	59.1	63.0	65.6	65.9	64.3	59.7	50.8	50.8	58.0
1980	49.2	52.2	56.1	56.3	58.7	66.1	64.9	63.8	65.8	60.5	53.5	48.9	57.8
1981	48.0	52.6	55.0	56.8	58.7	65.0	66.7	66.2	66.6	61.3	53.9	47.6	57.8
1982	48.8	50.6	51.1	57.8	58.2	62.2	62.7	63.8	63.6	60.9	56.7	50.3	57.3
1983	46.0	47.6	53.2	56.4	59.4	62.5	64.5	65.0	67.0	61.9	54.7	46.6	57.7
1984	49.4	51.0	52.3	55.1	59.8	61.9	64.3	65.0	64.4	63.3	52.9	52.0	57.4
1985	49.9	51.4	55.4	56.0	58.2	60.3	63.3	66.1	65.8	63.4	55.9	46.5	57.3
1986	49.5	50.6	54.0	60.2	60.3	64.7	66.0	65.1	64.5	62.6	55.7	49.7	58.5
1987	50.6	51.0	55.0	58.3	61.5	63.7	66.8	66.0	66.1	58.4	49.7	48.4	58.4
1988	47.2	48.1	55.8	57.8	58.8	64.9	65.0	66.1	67.7	64.3	56.1	49.6	59.1
1989	49.7	51.1	55.4	60.5	60.0	67.9	67.7	67.6	67.1	63.1	57.4	55.9	60.8
1990	54.3	56.5	57.1	56.3	61.9	62.2	63.6	62.5	66.7	59.8	56.4	49.2	58.7
1991	50.3	51.5	55.1	56.5	58.3	63.8	66.6	69.1	66.7	58.5	56.0	48.6	58.0
1992	47.9	48.9	57.5	56.9	61.1	66.1	67.3	66.8	66.6	62.9	54.4	48.4	58.8
1993	51.2	55.5	55.0	59.7	62.5	68.3	66.4	66.1	67.5	63.7	56.0	52.1	60.2
1994	50.4	49.5	56.0	58.5	60.7	62.9	66.7	68.0	64.9	63.5	55.9	50.6	58.9
1995	49.3	53.3	52.3	52.0	61.9	61.2	63.1	64.0	63.0	58.8	52.6	52.2	56.9
1996	52.0	51.5	55.2	55.7	62.3	67.6	67.5	68.2	67.5	64.6	57.3	49.1	59.9
1997	49.1	53.8	51.8	59.3	58.4	66.7	67.9	68.3	66.4	62.8	58.0	54.6	59.7
MEAN	48.7	51.8	53.1	56.2	59.7	63.6	65.0	65.4	65.3	61.5	55.0	49.7	57.9

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	2.00	.20	.52	T	T	.00	.00	1.20	1.15	2.88	M
1966	.87	1.96	1.98	.01	.60	.00	.09	.00	.08	.04	2.15	1.93	.80
1967	.47	.81P	1.38	.14	.19	.26	T	.00	.09	1.40	.65	.53P	M
1968	.26	1.43	1.84	2.69P	.71	T	.00P	T	T	.39	.12	2.94	M
1969	.31	2.19	3.97	.01	.58	T	.13	.11	.06	.18	.79	1.11	9.24
1970	3.42	.63	1.22	.62	.13	T	.03	T	.11	2.19	3.27	3.89	19.51
1971	1.73P	1.42	1.23	.96	.61	.09	.00	T	T	.43	1.79	4.13	M
1972	5.43	1.07	4.00	1.03	.03	.04	.02	T	.02	.01	1.51	5.20	18.96
1973	1.38	.78	.98	.60	.12	.00	.05	.00	.22	1.68	.36	4.15	
1974	1.79	1.42	3.00	.33	.07	.29	.00	T	T	1.05	2.98	10.55	
1975	3.44	9.98	.12	1.10	.78	.00	T	T	T	1.69	9.85	18.83	
1976	5.62	1.70	.18	.01	.61	.00	.00	.00	.45	.54	T	.51	9.80
1977	7.64	2.62	1.39	.95	1.52	.05	T	.00	.29	.97	.34	2.97	13.94
1978	3.65	5.96	5.94	3.36	.58	.13	T	.00	.08	.08	.16	.66	20.64
1979	2.73	4.16	.30	.15	.02	.00	.00	T	.01	1.09	10.46		
1980	4.14	9.75	.44	.87	.31	.00	T	.00	T	.04	2.98	.84	12.37
1981	1.52	.49	2.25	.71	.82	.05	.00	.07	.29	.10	2.31	1.45	10.18
1982	1.15	5.57	1.79	.12	T	T	.00	T	.01	3.52	.34	1.78	14.22
1983	3.28	9.70	2.49	3.11	.63	.02	T	.02	.14	.85	2.30	.15	24.98
1984	3.27	.16	.97	.03	.45	.48	T	.10	.00	.90	2.88	4.34	13.36
1985	2.20	.48	1.93	2.26	T	T	.02	.19	.01	.06	4.19	2.71	14.16
1986	1.06	.96	.44	.53	.13	.23	.31	.03	.12	.00	2.69	2.88	9.16
1987	5.63	1.34	3.36	3.98	.10	.11	.00	.00	.03	.18	1.33	1.57	16.39
1988	4.38	.49	3.14	.71	.12	T	T	.04	T	.92	2.14	2.90	15.04
1989	6.23	4.97	.93	1.98	.02	.02	.00	.00	.18	.52	.46	1.02	17.33
1990	4.84	1.26	1.59	.19	.03	.09	.00	.00	.00	.37	5.55	4.42	18.42
1991	.86	.45	1.22	1.12	.05	T	.00	.04	.09	.03	.77	3.59	8.20
1992	.80	.72	.07	.14	.10	.24	T	.04	.00	.67	3.04	5.58	11.72	13.14
1993	4.15	5.97	2.27	.13	.02	T	T	.00	.09	1.98	3.92	2.07	20.08
1994	2.65	.98	2.29	1.24	.11	.20	.02	.00	.00	.97	.56	2.26	11.31
1995	1.26	1.96	4.14	1.14	T	.06	.17	.93	.02	1.07	.16	.22	10.81
1996	.22	1.40	1.21	.44	T	.15	.06	.84	.59	.40	.88	.66	6.85
1997	1.08	.51	1.86	.14	1.74	.00	.17	.00	.51	.23	.70	3.05	9.99
MEAN	2.61	1.90	1.86	.90	.38	.08	.03	.06	.17	.69	1.69	2.43	12.80

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									655	273	219	59	M
45-46	6	41	32	111	334	458	566	486	397	281	145	70	2965
46-47	25	60	44	145	408	512	653	362	314	197	112	28	2910
47-48	31	14	43	140	420	548	620	481	434	335	254	72	3252
48-49	44	38	74	140	340	611	739	505	386	259	186	63	3373
49-50	50	M	49	209	742	572	633	492	421	245	202	122	M
50-51	21	31	31	115	166	386	M	417	384	327	181	97	M
51-52	75	57	64	130	298	550	557	471	434	242	152	112	3096
52-53	15	42	20	118	369	441	576	386	384	300	225	120	2926
53-54	31	30	20	149	772	420	486	336	429	180	155	88	2596
54-55	28	96	102	183	310	528	609	687	378	405	196	136	3613
55-56	88	29	97	176	354	399	465	506	422	324	188	127	3224
56-57	65	46	44	208	313	505	589	316	330	230	159	67	2846
57-58	25	42	20	120	332	479	439	252	427	267	139	39	2585
58-59	21	0	17	84	304	344	589	379	260	184	181	72	2239
59-60	17	39	20	76	275	433	486	362	371	261	187	51	2479
60-61	46	55	69	148	337	490	521	315	366	250	252	66	2915
61-62	31	21	61	145	322	529	493	404	421	220	208	105	2960
62-63	72	90	78	131	245	450	587	194	362	313	170	76	2708
63-64	42	91	A	95	305	569	476	375	389	299	276	126	2991
64-65	47	28	74	76	357	398	461	375	351	270	203	138	2782
65-66	62	15	67	80	267	544	474	403	336	150	140	55	2613
66-67	49	91	28	88	279	469	439	358	366	430	181	118	2808
67-68	26	10	7	96	199	471	548	250	377	216	192	48	2295
68-69	36	21	9	71	263	474	468	386	401	335	27	1	2186
69-70	7	9	13	69	223	280	524	252	269	314	146	87	1945
70-71	73	100	36	108	250	481	449	370	362	308	203	78	2976
71-72	14	0	65	214	268	500	525	316	232	238	184	54	2559
72-73	11	10	30	92	311	509	419	260	362	157	112	24	2306
73-74	12	8	A	65	265	392	446	431	339	195	140	79	2374
74-75	53	2	12	76	268	434	483	322	389	280	140	118	2675
75-76	82	99	117	191	372	391	597	382	394	272	116	62	2792
76-77	5	1	10	92	223	488	488	307	400	171	198	22	2375
77-78	13	2	22	84	209	315							
MEAN	37	32	43	123	294	466	498	368	362	261	173	77	2734

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1965			0	3	0	61	55	23	38	2	5	0	M
1966	0	0	0	1	3	17	30	27	55	12	0	0	145
1967	0	0	0	18	13	71	35	43	54	18	0	0	294
1968	0	0	0	0	0	22	31	36	23	8	0	0	120
1969	0	0	0	0	5	44	15	M	38	8	0	0	M
1970	0	0	0	6	15	18	36	70	66	6	13	0	230
1971	M	0	0	0	20	8	21	27	38	8	0	0	M
1972	0	0	0	0	30	1	32	25	77	21	0	0	204
1973	0	0	0	0	9	19	49	23	77	13	0	0	190
1974	0	0	0	7	5	33	67	11	26	8	0	0	157
1975	0	0	0	0	12	24	5	30	40	3	2	0	116
1976	0	0	0	0	12	30	15	5	36	0	0	0	98
1977	0	0	0	8	1	69	49	18	40	6	0	0	187
1978	0	0	0	0	11	13	22	74	116	23	0	0	261
1979	0	0	1	6	4	36	45	49	20	62	2	0	245
1980	0	0	3	7	1	90	30	23	41	13	0	0	228
1981	0	0	0	11	0	76	90	66	61	36	0	0	340
1982	0	0	0	9	3	30	4	47	13	9	3	0	118
1983	0	0	0	0	5	8	26	33	74	8	0	0	156
1984	0	0	0	7	0	37	33	37	66	32	0	0	212
1985	0	0	0	8	0	0	12	36	9	34	0	0	119
1986	0	0	1	12	1	53	25	40	49	18	3	0	202
1987	0	0	0	0	23	17	53	74	97	35	10	0	309
1988	0	0	0	8	3	50	40	62	90	37	0	0	312
1989	0	0	11	7	66	94	99	96	85	17	1	3	475
1990	0	0	3	0	53	9	38	92	93	13	0	0	241
1991	0	0	0	0	0	30	73	132	109	19	0	0	383
1992	0	0	4	1	22	33	91	69	36	33	0	0	289
1993	0	0	6	1	41	119	69	49	87	32	0	0	407
1994	2	0	0	6	13	24	51	119	78	40	0	0	331
1995	0	0	0	0	50	7	30	34	24	3	0	0	194
1996	0	0	0	0	42	149	81	106	99	98	0	0	576
1997	0	0	0	6	5	80	94	111	74	21	0	0	389
MEAN	0	0	1	4	14	43	45	52	59	21	1	0	240

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

MOFFETT FIELD, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
23244	Moffett Field, California	37°25'N	122°03'W	26	KNUQ	74509

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1945	1954	37°25'N	122°03'W	25.4	Fortin	24
2.	" " "	"	1954		"	"	38.5	"	24
1a.	" " "	"	1968		"	"	40.5	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1945	On mast located 70' WNW of control tower	3 cup		60'	1. Microbarograph 2. Auto met. station (AN/GMQ-29A)
2.	1955	Atop control tower	UMQ-5C	RD-108B	71'	3. Ceiling light (ML-121H)
3.	1961	1600' SE of operations building, 295 ' west of runway 32L taxiway	"	"	13'	4. Cloud height set (AN/GMQ-13) 5. Transmissometer (AN/GMQ-10C)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station New Orleans is approximately 15 miles south of the city of New Orleans. The terrain over the entire area is largely marshy delta land cut by numerous bayous, canals, and drainage ditches. The station is virtually surrounded by water.

The climate of the area in a large part is influenced by the close proximity of the many water surfaces. Throughout the year, these waters modify the relative humidity and temperature conditions, decreasing the range between extremes.

During the summer season prevailing winds carry inland warm moist air favorable for sporadic, often localized, thunderstorms. These thunderstorms are the main source of precipitation during the summer months.

NAS New Orleans is in the hurricane belt. The area is frequently influenced by tropical storms and hurricanes from June through November each year.

During the winter season, the area is subjected alternately to tropical air and cold continental air. From December to May, the numerous water areas are usually colder than the air temperature, favoring the formation of fogs over them, particularly with weak southerly winds.

The occurrence of fog and/or low stratus clouds significantly affects aviation operations from December through March, with the greatest frequency in February. Visibility, at times, is reduced by smoke from the industrial plants along the river. Smoke, during the fall and winter also occurs when marshland areas are burned.

A fairly definite rainy period exists during the winter season. Measurable precipitation occurs on about one third of the days. Violent thunderstorms move through the area, in connection with cold fronts and squall lines, during the winter season. These frontal storms occasionally produce severe thunderstorms and tornadic activity. Waterspouts are occasionally observed during these periods. The pattern of spring rains is similar to those of winter, while fall rains tend to be distributed in much the same manner as the summer showers. July, August, and September have the highest mean precipitation.

NEW ORLEANS, LOUISIANA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: NEW ORLEANS, LOUISIANA
LOCATION : N29 50 W90 01

PERIOD: JAN 58-DEC 77
ELEV : 2

STN LTRS: KNBG
WBAN # : 12958
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	PRECIPITATION INCHES MEAN	PRECIPITATION INCHES MAX	PRECIPITATION INCHES MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.0 OR GTR	THUNDER DAYS	VISBY DAYS < 7MI	MAX DEG > 90	MAX DEG > 75	MIN AND < 32	MIN AND < 20
JAN	61	43	52	81	14	4.8	11.8	1.1	6.1	*	*	#	82	68	.29	44	330	N	6	43	6	10	3	0	0	2	17	0	4	6	#
FEB	64	44	54	84	20	4.6	9.4	1.4	6.2	#	1	1	80	61	.30	45	400	N	6	47	6	9	3	#	0	3	13	0	4	3	#
MAR	70	52	61	86	28	4.8	10.1	.7	4.1	0	0	0	83	63	.39	52	400	S	6	45	6	9	3	0	0	4	16	0	11	1	0
APR	78	59	69	88	36	4.2	15.3	.7	6.7	0	0	0	86	61	.52	60	350	S	6	42	5	7	2	0	0	4	16	0	22	0	0
MAY	83	66	75	97	47	4.9	11.0	.1	4.1	0	0	0	86	60	.62	65	250	S	5	44	5	8	3	0	0	7	17	2	30	0	0
JUN	88	71	80	98	53	4.2	9.7	.4	4.7	0	0	0	88	63	.77	71	200	S	4	43	5	10	2	0	0	11	13	11	30	0	0
JUL	89	73	82	98	62	4.3	12.1	2.4	3.7	0	0	0	90	67	.82	73	100	W	3	46	6	16	4	0	0	19	12	15	31	0	0
AUG	89	74	82	99	61	4.0	15.1	2.4	2.4	0	0	0	89	67	.82	73	150	E	3	53	5	15	4	0	0	16	13	16	31	0	0
SEP	86	71	79	96	46	4.2	16.7	1.4	8.1	0	0	0	89	67	.77	71	200	E	4	89	5	11	3	0	0	9	14	7	30	0	0
OCT	79	60	70	93	39	3.7	10.8	#	4.3	0	0	0	85	59	.52	60	250	NNE	4	52	4	7	2	0	0	2	17	1	24	0	0
NOV	70	50	61	88	26	3.5	9.6	.3	2.9	#	#	#	83	61	.39	52	300	N	5	41	5	8	2	0	0	2	15	0	12	1	0
DEC	64	45	55	85	15	4.8	9.1	1.4	4.3	#	6	6	82	66	.32	47	350	N	5	45	6	10	3	#	#	3	17	0	5	4	#
ANN	77	59	68	99	14	58.0	16.7	#	8.1	#	6	6	85	64	.52	60	350	E	5	89	5	120	34	#	#	82	180	92	234	15	#
EYR	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	40	30	36	24	11	4	2	2	8	11	23	37	19	20
LESS 5000	03	44	35	40	32	12	4	2	2	8	15	28	39	22	20
FT AND/OR	06	46	39	46	35	18	6	5	6	19	25	34	41	26	20
VISIBILITY	09	43	35	42	39	31	22	20	19	24	21	28	38	30	20
LESS 5 MI	12	39	32	40	38	34	32	30	32	35	25	28	35	33	20
	15	35	31	36	30	25	21	24	22	25	17	23	32	27	20
	18	32	28	30	19	13	8	8	8	11	14	18	30	18	20
	21	35	27	31	21	11	4	2	3	7	11	20	31	17	20
ALL	HRS	39	32	38	30	19	13	12	12	17	17	25	35	24	20
CEILING	00	24	15	18	9	2	0	0	0	1	4	10	20	8	20
LESS 1000	03	27	17	22	12	3	1	0	0	1	6	12	21	10	20
FT AND/OR	06	26	22	25	13	4	1	1	1	4	9	16	22	12	20
VISIBILITY	09	23	17	17	6	2	1	1	1	4	6	12	20	9	20
LESS 3 MI	12	14	8	6	2	2	1	1	2	2	4	5	12	5	20
	15	10	7	6	2	2	0	0	1	2	2	4	9	4	20
	18	13	9	8	3	2	0	0	0	1	3	4	12	5	20
	21	18	12	12	6	2	0	0	0	1	3	6	17	6	20
ALL	HRS	19	13	14	7	2	1	0	1	2	5	9	17	7	20
CEILING	00	13	6	6	1	0	0	0	0	0	1	3	8	3	20
LESS 400	03	15	6	11	3	1	0	0	0	0	2	4	11	4	20
FT AND/OR	06	15	9	11	4	1	0	0	0	1	4	7	11	5	20
VISIBILITY	09	11	5	3	0	0	0	0	0	0	1	3	7	3	20
LESS 1 MI	12	3	0	1	0	0	0	0	0	0	0	1	2	1	20
	15	2	1	0	0	0	0	0	0	0	0	0	1	0	20
	18	3	1	1	0	1	0	0	0	0	0	1	4	1	20
	21	7	2	3	0	0	0	0	0	0	1	1	3	2	20
ALL	HRS	9	4	4	1	0	0	0	0	0	1	2	6	2	20
CEILING	00	3	1	1	1	0	0	0	0	0	0	1	2	1	20
LESS 100	03	5	2	2	1	0	0	0	0	0	1	2	4	1	20
FT AND/OR	06	5	2	3	1	0	0	0	0	0	2	3	3	2	20
VISIBILITY	09	1	0	0	0	0	0	0	0	0	0	0	1	0	20
LESS 1/4 MI	12	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	15	0	0	0	0	0	0	0	0	0	0	0	0	0	20
	18	0	0	0	0	0	0	0	0	0	0	0	1	0	20
	21	1	0	0	0	0	0	0	0	0	0	0	1	0	20
ALL	HRS	2	1	1	0	0	0	0	0	0	0	1	2	1	20

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1958	47.9	47.6	58.3	68.5	76.6	80.0	80.6	80.2	79.5	68.5	62.6	51.9	66.7
1959	49.7	47.2	58.4	66.4	76.8	79.3	80.4	81.9	79.7	72.8	57.8	54.9	67.8
1960	52.9	52.7	58.7	70.2	72.8	81.5	85.3	84.6	80.0	71.2	62.6	52.2	68.7
1961	49.4	46.4	63.2	62.0	72.6	77.2	79.2	78.3	77.8	67.4	60.5	56.5	66.9
1962	49.8	41.7	57.8	66.0	76.3	79.8	85.0	82.8	80.0	73.4	59.3	52.4	68.8
1963	46.7	49.0	63.6	71.7	75.9	80.0	81.6	83.1	78.5	70.6	60.4	46.1	67.4
1964	49.8	46.0	57.9	69.5	76.9	79.7	80.8	82.5	78.6	65.9	62.6	57.2	67.4
1965	53.7	48.7	58.3	70.1	73.2	77.3	79.4	78.4	77.6P	65.3	65.7	55.2	M
1966	48.5	53.1	59.6	67.6	74.0	76.6	80.7	79.4	77.0	68.2	62.2	54.4	66.8
1967	53.7	44.1	64.4	73.5	73.9	80.2	80.1	79.8	76.7	67.4	60.7	58.0	68.4
1968	52.9	49.0	59.8	69.4	73.3	76.9	77.3	77.8	76.5	67.9	58.5	50.9	66.8
1969	51.5	53.5	57.8	73.2	81.8	82.5	81.2	77.6	71.0	58.5	55.0	50.2	67.4
1970	47.6	54.3	60.0	72.5	73.9	79.2	79.8	81.7	80.0	68.9	56.3	59.3	67.8
1971	55.9	46.9	59.0	67.9	76.8	82.3	83.1	83.2	79.7	73.2	60.8	65.6	70.1
1972	59.6	47.2	62.5	69.6	74.5	81.4	78.7	81.1	81.1	72.3	59.4	58.0	69.6
1973	52.1	52.1	65.4	65.4	76.4	81.2	83.6	81.5	80.3	72.3	65.4	52.3	68.8
1974	63.6	55.6	64.9	68.4	77.6	79.7	82.5	83.1	79.0	67.6	59.4	55.4	69.9
1975	57.5	60.1	61.6	67.4	76.4	79.4	80.7	80.5	74.5	70.3	61.0	52.3	68.6
1976	54.7	59.5	66.1	70.3	73.6	80.3	82.9	83.2	79.3	66.6	53.7	51.6	68.0
1977	46.8	53.1	64.5	68.6	75.7	82.3	83.1	81.1	80.6	67.4	62.9	53.9	68.1
MEAN	52.1	50.1	60.8	68.6	76.6	79.8	81.4	81.3	78.6	69.3	60.4	54.7	68.0

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1958	6.92	7.98	8.45	1.71	5.18	4.48	12.10	4.00	7.18	1.79	.92	1.42	56.23
1959	3.20	4.73	2.63	6.18	8.17	6.67	11.37	8.20	1.77	10.78	1.48	2.42	71.41
1960	3.26	4.94	4.84	6.69	2.50	.37	5.76	6.74	3.41	9.71	.27	6.32	52.81
1961	5.33	9.19	7.03	5.98	4.04	M.93	4.30	9.43	4.49	2.78	6.19	6.49	72.54
1962	4.04	1.98	1.62	2.45	.14	M.90	3.13	3.86	1.62	4.89	2.34	1.83	36.73
1963	3.96	4.37	.67	2.40	1.83	6.78	3.31	3.66	7.21	.01	9.63	5.66	51.67
1964	6.57	4.04	4.81	10.26	1.44	5.19	9.70	9.67	5.46	5.24	1.80	1.97	82.29
1965	7.49	9.20	4.69	2.92	5.60	3.92	5.22	6.84	16.70	2.20	2.83	6.08	69.61
1966	11.84	9.41	2.36	6.26	10.97	.92	6.09	5.76	4.56	5.27	1.51	3.73	68.68
1967	3.33	6.05	2.29	4.06	2.95	3.12	3.43	6.83	3.19	6.54	.39	9.05	53.08
1968	1.10	3.51	1.65	5.12	7.02	1.80	2.44	4.86	2.07	1.91	6.40	6.33	42.21
1969	3.00	3.58	8.10	3.30	5.18	.66	6.12	4.70	1.60	.76P	1.80	5.06	M
1970	3.73	1.95	6.66	1.32	6.10	4.35	4.80	5.46	7.84	5.52	.52	1.78	50.03
1971	3.10	6.60	6.55	.93	1.79	6.09	6.42	5.86	13.67	1.03	2.29	4.48	58.79
1972	4.69	4.77	4.83	1.29	4.93	2.93	3.91	2.41	9.19	2.67	5.31	7.91	59.40
1973	2.54P	9.21	10.08	15.27	2.72	4.50	5.03	4.85	10.30	6.15	3.36	7.66	M
1974	9.57	1.19	5.53	5.38	8.10	1.52	8.37	4.05	5.53	.65	7.31	5.63	80.43
1975	3.28	4.63	5.35	4.45	8.16	4.38	8.04	10.75	8.39	2.83	3.09	3.85	62.00
1976	1.80	9.57	6.09	.89	7.92	4.75	4.68	2.80	2.23	6.57	5.48	7.93	69.17
1977	5.49	9.26	5.32	1.43	2.04	1.19	0.46	15.06	12.94	9.49	8.95	4.15	87.82
MEAN	4.78	6.60	4.79	4.20	4.89	4.20	6.29	6.02	6.21	5.65	3.50	4.77	57.90

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
57-58							525	478	318	37	2	0	M
58-59	0	0	0	26	137	404	468	241	204	33	0	0	1513
59-60	0	0	0	15	257	312	385	360	241	13	17	0	1600
60-61	0	0	0	28	111	397	508	214	104	133	8	0	1503
61-62	0	0	0	46	174	299	480	135	269	70	0	0	1449
62-63	0	0	0	18	172	388	507	446	113	11	1	0	1656
63-64	0	0	0	15	160	587	467	431	236	28	0	0	1924
64-65	0	0	0	53	143	283	351	335	245	17	2	0	1429
65-66	0	0	M	81	70	301	507	328	187	32	0	0	M
66-67	0	0	0	29	136	360	350	311	101	1	1	0	1269
67-68	0	0	18	38	177	265	372	374	304	22	0	0	1770
68-69	0	0	0	61	300	432	370	327	169	16	4	0	1879
69-70	0	0	0	22	217	310	546	347	165	14	9	0	1630
70-71	0	0	0	26	260	206	306	294	219	80	0	0	1389
71-72	0	0	0	8	167	98	220	252	110	26	0	0	881
72-73	0	0	0	16	228	246	394	357	74	87	1	0	1403
73-74	0	0	0	23	93	407	102	279	64	40	0	0	1010
74-75	0	0	0	22	211	332	264	194	179	67	0	0	1269
75-76	0	0	0	8	224	408	438	180	72	7	0	0	1337
76-77	0	0	0	68	349	404	619	332	123	20	0	0	1955
77-78	0	0	0	49	110	351							
MEAN	0	0	1	34	185	339	409	321	179	39	2	0	1509

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1958	0	1	15	145	301	458	480	479	442	143	73	3	2541
1959	2	30	9	104	310	433	486	530	449	263	51	8	2675
1960	17	7	52	173	259	499	624	615	457	228	45	8	2986
1961	0	32	72	50	244	371	448	423	390	129	60	42	2261
1962	17	51	30	108	359	459	480	624	591	458	288	9	3990
1963	7	4	80	220	347	459	521	568	397	197	29	6	2835
1964	1	0	24	173	315	447	497	547	415	89	76	49	2633
1965	10	24	49	177	263	373	453	424	M	101	94	3	M
1966	7	1	25	116	283	385	496	453	366	140	60	10	2321
1967	7	13	28	204	280	459	475	483	314	119	34	37	2369
1968	4	0	25	140	263	364	388	402	290	134	22	0	2072
1969	17	9	0	107	284	512	549	509	381	213	30	8	2619
1970	15	0	19	243	354	433	462	524	436	152	3	39	2706
1971	32	20	39	174	308	524	564	573	449	268	48	122	3125
1972	61	32	42	148	301	498	431	507	487	246	66	36	2879
1973	2	3	93	107	289	493	587	518	465	257	112	20	2986
1974	67	27	129	147	385	448	569	586	427	108	49	41	2983
1975	38	43	83	148	358	437	494	488	525	177	110	22	2743
1976	3	24	117	172	278	463	561	572	434	83	15	0	2722
1977	0	7	114	128	337	527	566	504	478	132	52	16	2899
MEAN	15	17	59	154	307	450	514	513	413	174	53	23	2692

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

NEW ORLEANS, LOUISIANA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
12958	New Orleans, Louisiana	29°50'N	90°01'W	2	KNBG	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, bldg 208	Navy	1950	1957	30°02'N	90°05'W	13	Mercurial	24
2.	" " " " "	"	1958	1961	29°50'N	90°01'W	5	"	24
3.	" " " bldg 1	"	1961	1970	29°49'N	"	5	"	24
4.	Removed	"	1970						
1a.	Weather service office, bldg 1	"	1960		29°50'N	"	6	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Unknown	Atop operation control tower	Selsyn	Triple	87'	1. Marine barograph 2. Auto met. station (AN/GMQ-29A) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13D) 5. Transmissometer (AN/GMQ-10C) 6. Radar (AN/FPS-81) 7. Theodolite 8. Recorder, weather data (RO-379/GMH)
2.	Installed 1958	625' northwest of the operations building	AN/UMQ-5	RD-108B	Unknown	
3.	1960	500' southeast of runway 04-22	"	"	14'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Air Station New River is located in the coastal plains area of North Carolina, on the Morgan Bay sector of the New River. The air station is located approximately 14 miles inland from the Atlantic Ocean. The only area of general dry land lies in the northern sector, with the city of Jacksonville being approximately 3 miles to the north and across the New River.

New River has a warm, pleasant climate with hot summers.

Flying conditions are very good with Visual Flight Rules (VFR) existing 91% of the time. The best month, July, averaging 95% and the worst month, January, 85%.

New River experiences all four seasons, the usual mid-latitude seasonal weather phenomena are all observed to some extent.

Precipitation tends to have two general occurrence peaks, one in January and February. Winter precipitation tends to be rain, rainshowers, drizzle and occasionally snow. In June, July, and August when the Bermuda high has pushed westward over the area bringing warm, humid maritime tropical air, the second peak occurs. Thunderstorms and rainshowers, of the air mass type, account for this peak. The driest periods occur in April and November.

Temperatures are generally mild during the spring. Temperatures average near 65 degrees F., summer temperatures average near 80 degrees F., with autumn near 67 degrees F., and winter close to 48 degrees F.

The prevailing wind direction is from the north with a mean speed of 6 knots. The maximum peak gust recorded was 70 knots from the north in September 1958 associated with a hurricane that passed to the east of New River. Numerous hurricanes pass to the east of the station but few pass over the station, most of the gustiness in excess of 50 knots at this station has been associated with thunderstorms. Thunderstorms are always a threat with a possibility of tornadoes. The station has never experienced a tornado , but waterspouts have been reported by pilots over the ocean and some tornadoes have been reported as close as 30 miles west of the station. Local thunderstorms have a tendency to follow the New River or occur over the pocosin around the station passing to the east or west of the field.

Land and sea breezes have an effect on this station, although the station is 14 miles inland, the abundant source of water in the area allows the sea breeze to remain generally unabated as it moves in from over the ocean. The effects of the sea breeze extend above 3000 feet. The land breeze at night tends to produce small pockets of shallow fog over the pocosin at low tide, at times these pockets will drift over the field.

NEW RIVER, NORTH CAROLINA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: NEW RIVER, NORTH CAROLINA
LOCATION : N34 42 W77 26

PERIOD: JAN 55-DEC 77
ELEV : 24

STN LTRS: KNCA
WBAN # : 93727
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAPR ESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99,95%	SFC PVLG DRCTN	WINDS SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDR STORMS	VSBY FOG	MAX DEG > 90	DEG > 75	MIN AND < 32	< 15
JAN	54	34	44	81	8	3.8	7.5	2.0	2.1	1	6	2	81	60	.20	35	550	N	6	53	6	12	2	1	#	1	18	0	1	15	1
FEB	57	36	47	84	13	4.0	7.0	1.7	2.2	1	16	13	79	56	.21	36	650	N	7	56	5	9	3	#	#	1	13	0	1	11	#
MAR	64	43	54	88	18	3.3	6.4	.8	1.6	#	#	#	79	53	.27	42	650	W	7	46	6	10	2	0	0	2	16	0	5	5	0
APR	73	51	62	93	26	2.9	6.2	.5	4.3	0	0	0	82	49	.36	50	550	S	7	46	5	9	2	0	0	4	16	#	14	#	0
MAY	80	60	70	98	32	4.2	8.4	1.7	3.9	0	0	0	87	56	.52	60	450	S	6	51	6	10	3	0	0	6	21	2	24	#	0
JUN	85	67	76	100	45	5.9	11.8	2.4	2.8	0	0	0	88	61	.67	67	350	S	6	53	6	10	4	0	0	7	23	6	29	0	0
JUL	88	71	80	101	54	8.1	14.3	4.6	5.4	0	0	0	89	64	.77	71	250	S	5	56	6	14	5	0	0	12	21	11	31	0	0
AUG	87	71	80	101	57	6.5	12.4	1.7	3.4	0	0	0	90	65	.77	71	250	S	5	42	6	13	4	0	0	10	23	11	31	0	0
SEP	83	66	75	95	46	4.3	9.2	1.4	4.0	0	0	0	90	63	.64	66	350	NNE	5	70	6	9	3	0	0	4	23	3	27	0	0
OCT	74	54	65	90	24	3.2	6.5	1.2	2.7	0	0	0	87	59	.44	55	450	N	5	46	5	7	2	0	0	1	21	#	16	1	0
NOV	66	44	55	89	19	2.6	5.7	.6	3.2	#	#	#	83	55	.30	45	500	N	5	50	4	7	1	0	0	1	17	0	5	5	0
DEC	58	37	48	82	10	3.9	6.1	.4	2.4	#	3	3	83	59	.24	39	550	N	5	51	5	9	3	#	#	1	17	0	2	12	#
ANN	72	53	63	101	8	57.6	14.3	.4	5.4	2	16	13	85	58	.40	53	500	N	6	70	6	119	34	1	#	50	229	33	186	49	1
EYR	23	23	23	23	23	14	14	14	14	14	14	14	19	19	19	19	19	19	19	20	19	14	14	14	14	16	16	23	23	23	23

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA %	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	31	29	23	19	21	18	16	15	19	20	15	25	21	14
LESS 5000	04	31	26	27	24	28	24	20	17	23	25	18	24	24	14
FT AND/OR	07	34	32	30	21	29	27	21	24	31	29	25	31	28	22
VISIBILITY	10	31	28	29	24	32	38	34	36	36	27	20	26	30	22
LESS 5 MI	13	31	30	32	28	38	49	52	51	49	34	23	26	37	22
	16	30	28	29	25	30	36	38	37	33	27	18	26	30	22
	19	29	27	27	17	21	22	22	18	22	20	16	24	22	21
	22	29	27	22	16	24	18	17	18	18	20	16	27	21	14
	ALL HRS	31	29	28	22	29	30	29	29	30	26	19	26	27	19
CEILING	01	12	11	10	6	7	3	2	3	5	7	4	11	7	14
LESS 1000	04	14	11	11	8	12	6	6	3	9	10	6	10	9	14
FT AND/OR	07	16	14	15	9	14	13	8	10	16	15	10	12	13	22
VISIBILITY	10	15	13	12	5	6	7	3	4	7	9	8	8	8	22
LESS 3 MI	13	12	10	8	3	3	3	2	3	4	5	5	7	5	22
	16	11	11	7	3	4	3	1	4	4	4	4	7	5	22
	19	12	11	9	4	5	3	2	3	4	5	4	8	6	21
	22	11	10	10	4	6	2	2	2	3	4	4	10	6	14
	ALL HRS	13	11	10	5	7	5	3	4	7	7	6	9	7	19
CEILING	01	3	3	4	1	1	0	0	1	1	2	2	4	2	14
LESS 400	04	4	4	5	2	4	2	1	2	4	3	3	4	3	14
FT AND/OR	07	5	4	4	3	4	3	2	3	7	5	3	5	4	22
VISIBILITY	10	3	3	2	1	0	0	0	0	1	0	1	2	1	22
LESS 1 MI	13	1	2	1	0	0	1	0	1	1	0	1	1	1	22
	16	1	3	1	0	0	1	0	0	1	0	1	1	1	22
	19	2	3	1	0	0	0	0	0	1	1	1	2	1	21
	22	3	2	2	1	0	1	0	1	1	1	2	3	1	14
	ALL HRS	3	3	2	1	1	1	0	1	2	1	2	2	2	19
CEILING	01	2	1	3	1	1	0	0	0	1	1	1	2	1	14
LESS 300	04	3	2	4	1	3	2	0	1	3	3	2	3	2	14
FT AND/OR	07	3	3	3	2	3	3	1	2	5	3	2	3	3	22
VISIBILITY	10	1	1	0	0	0	0	0	0	0	0	1	0	0	22
LESS 1 MI	13	0	1	0	0	0	0	0	0	0	0	1	0	0	22
	16	0	1	0	0	0	0	0	0	0	0	0	0	0	22
	19	1	1	1	0	0	0	0	0	0	0	1	1	0	21
	22	2	1	1	1	0	0	0	0	1	0	1	2	1	14
	ALL HRS	2	1	1	1	1	1	0	1	1	1	1	1	1	19

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1955	41.6	46.9P	57.9	64.1P	74.1P	75.3P	83.5P	81.9P	74.8P	67.5P	55.3	46.2P	M
1956	42.6P	43.2P	55.9	63.3P	71.0P	78.4P	85.0P	81.8P	75.5P	67.0P	53.2	36.9P	M
1957	44.4	43.1P	51.9P	63.9	71.2P	78.6P	79.4P	78.0	76.6	66.1	55.2	47.8P	M
1958	39.5	41.2P	48.4	62.1	69.8	75.5P	82.4	80.9	73.2P	62.1	57.9P	M	M
1959	44.9P	40.1P	53.1P	63.1P	71.8P	76.5P	79.6	80.6P	78.4P	68.2P	53.9P	48.2P	M
1960	45.9P	47.2	63.7	65.1P	70.7	78.0	80.5P	81.3	M	65.6	55.5	40.8	M
1961	41.9	40.6P	58.7	57.6	67.8	75.6	81.1P	79.9	76.9	62.3	56.1	48.2P	M
1962	44.1P	40.9	49.3	60.6	72.9	74.9	78.4	78.6P	71.2	63.4	52.2P	42.1	M
1963	41.4P	42.3	57.3	61.9P	67.2	75.3P	77.5	78.1P	69.4	63.6P	54.4	39.3	M
1964	45.8	43.6	54.0	62.5	70.5	77.2	77.9	77.7	73.8	60.5	58.2	50.2	62.7
1965	44.5	45.7	50.5	61.6P	73.6	76.5	77.9	79.3	74.2	62.9	54.7	46.3	M
1966	40.8	42.8	51.9	60.3	67.5	73.3	79.0	78.1	73.7	63.3	53.1	44.7	61.0
1967	47.7	44.2	54.9	62.9	66.4	72.7	78.3	77.2	68.9	62.3	50.3	50.0	61.3
1968	40.7	39.2	54.3	61.9	68.1	76.9	79.5P	80.5	73.4	64.7	54.8	44.0	M
1969	41.8	44.2	48.1	61.8	69.2	78.8	81.3	77.5	72.4	64.9	51.8	43.5	61.2
1970	38.2	43.2	52.1	63.3	70.4	75.8	79.3	79.0	75.5	67.2	55.6	50.5	62.7
1971	43.6	40.1	49.2	59.5	66.2	75.4	77.6	77.5	75.3	69.7	56.0	57.1	62.8
1972	52.1	43.6	48.6	58.9	67.4	72.1	79.1	78.2	73.7	62.7	54.5	52.7	62.0
1973	44.9	43.6	57.6	60.1	67.5	75.0	80.2	80.3	77.4	68.8	58.8	49.8	63.7
1974	57.5	48.8	58.3	64.3	69.9	75.4	77.1	77.6	72.6	60.0	54.2	48.7	63.7
1975	52.1	43.6	55.7	60.4	71.5	77.0	77.9	81.3	76.7	67.5	59.2	47.4	65.0
1976	43.6	43.4	58.4	63.8	69.2	75.8	79.7	78.1	73.6	60.0	48.3	44.0	62.4
1977	33.4	43.0	56.2	64.8	71.0	77.1	82.4	81.0	74.3	62.4	58.0	47.1	63.0
MEAN	44.2	43.9	53.4	61.7	69.3	75.6	79.2	79.1	74.1	63.8	54.9	47.0	62.4

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1955	M	M	M	M	M	M	M	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	14.24	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	M	M	M	M	M	M	3.87P	3.35
1964	0.94	7.01	1.73	0.15	4.09	5.21	9.81	7.53	0.21	5.27	2.16	4.01	65.09
1965	1.96	4.77	6.08	1.31	5.66	11.82	8.42	3.93	1.40	1.48	1.36	.44	49.01
1966	7.53	4.70	2.66	1.04	5.41	5.36	6.96	5.26	4.34	1.10	1.48	3.98	51.06
1967	4.37	4.43	.75	2.90	2.27	3.79	13.02	8.36	4.49	1.28	2.06	6.06	54.88
1968	4.30	7.97	1.70	3.17	2.21	2.39	11.06P	3.69	3.60	3.71	4.17	2.33	M
1969	2.55	1.91	5.44	2.03	3.79	8.89	8.04	7.90	1.70	3.83	5.73	3.99	56.56
1970	2.04	4.40	6.39	2.22	3.24	5.23	7.14	11.96	4.32	3.85	2.24	2.64	54.67
1971	3.86	2.92	3.38	2.77	2.68	6.31	7.32	5.17	4.90	5.14	1.03	1.16	46.64
1972	3.64	4.92	2.38	1.77	3.41	3.90	4.61	1.69	2.99	1.68	4.36	3.25	38.20
1973	2.49	4.02	3.01	5.27	2.69	9.19	7.37	6.51	2.10	1.21	.58	5.17	49.61
1974	2.72	2.90	2.94	4.85	8.30	5.09	6.04	12.64	3.83	1.42	2.05	4.81	57.65
1975	3.40	4.40	2.63	4.36	1.71	4.62	8.98	5.65	9.20	4.41	1.60	6.10	60.26
1976	1.96	1.72	1.83	.50	5.07	7.11	7.92	6.10	7.03	3.47	3.86	5.83	51.98
1977	2.94	2.75	5.46	1.51	7.61	4.70	4.95	5.20	4.23	6.49	3.92	4.02	52.58
MEAN	3.76	4.99	3.31	2.93	4.15	5.96	8.08	6.46	4.31	3.17	2.61	3.81	52.92

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
54-55							717		760				M
55-56	M	M	M	M	309	M	M	M	314	M	M	M	M
56-57	M	M	M	M	368	M	598	M	M	139	M	M	M
57-58	M	0	4	174	310	M	786	M	495	150	14	M	M
58-59	0	0	M	132	M	M	M	M	M	M	M	M	M
59-60	0	M	M	M	M	M	M	511	482	M	23	0	M
60-61	M	0	M	81	287	744	720	M	733	253	36	5	M
61-62	M	M	0	128	313	M	M	413	484	180	6	3	M
62-63	0	M	29	121	M	674	M	628	252	M	66	M	M
63-64	0	M	17	M	310	786	588	615	546	151	25	0	M
64-65	0	0	0	178	215	461	631	538	449	M	0	1	M
65-66	0	0	0	151	302	570	745	532	404	183	41	8	2916
66-67	0	0	6	111	360	622	529	578	532	134	41	17	3790
67-68	0	0	12	129	436	462	747	742	369	127	24	0	3028
68-69	M	0	0	111	310	645	709	577	519	122	24	0	M
69-70	0	0	1	88	399	660	827	568	384	132	22	0	3071
70-71	0	0	15	47	279	448	654	523	487	175	40	0	2668
71-72	0	0	0	9	293	272	397	616	502	222	20	5	2336
72-73	0	0	0	114	352	380	615	593	745	177	45	0	2499
73-74	0	0	0	33	213	469	255	446	238	109	31	0	1794
74-75	0	0	13	189	354	500	398	326	309	180	9	0	2278
75-76	0	0	0	52	228	538	661	343	703	121	36	3	2183
76-77	0	0	0	185	496	643	977	610	279	90	31	0	3806
77-78	0	0	0	130	258	553							
MEAN	0	0	5	113	318	555	642	558	370	156	29	2	2728

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1955	0		50								24		M
1956	M	M	19	M	M	M	M	M	M	M	20	M	M
1957	3	M	M	115	M	M	M	406	559	28	21	M	M
1958	0	M	0	89	171	M	565	502	M	49	M	M	M
1959	M	M	M	M	M	M	680	M	M	M	M	M	M
1960	M	0	6	M	208	396	M	513	M	111	10	0	M
1961	0	M	45	39	126	328	M	469	961	48	48	M	M
1962	M	24	3	46	257	305	622	M	223	138	M	0	M
1963	M	0	23	M	142	M	395	M	186	M	1	0	M
1964	0	0	12	82	203	374	408	402	269	47	16	8	1821
1965	0	4	3	M	272	292	407	452	283	71	0	0	M
1966	1	0	3	30	126	261	439	411	271	87	11	0	1640
1967	0	0	25	77	104	253	421	387	132	53	0	4	1458
1968	0	0	23	42	128	366	M	489	356	110	13	0	M
1969	0	0	0	34	161	401	513	392	231	93	9	0	1836
1970	1	0	0	88	196	328	430	442	938	122	4	8	1974
1971	0	0	0	17	85	318	399	396	317	162	28	92	1794
1972	5	0	0	49	98	225	443	418	269	48	24	4	1502
1973	0	0	23	36	126	305	475	481	379	138	36	4	2023
1974	28	0	37	93	192	316	383	398	252	42	34	0	1775
1975	6	13	26	48	218	368	407	512	936	133	57	0	2146
1976	4	12	43	92	172	335	462	412	266	34	0	0	1832
1977	0	0	12	88	240	369	558	505	406	36	55	9	2295
MEAN	3	3	17	63	170	326	446	444	385	83	21	4	1865

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

NEW RIVER, NORTH CAROLINA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93727	New River, North Carolina	34°42'N	77°26'W	24	KNCA	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	MCAF	1953	1956	34°42'N	77°26'W	24	Mercurial	
2.	" " "	"	1956	1969	"	"	27	"	24
3.	South wall of lab.	MCAS	1969	1970	"	"	18	"	24
4.	North wall of lab.	"	1970				18		24
1a.	Weather service office	MCAF	1954	1969	"	"	19	Aneroid	24
2a.	GMQ-14 console	MCAS	1969	1977	"	"	19	"	24
3a.	Weather service office	"	1977		"	"	19		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1956	Installed roof of ops bldg	UMQ-5A	ID-300/A	Unk	1. Barograph (ML-3)
2.	Unk	Modified " " " "	UMQ-5C	ID-300	45'	2. Cloud height set (AN/GMQ-13)
3.	1966	Post 2 feet E of ops bldg	AN/UMQ-5C	"	50'	3. Theodolite (ML-247)
4.	1967	15' mast 1600' WNW of ops bldg	"	"	39'	4. Transmissometer (AN/GMQ-10C)
5.	1967	" " " " " "	"	RD-108B	39'	5. Auto met sta (GMQ-29A)
6.	1968	15' mast 1450' from bldg 848	"	RD-108B	39'	6. Radar recorder FAX (GMH-6(V))

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Fleet Weather Central Norfolk, situated on the Naval Air Station, is located adjacent to the northwest side of the city of Norfolk, Virginia. The Naval Air Station is on a promontory extending into the lower Chesapeake Bay.

Hampton Roads, one of the best natural harbors in the world, is immediately adjacent to the naval complex containing the Naval Air Station. The topography of the region is low and flat; the mean elevation is near 15 feet. Southwest of Hampton Roads lies the Dismal Swamp which extends into North Carolina. To the west of Hampton Roads, the terrain slopes upward slightly for 150 miles. The Chesapeake Bay stretches northward some 160 miles from the Norfolk area through eastern Virginia and Maryland. The nearest predominant orographic barrier is the Appalachian Mountains stretching northeast-southwest in West Central Virginia.

The proximity to the water tends to moderate the climate. To some extent neither the heat of the summer nor the cold of winter are as intense as inland areas of the same latitude.

During the summer season the prominence of the Bermuda high makes the predominate wind in the area, southerly, bringing into the area warm moist air. The average summer temperatures vary from highs in the mid 80's and lows in the low 70's with humidities averaging 75%. Temperatures of 100 degrees F. or higher are very infrequent in the area. A record maximum temperature of 101 degrees F. was recorded in June of 1952. The maximum precipitation occurs in the months of July, August, and September primarily from thunderstorms.

Norfolk's geographic position with respect to the principal storm tracks is especially favorable, being south of the average path of storms originating in the higher latitudes and north of the usual track of hurricane and tropical storms. Over the years from 1900 to 1977 tropical storms have been most prevalent in the month of September. During the 77 year span only 16 hurricanes have passed within 60 miles of Norfolk.

NORFOLK, VIRGINIA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: NORFOLK, VIRGINIA
LOCATION : N36 57 W76 17

PERIOD: JAN 46-DEC 77
ELEV : 15

STN LTRS: KNGU
WBAN # : 13750
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER STORMS	VISIBILITY BY FOG < 7MI	MAX DEG F > 90	< 75	MIN AND < 32	< 15
JAN	49	34	42	78	7	2.8	4.6	1.4	2.6	2	12	7	71	61	.17	31	700	SW	9	55	6	10	2	1	#	#	12	0	#	13	#
FEB	51	35	43	82	12	3.1	5.4	1.4	2.1	2	8	8	70	58	.17	31	700	NE	10	58	6	9	2	1	#	#	11	0	1	11	#
MAR	57	41	50	87	22	3.1	5.5	1.3	1.9	1	10	6	71	56	.22	37	750	SW	10	60	6	10	2	#	#	2	12	0	3	4	0
APR	68	50	59	92	29	2.5	4.5	.5	2.2	#	#	#	71	53	.30	45	850	SW	9	61	5	9	2	#	0	3	10	#	9	#	0
MAY	76	59	68	97	37	3.2	7.4	.7	2.8	0	0	0	77	57	.44	55	450	SW	8	51	6	10	2	0	0	5	13	2	17	0	0
JUN	83	68	76	101	47	3.2	9.6	.4	5.2	0	0	0	80	59	.60	64	550	SW	8	61	6	8	2	0	0	5	11	7	25	0	0
JUL	87	72	80	100	58	4.7	12.2	1.0	6.5	0	0	0	82	60	.71	69	350	SW	7	65	6	10	3	0	0	8	11	11	31	0	0
AUG	85	72	79	100	53	4.4	10.9	.9	6.4	0	0	0	82	62	.69	68	300	SW	7	70	6	10	3	0	0	7	13	8	30	0	0
SEP	80	67	74	100	50	3.7	10.3	.5	5.5	0	0	0	79	61	.58	63	300	NE	8	66	5	7	2	0	0	2	12	3	23	0	0
OCT	70	57	63	93	33	2.7	9.5	.2	3.3	#	#	#	77	60	.40	53	500	NE	8	85	5	7	2	0	0	1	14	#	8	#	0
NOV	60	46	53	84	21	2.6	6.3	.4	2.5	#	2	1	72	57	.26	41	600	SW	9	63	5	8	2	#	0	1	12	0	3	2	0
DEC	52	37	45	78	14	2.9	6.6	.8	2.2	1	16	9	71	60	.19	33	600	SW	9	61	6	8	2	#	#	#	12	0	#	10	#
ANN	68	53	61	101	7	38.9	12.2	.2	6.5	6	16	9	75	59	.35	49	600	SW	9	85	6	106	26	2	1	34	43	31	150	40	#
EYR	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	30	32	32	31	32	32	32	32	29	29	32	32	32	32

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE
COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA %	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	28	27	25	21	24	18	13	14	19	24	20	21	21	32
LESS 5000	04	29	27	26	22	26	21	16	18	23	27	23	23	23	32
FT AND/OR	07	31	29	27	24	27	23	21	23	27	29	25	27	26	32
VISIBILITY	10	31	27	27	25	26	22	21	23	27	27	23	25	25	32
LESS 5 MI	13	27	26	30	25	28	25	21	24	27	29	23	25	26	32
	16	26	28	29	25	25	23	21	22	25	26	22	25	25	32
	19	27	25	25	21	21	19	15	16	20	26	20	23	22	32
	22	27	25	23	18	21	18	14	15	17	25	21	22	21	32
	ALL HRS	28	27	27	23	25	21	18	20	23	27	22	24	24	32
CEILING	01	17	15	14	10	14	9	6	6	9	13	10	13	11	32
LESS 1500	04	17	15	16	12	16	11	8	9	12	16	12	14	13	32
FT AND/OR	07	19	18	18	14	18	14	11	13	14	17	13	16	15	32
VISIBILITY	10	18	17	17	12	14	10	8	10	12	14	12	14	13	32
LESS 3 MI	13	16	14	13	8	10	7	4	5	9	12	10	12	10	32
	16	13	14	12	8	10	7	5	5	9	12	9	12	10	32
	19	14	15	12	9	10	8	6	5	9	12	8	11	10	32
	22	15	15	12	10	11	8	6	5	9	12	9	12	10	32
	ALL HRS	16	15	14	10	13	9	7	7	10	14	10	13	12	32
CEILING	01	7	8	5	5	5	2	0	0	1	4	4	6	4	32
LESS 500	04	8	7	7	5	6	2	2	2	3	5	4	7	5	32
FT AND/OR	07	7	9	7	5	5	2	1	2	3	6	5	8	5	32
VISIBILITY	10	7	7	6	3	3	1	0	1	1	3	2	6	3	32
LESS 1 MI	13	5	5	4	1	1	1	0	0	1	2	2	4	2	32
	16	4	6	4	2	2	1	0	0	1	3	2	4	2	32
	19	5	6	6	3	3	1	0	0	2	2	2	5	3	32
	22	6	6	6	3	4	1	0	1	1	3	3	6	3	32
	ALL HRS	6	7	6	3	4	1	1	1	1	3	3	6	3	32
CEILING	01	2	1	2	1	1	0	0	0	0	1	1	1	1	32
LESS 100	04	2	2	2	1	1	0	0	0	1	1	1	2	1	32
FT AND/OR	07	2	3	2	1	1	0	0	0	1	1	1	2	1	32
VISIBILITY	10	1	1	0	0	0	0	0	0	0	0	0	1	0	32
LESS 1/2 MI	13	0	0	1	0	0	0	0	0	0	0	0	0	0	32
	16	1	0	0	0	0	0	0	0	0	0	0	0	0	32
	19	1	1	1	0	0	0	0	0	0	1	0	1	0	32
	22	1	1	1	1	1	0	0	0	0	1	1	1	1	32
	ALL HRS	1	1	1	0	1	0	0	0	0	1	1	1	1	32

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1946	42.6	44.6	38.6P	58.3	69.0	76.3	77.3P	75.9	73.0	63.2P	57.0	47.0	M
1947	48.0	48.6	48.6	58.9	68.3	73.8	77.6	79.2	74.7	67.2	51.5	43.2	60.0
1948	35.5	42.1	52.3	58.6	68.1	75.8	79.9P	78.1	72.8	60.2	58.2	46.8	M
1949	48.8	49.4	50.4	58.9	67.3	76.4	82.4	79.5	72.0	64.6	51.9	46.5	62.5
1950	35.2	44.7	46.7P	59.6	69.0	75.1	78.3	76.5	71.9	64.8	51.2	39.9	M
1951	44.7	43.7	48.4	58.5	68.8	75.1	79.6	78.7	73.3	64.3	49.3	47.6	60.9
1952	48.4	44.7	48.8	60.3	68.3	78.6	82.2	79.2	73.6	60.0	58.0	44.4	61.7
1953	47.2	47.5P	51.7P	60.0	72.6	79.3	81.4	79.1	73.3	64.6	58.2	47.8	M
1954	42.6	48.2	49.9	62.2	68.4	76.7	79.4	79.0	73.7	65.7	51.0	42.9	61.6
1955	39.6	42.4	55.0	61.3	69.1	75.1	82.1	81.0	73.3	64.2	51.9	39.2	60.9
1956	38.8	46.6	49.1	57.7	68.5	76.2	79.7	78.8	71.9	64.5	52.5	53.2	61.3
1957	40.2	48.7	49.5	63.1	68.7	78.6	80.0	78.8	73.4	59.4	53.1	47.4	61.7
1958	38.4	37.1	46.7	58.7	67.1	72.5	81.9	79.4	71.3	63.1	56.7	39.1	58.2
1959	41.5	44.6	49.7	60.3	72.3	79.7	82.0	83.2	77.1	67.2	54.6	44.6	62.1
1960	40.5	40.4	37.9	60.2	77.3	76.8	81.4	79.6	74.1	59.0P	59.8	39.8	M
1961	39.9	42.9	55.2	56.9	68.4	75.9	80.4	78.2	75.3	62.8	58.0	42.3	60.7
1962	40.3	41.7	49.8	59.1	69.8	76.0	79.9	77.8	71.5	62.6	48.8	37.3	58.7
1963	36.2	44.8	53.1	58.2	62.3	73.6	78.5	78.5	69.1	63.4	51.8	36.3	57.9
1964	42.6	41.5	50.1	55.8	66.8	74.6	76.9	75.3	72.9	59.9	56.8	48.0	60.1
1965	41.9	43.9	48.0	57.2	72.0	73.2	77.5	77.0	74.9	60.3	53.8	45.4	60.5
1966	36.8	40.4	49.2	55.8	68.1	72.6	79.6	76.7	72.5	61.6	52.2	42.6	58.6
1967	44.9	41.0	49.4	60.6	62.6	71.4	76.9	75.9	68.0	60.2	48.0	46.2	58.7
1968	37.8	37.7P	52.1	57.0	65.8	75.7	78.9	81.5	73.1	65.0	54.0	41.7	M
1969	38.8	40.2	46.2	59.7	69.2	77.9	78.7	78.6	71.1	62.8	50.5	43.0	59.4
1970	39.9	40.6	49.0	56.4	68.6	75.2	78.4	80.9	74.5	64.9	53.0	46.6	60.1
1971	38.2	44.7	46.2	56.0	64.6	76.1	79.7	78.2	74.9	68.5	54.0	53.0	61.2
1972	46.8	42.5	50.8	58.8	66.2	72.3	79.8	77.6	73.4	61.0	52.1	49.3	61.0
1973	42.4	40.7	52.9	57.8	66.8	78.0	79.3	80.1	75.5	65.0	56.1	45.1	61.3
1974	48.4	44.0	52.3	59.1	66.0	72.4	78.7	75.7	69.7	57.0	50.0	46.2	60.0
1975	47.1	46.5	48.9	54.9	68.9	77.7	79.7	82.2	73.9	64.9	57.2	44.9	62.2
1976	39.7	50.8	59.0	61.3	66.1	76.1	78.5	76.3	72.0	59.3	46.6	38.8	59.9
1977	28.8	41.7	56.5	62.3	68.5	74.5	80.5	80.3	76.8	60.1	53.2	42.9	60.5
MEAN	41.7	43.0	49.1	58.7	67.2	75.3	79.4	78.6	73.3	63.0	52.9	44.3	60.5

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1946	1.96	2.64	.41P	2.40	5.08	3.16	4.65P	2.94P	4.09	1.06P	2.22	.77	M
1947	4.69P	.98P	2.64	4.16	2.54	4.52P	7.32	4.34	3.21	2.08	2.72	2.58	M
1948	4.12	1.98	2.52	3.23	7.43	4.89	3.80P	4.78	2.56	1.63	6.22	4.04	M
1949	2.00	1.43	2.64	1.75	6.09	2.40	4.14	7.80	3.59	2.07	2.27	3.12	49.60
1950	2.19	1.98	2.76P	2.49	3.50	2.55	6.89	5.64	4.66	1.75	1.08	2.92	M
1951	1.38	1.26P	2.18	1.81	2.60	6.12	.98	9.29	2.74	1.55	3.18	1.93	M
1952	4.09	1.68	4.55	1.30	2.86	.76	4.63	4.88	2.62	1.48	4.79	2.32	37.70
1953	1.30	1.47	2.67	4.16	1.80	1.50	3.14	10.86	4.22	.90	1.18	2.98	38.00
1954	4.23	2.46	4.48	3.79	4.04	.39	4.08	2.37	1.39	1.47	2.08	2.11	33.00
1955	1.39	9.16	3.59	2.06	.91	2.52	8.83	4.77	4.04	1.44	2.92	.95	34.94
1956	1.76	4.77	2.72	3.10	2.35	2.07	9.28	4.14	2.63	4.06	1.16	2.06	45.00
1957	3.68	4.98	3.27	2.79	1.82	2.91	1.19	2.72	4.86	2.40	4.98	4.82	39.07
1958	2.94	9.03	4.23	3.02	7.28	4.83	3.83	6.67	.53	5.04	3.65	3.77	67.82
1959	1.44	2.23	2.20	4.09	1.27	1.93	5.30	.93	3.11	7.36	2.15	2.43	36.38
1960	3.59	7.86	2.10	1.28	4.66	2.53	6.24	6.14	6.12	3.10	1.29P	2.11	M
1961	2.82	4.27	3.28	1.92	7.18	6.03	1.93	6.38	1.22	3.20	1.30	3.82	45.88
1962	4.65	7.61	3.10	2.86	2.33	3.96	7.32	4.03	2.79	3.29	3.89	2.64	42.07
1963	2.96	9.83	2.50	1.03	1.64	9.61	3.71	1.37	6.84	.53	4.20	2.48	40.55
1964	3.45	9.85	2.11	2.33	.97	1.96	2.03	10.42	7.76	4.42	1.17	3.00	44.88
1965	1.81	7.08	2.60	1.89	1.17	3.98	1.97	3.30	.88	.93	.39	.70	21.79
1966	3.24	9.32	1.51	.87	4.22	1.77	3.06	3.93	2.53	.68	.90	2.82	28.19
1967	4.04	2.84	1.31	1.21	2.35	1.80	5.98	4.47	2.81	.71	1.23	3.96	36.42
1968	2.92	1.42	3.28	3.85	2.25	2.20	2.49	1.09	1.36	2.70	2.99	2.23	28.78
1969	1.91	1.97	4.19	1.46	2.64	3.16	12.17	3.83	3.00	1.72	.80P	2.92	M
1970	1.80	7.92	2.27	2.02	1.60	2.63	3.47	1.07	.75	.21	1.13	2.89	22.91
1971	2.96	7.82	2.61	2.40	3.41	.84	2.73	2.06	7.70	9.54	1.34	1.10	39.69
1972	3.68	4.98	3.39	2.98	4.75	6.64	4.05	1.78	10.36	4.63	6.30	4.12	58.03
1973	3.16	9.06	4.90	2.86	2.89	4.98	7.07	7.11	.97	1.68	1.82	4.89	49.05
1974	3.77	9.56	4.40	1.93	1.89	4.41	2.58	6.42	6.32	1.23	.63	3.42	41.98
1975	3.79	9.90	3.48	3.34	1.98	2.39	10.86	.94	3.05	2.81	2.04	3.90	46.17
1976	2.36	1.96	2.45	.48	3.28	2.22	3.27	2.88	3.07	3.66	1.77	2.67	29.28
1977	2.97	1.96	3.76	1.96	3.28	3.14	2.65	2.92	1.97	4.97	3.82	3.18	39.02
MEAN	2.82	4.10	3.09	2.90	3.22	3.23	4.71	4.44	3.68	2.72	2.64	2.83	39.00

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
45-46							691	567		220	38	2	M
46-47	M	0	0	M	247	526	921	793	497	213	92	3	M
47-48	0	0	22	39	399	701	948	658	420	214	21	3	3385
48-49	M	0	0	107	227	559	697	432	468	200	46	0	M
49-50	0	0	10	44	384	563	372	562	M	296	73	0	M
50-51	0	0	24	49	437	776	821	589	506	219	43	4	3266
51-52	0	0	9	70	470	596	570	582	513	179	23	0	2982
52-53	0	0	0	181	349	651	544	M	M	178	4	0	M
53-54	0	0	0	93	368	535	685	462	464	143	87	0	2787
54-55	0	0	0	118	415	679	781	628	572	145	40	9	3183
55-56	0	0	0	89	389	797	807	521	493	253	96	1	3456
56-57	0	0	13	50	383	861	763	534	479	149	46	1	2779
57-58	0	0	7	181	296	541	817	774	526	223	44	1	3310
58-59	0	0	3	96	254	797	720	571	670	180	11	0	3102
59-60	0	0	0	82	331	627	752	706	532	218	97	0	3847
60-61	0	0	0	107	M	776	771	584	580	278	68	1	M
61-62	0	0	5	99	295	697	760	644	408	233	39	0	3380
62-63	1	0	23	130	479	893	887	838	586	248	151	5	5981
63-64	0	0	21	100	389	882	687	676	460	284	93	8	3600
64-65	0	0	0	175	249	527	712	584	921	250	12	16	5042
65-66	0	2	0	156	328	600	869	684	490	292	124	18	3563
66-67	0	0	6	135	386	690	616	666	481	186	122	20	3306
67-68	0	0	16	179	502	578	838	M	612	240	63	0	M
68-69	0	0	0	94	328	716	804	690	440	189	24	0	3487
69-70	0	0	5	123	427	672	896	678	614	272	38	0	3725
70-71	0	0	10	61	353	564	825	562	576	269	70	0	3290
71-72	0	0	0	10	348	371	557	617	442	215	39	8	2607
72-73	0	0	9	156	387	478	694	673	502	232	86	0	3101
73-74	0	0	0	66	330	611	911	581	986	212	75	0	3788
74-75	0	0	31	280	466	573	548	516	494	323	43	0	3298
75-76	0	0	3	74	257	618	783	619	578	198	63	8	2801
76-77	0	0	0	199	543	803	1116	650	557	138	31	0	3817
77-78	0	0	0	171	360	678							
MEAN	0	0	7	114	367	635	716	615	494	222	58	3	3251

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1946	2	0		23	168	289		347	249		13	0	M
1947	2	0	P	34	178	276	397	445	321	112	0	0	1763
1948	0	0	39	28	125	331	M	410	241	24	26	0	M
1949	0	4	20	23	126	348	546	457	226	93	0	0	1843
1950	12	0	M	19	78	314	420	365	238	48	30	0	M
1951	0	0	1	27	108	310	460	434	286	64	3	3	1678
1952	0	0	13	43	132	445	540	448	269	33	0	0	1921
1953	0	P	M	36	266	320	515	444	257	61	2	0	M
1954	0	1	4	86	108	359	454	442	330	147	0	0	1911
1955	0	0	6	41	179	253	527	501	259	70	11	0	1853
1956	0	0	9	39	115	343	464	435	327	43	15	3	1892
1957	0	0	0	98	167	415	471	371	326	18	4	0	1868
1958	0	0	0	41	115	235	521	455	205	42	12	0	1636
1959	0	0	1	43	244	446	532	569	370	159	21	0	2385
1960	0	0	0	72	140	378	372	515	326	87	M	0	M
1961	0	0	20	39	85	275	483	413	324	37	82	0	1708
1962	0	0	4	92	195	277	343	404	225	64	0	0	1574
1963	0	0	2	56	72	275	419	427	190	28	0	0	1470
1964	0	0	5	14	157	303	376	325	244	26	8	0	1467
1965	0	0	0	22	269	267	394	381	300	22	0	0	1651
1966	0	0	6	23	72	255	462	369	230	36	8	3	1464
1967	0	0	3	61	59	217	375	346	115	37	0	0	1209
1968	0	M	18	6	99	328	439	516	247	99	5	0	M
1969	0	0	0	39	160	393	432	367	198	58	0	0	1647
1970	1	0	0	23	159	313	425	499	333	68	0	0	1816
1971	0	1	0	3	66	337	460	417	302	124	24	4	1738
1972	0	2	10	35	83	253	465	397	262	36	10	0	1331
1973	0	0	22	24	85	397	446	474	321	76	14	0	1859
1974	4	0	16	40	119	257	431	339	176	19	24	0	1421
1975	3	3	1	29	174	387	462	539	275	79	28	0	1982
1976	3	15	13	96	105	350	424	358	215	29	0	0	1608
1977	0	2	14	66	145	292	467	490	359	28	13	0	1886
MEAN	1	1	9	40	135	319	452	428	262	60	10	1	1717

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

NORFOLK, VIRGINIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
13750	Norfolk, Virginia	36°57'N	76°17'W	15	KNGU	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office (ops bldg)	NAS	1949	1960	36°57'N	76°17'W	21	Mercurial	24
2.	" " " " "	"	1960	1962			34	"	24
3.	" " " " "	"	1962	1966	"	"	32	"	24
4.	" " " " "	FWC	1966	1976	"	"	32	"	24
1a.	" " " (Bldg LP-1)	"	1966		"	"	36	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Atop control tower	*Selsyn	Double register	80'	1. Barometer, aneroid 2. Barograph 3. Semi-auto met sta (AN/GMQ-14B) 4. Ceiling light (ML-121) 5. Cloud height set (AN/GMQ-13) 6. Transmissometer (AN/GMQ-10) 7. Weather radar (FPS-81) 8. RVR indicator (Model CJ002)
1a.	Installed 1955	Three eights mile due east of the operations building	UMQ-5	RD-108	6'	
		* Date disassembled unknown				

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Oceana is located within the resort and agricultural city of Virginia Beach, Virginia. The airfield is surrounded by wooded areas, farmland, and swamps. The Atlantic Ocean lies 3 miles to the east. Chesapeake Bay entrance lies 7 miles to the north. Oceana's weather is markedly influenced by the maritime regime. A coastal plain extends about 150 miles to the west where the Appalachian Mountains rise to extreme heights of over 5,000 feet. Weather systems traversing the Appalachians are sometimes markedly modified in movement and character of weather by blocking action and lifting over the mountains. Oceana enjoys a favorable location in respect to severe storm tracks. Most extratropical storms tend to pass to the north while tropical storms track mainly to the south. The moderating effect of a predominantly maritime regime and a favorable storm track position results in a favorable climate with brief departures from climate means.

Winters are mild, temperature departures associated with polar outbreaks last about two days. Coastal storms account for most of the rainfall and high winds during the winter months. Snowfalls of any magnitude are rare. Winds during this period prevail from the northeast with a secondary flow from the southwest, high winds are often associated with sharp cold frontal passages.

Summer months are especially pleasant in the near-coastal areas; surface winds prevail from the southwest during this season. The seabreeze will occasionally commence as early as ten in the morning. Advection-radiation fog has its highest incidence during August. An overriding cloud cover will sometimes delay fog dissipation to early afternoon hours, usually however, the fog lifts between 0800 and 0930. Thunderstorm activity reaches its maximum of 9 days per month in July. Flight operations are seldom affected by severe thunderstorm activity which usually extends from North Carolina southward. September-October are high tropical storm incidence months. Storms originating in the Gulf of Mexico or the Western Atlantic are most likely to pass close to Oceana during this period.

The fall season is very pleasant, mean temperatures gradually fall from low 70's to low 50's by November. Polar frontal intrusions become more numerous as the Bermuda high extension weakens. By November the polar front is established well to the south of Oceana; waves moving along this front account for much of the precipitation received.

Annual flying conditions at NAS Oceana are generally good with the field at or above Visual Flight Rule (VFR) minimums 87% of the year. Ceilings and visibility fall below 400 feet and 1 mile visibility less than 4% of the year.

OCEANA, VIRGINIA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: OCEANA, VIRGINIA
LOCATION : N36 48 W76 01

PERIOD: MAR 45-DEC 77
ELEV : 22

STN LTRS: KNTU
WBAN # : 13769
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES M O N T H MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL INCHES MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER DAYS R	VISBY FOG 7MI	MAX DEG > 90	MAX DEG > 75	F = AND MIN < 32	MIN < 15
JAN	49	33	41	76	2	3.5	7.4	1.7	3.3	3	18	10	74	61	.17	31	650	N	8	62	6	10	2	1	1	#	14	0	#	16	1
FEB	51	34	43	81	7	3.6	6.0	1.1	2.2	2	8	5	73	58	.17	31	750	N	8	59	6	10	3	1	#	#	12	0	1	13	#
MAR	57	40	49	90	17	3.4	6.2	1.6	4.1	1	7	7	74	56	.22	37	700	N	9	63	6	11	2	1	#	2	13	#	3	6	0
APR	67	48	58	95	28	2.5	6.9	1.0	3.3	#	#	#	74	54	.30	45	750	SW	8	58	6	9	1	0	0	3	14	#	8	#	0
MAY	74	57	66	95	35	3.6	6.6	1.1	3.2	0	0	0	81	58	.44	55	450	SW	7	56	6	10	2	0	0	5	18	1	15	0	0
JUN	82	65	74	104	45	3.2	6.8	#	4.8	0	0	0	84	59	.58	63	400	SW	7	71	6	9	2	0	0	5	18	5	25	0	0
JUL	85	70	78	103	55	5.2	10.7	.9	3.9	0	0	0	85	62	.69	68	350	SW	6	58	6	11	4	0	0	9	18	8	30	0	0
AUG	84	69	77	101	51	5.6	17.8	1.6	9.8	0	0	0	86	63	.69	68	300	SW	6	74	6	10	3	0	0	7	21	7	30	0	0
SEP	79	65	72	95	47	4.1	11.5	.6	5.0	0	0	0	84	63	.58	63	400	NE	6	78	5	8	2	0	0	3	19	2	22	0	0
OCT	70	54	62	95	29	3.7	10.0	.8	6.0	0	0	0	81	60	.39	52	500	N	7	55	5	7	2	0	0	1	18	#	9	#	0
NOV	61	44	53	83	22	2.7	7.5	.5	4.2	#	#	#	76	56	.27	42	600	N	7	56	5	8	2	0	0	1	15	0	3	3	0
DEC	52	36	44	78	10	3.2	5.8	.6	2.1	1	12	8	74	60	.20	34	650	N	8	60	6	9	2	#	#	#	13	0	#	13	#
ANN	68	51	60	104	2	44.5	17.8	#	9.8	7	18	10	79	59	.35	49	550	SW	7	78	6	112	27	3	1	36	193	23	146	51	1
EYR	30	30	30	30	30	28	28	28	28	29	29	29	28	28	28	28	28		28	28	27	28	28	29	29	28	28	30	30	30	30

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER *PRESS ALT FEET 99.95%* INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	29	27	24	22	23	18	13	15	21	25	23	24	22	27
LESS 5000	04	30	29	26	22	24	21	17	22	26	27	24	25	24	27
FT AND/OR	07	35	31	28	26	26	24	20	22	29	32	29	30	28	30
VISIBILITY	10	31	28	29	28	27	26	28	28	31	28	25	26	28	30
LESS 5 MI	13	29	28	30	29	31	30	31	31	35	30	26	28	30	30
	16	28	28	32	26	27	23	25	25	25	27	24	26	26	29
	19	26	27	27	22	21	19	16	17	21	27	22	26	22	27
	22	27	27	23	20	21	18	16	15	18	24	23	25	21	27
	ALL HRS	29	28	27	24	25	22	21	22	26	28	24	26	25	28
CEILING	01	12	13	11	10	11	6	3	4	6	10	8	11	9	27
LESS 1000	04	14	14	12	10	12	9	4	8	9	12	9	11	11	27
FT AND/OR	07	17	15	14	11	13	11	8	8	12	13	10	14	12	30
VISIBILITY	10	14	13	12	9	9	7	4	4	7	10	9	12	9	30
LESS 3 MI	13	12	12	10	7	7	4	3	3	6	8	8	10	7	30
	16	12	13	9	7	8	5	3	3	6	8	7	10	8	29
	19	10	13	10	8	8	6	2	4	6	9	8	10	8	27
	22	11	14	10	8	9	6	2	3	4	9	8	10	8	27
	ALL HRS	13	13	11	9	10	7	4	5	7	10	8	11	9	28
CEILING	01	7	7	5	4	5	2	1	1	2	4	4	6	4	27
LESS 400	04	7	7	6	7	7	3	2	3	3	5	5	6	5	27
FT AND/OR	07	7	7	6	5	5	2	1	1	3	4	3	6	4	30
VISIBILITY	10	4	5	5	2	1	0	0	0	1	1	1	3	2	30
LESS 1 MI	13	4	4	3	1	0	0	0	0	0	1	1	4	2	30
	16	3	4	3	1	1	0	0	0	1	1	1	3	2	29
	19	4	5	5	3	3	1	0	1	1	2	2	4	3	27
	22	6	5	4	3	4	2	0	0	1	3	3	4	3	27
	ALL HRS	5	5	5	3	3	1	1	1	1	3	3	4	3	28
CEILING	01	2	2	2	1	1	0	0	0	0	1	1	2	1	27
LESS 100	04	2	3	2	3	3	1	1	1	2	2	2	2	2	27
FT AND/OR	07	2	3	1	1	1	0	1	0	1	2	1	2	1	30
VISIBILITY	10	1	1	1	0	0	0	0	0	0	0	0	0	0	30
LESS 1/4 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	30
	16	0	0	0	0	0	0	0	0	0	0	0	1	0	29
	19	1	1	1	1	1	0	0	0	0	0	1	1	0	27
	22	2	2	1	1	1	1	0	0	0	1	1	1	1	27
	ALL HRS	1	1	1	1	1	0	0	0	0	1	1	1	1	28

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	59.0	61.2P	66.0	76.4	79.0	77.0	74.5	62.0	56.6	M	M
1966	M	M	M	M	M	M	M	M	M	64.6P	M	M	M
1967	48.1P	36.7P	M	57.1P	M	74.3P	78.2P	M	M	66.3P	M	M	M
1968	36.4P	42.3P	58.9P	61.3P	M	74.5P	M	M	72.0P	M	M	49.7P	M
1969	M	M	M	M	M	76.7P	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	M	M	M	M	M	M	M
1971	M	M	M	M	M	M	M	M	M	M	M	47.2P	M
1972	45.5	44.0	47.6	59.0	66.0	78.0	80.3	78.3	71.9	58.6	51.8	43.7	60.4
1973	47.1	46.4	51.1	58.3	70.9	73.2	79.4	77.2	72.3	63.4	52.2	46.2	61.5
1974	42.9	47.1	49.2	60.9	64.1	74.6	78.9	77.1	73.0	63.7	49.6	41.4	60.0
1975	38.0	41.1	52.0	60.0	66.9	73.1	80.3	79.2	72.1	62.1	50.6	38.0	59.3
1976	37.5	40.5	48.1	55.9	63.7	76.4	77.8	76.7	70.6	63.3	51.3	52.8	59.9
1977	40.1	44.8	48.5	62.2	67.4	76.8	77.5	75.1	74.2	58.1	53.7	46.5	60.4
1978	37.4	38.1	43.1	56.9	65.7	70.6	80.6	78.1	70.6	61.2	54.9	36.1	57.7
1979	39.5	42.2	48.3	59.2	68.0	75.3	77.7	78.4	72.4	64.4	52.0	45.6	60.3
1980	42.4	42.0	39.0	62.0	69.9	74.2	75.8	78.5	72.3	61.2	52.8	37.2	58.6
1981	36.4	44.4	52.4	59.1	68.7	71.7	78.8	76.9	74.5	60.8	52.9	42.3	59.1
1982	40.3	43.1	49.2	56.9	67.5	71.3	76.9	76.9	68.3	61.5	49.3	38.7	57.7
1983	38.1	38.5	53.2	57.8	62.9	71.2	75.5	74.8	67.5	60.4	52.1	36.2	57.2
1984	43.2	41.2	49.3	54.8	65.8	73.9	77.0	74.1	71.4	58.1	55.2	47.0P	M
1985	40.0	41.8	46.4	58.3	66.9	70.3	74.8	75.6	72.4	60.0	51.5	44.0	57.9
1986	38.5	39.3	47.8	56.3	64.7	73.1	79.6	77.4	72.1	61.2	52.8P	42.9	M
1987	44.6	40.2	47.0	58.2	67.7	70.7	76.3	75.3	66.8	61.0	48.2	42.9	57.9
1988	36.9	38.0	50.3	54.3	66.9	74.7	77.4	79.0	70.5	63.4	55.1	42.5	58.7
1989	38.5	39.6	44.0	59.0	65.1	74.9	78.5	76.3	71.1P	63.2	50.0	41.2	M
1990	36.1	40.0	46.4	55.0	66.7	72.9	75.9	77.1	74.3	64.7	53.7	47.2	58.7
1991	37.1	44.2	48.6	59.3	61.3	74.1	77.2	76.5	73.4	67.8	52.4	50.8	59.6
1992	45.2	41.2	47.8	56.4	66.0	70.8	78.2	76.4	73.4	63.3	55.2	49.3	60.1
1993	41.4	39.3	52.6	58.3	65.6	76.2	77.0	77.3	73.7	64.4	53.6	44.6	60.3
1994	44.0	43.2	52.9	60.3	66.0	70.6	76.5	76.3	74.2	57.4	50.5	44.6	59.8
1995	45.3	45.0	47.5	53.1	65.4	73.8	76.2	78.9	72.7	64.5	56.5	46.5	60.2
1996	38.5	49.2	55.2	60.2	64.1	73.4	75.3	73.1	69.7	56.9	44.7	38.2	58.1
1997	28.6	42.3	53.4	59.2	67.8	73.5	79.2	78.9	74.6	59.2	54.2	42.9	59.6
MEAN	40.2	42.3	48.4	57.5	65.4	73.4	77.5	76.8	72.0	61.7	52.2	43.4	59.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	M	M	M	M	M	M	M	M	M	M	M
1968	M	M	M	M	M	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	M	M	M	M	M	M	M
1971	M	M	M	M	M	M	M	M	M	M	M	2.88	M
1972	4.50	4.95	4.83	1.49	4.77	1.80	3.18	5.30	1.20	3.36	7.21	3.08	48.87
1973	2.23	4.42	2.66	6.87	3.73	2.93	4.88	17.80	6.21	1.00	6.29	3.24	62.26
1974	7.35	1.05	4.01	1.82	5.89	.03	4.41P	6.03	2.86	.32P	.80	2.93	M
1975	1.82	4.17	5.61	1.16	1.08	2.59	4.88	6.06	5.06	2.67	1.52	1.31	37.93
1976	2.02	4.54	2.93	3.86	2.43	1.32	5.99	4.09	2.60	7.38	.95	3.32	42.26
1977	3.70	4.36	4.12	1.37	2.15	3.26	3.00	8.10	11.49	4.58	7.48	4.80	59.21
1978	3.23	4.21	5.74	3.48	5.69	4.44	4.97	9.30	.38	7.43	2.34	3.09	59.32
1979	1.85	7.44	4.34	5.99	1.98	5.25	10.67	5.01	4.28	0.15	2.43	1.96	52.15
1980	3.71	3.50	2.41	1.12	4.01	4.50	5.83	7.73	0.17	3.14	.98	1.94	45.06
1981	3.44	4.84	3.06	2.59	4.78	3.76	3.18	2.71	1.87	5.38	1.73	3.99	41.33
1982	7.20	7.96	3.07	3.45	4.02	3.54	7.11	3.60	4.56	7.44	3.77	3.32	51.64
1983	3.01	4.17	1.05	3.99	0.79	.94	1.66	4.85	.92	4.28	2.33	3.41	36.41
1984	3.79	3.98	2.51	2.76	1.84	1.45	3.81	13.61	9.96	4.02	1.06	3.48P	M
1985	2.41	7.55	2.31	1.91	2.51	4.99	5.65	1.84	1.09	1.73	.47	.92	28.08
1986	4.09	4.42	1.69	1.35	6.83	2.33	3.81	0.74	2.73	.82	.74	3.99	40.15
1987	2.98	7.83	1.58	.99	2.23	2.66	4.92	9.71	4.99	.82	2.19	4.30	39.92
1988	3.97	1.79	6.15	2.57	1.98	3.97	5.06	1.58	2.20	3.91	3.27	2.01	39.24
1989	2.74	7.22	4.49	2.27	1.09	4.33	9.76	4.05	4.17	4.23	2.21	4.24	45.80
1990	2.18	4.22	2.61	2.80P	3.36	3.27	6.40	1.93	1.68	2.05	2.57	3.08	M
1991	6.34	3.99	3.95	2.25	4.06	1.76	3.63	4.63	6.14	9.99	.90	1.08	48.62
1992	2.73	3.17	2.65	1.85	5.50	3.05	4.30	3.60	9.64	4.11	4.62	3.90	48.82
1993	2.46	4.46	4.90	2.10	4.16	5.09	3.57	4.87	1.74	1.61	1.45	4.37	39.78
1994	2.72	4.35	4.45	2.58	3.65	4.50	5.45	4.65	3.04	1.00	1.14	3.13	40.66
1995	4.47	3.18	5.61	4.81	3.42	1.31	8.58	2.03	4.67	2.18	2.01	3.82	45.89
1976	2.56	7.07	2.52	1.26	3.63	2.26	7.18	4.60P	.49P	2.24	1.75	2.98	M
1977	3.03	1.73	3.86	1.27	4.76	2.62	2.45	2.83	1.48	5.29	5.60	5.01	40.73
MEAN	3.49	4.55	3.61	2.50	3.58	3.22	5.17	5.59	4.12	3.74	2.68	3.24	44.49

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									255		72	15	M
45-46	0	0	0	123	331	M	M	M	M	M	M	M	M
46-47	M	M	M	M	M	M	M	M	M	M	M	M	M
47-48	M	M	M	M	M	M	M	M	M	M	M	M	M
48-49	M	M	M	M	M	M	M	M	M	M	M	M	M
49-50	M	M	M	M	M	M	M	M	M	M	M	M	M
50-51	M	M	M	M	M	M	M	M	M	M	M	M	M
51-52	M	M	M	M	M	509	602	547	310	56	9	M	M
52-53	0	0	9	213	386	654	547	516	424	226	10	3	2984
53-54	0	0	1	95	376	574	679	497	488	169	109	0	2988
54-55	0	0	7	180	457	724	830	665	400	181	69	9	3502
55-56	0	0	0	135	436	851	846	526	525	299	134	2	3754
56-57	0	0	26	70	414	377	764	560	900	177	65	1	2954
57-58	0	0	11	213	339	366	820	804	466	260	90	15	3774
58-59	0	0	7	138	303	890	786	605	413	210	58	5	3515
59-60	0	0	15	134	396	595	695	662	803	183	62	2	3547
60-61	0	0	0	146	361	855	881	570	404	327	123	15	3682
61-62	0	0	7	155	371	697	759	608	608	270	57	3	3535
62-63	0	0	49	150	466	777	839	793	366	291	135	8	3815
63-64	0	0	35	147	382	881	671	684	486	311	114	5	3716
64-65	0	0	4	226	296	M	770	644	630	258	57	34	M
65-66	1	9	9	178	399	648	815	715	533	286	111	15	3714
66-67	0	0	13	150	M	644	625	688	557	259	170	25	M
67-68	0	0	29	156	500	589	864	834	459	312	84	0	3827
68-69	0	0	0	117	298	693	814	706	444	206	76	0	3356
69-70	0	0	M	104	445	730	951	693	430	303	88	0	M
70-71	0	0	14	99	333	566	857	578	564	244	134	4	3443
71-72	0	0	0	14	395	436	809	684	530	266	67	7	3002
72-73	0	0	0	101	306	479	724	713	398	221	70	0	3012
73-74	0	0	0	81	348	625	496	604	388	191	68	7	2806
74-75	0	0	24	246	483	625	603	557	561	373	78	0	3500
75-76	0	0	4	82	274	627	819	464	372	212	93	16	2963
76-77	0	0	8	295	605	827	1119	808	366	215	46	3	4061
77-78	0	0	1	191	329	683							
MEAN	0	0	10	143	385	665	761	638	504	254	84	7	3451

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1965			74		108	363	440	378	352	39	21		M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	M	M	M	M	M	M	M	M	M	M	M
1968	M	M	M	M	M	M	M	M	M	M	M	M	M
1969	M	M	M	M	M	M	M	M	M	M	M	M	M
1970	M	M	M	M	M	M	M	M	M	M	M	M	M
1971	M	M	M	M	M	M	M	M	M	M	M	M	M
1972	2	0	16	38	94	393	481	418	221	20	0	0	1685
1973	0	2	0	29	200	294	492	385	227	52	0	0	1901
1974	0	0	9	52	91	300	377	384	351	128	0	0	1588
1975	0	0	1	39	134	199	482	448	221	53	9	0	1586
1976	0	0	11	35	100	293	407	368	199	24	11	4	1452
1977	0	0	0	97	145	361	393	318	291	7	4	0	1616
1978	0	0	0	22	78	189	492	414	179	26	9	0	1409
1979	0	0	2	42	158	318	401	419	244	122	13	0	1719
1980	0	0	9	101	97	286	342	426	227	36	3	0	1521
1981	0	1	22	38	58	222	435	373	300	26	14	0	1489
1982	0	0	9	32	140	198	312	312	146	49	0	0	1192
1983	0	0	4	42	78	201	332	308	100	11	0	0	1076
1984	0	0	7	10	145	280	378	291	203	19	6	M	M
1985	0	0	0	12	127	199	312	342	236	23	0	0	1253
1986	0	0	6	28	105	266	459	392	233	38	M	4	M
1987	0	0	5	41	42	203	360	329	89	37	2	0	1108
1988	0	0	10	1	85	297	391	442	169	73	8	0	1478
1989	0	0	0	34	84	301	426	380	M	55	0	0	M
1990	0	0	0	11	89	246	347	382	299	63	1	0	1440
1991	0	0	0	0	25	284	387	381	761	106	26	1	1451
1992	0	0	1	14	43	189	418	382	256	53	20	0	1396
1993	0	0	29	27	99	345	379	389	268	70	12	0	1612
1994	3	0	20	65	105	178	362	358	188	18	29	0	1922
1995	0	2	0	21	95	273	336	437	249	72	24	0	1523
1976	0	14	12	71	77	273	327	261	157	21	0	0	1213
1977	0	8	23	46	139	265	449	436	296	18	18	4	1700
MEAN	0	1	9	36	102	266	396	374	225	47	9	1	1466

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

OCEANA, VIRGINIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WBAN NUMBER
13769	Oceana, Virginia	36°48'N	76°01'W	22	KNTU	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF SUCCESSIVE LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1945	1954	36°50'N	76°02'W	24	Mercurial	24
2.	" " " (ops bldg)	"	1954	1968	"	"	27	"	24
3.	" " " " "	"	1968		36°49'N	"	27	"	24
1a.	" " "	"	1967		36°48'N	76°01'W	29	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1945	Atop control tower	Selsyn	Triple	95'	1. Barograph 2. Psychrometer 3. Semi-auto met station 4. Ceiling light 5. Cloud height set 6. Transmissometer 7. Weather vision 8. RVR indicator
2.	Installed 1954	Roof of operations building	UMQ-5	RD-108	42'	
3.	1960	1100' N of operations building	"	"	13'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Weather Service Environmental Detachment Patuxent River is part of the Naval Air Test Center, which occupies a broad headland jutting into the Chesapeake Bay just south of the effluence of the Patuxent River. The Potomac River empties into the Chesapeake Bay 15 miles south of the Test Center. The Atlantic Ocean is 60 miles to the east. Predictably, these water bodies produce a moderating effect on temperatures and a definite sea breeze. The several peninsulas which make up the land mass surrounding the complex are characterized by undulating land generally less than 200 feet in height. To the northwest about 85 miles distant the Appalachian Mountain Range provides an important obstruction to advancing fronts. An important topographical influence 15 miles to the west is the Potomac River; air mass thunderstorms have a tendency to follow the course of the river and skirt the complex.

The Chesapeake area has an extremely variable weather pattern during the fall through spring seasons. Summers are very warm and humid, winters are generally mild. However, winter weather has proven to be freakish as several heavy snowstorms attest. Fall and spring seasons are typically transitional.

Flying conditions, although variable, are generally good. Instrument flight rule conditions exist 11.6% of the time annually.

Fog is the principal hazard to aviation during the winter months and is prevalent throughout the year. Prefrontal and advection fog is most prevalent in winter, while radiation fog is a lesser factor in fall and summer. Haze is prevalent in the Patuxent area during the entire year but it is a major hazard to aviation only during the summer.

The prevailing wind direction for Patuxent River is northwesterly from October through April as the flow pattern is dominated by the continental high pressure systems. The May through September flow is influenced by the Bermuda high pressure system which brings a south to southwest flow pattern over the area. Nighttime winds during this period are light south to southwest. The sea breeze asserts a strong influence during the daytime.

Patuxent seemingly is threatened by most tropical systems as they make their recurving trek up the east coast of the United States, but only about one storm every 5 years will come close enough to effect the area seriously.

Snowfall in the area is quite variable. Periods of 3 or 4 years with measurable snowfall of less than 2 inches are common. Precipitation amounts are spread fairly evenly throughout the year with no real pronounced wet or dry seasons.

PATUXENT RIVER, MARYLAND

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: PATUXENT RIVER, MARYLAND
LOCATION : N38 18 W76 25

PERIOD: MAR 45-DEC 77
ELEV : 38

STN LTRS: KNHK
WBAN # : 13721
WMO # : 72404

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES M O N T H MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX	MAX 24 HR	RELATIVE HUM 04 LST	RELATIVE HUM 13 LST	VAPR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS MAX	MEAN AMT CLD TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER DAYS R	VSBY FOG 7MI <	MAX DEG > 90	F = 32 > 75	MIN AND < 32	MIN AND < 15
JAN	44	29	37	78	-3	2.9	5.2	1.3	2.1	6	29	11	74	62	.15	27	700	NW	9	62	6	11	2	2	1	#	13	0	#	19	2
FEB	46	30	39	80	7	2.8	5.9	.8	2.1	4	19	8	73	59	.15	27	850	NW	9	61	6	9	2	2	1	1	11	0	#	17	1
MAR	54	37	46	85	15	3.4	6.4	.6	2.0	3	22	9	73	57	.20	34	750	NW	9	62	6	11	2	1	1	1	13	0	1	9	#
APR	64	47	56	91	26	2.8	4.7	.9	1.9	#	#	#	73	56	.28	43	750	NW	9	63	6	10	2	#	0	3	11	#	5	1	0
MAY	73	57	65	97	36	3.7	9.8	.5	2.7	#	#	#	79	59	.42	54	550	SE	8	77	6	11	2	0	0	4	12	1	13	0	0
JUN	81	65	73	101	45	3.5	7.3	.2	3.1	0	0	0	81	60	.58	63	450	S	7	70	6	9	2	0	0	6	11	4	25	0	0
JUL	85	70	78	100	55	4.2	15.5	1.1	4.6	0	0	0	82	60	.67	67	400	SW	6	71	6	10	3	0	0	8	11	7	30	0	0
AUG	84	70	77	98	54	4.4	11.1	.6	5.9	0	0	0	83	61	.67	67	350	S	6	69	6	9	2	0	0	6	12	5	30	0	0
SEP	78	64	71	95	46	3.2	8.0	.3	3.9	0	0	0	82	61	.54	61	450	S	7	58	5	8	2	0	0	3	11	1	21	0	0
OCT	68	53	61	93	30	2.9	6.0	#	3.6	#	#	#	79	60	.36	50	550	NW	7	110	5	7	2	0	0	1	14	#	6	#	0
NOV	57	42	50	85	16	3.1	8.0	.3	4.2	#	7	7	75	59	.24	39	650	NW	8	55	5	8	2	#	#	#	11	0	1	4	0
DEC	47	33	40	75	10	3.3	6.5	.5	1.9	2	13	8	74	62	.17	30	700	NW	8	58	6	9	3	1	1	#	12	0	#	15	1
ANN	65	50	58	101	-3	40.2	15.5	#	5.9	15	29	11	77	60	.32	47	600	NW	8	110	6	112	26	6	4	33	142	18	132	65	4
EYR	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	29	33	33	33	33	29	29	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	29	29	24	21	24	19	14	15	21	23	22	24	22	33
LESS 5000	04	29	28	26	23	25	20	16	18	21	27	24	25	23	33
FT AND/OR	07	32	28	29	24	27	21	19	19	24	30	27	27	26	33
VISIBILITY	10	29	26	28	26	28	24	21	24	26	28	25	26	26	33
LESS 6 MI	13	28	25	32	27	29	24	23	23	26	28	26	28	27	33
	16	27	26	28	26	22	20	18	19	21	23	24	27	23	33
	19	28	25	25	20	22	18	15	17	20	21	21	26	21	33
	22	27	25	23	20	20	17	14	14	20	21	22	25	21	33
	ALL HRS	29	27	27	23	25	20	17	18	22	25	24	26	24	33
CEILING	01	15	13	11	9	10	6	4	4	8	9	8	10	9	33
LESS 1000	04	15	14	14	12	13	7	5	5	8	12	10	12	11	33
FT AND/OR	07	16	14	14	13	15	10	7	7	11	14	11	12	12	33
VISIBILITY	10	13	13	13	10	10	7	4	5	8	10	11	12	10	33
LESS 3 MI	13	11	11	11	6	6	4	2	2	5	7	7	12	7	33
	16	11	11	10	6	6	3	2	2	4	6	7	11	7	33
	19	11	12	11	7	7	4	2	3	4	5	7	11	7	33
	22	13	12	11	8	8	4	3	2	6	7	7	11	8	33
	ALL HRS	13	13	12	9	9	6	4	4	7	9	8	12	9	33
CEILING	01	8	7	6	4	3	1	0	0	1	3	4	5	4	33
LESS 400	04	8	8	7	5	4	1	0	1	1	5	4	6	4	33
FT AND/OR	07	8	8	7	4	3	1	1	0	2	6	4	6	4	33
VISIBILITY	10	5	5	5	2	1	0	0	0	1	3	3	5	3	33
LESS 1 MI	13	4	4	4	1	0	0	0	0	0	1	1	4	2	33
	16	4	5	4	1	1	0	0	0	0	1	2	5	2	33
	19	5	6	4	2	1	0	0	0	1	1	3	6	2	33
	22	7	7	5	3	2	0	0	0	1	2	3	6	3	33
	ALL HRS	6	6	5	3	2	1	0	0	1	3	3	5	3	33
CEILING	01	2	2	2	1	1	0	0	0	0	1	1	1	1	33
LESS 100	04	2	3	3	1	1	0	0	0	0	2	2	2	1	33
FT AND/OR	07	2	3	2	0	0	0	0	0	0	2	1	1	1	33
VISIBILITY	10	0	1	0	0	0	0	0	0	0	0	0	0	0	33
LESS 1/4 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	33
	16	1	1	0	0	0	0	0	0	0	0	0	1	0	33
	19	1	1	1	0	0	0	0	0	0	0	1	1	0	33
	22	2	2	1	1	0	0	0	0	0	1	1	1	1	33
	ALL HRS	1	1	1	0	0	0	0	0	0	1	1	1	1	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	55.0	58.6	66.6	73.7	78.9	75.3	71.7	59.1	51.1P	33.9	M
1966	37.9	40.2	51.9	56.9	64.4	72.0	76.1	73.4	71.1	62.2	53.6	43.7	58.5
1967	43.5	42.4	39.9	53.1	63.0	71.4	76.3	78.2	72.0	64.6	46.9	37.7	58.9
1968	29.8	37.6	47.2	54.6	64.6	72.7	77.9	75.6	70.3	58.7	53.5	42.2	58.9
1969	43.6	44.5	46.7	54.7	64.9	74.0	80.2	77.9	68.9	63.0	49.8	42.8	59.4
1970	40.9	39.8P	41.6	51.7	62.8	73.3	76.7	75.5	69.6	62.3	49.0	36.5	M
1971	40.2	42.0	49.0	54.6	63.5	72.8	77.9	76.0	70.5	62.5	49.5	42.1P	M
1972	41.3P	40.9	44.0	56.5	63.7	76.2	80.5	77.3	72.4	58.6	48.8P	40.0	M
1973	41.1	41.7	46.5	55.1	66.9	74.0	80.2	76.5	70.4	61.3	49.4	42.8P	M
1974	39.1	42.4	49.1	58.6	62.7	74.3	78.6	78.5	73.6	63.7	47.1	38.5	58.3
1975	35.6	46.0	47.9	58.2	66.5	70.4	81.7	79.6	71.6	61.2	47.4	35.1	57.8
1976	34.8	41.8	44.4	52.6	65.0	73.8	77.2	76.5	69.0	61.8	48.8	47.5	57.6
1977	33.9	44.1	44.9	57.7	66.6	75.4	78.6	76.6	71.9	58.1	50.6	42.6	57.8
1978	34.0	41.3	43.1	58.2	64.1	70.3	78.0	75.9	69.3	59.4	50.9	33.0	55.3
1979	35.4	42.5	49.3	57.1	68.2	73.3	78.0	80.0	73.1	63.3	48.0	42.3	58.8
1980	39.0	46.7	34.8	59.5	66.9	73.1	76.9	77.4	70.7	59.3	48.8	33.7	56.1
1981	31.9	48.3	46.9	51.5	62.2	72.1	77.0	76.9	74.1	61.6	49.0	37.8	56.4
1982	35.6	45.3	44.0	55.0	67.2	72.9	76.5	75.0	69.6	61.0	47.7	34.9	55.9
1983	33.3	42.0	48.3	57.5	67.2	71.0	76.3	75.8	69.3	62.1	52.0	34.0	56.3
1984	38.4	47.0	49.2	52.9	66.9	74.0	77.1	74.8	70.0	55.5	52.1	40.9	57.3
1985	35.0	48.6	48.9	52.1	67.5	71.5	75.8	75.4	70.8	56.2	48.9	43.9	56.6
1986	39.3	47.7	46.2	51.5	62.4	74.1	80.3	77.9	70.1	58.3	50.1	38.1	56.9
1987	41.3	45.1	49.1	56.5	58.2	71.4	77.1	76.7	69.7	57.7	44.2	39.2	55.4
1988	35.8	36.8	46.7	54.6	62.3	73.6	79.4	75.9	70.3P	61.7P	50.9	37.6	M
1989	33.5	45.8	41.9	57.8	65.2	75.7	77.7	77.4	71.9	57.7	45.7	35.9	56.3
1970	39.2	46.7	48.0	56.2	65.7	74.2	M	80.1	73.9	62.7	49.6	39.7	M
1971	33.6	46.3	41.4	52.7	64.3	75.2	78.7	77.4	73.7	60.9	51.7	46.9	58.4
1972	41.9	48.7	49.0	54.2	64.8	70.7	78.5	76.1	72.0	57.8	48.3	44.6	57.6
1973	37.3	46.4	51.0	59.4	64.3	74.7	77.5	78.2	72.7	63.1	52.7	43.1	59.2
1974	42.1	48.9	48.4	58.0	64.9	70.9	77.7	76.0	69.4	58.6	48.6	42.4	57.6
1975	40.5	41.2	43.8	50.0	66.9	74.5	77.1	78.9	70.7	64.5	56.3	43.3	58.8
1976	37.3	46.3	51.2	57.8	61.5	72.0	76.2	75.2	70.1	58.3	42.9	38.2	57.1
1977	24.1	46.1	51.9	57.8	65.7	71.6	78.6	77.5	71.9	58.3	51.0	38.3	56.8
MEAN	36.7	43.3	45.9	55.4	64.9	73.2	77.7	76.7	70.8	60.3	49.4	39.6	57.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1965	M	M	.63	3.36	4.78	5.96	15.51	1.09	4.25	3.26	4.86P	6.50	M
1966	1.31	1.61	3.05	3.10	6.25	4.78	2.32	3.93	5.27	2.21	2.80	2.89	39.52
1967	4.09	.97	2.02	4.13	3.40	4.25	2.24	4.65	2.76	1.88	7.01	1.96	39.35
1968	5.13	1.61	4.00	2.28	9.21	1.69	4.51	7.48	2.01	3.26	6.80P	5.23	M
1969	4.31	9.78	3.12	1.93	4.78	5.28	7.16	6.98	1.49P	4.19	3.15	1.44	M
1970	2.61	1.98P	4.76	1.86	5.32	2.10	5.07	3.64	4.29	1.69	1.80	2.43	M
1971	1.47	3.26	1.68P	3.89	3.09	6.26	4.25	5.83	3.09	2.02	4.41	3.61P	M
1972	5.79P	3.13	5.02	6.74	3.31	1.67	2.87	4.08	3.74	1.86	5.23P	3.50	M
1973	3.71	9.05	5.12	3.01	4.19	1.61	1.47	8.45	2.04	2.87	2.93	2.78P	M
1974	3.02	2.39	2.40	3.12	3.00	.22	2.59	3.72	1.30	2.05	2.88	2.73	29.42
1975	1.28	9.66P	4.49	3.16	2.07	3.64	2.84	9.94	1.69	1.91	2.12	.86	M
1976	2.11	3.66	3.30	2.81	3.25	3.05	7.24	1.70	3.63	5.98	7.95	3.12	47.80
1977	3.27	3.95	2.98	2.97	2.13	3.32	1.41	6.17	3.35	3.84	4.32	5.05	43.06
1978	3.80	4.09	6.43	6.58	5.75	4.44	7.16	11.10	2.36	2.38	2.32	2.39	58.80
1979	1.49	1.99	2.70	2.80	1.16	1.84	8.01	2.02	.25	4.00	5.80	4.38	35.76
1980	2.49	3.92	2.88	3.12	5.49	3.69	10.47	1.89	6.43	2.24	1.72	2.87	47.21
1981	3.93	4.72	4.63	2.12	5.08	6.08	2.37	2.78	1.10	9.58	1.81	3.38	43.58
1982	4.16	4.00	3.51	2.92	1.16	1.40P	2.17	1.56	2.92	2.05	5.97	3.09	M
1983	1.75	1.44	9.37	1.28	1.98	5.77	1.27	.66	2.14	.7	4.86	1.73	28.25
1984	4.00	4.40	2.19	3.37	.53	5.30	2.99	1.67	3.45	3.79	2.27	2.64	36.76
1985	3.02	7.51	3.90	2.33	.49	3.38	3.42	4.97	2.80	.92	.31	.47	29.52
1986	4.32	3.19	.79	3.27	3.28	2.86	1.98	.61	7.29	3.02	1.17	3.18	36.96
1987	1.49	3.98	2.01	1.17	4.56	1.39	3.89	5.91	1.23	1.86	1.68	4.39	31.61
1988	2.92	.98	4.69	1.05	3.33	3.04	1.27	3.14	3.58	1.70	3.84	2.29	31.35
1989	2.09	7.33	2.68	3.25	1.97	1.88	9.52	9.42	2.52	1.04	1.25	6.39	44.34
1970	1.64	2.17	3.73	3.30	1.30	2.72	M	1.57	2.17	1.37	3.17	3.08	M
1971	2.13	4.42	2.26	1.84	9.80	1.83	3.28	6.10	1.01	5.18	3.61	.99	42.26
1972	2.38P	6.93	2.38	3.24	6.26	7.34	2.59	4.07	2.79	3.56	4.93	3.65	M
1973	2.86	7.97	2.69	3.12	2.28	1.74	1.61	4.12	1.78	2.74	1.09	4.73	31.73
1974	2.71	1.40	5.25	1.34	3.39	3.86	6.84	4.56	.71	.71	4.48	36.07
1975	4.63	7.79	6.03	2.14	3.33	4.19	4.87	3.53	7.99	4.56	2.31	3.97	50.34
1976	4.03	1.31	1.96	.94	3.76	.92	2.69	.95	7.47	4.92	1.27	2.24	32.46
1977	2.09	.81	1.90	1.32	1.99	5.28	2.02	3.13	2.59	4.16	3.88	3.91	34.63
MEAN	2.92	3.77	3.40	2.80	3.69	3.48	4.15	4.35	3.21	2.83	3.07	3.29	39.98

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									349	204	130	25	M
45-46	0	0	6	192	M	956	834	691	401	303	90	10	M
46-47	0	0	5	119	335	653	659	905	774	311	115	4	3882
47-48	0	0	58	84	537	838	1083	786	961	310	80	7	4824
48-49	0	0	13	298	369	701	656	569	469	112	60	1	3508
49-50	0	0	31	77	452	681	698	M	717	404	104	0	M
50-51	0	0	44	107	489	874	781	749	413	318	89	9	4093
51-52	0	0	19	130	379	M	M	693	460	268	96	0	M
52-53	0	0	0	275	M	766	781	945	784	309	25	13	M
53-54	0	0	16	127	482	M	880	599	411	206	131	0	M
54-55	0	0	5	170	534	815	965	750	623	208	66	13	3987
55-56	0	0	9	143	524	918	930	870	639	387	155	9	4849
56-57	0	0	4	112	481	537	958	844	413	254	97	6	3763
57-58	0	0	34	287	427	883	954	929	734	295	70	9	4626
58-59	0	0	19	191	415	983	906	735	402	256	90	6	4139
59-60	0	0	19	198	511	696	799	757	930	228	93	0	4201
60-61	0	0	6	171	478	966	1016	745	965	411	114	0	4486
61-62	0	0	8	130	492	852	897	827	444	310	50	0	4190
62-63	0	0	61	137	513	926	972	920	911	237	66	7	4250
63-64	0	0	77	114	383	955	819	806	944	372	79	10	4187
64-65	0	0	11	293	380	739	924	733	478	384	37	27	4206
65-66	0	5	19	271	476	649	913	759	577	402	132	12	4218
66-67	0	0	19	204	468	829	728	853	675	270	226	15	4245
67-68	0	0	44	237	617	793	1053	929	986	300	123	0	4886
68-69	0	0	M	M	621	852	988	810	721	259	76	0	M
69-70	0	0	12	248	573	895	1073	786	706	325	77	0	4695
70-71	M	0	14	120	485	778	964	742	727	260	86	0	M
71-72	0	0	4	22	415	553	727	757	612	231	63	13	3400
72-73	0	0	1	234	467	825	850	892	681	204	86	0	3809
73-74	0	0	7	115	390	672	902	727	511	292	89	5	3650
74-75	0	0	32	290	490	695	734	662	451	448	108	0	4131
75-76	0	0	6	73	379	869	833	678	622	263	130	15	3108
76-77	0	0	4	277	458	822	1262	746	627	237	79	4	4814
77-78	0	0	2	275	419	820							
MEAN	0	0	20	176	465	781	871	748	601	299	92	7	4060

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1965			43	19	64	294	344	325	274	13		0	M
1966	0	0	0	9	81	226	351	269	190	37	6	0	1169
1967	0	0	0	20	121	202	348	436	278	60	0	0	1465
1968	0	0	16	11	74	243	407	337	176	7	10	0	1281
1969	0	1	9	7	74	296	480	406	143	81	0	0	1497
1970	7	M	1	8	42	253	372	332	159	31	16	0	M
1971	0	0	0	13	49	245	407	346	192	60	1	M	M
1972	M	0	0	19	61	341	487	387	179	13	M	0	M
1973	0	0	0	12	159	292	481	360	186	21	0	M	M
1974	0	0	0	28	69	288	428	362	273	134	0	0	1387
1975	0	0	0	12	118	181	527	459	206	37	4	0	1544
1976	0	0	0	22	80	280	382	386	174	21	4	0	1329
1977	0	0	0	41	124	324	428	301	249	2	0	0	1469
1978	0	0	0	8	51	175	441	344	150	24	0	0	1193
1979	0	0	0	25	156	323	410	470	269	124	4	0	1783
1980	0	0	0	72	66	251	314	391	184	21	0	0	1299
1981	0	0	0	13	34	218	378	312	185	33	0	0	1278
1982	0	0	0	16	127	241	298	321	123	21	0	0	1169
1983	0	0	0	20	141	197	357	342	93	30	0	0	1192
1984	0	0	0	16	142	303	380	312	168	3	1	0	1325
1985	0	0	0	5	125	228	341	335	202	5	0	0	1241
1986	0	0	0	3	61	292	480	406	179	11	10	0	1442
1987	0	0	0	27	24	214	382	305	72	16	0	0	1060
1988	0	0	0	0	43	268	433	470	M	M	6	0	M
1989	0	0	0	31	89	326	398	395	127	30	0	0	1496
1970	0	0	0	6	106	283	M	474	348	93	0	0	M
1971	0	0	0	0	69	332	429	391	271	87	23	0	1602
1972	0	0	0	11	65	190	365	350	217	18	4	0	1220
1973	0	0	0	5	92	72	298	394	216	46	9	0	1562
1974	0	0	0	3	28	82	174	402	350	139	7	6	1191
1975	0	0	0	0	5	110	291	380	437	182	66	23	0	1494
1976	0	0	2	0	33	29	234	291	327	165	13	0	0	1094
1977	0	0	0	9	30	109	209	430	391	216	11	9	0	1404
MEAN	0	0	3	19	89	258	399	370	201	86	6	4	0	1878

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

PATUXENT RIVER, MARYLAND

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
13721	Patuxent River, Maryland	38°18'N	76°25'W	38	KNHK	72404

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office (ops bldg)	Navy	1949	1957	38°18'N	76°25'W	45	Mercurial	24
2.	" " " " "	"	1957		"	"	45	"	24
1a.	" " "	"	1960		"	"	46	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop operations tower	3 cup		95'	1. Auto met sta (AN/GMQ-29) 2. Ceiling light (ML 121H) 3. Cloud height set (GMQ-13B/C) 4. Transmissometer (GMQ-10) 5. Runway visual range 6. Seawater-air temp (honeywell) 7. Weather vision (AN/GMQ-27) 8. WSR 57 radar operated by National Weather Service
2.	1957	Atop radar tower (bldg 147A)	AN/UMQ-5	RD-108	65'	
3.	1960	1000' NW of intersection of runways 31 and 24	"	"	13'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Sherman Field, Naval Air Station Pensacola is situated 1 mile due north of the entrance to Pensacola Bay. An off-shore island extending westward and Santa Rosa Island extending eastward separates the Gulf of Mexico from Pensacola Bay and forms a natural breakwater for the harbor.

The terrain surrounding the air station is flat and does little to impede the passage of storms from the west and southwest. To the south Pensacola Bay opens into the Gulf of Mexico. To the west, north and east (with the exception of the city of Pensacola directly northeast of the station) are expanses of scrub pine forests. Because of the regularity of terrain elevation, topographical effects are minor.

There is considerable industry in the Pensacola metropolitan area located mainly northeast of the station. This is a source of smoke pollution. During periods of drought, mostly in the fall, brush fires inland are also a source of large amounts of smoke.

The Gulf of Mexico presents a moderating effect on the local area, resulting in a definite sea breeze during the daytime in the summer and tempering the effects of polar outbreaks in the winter.

Tropical cyclone disturbances pose a threat to the Pensacola complex during the hurricane season (1 June through 30 November). Several destructive hurricanes have been experienced in this area; two of the more extreme occurred in September 1906 and in September 1926. Hurricanes which form in the Atlantic often recurve to the north and northeast and do not enter the Gulf of Mexico. However, once such storms have reached the Gulf of Mexico from the Western Caribbean or have crossed the Florida Peninsula from the east into the Gulf, there is no land mass to hinder their movement north to the Central Gulf Coast. In general, the major weather problems that affect flying safety are tropical storms, severe thunderstorms, and seasonal fog.

Rainfall occurs on an average of 9 days per month; ranging from 6 days in April and October to 13 days in July. On the average, measurable amounts occur 109 days a year. The average annual precipitation is 54 inches. A considerable part of the rainfall in the summer occurs during daylight hours from thunderstorms. Rainfall during the winter months extends over longer periods but as a rule, it is not as heavy. Solid precipitation in the form of snow, snow pellets, and ice pellets are rarities and occur on the average of once a year. Approximately 2½ inches of the average rainfall during the month of September can be attributed to tropical disturbances.

PENSACOLA, FLORDIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: PENSACOLA, FLORIDA
LOCATION : N30 21 W87 19

PERIOD: MAY 55-DEC 77
ELEV : 30

STN LTRS: KNPA
WBAN # : 03855
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	24 HRS MAX	SNOWFALL MN	SNOWFALL MAX 24 HR	SNOWFALL MAX MO	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR SS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER STORMS R	VISBY FOG 7MI	MAX DEG < 90	MAX DEG > 75	MIN AND < 32	MIN AND < 20
JAN	60	43	52	78	9	5.8	10.0	.6	3.9	#	#	#	80	66	.28	43	400	N	9	60	6	10	2	#	0	2	17	0	1	7	1
FEB	63	45	54	80	19	4.3	10.5	1.4	6.2	#	1	1	81	69	.30	45	450	N	9	60	6	9	3	#	0	3	15	0	1	4	#
MAR	68	52	60	82	25	4.3	9.2	.3	3.4	#	#	#	83	63	.37	51	450	S	9	53	6	10	3	0	0	4	18	0	5	1	0
APR	75	60	68	87	37	3.6	10.5	.4	4.1	0	0	0	83	63	.50	59	400	S	9	58	5	6	2	0	0	3	17	0	17	0	0
MAY	82	67	75	94	44	3.3	9.2	#	4.5	0	0	0	83	62	.62	65	300	S	8	72	5	7	2	0	0	6	15	1	29	0	0
JUN	87	72	80	98	54	4.6	9.4	.9	5.1	0	0	0	82	63	.74	70	250	S	8	69	5	9	2	0	0	9	11	7	30	0	0
JUL	89	75	82	99	61	6.0	12.5	2.6	4.8	0	0	0	84	66	.82	73	200	SW	7	59	6	13	4	0	0	14	11	13	31	0	0
AUG	89	74	82	100	59	5.9	10.3	2.0	4.5	0	0	0	84	66	.82	73	200	S	6	62	6	12	4	0	0	12	13	13	31	0	0
SEP	86	71	79	98	46	7.2	16.1	1.7	13.5	0	0	0	84	66	.74	70	300	E	7	74	5	10	4	0	0	7	13	6	29	0	0
OCT	79	60	70	91	36	4.3	13.9	#	7.9	0	0	0	81	58	.50	59	300	N	8	51	4	6	3	0	0	2	14	#	29	0	0
NOV	69	50	60	86	24	3.2	8.9	.7	2.7	0	0	0	81	60	.37	51	350	N	8	46	5	7	2	0	0	2	15	0	8	2	0
DEC	63	45	54	80	7	4.0	8.5	1.4	3.2	#	#	#	81	64	.31	46	350	N	9	49	6	9	3	0	0	2	16	0	2	5	#
ANN	76	60	68	100	7	54.5	16.1	#	13.5	#	1	1	82	63	.50	59	400	N	8	74	5	108	34	#	0	66	175	40	207	19	1
EYR	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	38	32	34	25	18	11	8	8	13	12	23	31	21	23
LESS 5000	03	40	38	40	31	19	12	10	11	16	17	26	35	24	23
FT AND/OR	06	42	40	42	38	28	18	16	16	23	25	34	40	30	23
VISIBILITY	09	41	36	36	34	29	28	26	25	27	22	28	35	30	23
LESS 5 MI	12	37	34	32	27	25	23	28	28	27	22	26	33	29	23
	15	34	30	31	24	20	16	17	17	20	18	21	31	23	23
	18	38	30	30	23	18	14	13	13	15	13	20	31	21	23
	21	35	28	32	20	13	10	8	8	10	11	19	32	19	23
	ALL HRS	38	33	35	28	21	17	16	16	19	18	25	33	25	23
CEILING	00	20	15	20	13	6	1	0	0	2	4	9	12	9	23
LESS 1000	03	23	18	24	18	7	2	1	1	3	5	10	15	10	23
FT AND/OR	06	22	19	25	20	11	5	3	2	7	9	11	18	13	23
VISIBILITY	09	20	18	19	11	7	3	2	3	7	7	9	16	10	23
LESS 3 MI	12	16	13	12	8	4	2	1	2	2	3	5	12	7	23
	15	12	11	12	8	4	1	1	1	3	2	5	9	6	23
	18	12	13	13	10	5	1	1	1	3	2	6	11	6	23
	21	15	13	17	9	3	1	1	0	2	2	6	12	7	23
	ALL HRS	18	15	18	12	6	2	1	1	4	4	8	13	8	23
CEILING	00	9	6	13	7	0	0	0	0	0	1	4	5	4	23
LESS 400	03	12	9	15	8	1	1	0	0	0	2	5	8	5	23
FT AND/OR	06	13	10	14	8	2	1	0	0	1	2	5	8	5	23
VISIBILITY	09	9	8	8	4	0	0	0	0	0	1	3	5	3	23
LESS 1 MI	12	5	4	4	2	0	0	0	0	0	1	1	2	2	23
	15	3	3	4	2	0	0	0	0	0	0	1	2	1	23
	18	4	5	5	3	0	0	0	0	0	0	2	4	2	23
	21	8	6	9	4	0	0	0	0	0	0	2	4	3	23
	ALL HRS	8	6	9	5	1	0	0	0	0	1	3	5	3	23
CEILING	00	3	3	5	1	0	0	0	0	0	0	2	1	1	23
LESS 100	03	4	5	6	3	0	0	0	0	0	0	2	3	2	23
FT AND/OR	06	4	5	4	3	0	0	0	0	0	0	1	3	2	23
VISIBILITY	09	1	2	2	0	0	0	0	0	0	0	0	1	1	23
LESS 1/4 MI	12	0	0	0	0	0	0	0	0	0	0	0	0	0	23
	15	0	1	0	0	0	0	0	0	0	0	0	0	0	23
	18	2	2	1	0	0	0	0	0	0	0	0	1	0	23
	21	3	2	3	1	0	0	0	0	0	0	0	1	1	23
	ALL HRS	2	2	3	1	0	0	0	0	0	0	1	1	1	23

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1955	52.0	58.2	62.5	68.5	75.9P	78.0	81.0	82.2	80.1	68.3	59.0	54.9	M
1956	48.5	49.2	59.1	65.2	73.1	77.3	80.4	81.3	78.1	70.6	58.1	60.1	67.7
1957	57.3	51.7	59.1	67.1	74.8	80.6	82.5	81.3	76.6	65.3	61.0	53.7	68.4
1958	47.2	49.1	57.0	66.4	73.5	80.8	82.3	82.4	80.0	69.2	63.4	52.2	66.7
1959	50.3	47.2	58.0	66.3	76.5	80.5	81.4	82.4	79.0	72.0	57.7	52.8	67.9
1960	49.5	49.7	59.3	66.9	69.6	78.7	82.1	82.0	80.1	72.8	63.1	50.8	66.6
1961	46.7	47.9	62.9	63.8	72.2	77.7	81.9	80.4	79.1	68.2	61.8	56.9	67.4
1962	49.6	50.0	55.3	62.5	76.0	77.7	81.5	81.3	78.6	71.6	56.1	51.3	66.8
1963	49.8	49.3	62.1	71.4	77.5	82.3	81.4	82.6	77.9	70.3	58.5	46.0	67.3
1964	50.1	49.1	60.9	70.2	75.0	81.0	79.7	82.6	77.1	63.9	62.8	56.0	67.3
1965	53.4	43.8	57.6	68.8	76.4	80.0	82.1	81.6	78.8	66.9	66.1	54.8	68.2
1966	48.3	53.1	58.4	67.8	74.9	78.2	83.5	81.3	77.9	69.8	58.8	52.4	67.0
1967	52.0	52.3	62.4	72.2	73.1	80.3	79.4	78.5	75.9	66.5	58.0	58.5	67.2
1968	51.2	47.2	55.6	68.1	74.2	81.2	82.1	83.3	80.0	71.5	56.4	49.5	66.7
1969	52.1	54.5	54.4	67.5	72.0	80.8	82.0	80.3	77.3	71.4	59.2	54.0	67.2
1970	46.7	50.3	58.1	69.3	75.6	80.8	83.1	81.7	83.0	72.0	56.5	58.0	67.9
1971	53.9	53.4	59.1	65.0	72.9	80.9	81.2	81.1	79.6	72.6	58.7	53.7	68.3
1972	54.8	53.2	62.6	69.2	72.7	77.0	81.4	82.5	82.7	72.9	59.6	58.3	69.7
1973	52.1	52.1	64.4	66.2	73.2	81.2	83.7	80.0	78.5	73.3	62.1	53.2	68.6
1974	53.9	54.4	65.7	68.1	76.7	79.8	80.6	80.1	79.8	68.4	60.3	56.3	69.2
1975	55.9	60.8	61.8	67.0	77.9	81.8	83.1	82.4	79.0	69.3	60.0	50.9	68.8
1976	47.7	50.2	62.6	66.5	70.9	77.2	80.8	80.2	77.0	64.1	51.8	49.5	65.3
1977	43.2	51.1	62.3	67.3	74.0	81.9	82.6	81.1	81.0	65.3	61.9	51.5	67.0
MEAN	51.3	53.9	59.7	67.5	74.3	79.8	81.7	81.5	78.4	69.4	59.6	54.1	67.6

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1955	2.81	10.47	.36	2.96	6.88P	2.87	3.05	7.10	1.68	3.61	1.05	1.39	M
1956	3.76	4.78	5.32	2.06	1.61	8.61	6.72	3.49	10.16	5.57	.83	2.82	59.01
1957	.69	1.79	4.26	5.86	3.20	6.29	5.84	3.63	15.13	4.28	3.07	2.03	57.19
1958	5.32	4.79	7.92	4.84	2.63	3.90	9.55	6.51	9.57	1.07	3.36	1.83	62.29
1959	4.32	4.42	5.57	7.03	4.86	6.43	10.42	3.52	13.74	13.85	1.13	1.72	79.01
1960	3.70	9.21	3.91	7.26	5.07	.85	5.15	7.89	8.95	3.30	2.17	1.42	54.88
1961	2.10	4.78	5.61	3.70	2.18	9.40	3.50	6.05	2.72	.44	3.13	8.47	52.66
1962	3.38	1.42	2.57	1.44	.01	2.23	4.72	6.07	3.16	2.34	4.62	2.96	34.34
1963	5.55	4.51	.73	1.00	.80	8.06	12.47	2.04	6.26	T	5.26	4.71	51.57
1964	9.97	4.05	3.63	10.90	.67	1.96	5.25	7.59	4.17	9.95	3.54	5.88	68.98
1965	2.34	9.68	3.43	2.99	T	8.97	4.29	7.08	7.83	1.96	1.03	3.52	48.92
1966	4.26	9.18	1.05	3.28	3.23	2.04	2.14	6.48	3.31	4.17	1.37	5.98	47.31
1967	3.35	9.64	.24	2.92	2.82	3.96	3.21	10.29	10.11	6.60	.91	5.87	59.54
1968	.83	1.92	2.36	1.18	2.12	2.91	3.26	4.34	4.79	1.02	2.84	4.40	30.27
1969	2.82	9.19	7.37	3.19	6.84	3.13	11.30	5.06	1.70	1.43	.74	3.22	55.91
1970	4.71	9.12	7.09	3.08	6.50	6.76	2.56	6.22	3.91	11.37	1.19	2.76	65.29
1971	1.49	4.10	2.61	.35	2.54	3.81	8.57	9.95	6.02	.02	3.06	4.29	46.81
1972	4.16	4.96	5.89	1.39	5.21	4.84	3.57	2.30	3.07	6.58	5.30	6.53	52.90
1973	4.79	4.67	9.21	4.91	3.34	4.19	6.72	4.37	10.23	3.28	2.14	7.27	67.82
1974	3.19	1.72	3.11	2.16	2.38	1.52	3.56	5.17	0.43	.81	2.16	1.89	34.08
1975	4.54	9.48	6.08	4.27	5.64	3.81	12.12	4.53	11.89	7.78	6.28	3.42	73.85
1976	5.95	1.96	6.27	1.90	9.10	5.03	3.81	5.78	7.75	6.71	8.87	4.82	67.79
1977	4.63	1.98	3.06	2.91	1.80	.97	4.97	8.84	4.80	5.06	7.15	2.89	48.04
MEAN	3.84	4.93	4.25	3.55	3.29	4.61	5.99	5.96	7.24	4.91	3.19	3.98	54.44

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
54-55							396	242	154	17		0	M
55-56	0	0	0	61	220	326	472	177	194	34	0	0	1504
56-57	0	0	0	2	244	184	236	131	187	49	4	0	1057
57-58	0	0	8	88	150	343	543	523	262	47	6	0	1945
58-59	0	0	0	23	108	395	449	226	217	48	0	0	1466
59-60	0	0	0	14	250	371	488	434	374	48	41	0	1994
60-61	0	0	0	14	92	436	580	209	110	97	6	0	1525
61-62	0	0	0	29	162	288	481	160	307	115	0	0	1542
62-63	0	0	0	41	267	416	504	462	138	12	0	0	1840
63-64	0	0	1	24	205	583	457	455	149	24	0	0	1898
64-65	0	0	0	97	121	294	559	315	239	18	3	0	1446
65-66	0	0	0	57	94	312	520	328	210	28	0	0	1549
66-67	0	0	0	19	207	393	598	356	126	1	2	0	1502
67-68	0	0	11	46	223	240	426	310	297	24	3	0	1790
68-69	0	0	0	55	279	475	406	296	326	16	0	0	1853
69-70	0	0	0	6	191	333	562	405	216	27	5	0	1745
70-71	0	0	0	1	258	246	550	329	224	88	9	0	1505
71-72	0	0	0	9	213	139	228	290	122	19	0	0	1000
72-73	0	0	0	13	232	250	593	336	74	99	0	0	1377
73-74	0	0	0	18	98	369	92	308	66	29	0	0	978
74-75	0	0	0	19	186	285	590	163	173	54	0	0	1170
75-76	0	0	18	26	230	440	531	262	119	43	3	0	1670
76-77	0	0	0	98	392	473	670	384	142	32	0	0	2193
77-78	0	0	0	83	128	419							
MEAN	0	0	1	37	198	347	427	318	192	41	4	0	1565

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1955	0	3	85	137		395	503	541	458	169	46	22	M
1956	0	14	19	68	320	377	483	513	525	182	46	39	2386
1957	22	48	10	118	214	474	550	511	557	106	34	0	2543
1958	0	0	0	97	285	480	546	544	458	161	67	8	2044
1959	0	12	10	92	364	469	513	547	429	236	42	1	2715
1960	2	0	16	106	192	417	539	533	460	263	42	4	2974
1961	0	17	52	67	239	385	521	485	429	136	72	44	2447
1962	8	23	11	46	348	386	519	512	413	257	7	0	2530
1963	1	0	54	211	395	527	515	552	504	195	19	0	2843
1964	1	0	18	183	319	488	483	554	372	73	62	80	2553
1965	7	8	16	139	361	457	525	522	421	120	74	2	2662
1966	9	0	10	120	314	401	573	512	503	178	27	9	2564
1967	3	7	93	221	258	464	434	424	284	98	27	44	2357
1968	3	0	11	121	294	493	524	575	455	263	29	0	2778
1969	11	11	2	99	240	481	537	480	375	209	24	2	2471
1970	0	0	5	162	340	480	567	528	465	223	11	58	2998
1971	14	8	18	95	253	487	510	504	414	253	30	84	2670
1972	41	10	57	151	244	366	517	441	539	266	74	90	2996
1973	0	0	48	100	260	490	565	472	413	286	107	10	2788
1974	69	17	96	129	271	453	491	477	330	128	50	22	2629
1975	14	55	72	131	400	510	565	545	522	164	85	6	2889
1976	0	11	50	94	182	371	494	475	368	79	4	0	2128
1977	0	3	67	108	304	515	560	511	488	98	40	8	2702
MEAN	9	11	35	122	300	451	525	520	411	180	44	18	2626

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

PENSACOLA, FLORIDA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
03855	Pensacola, Florida	30°21'N	87°19'W	30	KNPA	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Meteorological office spaces	Navy	1956	1971	30°21'N	87°19'W	33	Mercurial	24
2.	" " "	"	1971	1976	"	"	34	"	24
1a.	" " "	"	1964	1976	"	"	35.5	Aneroid	24
2a.	" " "	"	1976		"	"	"	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1956	Roof of control tower	UMQ-5C	RD-108B	75'	1. Barograph (marine type) 2. Auto met station (GMQ-29) 3. Ceiling light (ML 121) 4. Cloud height set (GMQ 13) 5. Transmissometer (GMQ 10C) 6. Radar VID Repeater (WSRR-63) 7. Weathervision (GMQ-19A(V)) 8. GOES (Mod 9271 O/H) 9. RATT-68 (FMH 6)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Point Mugu, site of Headquarters, Pacific Missile Test Center, is located on the coast 53 miles west-northwest of Los Angeles.

The average elevation of Point Mugu is 12 feet. The terrain rises gradually to the north and northwest to the foothills of the Topa Topa Mountains. The principal terrain feature of the immediate vicinity lies 2 miles to the east; the western extremity of the Santa Monica Mountains; marked by Laguna Peak (1,457 feet).

The most characteristic feature of this area's climate is the night and early morning low cloudiness and sunny afternoons that prevail during the spring and summer months.

The annual daily temperature range is about 16 degrees F., with slightly greater ranges in winter than in summer. The mean monthly temperatures range from 54.5 degrees F. in January to 66 degrees F. in August. The warmest temperatures usually occur in late summer and early fall with daily maxima in the upper 80's and low 90's not unusual. The extreme maximum temperature of 104 degrees F. occurred in October 1971; the extreme minimum temperature of 27 degrees F. occurred in February 1971 and December 1972.

Prevailing daytime surface winds are from the west at 8-12 knots, and become northerly in the evening hours at about 5 knots. Prevailing conditions are occasionally interrupted for a 2 to 3 day period of strong, gusty and dry northeasterly winds called the "Santa Ana". The relative humidity drops to less than 20% and the fire danger in the brush-covered hillsides rises to extreme proportions.

Summer precipitation is most often in the form of early morning drizzle, and typically leaves only trace amounts. More than 85% of the precipitation falls during the period of November through March. Thunderstorms are uncommon at Point Mugu.

Surface visibility is most often restricted by fog and haze in the early morning hours. However, in the afternoon, smoke or haze transported up the coast from the Los Angeles basin on southeasterly winds frequently restricts the visibility regardless of the season.

POINT MUGU, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: POINT MUGU, CALIFORNIA
LOCATION : N34 07 W119 07

PERIOD: JAN 60-DEC 77
ELEV : 12

STN LTRS: KNTD
WBAN # : 93111
WMO # : 72391

MEAN NUMBER OF DAYS OCCURRENCE OF

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	PRECIPITATION INCHES MON MEAN	MON MAX	MON MIN	MAX 24 HRS	SNOWFALL INCHES MN	SNOWFALL INCHES MAX	MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SFC WINDS SPEED MN	SFC WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL INCHES .1 OR GTR	SNOWFALL INCHES 1.5 OR GTR	THUNDER DAYS	VSBY FOG < 7MI	MAX DEG > 90	F = 75	MIN AND < 32
JAN	64	45	90	29	2.3	11.6	.0	3.3	#	#	#	66	55	.24	39	250	NE	6	61	4	5	1	0	0	#	11	#	4	31
FEB	64	45	89	27	2.2	13.8	.0	3.5	#	#	#	76	60	.28	43	250	W	6	49	4	5	1	0	0	#	11	0	2	28
MAR	62	45	85	33	1.3	3.1	#	1.6	0	0	0	80	62	.30	45	250	W	6	47	4	4	1	0	0	#	11	0	1	31
APR	64	47	96	36	.7	4.2	.0	1.3	0	0	0	84	64	.34	48	200	W	6	50	4	3	#	0	0	#	12	0	2	30
MAY	65	52	99	41	.1	1.0	#	.6	0	0	0	87	68	.39	52	200	W	5	44	5	1	#	0	0	0	14	#	1	31
JUN	68	55	62	89	42	#	.3	#	.2	0	0	0	89	71	.44	55	250	W	5	29	6	1	0	0	0	#	17	0	1	30
JUL	71	57	64	88	47	#	.1	#	.1	0	0	0	91	71	.49	58	200	W	5	33	5	#	0	0	0	#	23	0	4	31
AUG	73	59	66	97	49	.1	1.0	.0	1.0	0	0	0	89	69	.50	59	250	W	4	25	5	#	#	0	0	#	23	0	10	30
SEP	73	58	66	100	44	.3	5.0	#	2.3	0	0	0	86	68	.49	58	300	W	4	40	5	1	#	0	0	#	20	1	8	28
OCT	72	53	83	104	33	.2	.7	#	.5	0	0	0	81	63	.40	53	250	W	4	43	4	1	#	0	0	#	18	1	6	31
NOV	68	49	58	98	35	2.0	6.4	#	2.2	0	0	0	75	60	.31	46	200	NE	5	56	4	4	1	0	0	#	13	#	5	30
DEC	64	44	54	87	27	1.7	5.3	#	2.2	0	0	0	69	57	.25	40	250	NE	6	58	4	3	1	0	0	#	12	0	3	31
ANN	67	51	59	104	27	10.9	13.8	.0	3.5	#	#	#	81	64	.36	50	300	W	5	61	5	30	5	0	0	#	185	2	47	362
EYR	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	32	32	18	18	18

REMARKS: #DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA	% HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING		01	22	26	26	26	38	53	46	48	47	38	26	20	35	18
LESS 5000		04	22	30	29	28	48	63	60	59	54	40	26	23	40	18
FT AND/OR		07	25	30	33	32	57	70	69	66	61	43	31	22	45	18
VISIBILITY		10	21	28	28	25	46	60	49	47	46	33	24	20	36	18
LESS 5 MI		13	22	24	23	20	37	47	36	32	36	22	19	17	28	18
		16	21	19	20	17	31	35	21	21	28	20	18	16	22	18
		19	20	21	22	20	28	35	24	31	32	25	21	17	25	18
		22	23	21	24	20	29	41	32	33	38	30	24	19	28	18
	ALL	HRS	22	25	26	24	39	51	42	42	43	31	24	19	32	18
CEILING		01	12	12	13	11	22	34	38	41	32	23	13	9	22	18
LESS 1000		04	11	14	15	12	26	39	50	47	35	22	12	10	25	18
FT AND/OR		07	9	15	16	13	24	40	52	49	36	22	13	10	25	18
VISIBILITY		10	8	13	9	7	14	26	27	24	19	12	7	9	15	18
LESS 3 MI		13	8	12	8	8	10	16	17	17	12	8	7	7	11	18
		16	8	9	9	6	13	14	11	13	12	9	7	8	10	18
		19	9	10	10	8	14	22	19	25	21	14	9	7	14	18
		22	10	10	12	11	16	26	27	29	24	18	12	9	17	18
	ALL	HRS	10	12	12	10	17	27	30	31	24	16	10	9	17	18
CEILING		01	7	7	9	6	10	17	17	20	15	13	7	6	11	18
LESS 500		04	6	8	9	9	10	20	25	23	21	16	7	6	14	18
FT AND/OR		07	6	10	10	10	9	19	25	26	20	15	9	6	14	18
VISIBILITY		10	5	8	5	3	5	8	8	8	6	4	4	4	6	18
LESS 1 MI		13	5	6	5	5	5	6	3	4	4	4	3	4	4	18
		16	5	6	6	4	7	5	3	5	4	5	4	5	5	18
		19	6	6	5	4	8	10	8	9	8	7	5	4	7	18
		22	7	5	6	5	8	13	12	13	10	11	5	5	8	18
	ALL	HRS	6	7	7	6	8	12	13	14	11	9	6	5	9	18
CEILING		01	5	3	4	2	1	3	2	3	4	7	4	2	3	18
LESS 100		04	4	5	4	4	2	2	3	5	6	8	5	3	4	18
FT AND/OR		07	3	5	4	4	1	2	2	2	4	6	5	3	3	18
VISIBILITY		10	2	5	2	1	1	1	0	0	1	1	2	2	2	18
LESS 1/4 MI		13	4	4	4	4	3	2	0	1	1	2	2	2	2	18
		16	3	4	4	3	3	2	1	1	1	2	2	3	2	18
		19	2	3	2	2	2	2	0	1	1	2	2	2	2	18
		22	4	2	3	2	0	2	1	1	2	4	2	2	2	18
	ALL	HRS	3	4	3	3	2	2	1	2	2	4	3	2	3	18

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1960	50.8	52.0	56.1	57.1	58.7	61.4	64.3	62.7	64.3	59.1	56.3	54.5	58.2
1961	50.0	48.2	53.7	55.9	56.9	59.7	64.7	65.3	63.8	61.6	57.0	53.6	58.7
1962	54.4	54.0	51.1	56.7	58.8	58.8	61.7	62.5	62.9	60.2	55.8	53.9	57.6
1963	52.0	48.2	53.2	56.6	60.2	62.8	63.2	66.5	71.1	65.6	60.1	57.1	60.6
1964	53.4	53.1	54.6	57.0	60.3	62.1	65.2	63.3	65.4	57.9	54.1	52.6	58.6
1965	50.0	52.4	53.5	57.4	58.2	61.2	62.9	67.4	66.1	62.9	57.8	54.5	59.6
1966	52.1	54.1	55.2	59.5	60.8	63.4	62.5	67.2	65.1	62.9	58.9	56.0	59.6
1967	54.8	53.4	53.7	51.1	60.4	61.3	65.6	68.6	68.5	65.1	60.9	53.1	59.9
1968	53.2	49.5	53.4	54.8	59.5	58.3	62.4	63.6	63.8	60.4	56.8	50.1	57.7
1969	54.5	54.3	55.9	57.2	59.8	62.9	65.9	68.1	65.4	63.1	59.1	55.4	60.1
1970	53.2	53.3	57.6	55.7	59.8	60.7	62.4	62.0	65.7	62.9	57.9	52.3	58.6
1971	52.2	52.4	52.8	53.7	56.0	59.3	63.5	68.3	64.8	59.1	54.2	49.5	57.1
1972	52.1	52.8	55.0	56.9	58.7	62.9	64.0	68.3	67.6	62.6	57.7	54.0	59.5
1973	54.3	54.1	52.7	57.8	59.9	63.5	64.2	64.2	65.3	62.5	55.4	56.0	59.6
1974	54.6	53.1	54.9	57.9	59.5	61.4	65.5	66.5	64.5	60.9	55.4	49.6	59.0
1975	53.4	51.0	52.0	50.5	57.7	60.8	63.7	67.3	66.9	60.9	58.9	53.7	58.1
1976	57.1	53.9	54.1	55.9	60.3	64.8	66.4	66.4	64.4	64.5	62.1	56.7	61.2
1977	54.5	48.2	52.9	56.6	57.7	61.9	64.1	67.2	65.6	62.5	61.5	57.9	60.0
MEAN	54.3	49.7	53.9	55.8	58.5	61.4	64.0	66.1	65.6	62.6	58.2	54.1	59.1

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1960	2.19	3.46	.33	.96	T	T	T	T	.01	T	3.60	.23	10.58
1961	1.07	T	.75	.25	T	.01	T	.02	.08	T	3.04	.90	6.10
1962	2.82	13.79	1.12	T	T	.06	T	T	T	.46	.01	.08	18.29
1963	1.09	2.92	2.12	.88	.26	.26	T	.03	.57	.58	2.64	.09	11.44
1964	1.01	.00	1.35	.38	.01	.19	T	.07	T	.41	1.02	2.92	7.32
1965	.36	.20	1.71	4.23	.01	T	T	T	.04	T	6.41	2.81	15.79
1966	1.47	.76	T	T	.02	T	T	T	.02	.02	1.80	2.84	6.93
1967	2.48	.16	.04	2.72	.07	T	T	T	.28	T	5.71	.79	12.18
1968	.85	.92	3.08	.36	T	T	T	.02	T	.74	.36	.76	7.13
1969	11.59	4.97	.36	.76	.04	T	.13	T	.03	T	1.78	.12	19.94
1970	2.36	5.23	1.52	T	T	T	T	T	T	T	4.23	3.01	16.97
1971	.02	.41	.37	.79	.21	T	T	.00	.03	.02	.18	5.33	7.96
1972	.08	.12	.01	.01	.03	T	T	.01	.02	.40	2.82	.91	4.65
1973	3.93	4.00	1.57	T	T	T	T	T	.01	.23	1.36	1.39	12.49
1974	5.33	.18	2.21	.20	T	T	.02	T	T	.47	.09	3.08	12.31
1975	.55	2.14	2.33	.39	T	T	T	T	T	.09	.07	.04	5.61
1976	.00	7.59	.62	.79	.01	.23	T	T	4.88	T	.13	.80	10.15
1977	3.02	.90	2.14	.90	1.00	.01	.02	1.04	.02	T	.05	2.90	10.00
MEAN	2.27	2.23	1.26	.71	.09	.04	.01	.07	.04	.19	1.96	1.46	10.83

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
59-60							432	362	270	239	189	102	M
60-61	59	65	54	190	256	338	303	237	367	275	277	149	2448
61-62	27	98	76	149	265	357	323	357	424	252	248	179	2695
62-63	98	46	56	147	269	337	399	184	361	303	137	62	2407
63-64	56	6	7	29	152	255	351	280	372	255	238	136	2132
64-65	90	16	58	49	216	269	208	320	330	229	203	105	2113
65-66	69	16	14	103	210	314	395	359	296	182	130	97	2180
66-67	79	4	26	73	195	279	312	262	346	413	161	104	2254
67-68	13	0	0	55	119	367	359	155	153	312	257	195	2185
68-69	82	47	56	146	243	458	381	347	334	229	154	59	2486
69-70	13	0	13	91	81	296	360	264	223	274	164	126	1905
70-71	76	91	98	79	216	388	396	349	371	337	272	144	2837
71-72	53	5	38	216	319	475	397	315	305	295	189	98	2665
72-73	17	10	11	85	214	346	331	196	374	215	159	98	1996
73-74	32	9	29	93	180	262	316	282	257	206	184	103	2093
74-75	34	3	29	129	295	475	361	386	396	428	221	119	2876
75-76	92	6	5	131	204	349	283	276	332	266	142	45	2097
76-77	3	2	0	20	121	259	270	243	379	245	220	90	1852
77-78	51	6	17	83	130	216							
MEAN	51	20	32	103	210	337	325	286	339	275	196	106	2290

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1960	0	0	2	11	0	1	43	3	37	11	0	21	129
1961	24	0	0	0	0	0	26	42	16	48	28	8	192
1962	23	0	0	8	0	0	0	12	0	4	2	0	49
1963	4	1	0	0	0	3	5	58	193	53	13	17	347
1964	0	0	8	6	0	0	6	32	15	66	10	0	143
1965	27	0	0	6	0	0	7	96	37	76	0	0	267
1966	6	0	2	22	0	16	7	60	33	13	17	9	203
1967	2	1	0	0	25	0	38	117	108	69	4	7	371
1968	6	5	0	11	1	0	6	7	26	11	6	0	77
1969	4	0	0	1	0	2	46	109	32	37	32	8	267
1970	0	0	2	1	11	5	2	5	67	21	9	0	123
1971	5	3	0	5	0	0	11	115	39	42	4	0	224
1972	3	0	0	0	0	1	36	117	93	30	0	10	310
1973	3	6	0	4	5	21	13	94	47	20	0	8	181
1974	0	10	0	0	1	0	37	59	20	11	14	0	172
1975	7	0	0	0	0	0	25	91	69	11	28	4	228
1976	47	3	0	0	0	46	62	95	110	75	41	9	468
1977	14	0	0	0	0	3	31	78	41	11	31	0	209
MEAN	10	2	1	4	2	5	25	62	56	34	13	6	220

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

POINT MUGU, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93111	Point Mugu, California	34°07'N	119°07'W	12	KNTD	72391

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Aerological office on second deck of hangar, bldg 34	Navy		1955	34°07'N	119°07'W	29.84	Mercurial	24
2.	Aerological office, first deck of hangar, bldg 34	"	1955	1962	"	"	14.10	"	"
3.	New barometer installed on second deck, bldg 34	"	1962	1964	"	"	27.30	"	"
4.	In observer tower atop hangar 34	"	1964	1965	"	"	77.00	"	"
5.	PMR Weather Center, bldg 552	"	1965	1966	"	"	11.25	"	"
6.	" " " " "	"	1966	1968	"	"	11.07	"	"
7.	" " " " "	"	1968	1976	"	"	11.03	"	"
8.	PMTC " " " "	"	1976		"	"	8.77	"	"
1a.	PMR " " " "	"	1965	1976	"	"	13.25	Aneroid	"
2a.	PMTC " " " "	"	1976		"	"	11.58	"	"

Wind data earlier than 1961 should not be summarized with later data since the anemometer height is not compatible with the 1961 to present exposure.

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		On west end of hangar roof	Selsyn	Double	79'	1. Micro-barograph (AERO 1932 USN)
1a.		Top of control tower	AN-UMQ-5			2. Auto met station (AN/GMQ-29)
2.	Replaced 1957	Mounted on existing selsyn mast	AN-UMQ-5C	RD-108	106'	3. Cloud height set (AN/GMQ-13D)
3.	1960	Change in height	"	"	93'	4. Theodolite (shore type)
4.	1961	1800 feet southwest of intersection of runways 05-23 and 11-29	"	"	13'	5. Transmissometer (AN/GMQ-10C)
5.	1964	13 feet above runway elevation, 450 feet from centerline runway 03-21, 1600 feet southwest intersection runway 03-21 and 09-27				6. Radiosonde/Rawinsonde set (AN/GMD-1B)
						7. Meteorological Satellite System (AN/GKR-4)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Quantico is located on the west bank of the Potomac River, 25 miles south-southwest of Washington, D.C. and 50 miles north of Richmond, Virginia. The Appalachian Mountains begin 70 miles to the west, while the Chesapeake Bay lies 43 miles to the east. The general area about the station is composed of small hills (less than 400 feet), separated by marshes and streams which drain into the Potomac River. In general, the area slopes to the east. The airfield is surrounded by water except to the west. The field elevation is 12 feet.

Temperatures are normally 2-3 degrees F. higher than outlying areas due to the influence of the Potomac River. Snowfall amounts are particularly influenced by the higher temperatures, with differences of 2-3 inches occurring within ½ mile west of the field. The mean annual snowfall is 16 inches, but the rapid melt-off results in small accumulations. More than 10 inch accumulations are rare. The mean snow depth for the months of December through March (when over 92% of the snowfall occurs) is 3 inches, 4 inches, 4 inches, and 1 inch, respectively.

Rainfall is relatively moderate, averaging close to 38 inches annually and 3.2 inches monthly. There is no significant dry or moist season, but the month of October has the lowest average of 2.5 inches, while August has the greatest average of 4.3 inches. In 32 years of records, Quantico has never recorded a dry month; least recorded is 0.05 inch in October 1963. Maximum recorded is 13.5 inches in September 1955.

Summers are warm and humid and winters mild. During spring and autumn, generally pleasant weather prevails. Coldest weather occurs during January and February. The warmest weather occurs in late July and early August. The annual mean temperature is 57 degrees F. Temperature extremes range from - 5.0 to 105.0 degrees F. Mean relative humidity is 69%.

The visibility remains greater than 3 miles and the ceiling above 1,000 feet 90% of the time. The prevailing winds are north-westerly with a mean speed of 6 knots.

Although Quantico's weather is sometimes influenced by a passing tropical disturbance, it is rare that extensive damage occurs from these.

QUANTICO, VIRGINIA

AD-A076 976 NAVAL OCEANOGRAPHY COMMAND DETACHMENT ASHEVILLE NC F/G 4/2
U.S. NAVY AND MARINE CORPS METEOROLOGICAL STATION CLIMATIC SUMM--ETC(U)
OCT 79

UNCLASSIFIED NL

3 OF 3
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END
DATE
FILMED
12-79
DDC

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: QUANTICO, VIRGINIA
LOCATION : N38 30 W77 18

PERIOD: FEB 43-DEC 77
ELEV : 11

STN LTRS: KNYG
WBAN # : 13773
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX 24 HR	SNOWFALL MAX 04 13	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SFC WINDS SPEED MN	SFC WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER STORMS OBS R	VSBY FOG < 7MI	MAX DEG > 90	MAX DEG > 75	MIN AND < 32	MIN AND < 10
JAN	44	27	36	80	-5	2.8	5.0	.3	1.8	4	26	9	74	62	.14	25	700	NW	6	53	6	11	2	2	1	#	13	0	#	22	2
FEB	47	28	38	82	0	2.6	6.0	.4	1.9	4	16	12	71	57	.14	26	750	NW	6	54	6	9	2	2	1	#	11	0	#	19	1
MAR	55	35	46	88	8	3.2	6.4	.5	2.1	3	28	8	71	54	.19	33	700	NW	7	56	6	11	3	1	1	1	12	0	2	12	#
APR	67	45	56	94	24	3.0	7.5	.6	2.4	#	4	4	71	50	.27	42	650	NW	7	64	6	10	2	#	#	2	10	1	7	3	0
MAY	75	54	65	97	31	3.4	9.2	.3	2.0	0	0	0	79	54	.40	53	400	S	6	65	6	11	2	0	0	5	14	1	17	#	0
JUN	84	63	74	102	43	3.3	10.2	.7	5.0	0	0	0	82	56	.56	62	450	S	6	70	6	9	2	0	0	6	13	7	26	0	0
JUL	87	68	78	102	49	3.7	9.7	1.1	3.7	0	0	0	83	58	.67	67	300	S	5	63	6	10	2	0	0	7	14	11	31	0	0
AUG	85	67	76	101	48	4.3	11.8	.5	4.7	0	0	0	85	59	.64	66	350	S	5	66	6	9	3	0	0	6	16	8	30	0	0
SEP	79	60	70	105	38	3.3	13.5	.1	4.6	0	0	0	85	59	.52	60	500	NW	5	48	5	8	2	0	0	3	15	3	21	0	0
OCT	69	48	59	94	24	2.5	5.2	.1	3.4	#	#	#	84	58	.35	49	550	NW	5	80	5	7	2	0	0	1	16	#	8	1	0
NOV	57	38	48	85	13	3.0	7.0	.4	2.4	1	17	17	78	58	.23	38	700	NW	6	52	5	9	2	#	#	#	12	0	2	10	0
DEC	46	29	38	78	4	3.3	7.8	.2	2.4	3	17	9	77	63	.16	29	650	NW	6	51	6	9	2	1	1	#	13	0	#	20	1
ANN	66	47	57	105	-5	38.4	13.5	.1	5.0	15	28	17	78	57	.31	46	600	NW	6	80	6	113	26	6	4	31	159	31	144	87	4
EYR	32	32	32	32	32	32	32	32	32	32	32	32	30	30	30	30	30	29	29	31	27	32	32	32	32	28	28	32	32	32	32

REMARKS: #DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	24	26	24	20	18	16	13	14	18	17	19	24	19	25
LESS 5000	04	28	25	24	21	24	19	15	16	22	21	21	24	22	30
FT AND/OR	07	29	27	27	24	27	20	18	20	25	28	25	26	25	32
VISIBILITY	10	26	26	28	27	26	21	18	21	24	25	23	27	24	32
LESS 5 MI	13	26	26	30	28	28	23	20	21	26	25	25	28	25	32
	16	24	24	26	22	24	19	16	15	20	19	19	24	21	32
	19	23	24	23	19	21	16	15	16	18	17	19	25	20	30
	22	23	26	23	18	17	17	14	14	17	16	18	23	19	25
	ALL HRS	26	26	26	23	23	19	16	17	21	21	21	25	22	30
CEILING	01	9	12	10	7	5	4	2	2	5	5	7	9	6	25
LESS 1000	04	12	12	12	9	9	6	4	5	8	8	8	11	9	30
FT AND/OR	07	13	13	12	11	13	9	7	9	11	13	11	12	11	32
VISIBILITY	10	11	11	12	8	8	4	3	5	8	10	9	13	8	32
LESS 3 MI	13	10	10	10	6	5	3	2	2	5	6	6	12	6	32
	16	8	9	9	4	4	2	2	1	4	4	4	10	5	32
	19	8	10	9	6	4	2	1	2	5	4	4	11	5	30
	22	7	10	8	6	3	2	2	2	4	4	5	9	5	25
	ALL HRS	10	11	10	7	7	4	3	4	6	7	7	11	7	30
CEILING	01	5	6	4	3	1	0	0	0	2	2	3	5	3	25
LESS 500	04	7	8	5	4	4	1	1	1	2	4	5	6	4	30
FT AND/OR	07	7	7	5	4	4	1	1	2	3	6	5	6	4	32
VISIBILITY	10	6	5	3	2	1	1	0	0	1	3	4	6	3	32
LESS 1 MI	13	4	3	2	1	0	0	0	0	1	1	2	4	2	32
	16	3	2	2	0	0	0	0	0	1	1	2	4	1	32
	19	4	4	3	2	1	1	0	0	1	1	1	4	2	30
	22	4	4	3	2	1	0	0	0	1	1	2	4	2	25
	ALL HRS	5	5	3	2	2	1	0	1	2	2	3	5	3	30
CEILING	01	2	2	2	1	0	0	0	0	0	0	1	2	1	25
LESS 200	04	3	3	2	1	1	0	0	0	0	1	2	2	1	30
FT AND/OR	07	3	3	2	1	1	0	0	0	1	3	2	2	1	32
VISIBILITY	10	2	1	1	0	0	0	0	0	0	1	1	1	1	32
LESS 3/4 MI	13	1	1	0	0	0	0	0	0	0	0	0	1	0	32
	16	0	0	0	0	0	0	0	0	0	0	1	1	0	32
	19	1	1	0	0	0	0	0	0	0	0	0	1	0	30
	22	2	2	1	0	0	0	0	0	0	0	1	2	1	25
	ALL HRS	2	1	1	0	0	0	0	0	0	1	1	1	1	30

STATION CLIMATIC SUMMARY

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FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

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QUANTICO, VIRGINIA

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	38.2	36.9	59.0	62.7P	74.1	79.6	76.3	72.3	58.4	47.8	32.2	M
1946	36.8P	39.2	52.5P	52.3	64.3	72.2P	78.1	72.1P	69.2	60.2	51.4	45.0	M
1947	40.4	40.1	38.1	56.6P	68.2P	71.2	75.3P	78.4	68.6P	63.1P	45.5	39.8	M
1948	28.6P	40.8	48.0	55.9	64.7P	73.6	77.3	75.0P	67.9	54.7	50.0	39.7	M
1949	41.8	43.6	49.7	56.3	64.8	74.3	80.1	76.9	69.9	62.0P	46.9	39.3	M
1950	47.2	48.3P	40.8	52.6P	63.7	72.3	79.9P	74.2	66.6	59.2	45.9	33.6	M
1951	38.3	48.8	44.5	54.6	68.8	73.2	77.8	75.9P	69.5	60.8	48.3	39.2	M
1952	30.9	39.6	43.6	56.4	M	75.5	79.1	75.9	68.3	58.6	44.8	37.0	M
1953	39.8	41.6	46.3	53.8	69.9	74.2	78.7	75.6	68.6	59.6	46.3	39.2	57.9
1954	36.2	42.8	44.8	59.9	62.2	73.6	77.5	75.3	73.0	61.5	44.1	36.3	57.2
1955	34.6	38.8	47.6	58.9	67.1	70.0	81.4	78.4	69.6	59.1	44.6	33.6	58.8
1956	36.7	41.3	49.7P	56.3	63.7	73.2	76.2	75.3	66.4	58.8	46.3	44.6	M
1957	32.5	41.3	49.7	58.8	66.6	75.8	76.8	73.8	70.3	59.4	47.8	39.9	58.9
1958	32.7	31.0	41.0	56.3	68.6	71.6	79.5	75.9	68.7	58.1	48.6	32.0	53.1
1959	34.1	48.1	44.7	58.5	68.4P	74.3	77.5	78.8	71.9	60.8P	48.3	40.0	M
1960	37.2	37.8	36.7	59.6	62.5	72.4	75.6	77.6	70.2	57.6	47.1	30.1	55.2
1961	28.7	38.2	47.1	56.2	60.1	71.9	78.0	76.0	73.7	59.4	50.9	37.2	56.0
1962	36.9	44.2	49.0	55.8	67.8	73.7	76.4	75.4	69.5	59.6	45.2	33.0	58.3
1963	32.0	41.4	48.5	53.2	64.3	72.9	77.3	76.3	68.4	60.3	48.7	29.0	55.1
1964	35.3	43.9	48.0	56.7	68.3	74.5	77.4	73.9	68.2	52.2	49.7	40.4	58.5
1965	33.0	33.6	40.7	52.3	69.6	72.5	76.7	73.1	71.2	59.4	47.7	41.8	55.9
1966	36.6	36.6	47.8	51.1	63.6	73.1	79.2	76.4	69.6	58.6	46.2	36.9	56.0
1967	40.3	33.3	44.0	57.7	59.4	72.3	76.0	73.5	66.6	56.3	45.0	39.6	55.5
1968	30.5	33.1	48.9	57.2	62.7	74.2	79.1	78.7	70.2	59.9	49.5	36.6	56.7
1969	33.9	37.6	43.6	57.6	66.3	76.0	78.8	76.7	69.5	57.6	46.1	33.9	56.6
1970	29.6	37.0	41.8	55.8	66.8	76.0	77.3	76.9	72.9	60.8	47.9	38.9	56.6
1971	31.0	37.9	42.8	53.5	62.6	74.2	77.3	73.0	71.9	63.3	48.0	43.0	56.9
1972	38.2	33.8	43.7	52.3	60.5	70.0	78.0	75.6	70.2	56.9	46.5	42.3	56.2
1973	34.6	46.5	50.5	56.1	63.5	76.9	78.6	78.2	72.7	61.2	50.0	39.6	58.4
1974	41.9	38.0	48.3	58.5	69.0	70.5	77.5	76.6	68.2	58.6	49.5	41.3	57.6
1975	39.1	40.3	44.6	52.7	67.9	76.4	76.9	78.4	67.5	61.9	36.0P	39.1	M
1976	33.0P	47.2	50.2	56.4P	69.4	75.4	77.0	75.1	68.7P	55.8P	42.5P	M	M
MEAN	36.0	37.6	45.1	55.9	64.8	73.5	77.6	76.1	69.3	58.1	47.3	37.8	56.6

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	2.11P	.80	3.61	3.67	3.53	7.20	1.72	2.78	1.20	3.20	4.38	M
1946	1.41	1.89	2.42	2.24	4.68	2.32	3.09	3.06P	2.42	1.21	1.61	1.97	M
1947	4.06	.78	1.02	1.28P	2.68	4.36	2.74	2.84	4.17	.96	3.72	1.91	M
1948	4.37	1.96	3.22	3.23	6.32	3.72	3.11	9.13	3.38	2.73	4.63	3.48	53.18
1949	3.01	2.76	2.69	2.68	3.26	2.29	2.59	4.86	4.07	2.64	1.08	2.01	38.97
1950	2.10	2.28P	4.42	2.33	3.71	1.81	4.21P	3.82	7.24	2.08	2.27	2.76	M
1951	1.85	2.44	4.62	3.80	1.40	8.63	2.45	2.12P	1.91	3.01	6.61	4.75	M
1952	4.79	1.28	4.04	4.26	M	1.11	2.47	3.86	2.01	.53	4.80	2.42	M
1953	3.98	2.93	4.89	7.46	3.78	4.19	2.32	2.12	1.84	4.94	2.97	2.93	44.44
1954	2.22	1.11	3.02	3.01	2.42	.91	4.32	3.94	.44	2.71	1.36	3.93	29.59
1955	.31	2.88	4.17	3.86	1.80	3.26	4.78	11.77	.88	3.88	1.39	.30	39.69
1956	1.66	2.78	3.60	2.94	2.33	2.34	6.90	1.01	3.88	4.14	3.27	2.77	38.83
1957	3.19	4.62	2.17	1.79	.33	3.32	1.09	6.93	2.00	4.26	3.79	8.34	37.66
1958	3.62	9.72	8.39	4.27	2.04	3.61	4.91	10.90	1.88	2.72	2.24	2.21	49.69
1959	2.43	1.98	2.66	3.06	2.84P	4.32	9.74	9.14	4.21	2.33P	2.63	2.92	M
1960	3.09	4.16	2.55	3.59	7.26	4.97	3.24	6.10	6.50	2.43	.58	1.52	45.69
1961	2.83	9.91	3.46	2.69	9.19	1.98	2.39	4.84	.31	5.25	1.90	3.44	56.50
1962	1.81	4.13	3.29	2.69	1.94	1.88	3.45	2.90	3.04	.94	4.88	3.24	34.83
1963	2.33	1.33	5.47	.46	.59P	4.49	1.16	.72	5.21	.09	6.01	1.46	M
1964	3.78	5.86	2.01	4.09	.57	3.20	1.33	1.46	4.06	1.02	2.46	1.02	29.84
1965	3.03	1.73	3.10	1.43	1.59	2.83	3.69	4.75	1.92	1.99	.46	.23	26.09
1966	4.37	2.58	1.57	2.56	2.01	.97	1.13	.71	7.32	2.66	.67	2.91	30.42
1967	1.34	1.69	2.16	.68	2.53	.67	2.20	2.93	.13	1.43	1.56	3.58	21.42
1968	2.10	.56	1.96	.73	2.97	6.42	3.32	3.16	2.49	6.47	2.93	2.82	38.18
1969	2.58	2.66	2.98	1.92	1.97	1.01	4.59	3.75	1.78	1.48	2.32	3.09	31.63
1970	1.90	3.28	3.23	3.73	2.76	1.36	2.01	2.26	2.06	2.84	6.96	3.32	38.72
1971	2.36	4.60	2.76	2.67	9.23	2.43	3.01	8.26	1.67	5.16	3.28	1.51	57.34
1972	2.66	4.02	2.10	3.02	4.68	10.15	2.04	1.99	2.14	3.66	6.99	4.91	52.03
1973	2.64	3.38	3.27	4.58	2.68	3.38	3.64	7.86	1.99	2.32	1.13	7.77	48.87
1974	2.89	1.08	4.19	2.98	4.58	5.55	1.73	3.98	3.66	.84	1.81	5.09	42.13
1975	3.35	2.02	3.28	1.88	3.68	4.42	6.84	2.84	18.88	2.43	1.66P	4.43	M
1976	3.91P	1.92	3.38	1.17P	3.28	1.88	2.63	.96	4.29P	6.92P	.90P	M	M
MEAN	2.79	2.63	3.24	3.01	3.39	3.27	3.66	4.29	3.31	2.67	2.99	3.27	38.52

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45								744	982	204		28	M
45-46	0	0	16	257	512	1013	M	716	M	296	100	M	M
46-47	0	M	20	171	413	748	754	971	828	M	M	7	M
47-48	M	0	M	M	574	896	M	813	544	295	M	4	M
48-49	0	M	51	313	443	776	710	597	601	314	84	8	M
49-50	0	0	67	M	334	790	846	M	752	M	96	5	M
50-51	M	0	44	191	572	965	819	757	625	327	86	3	M
51-52	0	M	29	146	474	796	774	732	469	273	M	3	M
52-53	0	0	29	328	539	858	778	693	575	288	20	12	4104
53-54	0	0	40	174	554	786	885	615	629	203	135	5	4042
54-55	0	0	11	223	620	883	937	783	930	193	53	18	4280
55-56	0	0	22	203	469	968	933	681	M	345	183	15	M
56-57	0	2	89	188	537	826	1000	695	909	242	75	4	4012
57-58	0	2	58	352	509	770	996	945	757	270	62	5	4704
58-59	0	0	27	221	488	1016	951	744	623	222	M	9	M
59-60	0	0	35	M	385	769	832	789	930	238	130	2	M
60-61	0	0	13	242	551	1079	1121	763	951	498	172	0	4914
61-62	0	0	26	186	437	882	921	898	631	303	73	0	4283
62-63	0	0	81	198	586	987	1015	997	903	302	92	0	4703
63-64	0	0	77	149	484	1078	914	897	921	325	58	6	4444
64-65	0	1	28	287	481	784	987	823	768	378	20	29	4607
65-66	0	8	29	296	511	713	965	790	924	422	123	13	4383
66-67	0	0	34	287	500	866	744	876	644	265	191	9	4416
67-68	0	0	48	277	650	785	1003	918	494	225	109	0	4574
68-69	0	0	6	194	460	873	957	762	680	224	59	0	4215
69-70	0	0	31	253	959	893	1088	779	710	297	77	0	4686
70-71	0	0	29	162	908	803	1048	793	683	338	116	6	4442
71-72	0	0	11	89	823	615	825	848	484	357	65	19	4004
72-73	0	0	17	313	869	661	873	796	644	298	99	0	4058
73-74	0	0	6	146	647	780	722	780	519	226	93	8	3801
74-75	0	0	45	292	675	726	797	684	623	373	39	0	4056
75-76	0	0	29	126	M	794	M	512	652	M	108	9	M
76-77	0	0	M	M	M	M							
MEAN	0	0	37	229	529	836	891	769	612	292	92	7	4294

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945		0	48	32		309	333	297	246	0	8	0	M
1946	M	0	M	13	69	M	518	M	181	30	11	0	M
1947	0	0	0	M	M	209	M	420	M	M	0	0	M
1948	M	0	28	20	M	270	389	M	143	4	0	0	M
1949	0	0	8	7	89	299	478	378	102	M	0	0	M
1950	2	M	2	M	60	231	M	291	114	19	7	0	M
1951	0	0	0	22	37	238	604	M	168	48	0	0	M
1952	0	0	0	24	M	322	462	243	131	12	0	0	M
1953	0	0	0	20	179	278	482	335	156	6	0	0	1421
1954	0	0	0	26	79	268	393	328	260	123	0	0	1506
1955	0	0	0	16	127	176	513	422	161	23	1	0	1499
1956	0	0	M	51	58	267	551	389	140	16	0	0	M
1957	0	0	0	44	127	356	574	251	232	0	0	0	1614
1958	0	0	0	28	89	208	484	348	142	14	0	0	1272
1959	0	0	0	30	M	300	594	434	246	M	4	0	M
1960	0	0	0	80	61	232	534	596	173	18	0	0	1296
1961	0	0	8	53	30	223	609	543	291	19	21	0	1266
1962	0	0	8	38	164	267	599	521	97	87	0	0	1256
1963	0	0	1	33	68	244	581	594	94	12	0	0	1126
1964	0	0	0	24	139	298	591	583	140	0	0	0	1295
1965	0	0	4	170	233	368	588	520	4	0	0	0	1366
1966	0	0	6	9	90	324	449	566	131	1	2	0	1272
1967	0	0	31	68	261	582	555	105	16	0	0	0	1126
1968	0	0	1	8	43	286	661	482	168	43	0	0	1419
1969	0	0	0	14	169	339	623	567	179	29	0	0	1466
1970	0	0	0	16	139	277	589	577	267	36	0	0	1901
1971	0	0	0	0	45	291	592	519	226	52	20	3	1948
1972	0	0	0	18	86	179	609	588	179	8	4	0	1189
1973	0	0	1	27	89	363	629	416	261	36	3	0	1373
1974	0	0	4	38	97	177	592	569	149	8	10	0	1248
1975	0	0	0	10	135	290	576	486	119	41	M	0	M
1976	M	2	0	M	67	328	579	521	M	M	M	M	M
MEAN	0	0	3	28	99	270	597	503	172	23	3	0	1399

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

QUANTICO, VIRGINIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
13773	Quantico, Virginia	38°30'N	77°18'W	11	KNYG	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather office, southeast corner hangar #2105	MCAS	1948	1969	38°30'N	77°18'W	14		

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop control tower	UMQ-5		59.6'	1. Barometer, aneroid 2. Barograph (ML-3) 3. Semi-auto met sta (AN/GMQ-14) 4. Cloud height set (AN/GMQ-13B) 5. Theodolite (ML-247) 6. Transmissometer (AN/GMQ-10C)
2.	1958	500' west of runway 02/20	"	RD-108	14.0'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Puerto Rico is a tropical hilly island which lies directly in the path of the easterly trade winds throughout the year. The island is the easternmost and smallest of the Greater Antilles. It lies about 1000 miles east-southeast of Miami, Florida. North of the island lies the Atlantic Ocean, while the southern coast is bounded by the Caribbean Sea. From its easternmost to its westernmost tips it is about 109 miles, and about 40 miles north-south. The overall area is slightly larger than the states of Delaware and Rhode Island combined.

In addition to the main island, Puerto Rico also embraces 3 secondary and a number of smaller islands. The island of Puerto Rico has 4 main land regions: the central mountains, the foothills, the coastal valleys, and the coastal lowlands. Extending to the east and west coast from inland elevations are the coastal valleys. Naval Station Roosevelt Roads is located in such a valley on the eastern coast of the island.

The climate of Puerto Rico is largely governed by warm, moist northeast tradewinds. Due to this stabilizing maritime influence, deviations from seasonal patterns are seldom experienced to any marked degree. During the summer, local winds are mainly east to southeast and become east to northeast in the winter. Except for tropical cyclones, departures from this stable pattern are mainly due to easterly waves. The land and sea breeze effect is important in most coastal areas, but it is not as noticeable at places farther in the interior.

Temperature is the most stable element, with greatest annual mean monthly range being 5 degrees F. The monthly mean highs fall between 83 degrees F. to 88 degrees F. at Roosevelt Roads.

Rainfall in Puerto Rico varies markedly from place to place over relatively short distances. The majority of all Puerto Rico's rainfall consists of brief showers which are orographic in nature. There are two rainfall-producing mechanisms in Puerto Rico: easterly waves and cold fronts. During the period from May through November, Puerto Rico experiences easterly waves.

Tropical storms and hurricanes develop in the easterly waves and may cause torrential rains on Puerto Rico. The other major rainfall-producing situation occurs during the winter months, generally from about November to April. Occasionally during this period, the trailing edge of a cold front penetrates far enough south to have a definite effect upon Puerto Rico's rainfall. The distribution of rainfall over the year shows a relatively dry season and a relatively wet season. The summer season is the relatively wet season.

ROOSEVELT ROADS, PUERTO RICO

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: ROOSEVELT ROADS, P.R.
LOCATION : N18 15 W65 38

PERIOD: JAN 48-DEC 77
ELEV : 39

STN LTRS: MJNR
WBAN # : 11630
WMO # : 78535

MEAN NUMBER OF DAYS OCCURRENCE OF

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS		MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.0 OR GTR	THUNDER DAYS	VSBY FOG <7MI	MAX DEG > 90	MAX DEG > 80	F = AND < 70	MIN AND < 65
	DAILY MAX	DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	MEAN	MAX	MIN	MAX 24 HRS	MN	MAX 24 HR	MAX	04	13				PVLG DRCTN	SPEED MN	SPEED MAX										
JAN	83	72	77	90	62	9.9	10.8	1.7	4.3	0	0	0	78	66	.67	67	150	ENE	8	47	5	17	2	0	0	#	#	#	28	11	2
FEB	83	71	77	90	60	2.0	7.5	1.0	1.5	0	0	0	79	65	.67	67	100	E	8	43	5	14	1	0	0	#	#	#	25	11	2
MAR	84	72	78	89	64	2.5	6.0	.2	3.9	0	0	0	78	63	.67	67	100	E	8	41	5	12	1	0	0	#	#	0	30	10	1
APR	85	73	79	90	63	3.5	9.1	.9	4.1	0	0	0	79	65	.71	69	150	E	8	35	5	14	2	0	0	1	#	#	29	7	1
MAY	86	75	81	91	64	4.2	18.0	.5	4.6	0	0	0	82	68	.77	71	100	E	7	37	6	17	3	0	0	3	#	1	31	4	#
JUN	87	77	82	95	70	4.1	9.6	.8	2.7	0	0	0	81	68	.82	73	100	E	8	40	6	17	2	0	0	4	#	3	30	1	0
JUL	87	77	83	95	71	4.4	9.7	1.7	3.0	0	0	0	80	68	.82	73	50	E	8	55	6	20	2	0	0	5	0	3	31	1	0
AUG	88	77	83	93	68	5.7	10.0	2.4	6.4	0	0	0	81	68	.85	74	100	E	8	44	6	19	3	0	0	5	0	4	31	1	0
SEP	88	76	82	92	68	6.6	16.3	2.4	7.4	0	0	0	83	68	.85	74	150	E	6	76	6	19	3	0	0	8	#	4	30	1	0
OCT	87	75	82	92	69	7.6	27.4	2.0	8.4	0	0	0	83	69	.82	73	200	E	5	38	6	19	4	0	0	7	0	3	31	2	0
NOV	86	74	80	93	66	4.5	19.4	1.9	5.5	0	0	0	82	68	.77	71	200	E	6	41	6	19	3	0	0	3	#	1	30	4	#
DEC	84	73	78	91	63	4.7	11.3	1.9	3.2	0	0	0	79	67	.71	69	150	ENE	7	40	5	19	2	0	0	1	#	#	30	8	1
ANN	85	74	80	95	60	57.3	27.4	.2	8.4	0	0	0	80	67	.77	71	200	E	7	76	5	206	28	0	0	37	#	19	356	61	7
EYR	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23		23	23	23	23	23	23	23	23	23	23	23	23	23

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	02	23	24	24	22	26	25	25	21	19	18	20	22	22	23
LESS 5000	05	23	24	22	24	25	24	26	18	17	19	20	22	22	23
FT AND/OR	08	21	25	25	29	33	28	26	23	18	19	16	24	24	23
VISIBILITY	11	20	19	21	23	25	22	21	19	19	19	18	21	21	23
LESS 5 MI	14	24	21	20	23	24	19	18	17	19	19	21	22	21	23
	17	20	23	22	27	25	22	20	21	18	18	21	24	22	23
	20	22	21	21	22	24	19	23	19	18	18	20	20	21	23
	23	20	21	21	23	25	17	19	16	17	15	19	21	20	23
	ALL HRS	22	22	22	24	26	22	22	19	18	18	19	22	21	23
CEILING	02	2	3	5	5	3	2	2	1	2	3	2	2	3	23
LESS 1000	05	2	3	4	4	3	2	2	1	2	2	2	2	2	23
FT AND/OR	08	2	3	5	5	3	3	3	3	3	2	3	3	3	23
VISIBILITY	11	2	3	4	5	5	3	3	3	3	3	3	4	3	23
LESS 3 MI	14	2	4	5	6	5	3	3	3	4	4	4	4	4	23
	17	3	4	6	6	5	3	3	2	4	4	5	4	4	23
	20	2	4	5	5	3	2	2	2	3	2	3	3	3	23
	23	2	4	4	4	3	2	2	1	2	3	2	2	3	23
	ALL HRS	2	4	5	5	4	2	2	2	3	3	3	3	3	23
CEILING	02	1	3	4	4	2	2	2	1	2	2	2	2	2	23
LESS 500	05	2	3	4	4	2	2	2	1	2	2	2	2	2	23
FT AND/OR	08	2	3	4	5	3	3	3	2	2	2	3	3	3	23
VISIBILITY	11	2	3	4	5	4	3	3	3	3	3	3	4	3	23
LESS 1 MI	14	2	4	5	5	5	2	3	3	3	3	4	4	4	23
	17	2	4	6	5	5	3	3	2	3	3	4	4	4	23
	20	2	4	5	4	3	2	2	2	2	3	2	3	3	23
	23	2	4	4	4	3	2	2	1	2	3	2	2	2	23
	ALL HRS	2	4	5	5	3	2	2	2	2	3	3	3	3	23
CEILING	02	1	3	4	4	2	2	2	1	2	2	2	2	2	23
LESS 100	05	2	3	4	4	2	2	2	1	2	2	1	2	2	23
FT AND/OR	08	2	3	4	5	3	3	3	2	2	2	3	3	3	23
VISIBILITY	11	2	3	4	5	4	3	3	3	3	3	3	4	3	23
LESS 1/4 MI	14	2	4	5	5	5	2	3	3	3	3	4	4	4	23
	17	2	4	6	5	5	2	3	2	3	3	4	4	4	23
	20	2	4	5	4	3	2	2	1	2	2	2	3	3	23
	23	2	4	4	4	3	2	2	1	2	3	2	2	2	23
	ALL HRS	2	4	5	5	3	2	2	2	2	3	3	3	3	23

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1948	76.4	75.8	76.4	76.7	80.2	83.0	83.6	83.0	81.9	80.6	79.6	78.1	79.5
1949	76.8	75.8	75.9	78.4	80.1	82.8	83.9	82.0	80.7	80.1	79.0	76.8	78.7
1950	76.2	76.2	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	82.5	82.7	82.3	81.2	79.3	77.7	M
1958	76.3	76.2	79.4	80.6	81.3	83.0	83.6	83.2	83.3	81.8	80.9	79.4	80.7
1959	78.1	77.3	78.9	79.6	79.3	81.8	82.7	82.9	82.8	81.6	80.3	80.2	80.5
1960	77.5	77.7	78.3	79.8	81.7	83.6	83.1	82.3	81.5	82.3	79.6	77.7	80.5
1961	76.6	76.3	79.1	80.4	81.4	81.9	83.4	83.6	82.9	80.4	77.3	77.0	80.0
1962	76.9	75.7	78.0	78.6	80.0	81.8	83.4	82.5	82.9	80.9	79.7	78.5	79.9
1963	77.5	76.4	77.9	77.6	79.3	80.3P	82.6	83.0	82.3	82.3	81.0	80.8	M
1964	78.6	79.4	79.7	79.7	82.5	83.3	83.9	82.9P	82.8	81.7	81.4	78.2	M
1965	77.0	78.4	80.2	78.3	79.3	81.2	82.8	82.6	81.5	81.1	79.9	77.6	80.0
1966	77.4	76.6	79.0	79.3	80.3	82.6	83.1	82.9	82.7	81.3	79.6	77.8	80.1
1967	76.4	77.1	78.0	76.7	78.7	79.7	80.9	81.0	82.9	82.2	80.7	78.1	79.2
1968	77.0	77.0	77.4	78.2	81.8	82.5	82.5	84.4	83.4	81.9	80.8	78.8	80.5
1969	78.0	78.7	79.0	81.0	82.0	83.9	83.4	81.9	82.6	82.3	80.9	80.5	81.0
1970	80.7	79.6	77.6	78.9	78.8	83.1	83.1	83.3	83.3	81.3	79.5	79.0	80.4
1971	78.2	76.3	77.6	78.9	79.8	82.0	82.9	82.1	81.7	80.2	79.1	76.5	79.6
1972	78.3	78.9	77.4	79.5	80.6	81.8	81.6	81.5	81.0	80.7	79.9	77.5	79.6
1973	76.0	73.9	76.1	77.3	78.9	82.9	82.9	81.3	82.1	81.4	79.9	76.6	79.1
1974	76.6	77.2	78.1	78.6	80.0	80.8	81.3	82.9	81.6	80.7	78.9	77.9	79.7
1975	76.7	77.3	77.2	78.7	79.2	81.2	82.5	82.6	82.0	81.1	79.1	76.6	79.5
1976	76.9	75.7	78.1	77.2	79.9	81.6	83.1P	82.3	82.1	81.3	81.2	78.5	M
1977	77.4	78.0	78.0	79.0	81.2	83.0	83.1	82.0	82.1	81.9	79.7	79.0	80.6
MEAN	77.0	76.8	77.8	78.8	80.2	82.1	82.4	82.3	82.2	81.3	79.9	78.2	79.9

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1948	2.04	2.78	2.98P	1.88P	6.38	6.61	8.97	3.27	7.78	7.82	11.62	3.98	M
1949	2.61	1.40	5.38	2.08	2.87	6.46	7.41	5.84	14.35	10.65	3.67	4.81	66.52
1950	4.46	7.68	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	4.90	6.48P	9.86	2.01	9.82	6.67	M
1958	10.82	1.71	.23	4.99	11.16	9.72	9.71	9.96	4.76	7.82	4.99	2.03	68.70
1959	2.27	2.22	1.76	2.27	12.20	3.10	3.82	5.21	6.88	3.85	2.17	4.32	52.54
1960	2.38	1.38	8.96	9.14	4.40	5.72	8.44	10.84	10.27	5.08	9.77	11.28	86.98
1961	4.14	2.63	1.85	2.86	4.61	2.30	4.08	5.82	4.37	10.08	7.93	9.28	57.17
1962	2.49	1.86	2.57	5.97	6.82	9.61	4.55	9.79	7.30	6.79	2.21	1.99	66.15
1963	2.00	2.08	2.04	6.40	6.40	2.73	3.85	4.86	2.71	2.03	2.34	2.02	43.46
1964	1.92	1.66	2.14	4.26	1.60	3.08	6.26	4.02P	2.88	4.44	2.05	2.17	M
1965	1.69	1.38	.98	1.90	11.18	9.00	3.15	6.76	8.77	6.73	5.24	8.31	58.26
1966	1.87	1.86	2.78	4.36	3.38	3.44	4.14	4.26	6.68	7.16	6.96	9.08	51.01
1967	3.93	1.94	2.11	.97	3.19	9.73	2.77	2.43	2.33	2.94	8.24	1.92	38.32
1968	2.32	1.70	.42	1.44	3.59	9.78	4.23	3.69	3.64	3.12	4.58	4.94	39.45
1969	6.36	9.51	6.03	3.83	17.99	4.21	6.47	3.88	8.02	7.10	11.36	2.98	89.10
1970	2.03	1.88	1.30	2.48	16.12	7.40	4.09	8.92	4.21	27.42	8.86	11.01	95.16
1971	3.96	2.88	1.13	2.96	7.81	3.78	2.25	4.91	5.44	7.67	2.38	3.97	47.09
1972	5.88	1.69	2.08	2.39	1.98	2.91	1.80	2.97	5.09	5.79	1.86	2.99	35.98
1973	1.88	1.28	.65	3.87	.48	1.28	2.85	3.93	4.22	7.87	2.28	2.68	33.78
1974	2.53	1.26	2.68	3.79	.88	.75	1.75	6.18	7.14	17.72	10.44	3.08	67.82
1975	2.56	1.08	5.87	2.90	4.21	2.19	2.82	3.82	14.72	6.32	5.99	10.11	61.79
1976	3.99	1.31	2.07	9.12	4.15	2.82	1.28P	8.93	8.80	2.72	2.16	M
1977	3.18	1.18	3.18	1.74	3.82	2.85	2.84	7.68	6.28	13.80	13.96	2.17	80.46
MEAN	3.52	1.99	2.69	3.93	6.24	4.11	4.42	5.71	6.59	7.62	6.46	4.70	57.35

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
47-48							0	0	0	0	0	0	M
48-49	0	0	0	0	0	0	0	0	0	0	0	0	0
49-50	0	0	0	0	0	0	0	0	M	M	M	M	M
50-51	M	M	M	M	M	M	M	M	M	M	M	M	M
56-57	M	M	M	M	M	M	M	M	M	M	M	M	M
57-58	0	0	0	0	0	0	0	0	0	0	0	0	0
58-59	0	0	0	0	0	0	0	0	0	0	0	0	0
59-60	0	0	0	0	0	0	0	0	0	0	0	0	0
60-61	0	0	0	0	0	0	0	0	0	0	0	0	0
61-62	0	0	0	0	0	0	0	0	0	0	0	0	0
62-63	0	0	0	0	0	0	0	0	0	0	0	M	M
63-64	0	0	0	0	0	0	0	0	0	0	0	0	0
64-65	0	M	0	0	0	0	0	0	0	0	0	0	M
65-66	0	0	0	0	0	0	0	0	0	0	0	0	0
66-67	0	0	0	0	0	0	0	0	0	0	0	0	0
67-68	0	0	0	0	0	0	0	0	0	0	0	0	0
68-69	0	0	0	0	0	0	0	0	0	0	0	0	0
69-70	0	0	0	0	0	0	0	0	0	0	0	0	0
70-71	0	0	0	0	0	0	0	0	0	0	0	0	0
71-72	0	0	0	0	0	0	0	0	0	0	0	0	0
72-73	0	0	0	0	0	0	0	0	0	0	0	0	0
73-74	0	0	0	0	0	0	0	0	0	0	0	0	0
74-75	0	0	0	0	0	0	0	0	0	0	0	0	0
75-76	0	0	0	0	0	0	0	0	0	0	0	0	0
76-77	M	0	0	0	0	0	0	0	0	0	0	0	M
77-78	0	0	0	0	0	0							
MEAN	0	0	0	0	0	0	0	0	0	0	0	0	0

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1948	356	321	359	358	476	367	369	382	311	490	442	432	4201
1949	310	296	364	407	473	479	501	358	498	478	426	395	5083
1950	292	266	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	551	595	526	506	441	402	M
1958	356	320	451	476	514	546	593	572	524	530	488	485	5812
1959	414	356	439	445	448	510	559	546	540	523	446	476	5788
1960	406	378	424	493	526	563	538	544	496	549	474	401	5767
1961	423	376	447	467	512	513	521	592	483	486	372	382	5528
1962	377	345	390	416	473	502	401	578	530	500	480	427	5509
1963	394	378	408	385	416	M	545	560	521	542	487	496	M
1964	421	431	462	448	530	558	563	M	539	523	498	418	M
1965	381	382	479	405	456	491	527	593	511	508	482	399	5374
1966	391	352	441	437	490	530	567	559	527	518	414	404	5880
1967	362	344	398	433	465	488	504	544	539	496	419	353	5252
1968	378	352	391	406	530	531	569	607	560	531	481	488	5769
1969	409	356	440	488	533	573	576	527	521	547	486	478	5922
1970	404	333	397	425	454	569	566	579	564	511	442	441	5785
1971	419	369	396	422	487	518	544	599	508	480	482	382	5806
1972	327	319	389	440	490	507	514	518	487	498	455	390	5389
1973	368	295	368	376	439	547	562	511	521	514	452	388	5217
1974	373	348	447	416	475	479	520	593	502	402	422	485	5062
1975	367	370	389	416	480	492	547	551	517	504	434	381	5373
1976	316	370	381	378	460	497	M	542	518	520	492	416	M
1977	391	371	410	483	509	547	588	594	521	517	448	483	5991
MEAN	379	358	408	430	479	520	549	591	522	513	459	413	5960

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

ROOSEVELT ROADS, PUERTO RICO

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
11630	Roosevelt Roads, P.R.	18°15'N	65°38'W	39	MJNR	78535

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Unknown	Navy			18°15'N	65°38'W	66.7	Unknown	
2.	Aerological Office	"		1959	"	"	33	Mercurial	
3.	Meteorological office ops bldg	"	1959	1963	"	"	37	"	
4.	" " " "	"	1963	1964	"	"	33	"	
5.	South bulkhead of met. office	"	1964	1977	"	"	36	"	
6.	Central partition of met office	"	1977		"	"	36	"	
1a.	AN/GMQ-14A console	"	1965	1975	"	"	38	Aneroid	
2a.	AN/GMQ-29 auto met station	"	1975		"	"	38	"	

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Control tower	PMQ-3		90' MSL	1. Barograph (marine)
2.	Prior 1960	Roof of ops tower	Unknown		87' MSL	2. Auto met station (AN/GMQ-29)
3.	1960	300'SE of the edge of runway 06-24 near east end of airfield	AN/UMQ-5	RD-108B	Unknown	3. Ceiling light (ML-121-D)
4.	1963	Extended mast	"	"	28' MSL	4. Theodolite (Aero 1937 USN)
5.	1971	450'E of operations building	"	"	41' MSL	5. Radar (FPS-106)

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

U.S. Fleet Weather Central Rota is located on the Naval Base, Rota, Spain, along the northern shore of the Bay of Cadiz approximately 60 miles northwest of Gibraltar.

Rota has a mediterranean/subtropical dry climate, characterized by hot, dry summers and rainy, cool winters. Maritime influences play an important role in the local climate as evidenced by the relatively narrow mean annual temperature range. Yet, continental influences are evidenced by an absolute annual temperature range of over 80 degrees F.

During the winter season (Nov-Mar) most of the rainfall is recorded. Cloudiness and low visibilities are at a maximum, but even so, a third of the days are sunny with clear, cool nights. Prevailing winds are from easterly quadrants, but the highest winds are usually from the west during passage of Atlantic frontal systems. Thunderstorms occur most frequently at night or early morning during and following passage of these frontal systems. Freezing temperatures are rare and occur only on clear mornings, and temperatures rise to well above freezing by mid-day. Snowfall is extremely rare.

The spring transition period (Apr-May) is marked by a sharp increase in cloudiness, precipitation and a wider diurnal temperature range. Afternoon sea breezes become common.

Summer is the dry season. June's rain averages less than an inch, and rain is scarce to nonexistent in July and August. The prevailing winds are west to southwest sea breezes. Unpleasant weather is generally limited to Levantes. A Levante is a local southeast wind resulting from funneling through the Strait of Gibraltar. Its dryness and gustiness interrupt the normal sea breeze. Levantes occur most frequently in summer and can last up to two weeks. The prevailing summer sea breeze generally limits maximum temperatures to the mid 80's. Temperatures reach the low 90's during Levantes and can exceed 100 degrees F. on days with northeast winds.

The autumn transition period (Sep-Oct) marks the beginning of the rainy season. Summery weather can last unbroken well into October, but more commonly significant rains begin in late September. Cloudiness increases markedly and by late October the occurrence of heavy morning fogs is significant.

ROTA, SPAIN

PREPARED BY: NHSO ASHEVILLE
JUNE 1978

STATION NAME: ROTA, SPAIN
LOCATION : N36 39 W06 21

PERIOD: OCT 58-DEC 77
ELEV : 86

STN LTRS: LRAT
WBAN # : 13025
WMO # : 08449

MEAN NUMBER OF DAYS OCCURRENCE OF

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	13	VAPOR PRESS AT 1N OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	MAX	MEAN AMT GLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER DAYS R	VISIBILITY BY FOG 7MI	MAX DEG > 90	> 75	MIN AND < 40	< 32
JAN	61	46	53	72	28	3.2	9.1	.1	1.8	#	#	#	86	73	.32	47	550	E	7	49	5	11	2	0	0	1	11	0	0	8	1
FEB	62	47	55	77	32	2.8	6.7	.2	1.9	0	0	0	83	70	.32	47	600	W	7	49	5	10	1	0	0	2	8	0	8	4	0
MAR	65	48	57	79	34	2.6	5.6	.1	2.1	0	0	0	79	63	.34	48	550	W	8	51	5	9	2	0	0	2	6	0	1	2	0
APR	69	51	60	88	38	1.5	4.2	#	1.3	0	0	0	78	59	.35	49	500	W	7	41	5	7	1	0	0	2	5	0	5	1	0
MAY	75	56	66	96	43	1.4	3.9	#	2.0	0	0	0	73	54	.40	53	400	W	7	44	4	5	1	0	0	1	4	1	14	0	0
JUN	79	61	70	101	47	.6	1.4	#	1.3	0	0	0	74	55	.47	57	250	W	7	37	3	3	#	0	0	1	4	3	21	0	0
JUL	84	65	75	108	51	.1	1.6	.0	1.6	0	0	0	73	53	.54	61	250	W	7	55	1	#	#	0	0	#	4	7	29	0	0
AUG	85	66	76	106	51	.1	1.0	.0	1.0	0	0	0	73	52	.54	61	250	W	7	39	1	1	#	0	0	#	4	8	30	0	0
SEP	81	62	72	106	46	.8	3.4	.0	1.3	0	0	0	76	55	.50	59	250	W	7	39	3	3	#	0	0	1	5	3	25	0	0
OCT	75	58	66	93	40	2.9	9.6	#	3.3	0	0	0	79	59	.45	56	350	E	7	55	4	7	2	0	0	2	6	#	14	#	0
NOV	66	50	58	83	32	3.5	14.2	.4	2.7	0	0	0	82	66	.36	50	500	E	7	53	5	9	2	0	0	2	7	0	2	2	#
DEC	61	45	53	73	25	3.8	13.4	.4	2.5	#	#	#	85	72	.32	47	650	E	7	58	5	11	2	0	0	2	9	0	0	8	1
ANN	72	55	63	108	25	23.3	14.2	.0	3.3	#	#	#	78	61	.40	53	450	W	7	58	4	76	13	0	0	16	73	22	141	25	2
EYR	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	20	20	19	19	19	19

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	24	24	18	15	15	12	5	2	8	10	17	23	14	19
LESS 5000	04	26	24	22	21	18	15	9	5	12	14	17	22	17	19
FT AND/OR	07	32	26	25	26	24	24	15	10	15	18	20	25	22	19
VISIBILITY	10	32	27	26	23	25	25	14	13	17	19	23	29	23	19
LESS 5 MI	13	27	29	22	21	18	14	6	4	10	14	21	27	18	19
	16	28	26	22	15	14	8	4	2	6	13	22	29	16	19
	19	27	26	21	12	12	7	3	2	4	12	21	27	14	19
	22	23	22	17	14	11	8	2	3	6	12	17	23	13	19
	ALL HRS	27	26	22	18	17	14	7	5	10	14	20	26	17	19
CEILING	01	6	4	3	2	2	2	1	0	2	2	2	2	2	19
LESS 1000	04	7	5	4	3	3	2	2	1	3	2	3	3	3	19
FT AND/OR	07	9	7	4	4	4	4	3	3	3	4	4	4	4	19
VISIBILITY	10	9	7	3	3	3	2	1	3	1	3	4	4	4	19
LESS 3 MI	13	6	4	3	1	1	1	1	0	1	1	2	3	2	19
	16	5	3	2	1	1	0	0	0	1	1	2	3	2	19
	19	6	3	1	1	0	0	0	0	0	2	3	2	2	19
	22	4	3	1	1	1	1	0	0	1	1	1	2	1	19
	ALL HRS	6	4	3	2	2	2	1	1	1	2	3	3	2	19
CEILING	01	2	1	0	0	0	0	0	0	0	0	0	1	0	19
LESS 300	04	3	2	1	0	0	0	0	0	0	1	1	1	1	19
FT AND/OR	07	4	3	1	1	0	0	1	1	1	1	1	2	1	19
VISIBILITY	10	4	2	1	0	0	0	0	0	0	1	1	1	1	19
LESS 1 MI	13	1	1	0	0	0	0	0	0	0	0	0	0	0	19
	16	1	0	0	0	0	0	0	0	0	0	0	0	0	19
	19	1	0	0	0	0	0	0	0	0	0	0	1	0	19
	22	2	1	0	0	0	0	0	0	0	0	0	0	0	19
	ALL HRS	2	1	0	0	0	0	0	0	0	0	0	1	1	19
CEILING	01	1	1	0	0	0	0	0	0	0	0	0	1	0	19
LESS 200	04	2	2	1	0	0	0	0	0	0	1	1	1	1	19
FT AND/OR	07	4	3	1	1	0	0	1	1	1	1	1	1	1	19
VISIBILITY	10	3	2	0	0	0	0	0	0	0	1	1	1	1	19
LESS 1/2 MI	13	0	0	0	0	0	0	0	0	0	0	0	0	0	19
	16	0	0	0	0	0	0	0	0	0	0	0	0	0	19
	19	1	0	0	0	0	0	0	0	0	0	0	0	0	19
	22	1	0	0	0	0	0	0	0	0	0	0	0	0	19
	ALL HRS	2	1	0	0	0	0	0	0	0	0	0	1	0	19

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1958	M	M	M	M	M	M	M	M	M	66.4	58.2	54.4	M
1959	53.9	52.0	57.2	60.2	68.8	70.1	76.8	78.2	70.8	66.0	58.2	53.9	63.8
1960	51.9	49.2	58.2	61.8	67.2	72.7	78.0	78.7	72.0	63.5	59.7	51.1	63.6
1961	51.3	48.9	55.4	62.1	68.6	71.3	76.6	79.0	74.1	65.6	58.2	57.3	65.0
1962	55.0	53.5	57.2	61.4	68.8	70.9	76.6	78.2	74.7	69.3	59.7	52.7	64.1
1963	55.0	53.0	57.2	61.4	68.5	70.0	75.5	76.0	69.2	67.6	59.7	53.8	63.5
1964	51.9	53.5	57.2	60.4	68.6	72.3	78.0	79.6	80.4	66.6	57.7	50.9	65.0
1965	51.6	52.6	58.2	62.2	69.3	70.4	69.2	71.4	69.7	67.0	58.7	53.0	62.3
1966	55.6	54.8	59.7	61.6	68.6	70.7	72.1	73.2	76.9	69.7	52.8	51.2	63.2
1967	52.0	53.2	59.9	60.0	69.3	72.9	78.7	79.4	69.8	66.5	58.1P	49.8	M
1968	50.1	54.7	55.5	59.7	66.2	70.1	74.9	76.0	72.0	69.2	61.4	54.2	63.4
1969	55.2	54.6	57.6	59.8	69.9	68.6	76.8	78.1	69.2	66.5	58.1	49.6	62.9
1970	55.1	53.3	56.4	60.8	66.7	67.9	73.7	72.8	73.9	65.1	61.4	48.9	62.8
1971	51.9	54.2	55.9	57.9	61.6	67.3	74.3	69.7	70.9	69.1	55.9	51.1	61.3
1972	50.3	52.8	54.9	58.0	62.8	68.3	72.3	72.8	68.2	69.1	58.9	53.4	61.2
1973	52.6	51.8	55.4	60.6	67.8	69.3	73.2	70.7	70.7	64.5	61.4	51.4	62.9
1974	54.6	53.3	58.6	64.1	71.4	70.5	76.9	69.3	70.9	68.9	58.9	55.3	63.0
1975	53.7	48.9	54.2	58.7	69.3	68.6	77.4	77.4	69.3	63.2	58.1	53.6	62.5
1976	50.1	54.2	59.4	56.9	64.4	73.3	77.1	78.6	70.8	64.2	55.3	50.9	63.1
1977	54.8	52.8	58.1	61.4	66.2	68.7	71.7	72.7	74.4	67.8	59.6	59.6	65.9
MEAN	53.1	54.6	56.9	59.9	68.4	70.0	74.8	75.2	71.5	66.0	58.2	53.2	63.2

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1958	M	M	M	M	M	M	M	M	M	1.43	2.62	11.93	M
1959	2.02	1.43	3.41	1.29	1.67	.02	T	.14	.11	1.91	3.46	1.06	16.92
1960	2.54	4.38	5.60	1.14	2.09	.08	.00	T	.29	8.93	2.31	1.72	28.98
1961	1.48	.26	3.20	.93	3.76	.22	T	T	1.30	1.91	14.21	4.10	31.54
1962	2.09	1.40	4.47	1.30	1.32	.84	.00	T	.05	9.38	3.97	6.00	32.28
1963	7.24	9.98	1.34	2.84	1.90	.46	.00	.00	.47	1.08	3.42	13.42	35.73
1964	1.93	1.61	2.38	1.22	1.28	.66	T	T	.37	.08	2.68	3.04	17.00
1965	1.99	2.81	2.40	.21	.01	1.28	.00	.00	2.83	4.43	3.46	1.16	20.98
1966	2.42	3.13	.05	1.33	.18	.62	T	.00	1.32	2.66	2.33	.50	19.04
1967	2.13	3.72	.76	.91	1.47	.29	.01	.01	.11	3.61	7.27P	.91	M
1968	.06	6.66	3.33	.93	.87	.40	.02	.43	.21	1.20	4.28	2.29	20.70
1969	4.13	6.48	5.42	1.86	.84	1.19	.02	T	1.69	3.79	7.37	1.58	34.21
1970	9.14	.38	1.38	.76	1.38	1.29	.00	T	T	1.02	1.44	3.63	20.44
1971	4.24	.20	1.54	4.11	3.89	.92	T	1.02	T	T	1.49	1.22	18.23
1972	5.44	2.68	3.92	.81	.24	.22	.04	T	.99	9.37	3.27	4.72	29.46
1973	2.52	.86	1.58	.19	2.86	.23	T	.02	.00	.76	2.08	4.01	14.90
1974	1.28	.96	1.96	4.16	.11	1.37	.01	T	.39	2.72	.67	13.33
1975	2.89	9.93	2.83	1.68	.32	.22	T	T	.32	.12	.35	3.94	18.42
1976	1.01	1.26	2.64	5.40	1.35	.02	.01	.02	2.35	6.39	.00	3.94	25.07
1977	4.40	3.91	.27	.03	.09	.76	1.37	T	.12	2.92	4.26	5.07	22.00
MEAN	3.15	3.76	2.55	1.50	1.38	.57	.09	.12	.79	2.83	3.51	3.89	23.06

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
57-58													M
58-59	M	M	M	12	199	260	278	395	237	137	54	4	M
59-60	0	0	0	43	199	356	401	291	200	97	29	0	1336
60-61	0	0	0	53	154	423	418	221	172	86	5	4	1536
61-62	0	0	0	43	201	232	300	314	235	101	37	2	1463
62-63	0	0	2	4	270	376	302	330	230	108	36	2	1658
63-64	0	0	2	10	159	340	401	246	235	165	0	1	1577
64-65	0	0	0	38	214	430	404	348	208	94	7	6	1749
65-66	5	3	31	6	186	363	282	225	281	102	12	0	1496
66-67	0	0	0	81	357	422	396	268	190	147	41	0	1862
67-68	0	0	2	31	M	462	456	291	289	193	64	3	M
68-69	0	0	0	0	104	350	297	293	225	155	62	5	1471
69-70	0	0	0	13	264	471	299	316	321	134	32	6	1856
70-71	0	0	1	60	110	493	396	294	359	207	109	20	2029
71-72	0	1	0	2	327	421	448	347	329	202	119	41	2230
72-73	0	0	6	37	175	356	377	365	294	129	4	6	1749
73-74	0	0	1	52	116	414	317	316	329	264	40	0	1837
74-75	0	0	1	148	178	294	342	220	325	173	104	17	1761
75-76	0	0	12	55	287	344	435	307	287	238	47	0	1994
76-77	0	0	0	73	284	244	309	290	208	125	57	16	1566
77-78	0	0	0	9	169	199							
MEAN	0	0	3	38	200	358	362	292	258	152	51	7	1721

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1958										66	4	0	N
1959	0	0	0	2	24	163	312	321	182	82	3	0	1089
1960	0	6	0	6	105	255	316	274	210	12	0	0	1172
1961	0	0	9	8	123	199	364	438	277	66	4	0	1488
1962	0	0	0	1	70	186	309	413	299	142	0	0	1418
1963	0	0	0	4	60	137	331	288	134	98	6	0	1078
1964	0	0	0	36	161	225	407	446	469	93	3	0	1840
1965	0	0	3	13	168	176	80	207	96	76	3	0	766
1966	0	0	0	3	126	179	226	322	302	69	0	0	1207
1967	0	0	2	4	89	246	340	388	191	89	M	0	M
1968	0	0	0	1	46	163	313	287	218	137	4	0	1169
1969	0	0	0	3	33	120	368	382	111	69	4	0	1062
1970	0	0	0	7	80	99	338	240	273	70	9	0	1123
1971	0	0	0	0	4	99	298	134	103	136	1	0	875
1972	0	0	0	0	59	93	239	248	109	49	0	0	793
1973	0	0	0	7	97	161	280	371	179	43	13	0	1111
1974	0	0	0	0	83	198	484	390	137	28	0	0	1320
1975	0	0	0	0	0	132	392	390	164	70	6	0	1154
1976	0	0	0	0	27	261	384	422	181	34	0	0	1309
1977	0	0	0	24	40	93	212	248	207	101	12	0	937
MEAN	0	0	1	6	70	164	311	324	204	76	4	0	1162

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

ROTA, SPAIN

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
13025	Rota, Spain	36°39'N	06°21'W	86	LERT	08449

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	South bulkhead in weather clearance office	Navy	1958	1966	36°39'N	06°21'W	88	Mercurial	24
2.	North bulkhead in weather clearance office	"	1966	1970	"	"	99	"	24
3.	West bulkhead in weather clearance office	"	1971	1973	"	"	99	"	24
1a.	North bulkhead in weather clearance office	"	1966	1969	"	"	101	Aneroid	24
2a.	West bulkhead in weather clearance office	"	1969		"	"	101	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1959	645 feet south of the runway centerline and near the mid point between taxiway and parking apron	UMQ-5	RD-108	15'	1. Marine barograph 2. Auto met station (AN/GMQ-29) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13B) 5. Theodolite (ML-247) 6. APT (AN/GKR-4)
2.	1977	750 feet north of the runway centerline and 900 feet east of the TACAN trailer	"	AN/GMQ-29	15'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

San Clemente Island is the southernmost island of the "Channel Islands". It is situated about 75 miles west-northwest of San Diego and 54 miles south-southwest of Long Beach, California.

The island stretches northwest to southeast for 26 miles, and is approximately 7 miles wide. The eastern side, toward the California coast, plunges sharply into the ocean in vertical lava cliffs. The western side is less steep.

The climate of San Clemente Island is distinctly maritime, featuring cool summers and mild winters. High humidities are experienced throughout the year with an annual average of 80%. No temperatures below freezing have ever been recorded at the location of the weather station but atop the higher points of the island such temperatures likely have occurred.

Temperatures above 90 degrees F. are a rarity, but occasionally when Santa Ana conditions prevail in August through October temperatures exceeding 90 degrees and even 100 degrees F. have been recorded. Fortunately, when such high temperatures occur the relative humidity values are quite low, generally less than 25%.

One of the outstanding features of the climate is the small range in average temperature, both diurnal and seasonal. For example, the mean temperature in the winter months is just 10 degrees F. lower than the mean temperatures of the summer months. The daily temperature ranges are about 10 degrees F. also.

Stormy winds and gales are infrequent on San Clemente island at lower elevations. Atop the higher regions of the island gale force winds are more common. The average wind speeds for all months are under 10 knots at the airfield. The predominate wind direction is from the west in all months, with short periods of northerly to easterly winds associated with Santa Ana conditions. The highest wind on record is WNW - 45 knots in April 1976.

Annual precipitation averages between 5 and 8 inches. The wettest months are November through March and the driest from June through September. Snowfall is a rarity on the island with a trace noted once in November and also in December. Occasionally small hail will accompany the passage of a more vigorous cold front.

The cloudiest period is in the spring and summer months when the air is more stable. June and July are the foggiest months. Low clouds and fog are not infrequent in the winter months, but the percentage of occurrence is lower due to increased winds associated with the passage of westerly disturbances. On most days the low clouds will "burn off" by late morning.

Thunderstorms are infrequent with only 1 or 2 normally experienced per year. Occasionally air mass thunderstorms drift up from the south in connection with tropical storm activity along the west coast of Mexico. Except during periods of low clouds and fog, visibilities are generally quite good with surrounding islands frequently visible and periodically the mainland itself is visible.

SAN CLEMENTE ISLAND, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: SAN CLEMENTE, CALIFORNIA
LOCATION : N33 01 W118 35

PERIOD: APR 63-DEC 77
ELEV : 108

STN LTRS: KNUC
WBAN # : 93117
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON	EXTREMES MAX	MIN	PRECIPITATION INCHES MONTH MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX 24 HR	MAX	RELATIVE HUM LST 04	13	VAPR ESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER STORMS	VSBY FOG < 7MI	MAX DEG > 90	> 75	MIN AND < 65	< 45
JAN	62	50	56	84	36	1.3	3.6	.0	1.4	0	0	0	81	63	.31	46	350	WNW	6	41	5	6	1	0	0	0	10	0	1	31	5
FEB	62	51	57	80	43	.8	4.1	#	1.0	0	0	0	84	67	.34	48	400	WNW	6	44	5	4	#	0	0	0	9	0	1	28	2
MAR	62	51	57	79	39	.7	1.8	#	.9	0	0	0	83	64	.34	48	400	W	8	42	5	4	#	0	0	#	8	0	#	31	2
APR	63	52	58	85	44	.6	2.7	#	2.0	0	0	0	83	63	.35	49	350	W	8	45	5	4	#	0	0	#	6	0	1	30	1
MAY	63	54	59	85	46	.2	1.7	#	1.1	0	0	0	84	68	.37	51	350	W	7	37	7	1	#	0	0	0	10	0	1	31	#
JUN	66	57	62	90	52	#	.3	.0	.2	0	0	0	87	70	.42	54	400	W	7	31	7	1	0	0	0	0	12	#	1	30	0
JUL	69	60	64	86	52	#	.4	.0	.4	0	0	0	89	71	.47	57	350	W	6	24	7	#	0	0	0	#	13	0	2	30	0
AUG	71	62	67	85	55	.2	2.3	.0	2.0	0	0	0	87	71	.50	59	400	W	6	28	7	#	0	0	0	#	11	0	5	28	0
SEP	70	61	66	102	54	.3	1.7	.0	1.1	0	0	0	86	70	.49	58	450	W	6	29	6	1	#	0	0	#	11	#	3	28	0
OCT	69	59	64	94	44	.1	.3	#	.3	0	0	0	86	67	.45	56	350	W	5	41	5	2	#	0	0	#	12	#	4	31	#
NOV	66	55	61	90	41	1.1	5.3	#	1.4	#	#	#	84	66	.39	52	400	WNW	6	40	5	4	1	0	0	#	10	#	1	30	1
DEC	62	51	57	77	40	.9	3.1	.1	1.7	#	#	#	83	67	.34	48	400	WNW	6	44	4	5	1	0	0	#	12	0	#	31	3
ANN	65	55	61	102	36	6.2	5.3	.0	2.0	#	#	#	85	67	.39	52	450	W	6	45	6	32	3	0	0	#	124	#	20	359	14
EYR	15	15	15	15	15	15	15	15	15	15	15	15	16	16	16	16	16		16	16	15	15	15	15	15	15	15	15	15	15	15

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA %	HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	31	31	35	37	64	73	73	68	58	42	34	25	48	14
LESS 5000	04	32	35	35	41	68	80	83	73	65	48	34	26	52	15
FT AND/OR	07	38	44	51	53	73	86	85	79	72	55	46	38	60	17
VISIBILITY	10	36	38	49	43	65	76	68	65	62	46	43	33	52	18
LESS 5 MI	13	35	34	41	36	54	65	51	46	48	38	38	32	43	17
	16	33	35	40	36	55	66	58	50	50	37	36	31	44	17
	19	32	31	37	38	60	68	71	63	55	41	33	28	47	15
	22	30	29	31	33	60	68	67	63	54	40	34	25	45	15
	ALL HRS	34	35	40	40	63	73	69	63	58	43	38	30	49	16
CEILING	01	16	16	13	14	27	35	51	48	33	21	20	12	26	14
LESS 1000	04	18	18	14	14	28	38	59	51	35	23	18	12	28	15
FT AND/OR	07	20	21	20	19	26	40	52	46	36	28	22	18	29	17
VISIBILITY	10	18	18	18	14	20	29	35	28	24	19	20	15	22	18
LESS 3 MI	13	18	19	15	14	15	21	26	22	18	15	19	15	18	17
	16	19	21	17	16	19	28	30	26	24	19	19	17	21	17
	19	18	17	17	15	25	34	45	38	30	22	19	16	25	15
	22	17	16	14	14	25	38	45	42	28	20	19	13	25	15
	ALL HRS	18	18	16	15	23	33	42	37	28	21	19	15	24	16
CEILING	01	9	6	5	5	7	8	8	5	5	8	10	6	7	14
LESS 400	04	10	7	5	5	6	8	10	6	4	9	8	7	7	15
FT AND/OR	07	13	11	13	11	8	10	7	6	5	13	11	10	10	17
VISIBILITY	10	11	9	11	7	6	5	5	3	4	9	13	9	8	18
LESS 1 MI	13	12	11	10	8	4	4	4	3	4	8	11	10	7	17
	16	12	12	10	8	4	5	3	3	5	9	12	10	8	17
	19	10	9	9	7	7	7	7	3	4	10	11	10	8	15
	22	10	7	7	6	5	6	7	4	4	8	10	8	7	13
	ALL HRS	11	9	9	7	6	7	6	4	5	9	11	9	8	16
CEILING	01	7	4	3	4	4	4	2	2	2	7	8	4	4	14
LESS 200	04	8	4	4	4	3	4	2	2	2	6	5	5	4	13
FT AND/OR	07	10	8	11	9	4	6	3	3	4	10	10	9	7	17
VISIBILITY	10	9	8	10	7	5	4	3	2	4	7	11	8	6	18
LESS 3/4 MI	13	11	9	9	8	4	4	3	3	4	7	10	7	7	17
	16	10	11	9	7	3	4	3	3	5	8	11	9	7	17
	19	9	7	8	6	5	5	4	2	2	8	10	8	6	15
	22	9	5	5	5	3	3	2	1	2	7	8	7	5	15
	ALL HRS	9	7	8	6	4	4	3	2	3	7	9	7	6	16

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1963	M	M	M	57.1P	60.9	61.6	68.8	68.3	68.7	68.5	61.4	M	M
1964	55.6P	58.9	58.8	58.6	58.9	59.1	61.6	64.7	64.0	64.1	58.3	M	M
1965	57.1P	58.2	59.8	58.0	57.6	58.3	60.0	63.5	64.7	66.6	60.6	M	M
1966	M	56.3	59.6	58.2	58.3	60.0	63.7	65.9	64.9	64.4	60.8	57.1	M
1967	58.6	58.8	58.8	58.0	58.5	59.4	63.7	66.8	66.0	64.6	62.8	59.8	60.4
1968	56.3	58.1	58.8	58.0	58.9	61.6	66.1	68.0	66.6	65.1	60.2	59.3	60.4
1969	56.2	56.3	56.2	58.7	59.6	60.1	63.0	65.6	65.6	65.1	62.9	60.2	60.6
1970	56.5	58.2	58.7P	60.2	60.9	62.0	67.1	67.7	68.2	65.0	60.6	M	M
1971	55.1P	56.2	57.3	57.3	57.5	61.4	64.4	66.0	66.3	62.4	57.2	M	M
1972	52.0P	55.7	56.7	57.7	58.5	64.2	67.5	68.6	68.8	68.4	60.6	58.3	M
1973	56.7	57.8	58.7	57.2	59.0	62.2	63.2	65.0	65.1	62.8	57.9	56.7	59.9
1974	55.6	58.2	58.6	58.3	58.9	60.0	66.4	68.6	68.9	65.7	60.0	59.4	60.2
1975	55.7	56.2	58.0	58.3	57.6	59.3	62.1	63.9	64.7	62.2	57.7	54.2	58.6
1976	55.6	56.0	57.4	57.4	58.7	59.1	63.9	67.0	67.2	66.3	59.1	56.8	61.2
1977	56.3	57.9	59.0	56.3	57.8	60.6	64.8	66.4	66.2	62.1	59.9	57.7	60.0
MEAN	56.1	56.6	56.3	57.3	58.6	61.6	64.0	66.3	65.8	64.1	60.3	56.7	60.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1963	M	M	M	.48	.03	.07	T	T	1.69	.22	1.79	M	M
1964	.01P	T	.21	.18	T	.06	T	T	T	.01	.02	.57	M
1965	.46P	.16	1.79	2.09	T	T	T	T	.01	T	T	2.28	M
1966	M	.79	.11	T	.01	T	T	.04	.02	.21	.46	2.07	M
1967	1.63	.96	.34	.84	.18	T	.39	T	.07	T	2.29	.99	6.99
1968	.98	.48	.67	.16	T	T	T	T	T	.18	.71	.86	3.67
1969	3.89	4.13	.64	.82	.04	.08	.09	.00	T	T	2.44	.08	11.33
1970	.99	.43	.03	.01	T	T	T	.00	.00	T	1.04	M	M
1971	.11P	.18	.07	.51	.29	T	.01	.00	T	.01	.04	M	M
1972	TP	.07	T	T	T	.28	.01	T	.69	.28	1.29	.71	3.21
1973	.82	2.04	.84	T	.02	.03	T	T	T	.07	.26	.32	4.73
1974	2.51	.10	1.28	.18	.01	T	T	T	T	.33	.09	2.84	7.21
1975	.03	.62	1.44	2.68	.03	T	.01	T	T	.09	.02	.02	5.04
1976	.00	1.08	.36	.04	.17	.11	.00	T	1.46	T	.02	.15	4.02
1977	.78	.12	.72	T	1.79	.00	.00	2.52	.04	.04	.05	1.48	7.05
MEAN	1.25	.79	.68	.86	.17	.06	.03	.17	.27	.10	1.10	.93	6.06

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
62-63											146	97	M
63-64	68	12	9	11	100	M	M	226	251	268	274	171	M
64-65	97	18	37	50	198	M	M	268	279	202	228	148	M
65-66	124	28	17	29	127	M	M	295	290	205	163	82	M
66-67	36	7	17	37	139	237	282	222	259	294	192	169	1891
67-68	46	2	0	17	60	293	267	193	186	187	135	96	1500
68-69	32	16	36	90	140	296	267	288	267	186	170	54	1630
69-70	47	31	37	96	70	143	301	159	M	193	131	88	M
70-71	1	2	36	90	132	M	M	242	233	231	228	105	M
71-72	30	0	2	128	822	M	M	268	251	211	170	86	M
72-73	2	0	19	17	125	210	252	192	179	220	101	67	1384
73-74	76	16	27	73	204	282	250	251	282	193	183	93	1906
74-75	21	7	9	47	134	293	282	287	276	269	229	159	2045
75-76	88	38	41	93	218	328	282	252	227	221	156	56	1996
76-77	9	5	1	13	81	248	267	193	302	294	217	122	1709
77-78	37	3	10	89	149	221							
MEAN	47	12	19	93	141	252	272	238	262	221	188	103	1868

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1963					0	0	2	29	120	32	2		M
1964	M	0	2	0	0	0	0	12	13	28	1	M	M
1965	M	1	0	0	0	0	0	0	30	10	91	0	M
1966	M	0	0	7	0	0	0	3	20	24	19	0	M
1967	0	1	0	0	10	0	13	97	97	72	3	0	264
1968	2	0	0	13	2	0	10	24	30	7	3	0	91
1969	1	0	0	2	0	0	0	48	3	12	0	0	78
1970	0	0	M	0	13	6	74	98	68	12	1	M	M
1971	M	2	0	3	3	3	10	101	109	38	0	M	M
1972	M	0	0	0	1	0	78	148	81	30	0	6	M
1973	0	0	0	1	2	11	0	24	28	12	0	0	99
1974	0	0	0	0	0	0	71	48	30	12	10	0	164
1975	0	0	0	0	0	0	0	3	4	41	14	3	65
1976	4	0	0	0	0	67	44	73	79	36	32	0	335
1977	3	0	0	0	0	0	39	88	29	7	0	1	150
MEAN	1	0	0	2	2	6	25	59	49	31	6	1	182

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

SAN CLEMENTE ISLAND, CALIFORNIA

STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
93117	San Clemente Island, California	33°01'N	118°35'W	168	KNUC	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office	Navy	1960	1961	33°01'N	118°35'W	175	Mercurial	Var
2.	*Weather service office	"	1962	1966	"	"	168	"	"
3.	Weather service office, bldg 60001	"	1966		"	"	**170	"	24
1a.	Weather service office	"	1966		"	"	173	Aneroid	24

* Aneroid barometer in use part of 1962. Mercurial being repaired.

** Resurveyed height.

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1960	100 yards east of weather office	AN/UMQ-5	RD-108		1. Barograph (marine) 2. Semi-auto met station (GMQ-14B) 3. Ceiling light (ML-121) 4. Cloud height set (GMQ-13) 5. Theodolite (ML-474-GM) 6. Transmissometer (GMQ-10)
2.	1962	900 feet north of building 60001	"	"	17'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Air Station North Island, San Diego, California is located on a peninsula approximately 2 miles southwest of the city of San Diego and shares an island-like land mass with the city of Coronado. The prevailing winds and weather are tempered by the Pacific Ocean, with the result that summers are cool and winters are warm in comparison with other places along the same latitude. This causes unusually small daily temperature ranges; averaging about 12 degrees F. between the highest and lowest readings, while just a few miles inland these ranges increase to above 30 degress F. During early fall and lasting into early winter,the hot dry " Santa Ana" winds that blow from the northeast increases in frequency. These Foehn type winds last up to 4 days, and sometimes raise temperatures above 90 degrees F. at North Island.

North Island experiences an average annual rainfall of less than 9 inches. The local climate is best described as semi-arid. Mountainous terrain to the east receives considerably more precipitation than does the coastal strip.

Hazardous or destructive weather is practically nonexistent at North Island although infrequent waterspouts, funnel clouds, and tornadoes have been reported in the vicinity of the station during the winter months. These phenomena have always been observed during active cold frontal passages. Thunderstorms are rare, averaging about 3 a year over North Island. Strong winds and gales are infrequent and velocities over 35 mph occur about twice each year on the average.

Considerable fog occurs along the coast but the amount decreases with distance inland. The post "Santa Ana" fogs of the fall and winter months are usually the most frequent and an average of 10 to 12 days of fog each month will occur during the September to December period. When fog is the only phenomena present, clearing is very rapid; usually one or two hours after sunrise.

Visibilities are generally good, but are sometimes restricted during periods of little or no horizontal movement of air. Frequent widespread subsidence combined with the high population and high concentration of industry in Southern California are largely responsible for these hazy days.

SAN DIEGO, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: SAN DIEGO, CALIFORNIA
LOCATION : N32 42 W117 12

PERIOD: APR 45-DEC 77
ELEV : 24

STN LTRS: KNZY
WBAN # : 93112
WMO # :

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTHLY MEAN	MAX 24 HRS	MIN	SNOWFALL INCHES MN	MAX 24 HR	MAX	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN AMT CLD TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	MEAN NUMBER OF DAYS THUNDER STORMS R	VISIBILITY BY FOG < 7MI	MAX DEG > 90	MAX DEG > 75	MIN DEG < 60	MIN DEG < 45
JAN	62	48	55	88	30	1.6	5.1	#	2.0	#	#	#	78	56	.29	44	250	NW	4	52	5	6	1	0	0	#	9	0	2	31	10
FEB	63	50	57	85	38	1.2	5.3	#	1.7	#	#	#	80	58	.31	46	400	NW	5	46	5	5	1	0	0	#	9	0	2	28	6
MAR	63	52	58	84	41	1.3	4.3	#	1.7	#	#	#	80	61	.32	47	400	W	6	52	5	6	1	0	0	#	7	0	1	31	2
APR	65	55	60	89	44	.7	2.9	#	1.1	0	0	0	80	62	.36	50	200	NW	6	63	5	4	#	0	0	#	6	0	2	29	#
MAY	67	58	62	92	47	.2	1.3	#	1.0	0	0	0	81	66	.40	53	200	W	6	33	6	2	#	0	0	#	5	#	1	25	0
JUN	69	60	65	97	54	.1	.4	#	.3	0	0	0	83	69	.47	57	250	WNW	6	31	7	1	0	0	0	#	7	#	2	14	0
JUL	73	64	69	90	57	#	.1	.0	.1	0	0	0	85	69	.54	61	250	NW	6	24	6	#	0	0	0	#	7	#	10	4	0
AUG	75	66	70	92	57	.1	2.0	.0	1.5	0	0	0	85	69	.56	62	250	NW	5	31	5	#	#	0	0	#	6	#	14	2	0
SEP	74	64	70	108	54	.1	1.4	.0	1.2	0	0	0	84	67	.54	61	300	NW	5	28	5	1	#	0	0	#	10	1	11	5	0
OCT	72	60	66	106	42	.3	2.5	#	.7	0	0	0	82	63	.45	56	250	NW	5	54	5	2	#	0	0	#	11	1	7	17	#
NOV	68	54	61	95	40	1.1	5.7	.0	1.6	0	0	0	78	57	.35	49	200	NW	4	46	4	4	1	0	0	#	11	#	5	28	1
DEC	64	50	57	85	37	1.4	5.6	#	2.6	#	#	#	78	56	.30	45	250	NW	4	40	4	5	1	0	0	#	11	0	2	31	6
ANN	68	57	63	108	30	8.1	5.7	.0	2.6	#	#	#	81	63	.40	53	350	NW	5	63	5	36	5	0	0	#	99	2	59	245	28
EYR	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	31	33	33	31	29	33	33	33	33	33	33	33	33	33	33

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	32	35	45	53	70	82	70	68	61	51	36	32	53	33
LESS 5000	04	33	37	48	59	79	89	81	78	67	56	37	33	58	33
FT AND/OR	07	36	38	49	60	76	86	79	78	68	56	37	33	58	33
VISIBILITY	10	28	28	35	38	49	50	33	29	33	32	25	25	34	33
LESS 5 MI	13	23	21	25	27	32	31	16	13	19	20	21	21	22	33
	16	22	24	25	32	38	36	17	14	20	22	21	20	24	33
	19	24	25	31	39	51	51	28	25	32	31	26	23	32	33
	22	30	33	38	47	60	68	48	46	47	41	32	28	43	33
	ALL HRS	29	30	37	44	57	62	47	44	43	38	29	27	41	33
CEILING	01	13	13	11	12	12	23	27	21	21	18	15	13	17	33
LESS 1000	04	12	13	12	15	17	29	38	30	27	21	15	13	20	33
FT AND/OR	07	16	15	14	15	16	26	33	28	27	21	16	15	20	33
VISIBILITY	10	9	7	7	6	8	11	11	6	8	7	8	9	8	33
LESS 3 MI	13	8	6	6	6	6	5	5	3	4	5	8	8	6	33
	16	7	8	6	6	7	5	5	4	5	5	9	8	6	33
	19	7	7	6	7	7	8	7	6	8	7	9	8	7	33
	22	10	11	7	8	9	14	15	12	12	12	12	12	11	33
	ALL HRS	10	10	9	9	10	15	17	14	14	12	11	11	12	33
CEILING	01	7	6	4	4	2	2	1	2	4	7	8	8	5	33
LESS 300	04	7	7	5	5	3	4	3	3	7	8	9	9	6	33
FT AND/OR	07	9	8	6	6	3	2	2	2	7	7	10	10	6	33
VISIBILITY	10	5	4	4	3	3	1	1	1	2	3	4	5	3	33
LESS 1 MI	13	5	5	5	4	4	1	2	1	2	4	6	6	4	33
	16	4	4	4	4	4	2	2	2	3	3	5	5	4	33
	19	3	2	3	3	2	1	1	1	2	3	4	4	2	33
	22	5	4	3	3	1	1	0	1	2	4	5	7	3	33
	ALL HRS	6	5	4	4	3	2	1	2	3	5	6	7	4	33
CEILING	01	6	6	3	3	1	1	1	1	3	6	7	7	4	33
LESS 200	04	6	6	4	4	2	2	2	2	5	7	8	8	5	33
FT AND/OR	07	9	7	5	3	2	1	2	2	4	6	9	9	5	33
VISIBILITY	10	4	3	4	3	3	1	0	1	2	3	4	5	3	33
LESS 1/2 MI	13	5	5	4	4	4	1	2	1	2	4	6	6	4	33
	16	4	4	4	4	4	2	2	2	2	3	5	5	3	33
	19	2	2	3	3	2	1	1	1	2	3	3	4	2	33
	22	5	4	2	2	1	0	0	1	1	4	5	6	3	33
	ALL HRS	5	5	4	3	2	1	1	1	3	4	6	6	3	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1941	M	M	M	57.2	61.0	68.1	67.2	70.1	69.6	66.2	59.1	56.3P	M
1942	58.1	58.2	58.8	61.6	66.2	68.0	69.0	70.2	69.7	66.0	57.1	55.6	61.7
1943	55.0	58.1	56.9	61.9	65.7	66.1	68.3	69.8	69.4	67.4	57.3	59.2	62.3
1944	54.9	58.8	59.1	59.0	63.7	68.7	68.1	66.1	66.2	62.7P	59.1	55.1	M
1945	49.7	51.7	54.7	60.0	61.3	65.2	67.2	66.2	66.2	63.0	59.10	53.6	M
1946	50.6	54.2	57.4	60.2	59.9P	63.2	68.1	67.0	66.2	62.2	61.1	56.3P	M
1947	54.5	56.6	57.6	59.3	61.0	64.2	67.7	67.3	66.1	64.2	60.4	54.3	61.0
1948	53.1	56.0	59.1	59.0	61.2	67.1	68.3	68.3	68.1	64.2	58.8	53.4	61.2
1949	50.4	53.0	56.4	57.8	61.8	65.7	68.6	68.7	66.7	66.1	61.7P	56.8	M
1950	55.7	56.7	56.4	59.5	61.8	64.0	70.7	69.7	68.0	62.8	61.8	56.8	62.1
1951	52.5	54.1	55.7	58.0	60.9	65.5	66.9	70.7	69.7	62.0	59.8	55.6	61.0
1952	54.1	52.4	55.6	58.6	62.0	68.0	68.8	70.5	69.5	64.5	62.8	58.1	61.8
1953	52.2	52.8	58.7	60.4	62.7	67.2	70.6	72.3	69.0	64.6	58.9	58.3	63.2
1954	57.3	58.9	57.2	58.0	62.9	67.6	69.1	71.7	71.6	69.7	60.8	58.4	64.4
1955	57.0	58.8	61.6	63.3	64.2	67.1	72.4	72.1	70.1	67.0	63.9	59.0	64.9
1956	58.2	56.8	58.4	61.4	63.9	68.1	69.6	70.2	70.9	66.9	59.7	56.3	62.3
1957	60.3	58.8	58.0	61.1	63.7	65.9	68.2	70.6	68.2	67.0	61.9	59.4	62.8
1958	55.6	54.6	55.3	61.2	61.7	62.8	67.1	69.3	67.6	63.9	59.2	55.9	61.2
1959	54.7	61.1	57.3	59.8	64.0	68.1	71.1	70.7	69.2	64.3	61.8	58.4	63.2
1960	59.1	58.6	57.2	58.8	60.0	62.7	67.7	68.1	68.0	65.1	59.6	55.6	61.6
1961	56.5	56.1	57.1	58.6	61.2	65.2	68.4	70.1	67.3	64.0	61.2	56.2	61.9
1962	58.0	61.6	57.5	60.7	63.2	65.9	68.5	71.0	68.7	67.1	61.6	57.3	62.1
1963	55.6	57.0	58.3	58.7	62.1	68.3	71.7	71.3	68.2	64.3	58.7	58.2	62.9
1964	57.0	60.2	60.2	61.6	64.2	71.3	71.9	70.6	68.2	61.1	56.9	53.4	63.4
1965	54.1	55.6	57.0	61.7	61.7	65.1	70.4	72.0	69.0	65.0	64.3	58.9	63.4
1966	57.1	58.4	58.6	61.8	62.4	65.5	70.1	67.3	69.6	61.8	56.2	51.9	61.9
1967	55.6	57.0	58.3	58.7	63.1	68.3	71.7	71.3	68.2	64.3	58.7	54.9	62.9
1968	57.0	60.2	60.2	61.6	64.2	71.3	71.9	70.6	68.2	61.1	56.9	53.4	63.4
1969	54.1	55.6	57.0	61.7	61.7	65.1	70.4	72.0	69.0	65.0	64.3	58.9	63.4
1970	57.1	58.4	58.6	61.8	62.4	65.5	70.1	67.3	69.6	61.8	56.2	51.9	61.9
1971	56.6	58.0	58.3	58.7	63.0	68.7	71.8	69.9	68.2	64.3	58.7	54.9	62.9
1972	55.7	58.1	58.1	60.1	63.7	72.1	71.9	70.6	68.2	61.1	56.9	53.4	62.9
1973	54.7	59.4	60.2	62.7	66.3	66.6	69.2	69.1	66.8	65.0	59.0	58.2	62.3
1974	56.4	57.8	59.0	61.3	63.4	66.6	71.9	68.8	68.6	65.3	62.0	56.9	63.2
1975	59.9	59.6	56.1	57.3	60.0	62.3	68.9	66.5	68.1	63.6	58.5	56.6	60.6
1976	57.6	57.1	57.8	57.7	60.7	66.8	68.4	71.7	71.7	68.0	60.5	59.7	63.9
1977	56.0	60.6	57.2	60.6	61.0	63.8	68.2	71.3	70.6	68.1	60.7	63.0	64.1
MEAN	55.1	56.6	57.5	59.9	62.2	66.6	68.6	70.2	69.2	65.8	60.8	56.6	62.2

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1941	M	M	M	.11	.01	.09	T	.89	.02	T	.58	4.37P	M
1942	1.28	.96	2.02	.08	.02	T	T	T	T	.96	1.67	.84	6.96
1943	.84	.79	.39	.08	.71	.03	T	.00	.17	.02	1.12	2.69	6.07
1944	T	1.28	1.72	.18	.02	T	T	.00	T	.79P	.02	2.11	M
1945	2.75P	1.17	.38	.06	.21	T	T	T	.00	.20	1.04P	.49	M
1946	2.96	1.96	.45	.01	.10P	T	T	T	T	T	.88	TP	M
1947	1.11	.48	.71	1.09	T	T	T	1.23	.04	.07	1.27	4.14	11.19
1948	3.98	.16	4.28	1.86	T	T	.02	T	T	T	1.79	2.17	13.61
1949	.07	.28	.99	.38	.14	.08	T	T	T	.01	.71P	.05	M
1950	3.14	.16	4.29	.07	T	.01	.03	T	.00	T	.81	.49	8.89
1951	2.42	.84	.31	.83	.85	T	.03	T	T	T	.44	.80	6.82
1952	1.98	.28	T	.86	.10	T	.00	T	T	.49	.00	.09	3.54
1953	4.55	.93	.66	1.14	.78	.23	T	.00	.11	2.49	.80	.96	12.93
1954	1.01	9.83	4.08	2.13	.61	T	T	.02	.44	.09	.47	.13	18.90
1955	.22	4.97	T	.38	T	.01	T	T	.01	.19	T	1.49	6.62
1956	2.82	1.98	.80	.72	.25	T	T	.00	.09	.03	1.27	.25	7.75
1957	1.32	.45	1.32	T	T	.01	T	.03	T	.40	.84	1.98	5.63
1958	2.22	2.01	.67	T	.60	.04	T	T	T	.02	.08	.23	6.76
1959	.18	1.96	1.38	.70	.08	.24	T	T	1.60	.14	1.92	.18	7.60
1960	1.65	.28	1.06	.12	.27	.06	T	T	.00	T	.05	1.26	5.02
1961	.34	.46	1.68	2.93	T	T	.01	T	.16	T	5.76	5.59	17.24
1962	1.21	.98	.19	.01	T	T	T	.00	T	.38	.87	3.10	6.89
1963	2.01	T	1.29	2.24	.08	.13	.01	T	.07	T	3.88	1.77	11.41
1964	.23	.28	1.47	.40	T	.03	.07	T	.01	.07	.41	.62	3.62
1965	5.08	4.97	.78	.23	.11	.03	.02	T	.02	.07	.77	.87	12.02
1966	.94	2.08	1.56	.09	T	T	T	.00	.00	.09	1.82	1.93	8.91
1967	.26	.98	.20	1.08	.26	.01	T	T	T	1.13	.05	2.94	7.15
1968	.05	.13	T	.09	.09	.09	.01	.01	.36	.01	2.52	.89	3.11
1969	1.34	1.46	2.04	.02	.02	T	T	T	.02	.06	1.70	.19	6.85
1970	2.46	.08	1.93	.03	T	.14	.01	T	T	.78	.17	1.94	7.33
1971	.52	.87	3.49	1.94	.01	.03	T	.00	T	.12	.28	.92	7.58
1972	.02	9.93	.62	1.74	.29	.04	T	T	1.24	.60	.26	.98	10.98
1973	2.29	.07	.84	.06	1.27	.02	T	1.97	T	.03	.09	2.93	9.55
MEAN	1.61	1.23	1.29	.68	.21	.05	.01	.13	.13	.30	1.08	1.37	8.06

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
41-42										229	120	53	M
42-43	3	0	2	12	180	M	299	325	272	113	76	8	M
43-44	0	0	0	26	211	279	363	187	134	108	67	2	1429
44-45	0	0	0	20	229	298	306	328	301	197	107	34	1778
45-46	11	2	12	M	170	359	328	344	312	150	114	9	M
46-47	1	1	0	75	M	340	441	288	229	139	M	52	M
47-48	1	0	3	16	144	M	326	290	229	162	117	25	M
48-49	1	2	4	52	138	323	364	291	302	176	91	30	1684
49-50	8	0	2	36	191	293	303	251	289	212	124	48	1620
50-51	1	0	12	72	M	262	349	158	261	160	90	55	M
51-52	0	0	2	67	105	249	382	298	190	179	126	44	1842
52-53	9	0	7	69	187	285	330	359	253	202	75	22	1814
53-54	0	0	0	32	102	208	298	173	190	193	64	5	1225
54-55	0	0	0	26	176	172	225	169	234	93	11	0	1103
55-56	0	0	0	4	118	140	214	251	108	98	26	0	919
56-57	0	0	0	0	42	164	361	291	199	119	71	10	1286
57-58	2	0	0	20	153	282	168	168	211	128	128	21	1281
58-59	4	0	1	27	113	292	291	286	198	116	97	56	1581
59-60	1	0	1	43	188	276	313	117	224	172	73	43	1493
60-61	0	0	0	7	119	207	302	243	238	170	151	61	1408
61-62	1	0	0	10	189	284	266	246	238	192	102	71	1599
62-63	12	0	1	11	99	271	296	276	221	123	51	7	1368
63-64	0	0	0	7	118	224	272	193	198	243	93	56	1423
64-65	0	0	0	4	32	280	231	136	152	109	84	43	1073
65-66	0	0	1	24	113	307	148	241	266	103	97	16	1396
66-67	1	0	0	30	50	191	235	181	171	191	67	19	1066
67-68	0	0	0	10	119	315	314	279	285	203	103	43	1793
68-69	1	0	7	131	246	367	373	273	209	142	96	7	1812
69-70	0	0	0	18	126	255	313	149	227	125	79	18	1367
70-71	3	0	1	16	177	204	260	197	178	110	94	19	1215
71-72	0	0	0	20	98	244	274	262	260	226	148	76	1627
72-73	13	3	2	99	196	316	261	223	229	212	62	20	1366
73-74	0	0	0	6	76	159	216	190	239	127	117	41	1105
74-75	2	0	0	1	20	66							
75-76													
76-77													
77-78													
MEAN	2	0	2	31	134	256	301	239	229	153	89	32	1470

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1941				0	2	1	76	144	148	60	10		M
1942	0	0	0	0	0	41	139	140	142	53	0	0	330
1943	0	1	10	26	4	39	110	159	139	38	0	0	527
1944	0	0	0	12	1	2	23	43	54	M	0	0	M
1945	0	0	0	6	4	30	76	111	103	20	M	0	M
1946	0	0	3	6	M	6	102	66	66	34	33	M	M
1947	0	0	2	0	0	6	91	81	64	36	6	0	286
1948	0	0	2	0	1	0	79	141	132	13	13	0	383
1949	4	3	1	0	38	10	131	123	70	73	M	1	M
1950	0	16	0	0	0	8	106	134	100	7	14	0	485
1951	0	0	0	1	7	3	68	126	133	2	5	0	427
1952	0	0	0	0	40	27	102	117	167	43	42	0	540
1953	0	6	1	0	1	96	179	251	126	19	0	0	694
1954	0	1	0	38	38	62	133	213	205	138	2	8	879
1955	0	0	16	12	9	72	237	227	161	77	16	4	825
1956	0	0	0	1	7	3	68	126	133	2	5	0	427
1957	0	0	0	0	40	27	102	117	167	43	42	0	540
1958	0	6	1	0	1	96	179	251	126	19	0	0	694
1959	0	1	0	38	38	62	133	213	205	138	2	8	879
1960	0	0	0	12	9	72	237	227	161	77	16	4	825
1961	0	0	1	24	27	20	152	148	158	46	1	0	622
1962	10	0	0	14	0	26	110	178	102	94	30	0	564
1963	9	0	0	9	2	2	74	143	82	13	2	0	336
1964	2	12	0	0	2	19	103	193	268	93	2	8	704
1965	0	0	4	13	1	3	91	146	89	113	14	0	470
1966	6	1	0	8	0	0	34	144	77	158	2	3	432
1967	0	0	2	2	3	40	112	192	118	81	22	0	572
1968	0	0	2	0	21	8	119	213	209	113	20	0	705
1969	4	4	8	13	5	28	202	219	173	38	4	0	700
1970	10	0	4	11	1	24	171	295	152	34	38	8	748
1971	0	1	0	3	21	32	170	229	148	73	13	0	701
1972	0	4	0	16	8	12	120	302	147	84	0	0	709
1973	0	0	0	1	21	34	224	253	168	89	0	0	796
1974	0	0	0	9	13	68	61	136	130	70	6	2	495
1975	0	4	0	6	9	70	221	183	114	47	18	0	672
1976	0	0	0	0	0	1	90	61	132	29	8	0	281
1977	10	0	1	0	8	60	148	214	231	137	69	0	892
MEAN	3	10	0	2	0	12	106	204	173	106	77	12	707
	2	2	2	7	9	27	122	169	136	64	15	2	557

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

SAN DIEGO, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93112	San Diego, California	32°42'N	117°12'W	24	KNZY	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Naval Weather Service Facility, second deck, bldg 516, ops bldg	Navy	1944		32°42'N	117° 12'W	48	Mercurial	24
1a.	Naval Weather Service Facility	"	1960		"	"	50	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1944	Atop operations building	Selsyn	Triple	87'MSL	1. Barograph (3835-672) 2. Semi auto met station (AN/GMQ-14) 3. Cloud height set (AN/GMQ-13B) 4. Transmissometer (GMQ-10C) 5. Wave spectrum analyzer 6. Wave height recorder 7. Ceiling light (ML 121) 8. GOES 9. NAMFAX 10. NEDN
2.	1956	Atop operations building	AN/UMQ-5C	RD-108C	95'MSL	
3.	1960	1500' from east end and 700' from centerline of runway 29	AN/UMQ-5	RD-108	30'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

San Nicolas Island is one of the eight Channel Islands off the southern coast of California. It is located some 55 miles south-southwest of Point Mugu, and about 65 miles to the southwest of Los Angeles. It has a distinctly table-like profile, with a gentle slope upward from the northern end of the island. A sand-spit, whose size and shape have varied through the years, marks the southeastern tip of the island.

The peak altitude of San Nicolas is 907 feet near the south-central edge of the mesa. The airstrip is located near the southeastern edge of the mesa at a height of 502 feet above sea level. The weather station elevation is 504 feet MSL and frequently is within the subtropical inversion that affects the southern California weather patterns. Thus, temperature, humidity, sea level pressure, and other weather data from the weather station are not necessarily representative of surface conditions on the water.

Except for steady northwesterly winds and lower annual rainfall, San Nicolas Island experiences much the same general weather patterns as does Point Mugu.

The flying weather at San Nicolas Island is above Visual Flight Rule (VFR) minimums (1000-foot ceiling and 3-mile visibility) 78% of the time on a year-round basis.

The moderating effect of the surrounding ocean is seen in the small range of mean monthly temperatures. Daily maximum temperatures are near 70 degrees F. in the warmest months and near 60 degrees F. in the coolest months. Minimum temperatures generally vary from the upper 40's to the mid 50's through the year. Freezing temperatures have not been recorded. Several days with maxima over 100 degrees F. have occurred; the highest was 105 degrees F. in September of 1955.

The average seasonal precipitation is just under 7 inches with 71% of this amount falling from November through February. The summer months average less than 0.1 inch and most of what falls is drizzle from stratus clouds. The occurrence of thunderstorms, hail and funnel clouds is much the same as at Point Mugu - infrequent. Visibility restrictions however, are much more likely to be fog and haze, although the island may experience lowered visibility at times as a result of smog from the Los Angeles area.

SAN NICOLAS ISLAND, CALIFORNIA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: SAN NICOLAS ISLAND, CALIF
LOCATION : N33 15 W119 27

PERIOD: APR 45-DEC 77
ELEV : 504

STN LTRS: KNSI
WBAN # : 93116
WMO # : 72291

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	PRECIPITATION INCHES MON MEAN	MON MAX	MON MIN	MAX 24 HRS	SNOWFALL INCHES MON MEAN	SNOWFALL INCHES MAX 24 HR	MAX 24 HR LST	RELATIVE HUM LST 04	RELATIVE HUM LST 19	VAP PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER DAYS	VISIBY DAYS < 7MI	MAX DEG > 90	MAX DEG > 75	MIN DEG < 65	MIN DEG < 40
JAN	60	47	83	33	1.3	4.4	.0	1.6	0	0	1	77	66	.30	45	750	NW	9	52	5	6	1	0	0	0	7	0	2	31	3
FEB	60	48	54	83	37	.9	2.5	.1	1.3	0	0	0	78	67	.31	46	750	NW	10	64	5	5	#	0	0	0	10	0	1	28	1
MAR	60	48	54	83	34	.9	2.6	#	1.2	0	0	0	81	66	.31	46	750	NW	11	54	5	5	#	0	0	0	10	0	1	31	1
APR	63	49	56	96	38	.6	2.7	#	.7	#	#	#	81	65	.32	47	750	NW	12	56	4	4	#	0	0	#	8	#	2	30	1
MAY	64	51	58	100	41	.2	1.6	#	.9	0	0	0	88	68	.36	50	750	NW	12	56	5	1	#	0	0	0	13	#	2	31	#
JUN	66	53	60	100	41	#	.2	.0	.1	0	0	0	92	70	.40	53	750	NW	11	52	5	1	0	0	0	#	13	#	3	30	#
JUL	69	55	63	91	42	#	#	.0	#	0	0	0	90	70	.45	56	750	NW	10	45	5	#	0	0	0	0	18	#	4	31	0
AUG	71	57	64	95	47	.1	.8	.0	.8	0	0	0	86	70	.47	57	750	NW	10	41	5	#	#	0	0	0	14	#	7	31	0
SEP	71	57	65	103	46	.2	2.2	.0	1.7	0	0	0	82	67	.45	56	800	NW	9	47	5	1	#	0	0	#	15	1	7	29	0
OCT	70	55	63	100	40	.1	.7	.0	.6	0	0	0	75	65	.39	52	750	NW	8	50	4	2	#	0	0	0	10	1	7	30	#
NOV	66	52	59	89	41	1.3	5.6	#	2.6	0	0	0	83	63	.35	49	750	NW	9	52	4	5	1	0	0	0	12	0	3	30	#
DEC	60	48	54	79	35	1.4	4.6	#	1.6	0	0	0	77	66	.31	46	800	NW	9	55	4	7	1	0	0	0	13	0	1	31	2
ANN	65	52	59	103	33	7.0	5.6	.0	2.6	#	#	1	82	67	.36	50	800	NW	10	64	5	37	3	0	0	#	145	2	40	363	8
EYR	20	20	20	20	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	17	17	19	19	19	19	15	15	20	20	20	20

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	24	21	25	29	43	58	52	41	43	34	27	26	35	6
LESS 5000	04	30	27	24	27	52	63	60	49	45	37	34	22	41	9
FT AND/OR	07	34	37	43	45	60	71	70	70	58	48	35	34	51	30
VISIBILITY	10	33	40	38	39	50	57	49	46	46	39	30	33	42	31
LESS 5 MI	13	32	33	33	33	38	39	27	22	30	27	26	30	31	31
	16	30	31	30	30	33	35	19	18	27	26	25	29	28	28
	19	26	21	29	25	40	42	36	30	34	25	23	25	30	10
	22	28	21	27	22	42	48	41	31	41	26	22	28	31	8
	ALL HRS	31	33	34	34	45	51	43	39	41	34	28	30	37	19
CEILING	01	19	14	16	19	30	44	49	38	31	20	17	18	26	6
LESS 1000	04	19	17	15	17	36	48	57	44	35	24	24	16	31	9
FT AND/OR	07	20	26	26	29	44	53	62	62	45	34	26	24	38	30
VISIBILITY	10	20	27	22	22	29	37	37	34	30	23	21	22	27	31
LESS 3 MI	13	21	22	20	17	19	21	17	13	16	14	18	21	18	31
	16	20	22	18	17	18	19	14	13	17	16	18	21	18	28
	19	18	11	17	17	23	27	31	25	26	18	17	21	21	10
	22	19	11	17	12	23	30	35	26	29	20	15	21	21	8
	ALL HRS	20	22	21	20	28	34	35	31	28	22	20	21	25	19
CEILING	01	13	10	9	8	13	17	19	15	12	12	12	12	13	6
LESS 300	04	11	11	7	6	17	18	32	20	10	12	14	11	15	9
FT AND/OR	07	13	17	15	13	18	22	24	23	17	17	14	16	18	30
VISIBILITY	10	13	17	14	10	9	8	6	5	7	10	12	13	10	31
LESS 1 MI	13	14	14	14	9	8	6	3	3	5	7	12	16	9	31
	16	14	14	13	9	7	7	3	4	7	8	12	15	10	28
	19	13	9	8	8	10	9	10	9	6	10	12	16	10	10
	22	13	8	9	6	10	10	14	11	9	11	11	17	11	8
	ALL HRS	13	14	13	9	11	11	11	10	9	10	12	15	12	19
CEILING	01	11	7	8	5	5	6	6	3	5	7	7	10	6	6
LESS 100	04	8	7	3	5	7	8	12	9	3	7	10	8	7	9
FT AND/OR	07	9	13	13	9	12	11	10	9	9	12	11	13	11	30
VISIBILITY	10	11	14	12	8	7	8	2	3	5	8	10	13	8	31
LESS 1/2 MI	13	12	13	13	9	8	6	3	3	4	6	11	14	8	31
	16	12	12	12	8	7	6	3	4	6	7	10	14	9	28
	19	9	5	7	6	6	6	5	3	3	6	8	13	6	10
	22	10	6	5	5	6	6	4	5	3	8	6	14	6	8
	ALL HRS	11	12	11	8	8	7	5	5	5	8	10	13	8	19

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	54.0	58.7	58.6	68.1	69.1	69.8	63.0	M	M	M
1946	M	M	M	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	60.2	60.7	62.2	67.4	68.6	65.6P	64.0	56.9	52.3	M
1948	55.2P	52.4	50.9	53.5P	55.4	58.2	59.6	68.9	68.6P	59.3P	59.0	53.5	M
1949	49.7	50.4P	52.7	57.4	58.0	59.6	58.9P	61.3	62.9	60.0	60.9	52.9	M
1950	49.9	52.2	53.7	55.2P	56.6P	57.4	61.3P	61.9	61.0	61.8	61.1	58.8	M
1951	51.7	52.0P	53.1	53.7	56.2P	58.6	61.3	61.0	62.9	64.4	58.9	53.0	M
1952	51.3P	54.1	51.5	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	64.1	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	63.7P	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	M	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	62.8	M	M	M	M	M	M
1963	M	M	M	M	M	M	60.9	64.1	69.2	M	M	M	M
1964	M	M	M	M	M	M	M	M	68.1	62.7	56.6	54.4	M
1965	54.1	54.2	53.4	57.7	58.6	60.0	62.9	66.3	66.1	67.5	58.9	54.7	59.5
1966	52.1	50.8	53.1	57.0P	58.2P	61.1	62.0	63.6P	66.0P	63.8	56.3	51.2	M
1967	52.0P	50.6P	53.2	51.6	56.3P	58.3	62.8	67.9	67.7P	66.2P	60.6	53.2	M
1968	52.2	57.7	56.6	56.0	59.3	59.3	60.1	64.2	64.6	61.6	55.5	54.2	58.9
1969	54.1	51.2	54.9	57.0	56.9	59.2	62.3	63.3	61.6	62.1	60.2	52.1	58.2
1970	53.2	54.2	56.9	56.0	61.1	61.2	64.1	63.1P	66.8	63.1	59.2	53.3	M
1971	53.4	54.6	56.1	56.2	58.0P	61.0	62.1	67.2	66.6	61.6	56.0P	51.1	M
1972	54.6	54.2	55.5P	59.9	58.2	60.2	64.7	66.4	64.1	64.7	58.7	53.6	M
1973	53.1	54.8	55.0	59.9	59.6	62.8	62.1	63.8	65.4	64.0	56.1	54.1	58.7
1974	52.4	54.0	55.3	57.3P	57.2P	60.6	64.0	63.6	65.4	62.7	59.9	54.2	M
1975	54.1	54.1	54.0	54.4	58.6	58.5P	63.8P	65.7	65.5P	61.3	56.8	M	M
1976	M	52.0P	M	52.3	56.0P	60.3	61.2P	64.9	64.9P	64.3P	60.0P	54.8P	M
1977	54.9P	54.2P	55.7	M	M	58.2	60.6	62.4	61.1P	58.4	58.6	51.3	M
MEAN	52.8	53.0	53.8	55.8	58.2	59.7	62.5	63.9	64.4	62.3	58.3	54.1	58.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	.09	T	T	T	T	.00	.73	M	M	M
1946	M	M	M	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	T	T	T	.00	.00	.00	.10	.01	.02	M
1948	.00P	7.03	1.26	.35	T	T	T	T	.00	.00	M	1.93	11.57
1949	1.02	.58	.99	.10	.15	.04	.00P	.00	.00	T	.26	2.09	M
1950	1.32	.80	.40	.01P	.05P	T	.00P	T	.21	.10	1.42	.15	M
1951	1.73	1.74P	.30	1.08	.00P	.16	T	T	.01	.17	.23	4.57	M
1952	4.61P	2.15P	1.55	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	T	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	M	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	.00	M	M	M	M
1963	M	M	M	M	M	M	M	M	.00	M	M	M	M
1964	M	M	M	M	M	M	M	M	M	.00	.44	M	M
1965	.06	.48	1.28	2.07	T	.01	T	T	.04	T	2.03	1.20	13.14
1966	1.34	.73	.05	T	.00	T	T	T	.07	.03	1.16	2.28	6.02
1967	1.15	.97	.35	1.78	T	.01	.02	T	.04	.00	1.02	.54	5.96
1968	.19	1.02	1.10	.47	T	.00	.02	T	.04	.22	.03	1.16	5.05
1969	4.35	2.26	.34	.93	.07	T	.02	.00	T	.02	3.10	.23	10.62
1970	1.03	.93	.44	.01	T	T	.00	.00	.00	.01	3.09	1.00	8.11
1971	.21	.27	.19	.01	.48	T	T	T	.03	.07	.10	2.56	4.02
1972	.09	.10	T	.01	.12	.02	.00	T	.08	T	.06	1.91	2.01
1973	1.33	2.86	1.31	.01	.02	.03	.01	T	.02	.26	1.10	.44	7.07
1974	3.44	.29	1.33	.18	.01	T	.01	T	T	.44	.18	2.20	9.25
1975	.00	.07	2.62	1.01	.01	T	.01	.01	T	.11	.16	.01	5.03
1976	.00	2.72P	.27	.90	.08	.13	T	.08	2.21	.09	.08	.23	M
1977	.04P	.11	.78	T	1.68	.09	T	.84	.08	.01	.02	3.35	M
MEAN	1.23	.87	.89	.56	.15	.03	.01	.05	.15	.13	1.26	1.39	6.74

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										323	279	178	M
45-46	87	72	29	98	M	M	M	M	M	M	M	M	M
46-47	M	M	M	M	M	M	M	M	M	174	106	84	M
47-48	115	76	M	106	234	300	M	361	427	M	285	197	M
48-49	134	122	M	M	178	358	330	M	390	247	225	167	M
49-50	M	110	97	173	115	366	487	359	365	M	M	227	M
50-51	M	98	122	128	182	289	349	M	365	332	M	179	M
51-52	132	116	87	72	180	362	M	308	412	M	M	M	M
52-53	M	M	M	M	M	M	M	M	M	M	M	M	M
54-55	M	M	M	M	M	M	M	M	M	M	M	M	M
55-56	M	96	M	M	M	M	M	M	M	M	M	M	M
56-57	M	M	M	M	M	M	M	M	M	M	M	M	M
57-58	M	M	M	M	M	M	M	M	M	M	M	M	M
61-62	M	M	M	M	M	M	M	M	M	M	M	M	M
62-63	M	92	M	M	M	M	M	M	M	M	M	M	M
63-64	120	62	6	M	M	M	M	M	M	M	M	M	M
64-65	M	M	106	107	256	327	331	298	352	230	197	144	M
65-66	69	46	19	92	179	216	395	299	365	M	M	114	M
66-67	90	M	M	72	178	417	M	M	421	304	M	196	M
67-68	91	11	M	M	134	350	301	204	250	220	106	102	M
68-69	61	48	53	122	281	436	333	271	309	246	254	166	2079
69-70	85	82	108	102	143	299	351	253	264	266	157	193	2177
70-71	66	M	84	93	162	384	344	303	336	259	M	190	M
71-72	97	16	31	171	M	427	424	385	M	267	215	188	M
72-73	92	26	38	46	246	360	365	279	367	280	169	98	2298
73-74	96	51	80	107	268	270	381	304	396	M	M	189	M
74-75	57	48	57	93	167	166	276	296	336	312	252	M	M
75-76	M	28	M	197	281	M	M	M	M	276	M	174	M
76-77	M	72	M	M	M	M	M	M	344	M	M	198	M
77-78	79	46	M	197	193	230							
MEAN	89	62	64	111	200	331	376	309	363	280	213	162	2560

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945				0	0	0	2	17	60	40			M
1946	M	M	M	M	M	M	M	M	M	M	M	M	M
1947	M	M	M	27	20	9	4	12	M	19	0	1	M
1948	M	0	0	M	1	0	0	3	M	M	4	0	M
1949	0	M	0	23	16	12	M	13	41	26	90	0	M
1950	0	0	0	M	M	3	8	11	34	39	4	0	M
1951	0	M	0	0	M	1	22	0	30	61	3	0	M
1952	M	0	0	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	M	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	34	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	M	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	M	M	M	10	M	M	M	M
1964	M	M	M	M	M	M	M	0	30	141	M	M	M
1965	3	1	0	16	3	0	9	94	89	137	0	0	382
1966	0	0	0	M	M	0	5	M	M	42	17	0	M
1967	M	M	0	0	M	0	17	148	M	M	4	1	M
1968	4	1	1	17	17	3	42	82	90	18	2	0	100
1969	2	0	2	12	0	0	0	97	19	20	6	1	101
1970	0	0	0	1	44	0	29	M	117	37	2	0	M
1971	11	13	0	12	M	17	16	93	82	72	M	0	M
1972	0	0	M	0	13	0	48	76	48	27	1	0	M
1973	0	0	0	0	19	92	12	82	60	36	3	0	198
1974	0	0	0	M	M	3	33	13	14	30	20	1	M
1975	10	0	0	0	0	M	M	95	M	27	10	M	M
1976	M	M	M	0	M	97	M	86	M	M	M	M	M
1977	M	M	0	M	M	0	40	11	M	0	2	0	M
MEAN	3	1	0	9	12	6	18	94	55	46	12	1	191

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

SAN NICOLAS ISLAND, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT)	CALL SIGN	WMO NUMBER
93116	San Nicolas Island, California	33°15'N	119°27'W	504	KNSI	72291

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, ops bldg	USN	1946	1957	33°15'N	119°27'W	507	Tonnelot	Var
2.	" " " new ops bldg	"	1957	1966	"	"	"	"	"
3.	" " " bldg 121	"	1966		"	"	568	Fortin	"
1a.	Building 121	"	1966		"	"	570	Aneroid	

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop catwalk on ops bldg	Selsyn	*Double register	38'	1. Barograph (ML-3D) 2. Semi auto met sta (AN/GMQ-14A) 3. Cloud height set (AN/GMQ-13C) 4. Transmissometer (AN/GMQ-10) 5. Radiosonde (AN/GMD-1B) 6. Theodolite (ML-427) 7. Auto met station (MOTOROLA)
2.	1957	Atop control tower on new ops bldg	**Selsyn		72'	
1a.	1957	Mounted on Selsyn mast	AN/UMQ-5	RD-108	72'	
2a.	1963	2600' from end of runway 12, 775' from runway centerline on the southwest side	"	"	13'	
3.	1976	2000' SE of end of runway 12, south west of taxiway	"	"	13'	* Decommissioned 1955. ** Disassembled 1957.

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Marine Corps Air Station (Helicopter) Santa Ana, California is located in the southwestern portion of California in an area known as the "Los Angeles Basin". The station is bounded on the north and east by extensions of the Coast Mountain Range and by the Pacific Ocean on the south and west. The Santa Ana Mountains to the east, have an average elevation of about 3,000 feet. Saddleback Peak rises to 5,496 feet at a distance of 17 miles from the station. It is the highest peak in the Santa Ana Mountains. The Pacific Ocean is 15 miles to the west of the station and 9 miles to the south.

The region in which the air station is located enjoys one of the most equable climates in North America. The summer season begins in April and lasts through October. During this period the Pacific High Pressure Area is the dominant weather feature. Fog and stratus cloudiness are common during this season. Stratus cloudiness and fog are advected over the area during the evening hours. It generally "burns off" during the late morning periods. The winter season covers the period November through March. Foehn or "Santa Ana" winds may occur during any season of the year, but are more predominant and much stronger in velocity during the winter period. The Santa Ana winds originate from cold high pressure areas centered over the high desert of California and Nevada. The air flows through the El Cajon and Banning Passes and then joins forces as it passes through the Santa Ana Canyon. The wind speed is increased by the Venturi effect as this process takes place. The air is heated adiabatically through compression as it flows down into the basin. Temperature increases of 20 degrees are common. The wind direction during Santa Ana conditions varies from north through east, but the strongest velocities are experienced from a north-northeast direction.

The average annual precipitation for Santa Ana is 9.8 inches. December is the wettest month with an average mean monthly rainfall of 1.9 inches and July is the driest with only .02 inch. Thunderstorms are rare in this area . The station averages 4 to 5 per year.

Prevailing surface winds are westerly with an average velocity of 5 knots. The sea breeze is a predominant daily feature and very light drainage winds from the mountains occur at night.

Temperatures are generally mild. The annual average temperature is 62.0 degrees F. with an annual mean relative humidity of 72.8%.

Frontal activity in this area is generally mild. During the winter season the polar front occasionally passes the station. The fronts are usually accompanied by multi-layered cloudiness and scattered shower activity. Light to moderate icing conditions frequently occur as low as 1,500 feet in associated frontal cloudiness during the winter. Although frontal turbulence is generally light, the turbulence over the mountain ranges commonly becomes moderate to severe as the polar front flows over the mountain ridges.

SANTA ANA, CALIFORNIA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: SANTA ANA, CALIFORNIA
LOCATION : N33 42 W117 50

PERIOD: MAR 45-DEC 77
ELEV : 94

STN LTRS: KNTK
WBAN # : 93114
WMO # :

	TEMPERATURE DEG F					PRECIPITATION INCHES				SNOWFALL			RELATIVE HUM		VAPR PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99,95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN AMT CLD TENTH	MEAN NUMBER OF DAYS OCCURRENCE OF: PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.0 OR GTR	THUNDER DAY R	VISBY FOG 7MI <	MAX DEG 90 >	MAX DEG 75 >	MIN AND 45 <	MIN AND 32 <
	DAILY MAX	DAILY MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	MON MEAN	MAX 24 HRS	MIN	MN	MAX 24 HR	MAX	04	LST 13																		
JAN	65	42	54	89	28	1.7	6.6	.0	1.6	#	#	#	77	53	.27	42	300	W	4	37	5	5	1	0	0	#	14	0	4	21	2
FEB	66	44	56	86	29	1.6	7.2	#	2.2	0	0	0	83	55	.30	45	300	W	4	53	5	5	1	0	0	1	13	0	4	16	1
MAR	66	46	56	92	31	1.4	3.0	#	1.0	0	0	0	83	56	.31	46	300	WSW	5	42	5	6	1	0	0	1	12	#	4	14	#
APR	68	48	58	93	34	.8	4.1	#	1.3	0	0	0	81	56	.34	48	300	SW	5	45	5	4	#	0	0	#	9	#	5	9	0
MAY	71	53	62	98	38	.3	2.6	#	2.0	0	0	0	84	58	.40	53	300	SW	5	40	5	2	#	0	0	#	13	1	6	3	0
JUN	74	58	66	102	42	.1	.5	#	.5	0	0	0	86	60	.47	57	300	SW	5	45	5	1	0	0	0	#	16	1	12	#	0
JUL	79	61	70	98	45	#	.2	.0	.2	0	0	0	86	57	.54	61	400	SW	5	27	4	#	0	0	0	#	18	1	27	#	0
AUG	81	62	72	99	48	.2	1.7	.0	1.2	0	0	0	85	57	.56	62	300	WSW	5	31	3	1	#	0	0	#	15	2	30	0	0
SEP	81	60	71	112	44	.4	2.0	#	1.6	0	0	0	84	55	.50	59	350	WSW	4	40	4	2	#	0	0	1	15	4	24	#	0
OCT	76	54	65	99	30	.2	.6	#	.4	0	0	0	81	53	.42	54	300	W	4	40	4	2	0	0	0	1	15	2	16	3	#
NOV	71	47	59	95	32	1.2	4.3	.1	2.3	0	0	0	80	52	.34	48	200	W	4	55	4	4	1	0	0	#	14	#	9	13	#
DEC	65	43	54	86	28	1.9	3.8	.3	2.3	0	0	0	78	53	.28	43	250	W	4	59	4	3	1	0	0	1	14	0	3	21	1
ANN	72	52	62	112	28	9.8	7.2	.0	2.3	#	#	#	82	55	.37	51	400	WSW	5	59	4	37	5	0	0	5	168	11	144	100	4
EYR	14	14	14	14	14	14	14	14	14	13	13	13	21	21	21	21	21	21	21	14	19	14	14	13	13	13	13	14	14	14	14

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	29	28	35	33	60	63	45	37	41	38	27	26	38	11
LESS 5000	04	32	36	38	43	73	75	60	57	53	45	32	32	49	13
FT AND/OR	07	33	38	43	51	69	78	66	65	60	48	37	30	52	27
VISIBILITY	10	28	31	42	42	52	46	14	20	33	35	29	27	33	28
LESS 5 MI	13	25	26	26	25	30	22	2	3	13	18	19	21	19	28
	16	19	21	19	19	22	16	1	2	10	11	13	16	14	27
	19	20	20	23	26	29	23	4	7	22	17	15	16	19	19
	22	24	23	26	28	45	44	22	18	30	29	21	23	28	16
	ALL HRS	26	27	31	33	45	43	24	24	31	29	24	23	30	21
CEILING	01	14	11	11	7	15	13	13	10	11	10	9	11	11	11
LESS 1000	04	15	18	14	13	18	22	26	22	21	17	15	13	18	13
FT AND/OR	07	14	14	14	16	14	24	26	24	25	22	16	13	19	27
VISIBILITY	10	9	7	7	4	4	2	2	3	3	6	8	9	5	28
LESS 3 MI	13	5	4	2	2	2	1	0	0	1	1	2	5	2	28
	16	3	4	2	1	2	1	0	0	1	1	2	4	2	27
	19	6	4	3	3	4	2	1	1	2	1	3	5	3	19
	22	10	7	4	3	7	6	3	2	3	7	7	9	6	16
	ALL HRS	9	8	7	6	7	8	8	7	8	7	7	8	7	21
CEILING	01	11	7	7	4	5	3	1	1	5	6	6	9	6	11
LESS 500	04	11	10	9	7	6	7	7	9	11	10	10	11	9	13
FT AND/OR	07	11	9	9	8	3	5	6	7	12	14	11	9	9	27
VISIBILITY	10	6	4	3	1	2	0	0	0	0	2	5	6	3	28
LESS 1/2 MI	13	2	1	1	1	2	1	0	0	0	0	1	2	1	28
	16	2	2	1	1	2	1	0	0	0	1	2	3	1	27
	19	4	3	2	2	3	1	0	0	0	1	1	3	2	19
	22	7	5	2	2	1	1	0	0	0	2	4	6	3	16
	ALL HRS	6	5	4	3	3	2	2	2	3	4	5	6	4	21
CEILING	01	11	6	6	3	3	2	0	1	4	5	6	9	5	11
LESS 400	04	10	10	9	6	5	5	5	9	9	9	10	10	8	13
FT AND/OR	07	10	9	8	7	2	3	5	6	10	13	11	9	8	27
VISIBILITY	10	5	3	3	1	2	0	0	0	0	1	5	5	2	28
LESS 1/2 MI	13	2	1	1	1	2	1	0	0	0	0	1	2	1	28
	16	1	2	1	1	2	1	0	0	0	1	1	2	1	27
	19	4	3	2	1	2	1	0	0	0	1	1	3	1	19
	22	7	4	2	2	1	1	0	0	0	2	4	6	3	16
	ALL HRS	6	4	4	3	2	1	1	2	3	4	5	5	3	21

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1948	M	M	51.9	55.6	59.3	63.2	67.8	70.0	68.6	64.1	55.6	52.8	M
1946	52.8	50.1	53.8	59.1	60.3	65.7	69.1	69.8	70.4	61.3	56.1	53.3	60.2
1947	50.6	53.7	57.1	59.7	62.6	65.2	68.4	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	58.4P	M	M
1952	50.7P	53.5P	M	M	M	M	66.7P	M	M	M	M	M	M
1953	M	M	M	M	60.2	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	M	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	64.3	68.4	71.4	70.4	66.3	58.8P	M	M
1964	M	M	M	M	M	M	M	M	M	M	M	M	M
1965	M	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	56.0	52.2	61.8	62.8	70.9	73.8	71.3	66.3	61.6	52.2	M
1968	53.6	58.6	58.9	M	65.6	66.9	72.0	71.4	69.4P	64.8	59.6	52.0	M
1969	56.6	53.7	54.2	60.3	63.2	64.9	70.4	73.8	M	M	M	57.0P	M
1970	53.3	58.7	58.9	58.7	64.3	67.6	72.0	73.5	71.5	68.0	59.2	53.1	63.2
1971	53.7	53.7	55.5	57.6	59.4	66.7	70.4	75.2	71.6	62.6	57.0	51.2	61.0
1972	52.4	48.6	59.6	56.9	65.4	67.6	72.3	73.3	69.6	64.8	58.2	53.6	62.4
1973	52.0	53.3	51.7	57.2	61.1	66.9	69.0	68.8	66.6	63.8	56.1	54.7	60.3
1974	52.8	54.7	56.8	58.9	63.1	68.0	71.9	70.1	71.0P	65.1	59.9	54.9	M
1975	54.4	54.1	55.3	58.7	61.2	64.4	70.2	69.2	71.1	64.0	58.7	54.3	61.1
1976	57.0	57.1	57.5	58.0	60.0	69.3	72.3	71.3	71.5	68.7	64.3	57.3	64.1
1977	54.8	58.9	59.1	61.2	60.9	67.0	71.2	73.0	69.7	66.8	61.4	59.8	63.5
MEAN	54.0	55.5	56.0	58.1	62.0	65.9	70.4	71.8	70.5	64.9	58.9	54.1	61.8

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	2.48	.01	T	T	T	.02	.00	.08	.27	3.05	M
1946	.19	.29	2.10	.37	.01	T	.00	.00P	.11	.20	4.27	1.90	M
1947	.19	.84	.38	.12	.29	.02	.00	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	T	M	M	M	M	M	M
1953	M	M	M	M	.01	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	M	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	.09	.00	.11	1.09	.04	3.22P	M	M
1964	M	M	M	M	M	M	M	M	M	M	M	M	M
1965	M	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	1.98	4.05	.08	T	.00	.00	.49	T	2.33	1.10	M
1968	.05	.98	1.48	M	.16	T	.12	.00	T	.21	.36	1.19	M
1969	6.61	7.25	.66	.97	.05	T	.06	.00	M	M	M	.03P	M
1970	1.66	1.23P	1.00P	T	T	.05	T	.00	T	T	1.86	2.48	M
1971	.98	.93	.16	.38	.46	.03	T	.00	T	.07	.08	3.24	5.83
1972	T	.01	T	.08	.03	.20	.00	.34	.05	.21	2.65	1.45	5.13
1973	3.11	9.91	2.31	.04	.09	.01	T	T	T	.08	1.38	.26	11.14
1974	4.08	.92	2.91	.33	.16	.07	T	T	T	.41	.07	3.80	12.17
1975	.48	1.23	2.97	2.33	.12	T	T	T	T	.44	.43	.27	8.27
1976	.00	2.32	1.10	1.23	.10	.66	T	T	1.04	.01	.46	.91	8.78
1977	2.65	1.09	.69	T	2.59	.02	.18	1.74	T	T	.05	2.39	11.96
MEAN	1.73	1.64	1.44	.76	.28	.06	.02	.21	.33	.23	1.19	1.86	9.77

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45									405	281	171	98	M
45-46	0	3	18	37	287	371	371	410	339	176	139	18	2187
46-47	4	1	0	118	297	397	441	294	238	168	84	16	1958
47-48	0	M	M	M	M	M	M	M	M	M	M	M	M
50-51	M	M	M	M	M	M	M	M	M	M	M	M	M
51-52	M	M	M	M	M	M	M	M	M	M	M	M	M
52-53	M	M	M	M	M	M	M	M	M	M	136	M	M
53-54	M	M	M	M	M	M	M	M	M	M	M	M	M
62-63	M	M	M	M	M	M	M	M	M	M	M	91	M
63-64	0	0	0	10	M	M	M	M	M	M	M	M	M
66-67	M	M	M	M	M	M	M	M	272	277	116	70	M
67-68	0	0	0	30	101	393	345	173	184	M	68	10	M
68-69	1	0	M	37	161	398	261	310	272	138	60	17	M
69-70	0	0	M	M	M	M	288	148	194	101	37	9	M
70-71	0	0	0	41	181	363	346	310	289	221	179	84	1980
71-72	1	0	12	185	234	418	384	284	179	149	85	2	1903
72-73	0	0	2	49	197	394	396	282	404	226	127	24	2042
73-74	0	0	4	44	202	316	370	283	267	147	70	2	1770
74-75	0	0	M	38	171	321	323	298	291	272	116	24	M
75-76	0	0	0	72	198	326	251	224	235	202	27	10	1549
76-77	0	0	0	9	68	293	251	165	300	108	121	4	1261
77-78	0	0	0	81	111	193							
MEAN	0	1	5	54	186	334	326	262	274	205	109	23	1781

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945			3	0	0	7	91	146	137	33	9	0	M
1946	0	0	0	2	7	46	135	193	178	15	0	0	592
1947	0	0	0	14	18	29	115	M	M	M	M	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	M	M	M	M	M	M	M	M	M	M	M	M
1950	M	M	M	M	M	M	M	M	M	M	M	M	M
1951	M	M	M	M	M	M	M	M	M	M	M	M	M
1952	M	M	M	M	M	M	M	M	M	M	M	M	M
1953	M	M	M	M	16	M	M	M	M	M	M	M	M
1954	M	M	M	M	M	M	M	M	M	M	M	M	M
1955	M	M	M	M	M	M	M	M	M	M	M	M	M
1956	M	M	M	M	M	M	M	M	M	M	M	M	M
1957	M	M	M	M	M	M	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	M	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	20	110	203	237	69	M	M	M
1964	M	M	M	M	M	M	M	M	M	M	M	M	M
1965	M	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	M	M	M	M
1967	M	M	0	0	28	13	198	283	199	93	4	0	M
1968	0	2	0	M	22	17	223	282	M	39	3	0	M
1969	8	0	6	1	11	22	178	278	M	M	M	M	M
1970	0	0	2	0	42	92	224	270	199	48	18	0	895
1971	1	0	0	7	5	49	173	223	212	83	0	0	809
1972	0	0	0	3	43	82	241	266	162	69	0	7	882
1973	0	0	0	0	12	68	181	185	89	33	2	0	492
1974	0	0	0	3	19	99	219	166	M	49	6	0	M
1975	0	0	0	0	3	13	197	184	191	47	18	0	872
1976	13	0	1	1	28	193	233	202	201	131	93	1	1024
1977	9	0	0	3	4	73	200	258	190	83	8	0	784
MEAN	2	0	1	3	18	88	179	217	174	88	10	1	717

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

SANTA ANA, CALIFORNIA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
93114	Santa Ana, California	33°42'N	117°50'W	54	KNTK	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather serviee office	MCAF	1951	1965	33°42'N	117°49'W	61	Mercurial	Var
2.	West wall, weather service office	"	1965		"	117°50'W	61	"	"
1a.	GMQ, 14B console	"	1966		"	"	63	Aneroid	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1952	Atop hangar	*Selsyn		200'	1. Barograph (ML-3-A) 2. Hygrothermograph 3. Ceiling light (ML-121)
1a.	1960	150' west of runway 24	**UMQ-5	RD-108B	10'	4. Cloud height set (GMQ-13) 5. Theodolite (R-18-T 581) 6. Transmissometer (GMQ-10) 7. Semi-auto met sta (GMQ-14B)
		* Date disassembled unknown. ** Date first installed unknown.				

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Weather Service Environmental Detachment Souda Bay is located on the Royal Hellenic Air Force Base on the Akrotiri peninsula of Crete. The Akrotiri peninsula is on the north side of Crete about 35 miles from the western end of the island. A low range of mountains is located north of the base about 1 mile. The highest peak is 1732 feet.

The island of Crete is 160 miles long and from 7 to 35 miles wide. It has rugged terrain with a mountainous backbone extending the length of the island. There a few north/south oriented valleys cleaving passages through the backbone. The highest mountain peaks are slightly above 8,000 feet.

The climate of Souda Bay is typical of the Mediterranean. This climate is characterized by hot, dry summers from May to October with a mild/cool rainy winter. Temperatures rarely drop below freezing along the coasts, but snow is seen frequently in the mountains during the winter months. Snow lingers until late spring on the higher peaks.

The prevailing synoptic pressure patterns over the eastern Mediterranean coupled with the topography of Crete produce a prevailing surface wind at Souda Bay from the northwest quadrant.

SOUDA BAY, CRETE

PREPARED BY: NWSO ASHEVILLE — STATION NAME: SOUDA BAY, CRETE — PERIOD: JAN 75-DEC 77 — STN LTRS: KSNC
JUNE 1978 — LOCATION: N35 32 E24 09 — ELEV: 480 — WBAN #: 33209 — WMO #: 16746

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F DAILY MEAN MAX	MEAN MIN	MON MEAN	EXTREMES MAX	EXTREMES MIN	PRECIPITATION MONTH MEAN	INCHES MAX	INCHES MIN	SNOWFALL MN MAX 24 HR	SNOWFALL MAX 24 HR	SNOWFALL MAX MONTH	RELATIVE HUM 04 LST	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	PC VLG DRCTN	WINDS SPEED MN	WINDS MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL .1 OR GTR	SNOWFALL 1.5 OR GTR	THUNDER OBS R	VSBY FOG < 7MI	MAX DEG > 90	MAX DEG > 80	MIN AND < 32	MIN AND < 00
JAN	58	46	53	71	34		1.7	1.7	2.6	#	#	#	65	.29	44	1000	W	7		7	12	1	0	0	2	0	0	0	0	0
FEB	61	47	54	80	35		1.2	1.2	1.3	#	#	#	59	.28	43	950	W	6		7	5	1	0	0	1	0	0	1	0	0
MAR	62	47	55	82	33		7.2	3.0	2.2	#	#	#	64	.32	47	900	W	6		6	12	4	0	0	3	#	0	1	#	0
APR	68	53	61	87	43		2.5	1.6	1.2	0	0	0	54	.35	49	1000	W	7		5	7	1	0	0	1	2	0	2	0	0
MAY	77	60	69	95	48		#	#	#	0	0	0	49	.42	54	600	W	6		4	1	0	0	0	#	3	2	9	0	0
JUN	84	66	75	95	57		.1	#	.1	0	0	0	43	.45	56	800	W	6		1	1	0	0	0	1	2	3	25	0	0
JUL	87	70	78	106	61		.1	#	.1	0	0	0	40	.50	59	750	W	6		1	1	0	0	0	#	1	8	28	0	0
AUG	85	69	77	100	61		.1	#	.1	0	0	0	43	.50	59	750	W	5		1	#	0	0	0	0	0	8	27	0	0
SEP	80	64	72	95	55		3.0	#	2.0	0	0	0	51	.49	58	700	W	6		3	3	2	0	0	2	2	1	16	0	0
OCT	72	57	65	85	47		3.2	1.4	1.8	0	0	0	63	.47	57	900	W	5	27	5	7	1	0	0	1	3	0	4	0	0
NOV	68	54	61	84	38		3.5	.8	1.2	#	#	#	69	.39	52	850	W	6	36	6	9	1	0	0	2	1	0	1	0	0
DEC	60	47	54	75	37		2.5	2.5	1.3	#	#	#	67	.31	46	1000	W	5		7	11	2	0	0	4	2	0	0	0	0
ANN	72	57	64	106	33		7.2	#	2.6	#	#	#	55	.39	52	900	W	6	36	5	69	13	0	0	17	16	24	114	#	0
EYR	2	2	2	2	2		2	2	2	2	2	2	1	1	1	1	1	1	0	1	2	2	2	2	3	3	2	2	2	2

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA	% HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING		02														0
LESS 5000		05						0	58	52	50	0	17		37	1
FT AND/OR		08	90	91	84	77	64	33	67	63	65	63	54	63	67	2
VISIBILITY		11	89	91	84	80	61	33	59	58	65	60	63	57	66	2
LESS 5 MI		14	85	84	77	77	48	33	48	37	37	44	46	42	59	2
		17	70	80	74	73	60	39	52	40	65	43	39	66	59	1
		20														0
		23														0
	ALL	HRS	84	87	80	77	58	30	58	57	61	51	50	62	62	1
CEILING		02														0
LESS 1500		05						0	55	52	33	0	0		32	1
FT AND/OR		08	44	68	48	63	59	30	64	61	50	39	23	18	46	2
VISIBILITY		11	51	66	47	68	53	32	53	53	47	32	24	18	44	2
LESS 3 MI		14	47	54	45	62	44	32	47	50	43	19	16	18	39	2
		17	45	46	45	59	57	39	52	40	35	17	17	20	36	1
		20														0
		23														0
	ALL	HRS	47	59	46	64	53	28	54	53	44	27	19	19	41	1
CEILING		02														0
LESS 1000		05						0	55	52	33	0	0		32	1
FT AND/OR		08	44	68	47	63	59	30	64	61	50	37	21	16	46	2
VISIBILITY		11	49	66	47	67	53	32	53	53	47	31	23	16	44	2
LESS 2 MI		14	47	54	42	62	44	32	47	50	42	18	16	15	38	2
		17	45	46	42	59	57	39	52	40	29	17	16	15	34	1
		20														0
		23														0
	ALL	HRS	46	59	44	63	53	28	54	53	43	25	19	16	40	1
CEILING		02														0
LESS 200		05						0	55	52	33	0	0		32	1
FT AND/OR		08	44	68	47	62	59	30	64	61	50	37	21	16	46	2
VISIBILITY		11	49	66	47	67	53	32	53	53	47	31	23	16	44	2
LESS 1/2 MI		14	47	54	42	62	44	32	47	50	42	18	16	15	38	2
		17	45	46	42	59	57	39	52	40	24	17	16	14	34	1
		20														0
		23														0
	ALL	HRS	46	59	44	63	53	28	54	53	43	25	19	15	40	1

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1975	M	M	M	M	M	M	M	M	M	M	61.1P	M	M
1976	M	90.5P	86.4	80.8	67.3P	78.3	78.0	76.9	71.5	67.1	59.2	55.1	M
1977	52.3	57.2	56.4	60.1	69.5	76.3	81.3	79.3	72.1	62.6	62.2	52.1P	M

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1975	M	M	M	M	M	M	M	M	M	M	3.08	M	M
1976	M	4.62P	7.19	1.87	.08P	.08	.10	.14	T	3.20	3.35	5.51	M
1977	1.74	1.21	3.01	2.92	.02	T	.03	.00	3.02	1.63	.77	0.78P	M

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
74-75													M
75-76	M	M	M	M	M	M	M	M	823	139	M	0	M
76-77	0	0	1	27	175	302	385	219	932	159	14	0	1014
77-78	0	0	21	109	69	M							

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1975													M
1976	M	M	0	20	M	257	315	313	288	101	9	1	M
1977	0	7	11	83	192	382	810	482	289	94	12	M	M

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

SOUDA BAY, CRETE

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
33209	Souda Bay, Crete	35°32'N	24°09'E	480	KQNC	16746

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Primary weather van	Navy	1978		35°32'N	24°09'E	468	Aneroid	17

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	2/78	1000 ft South of van	UMQ-5A	RD-108B	20'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Naval Air Station South Weymouth, Massachusetts, is in the zone of prevailing westerlies. This results in a variety and sometimes rapid change of weather elements. The Appalachian-Adirondack mountain chain acts as an effective barrier to many large systems and results in a general decrease in the water content of those systems which overcome this barrier.

Winter months are characterized by alternate periods of relatively warm, tropical air and cold outbreaks of continental polar or occasionally continental arctic air from the interior. The polar outbreaks bring high winds and heavy precipitation. During the summer season, the Bermuda high becomes the predominate feature of the western Atlantic weather pattern. Warm, moist, maritime tropical air flowing around the western periphery of the Bermuda high is marked by large areas of coastal fog which persists for long periods up to 50 to 100 miles off the coast.

Precipitation is fairly well distributed throughout the year. The annual snowfall accounts for 10.5% of the annual precipitation. Coastal storms, "northeasters", contribute significantly to precipitation amounts during the months of December to April. Summer precipitation amounts are primarily due to frontal rainshowers and air mass type thunderstorms. There is no significant dry season for the area.

The prevailing wind is south-southwest and the average velocity is slightly greater than 7 knots. A significant deviation from the average occurs during the winter months when the prevailing direction becomes west.

Advection/sea fogs are most frequent locally during the early summer. The existence of the cold Labrador Current in the immediate off-shore area to the east of the station is the prime factor causing the fog. Sea fog may be advected in over land by onshore sea breeze winds. Radiation fog becomes most frequent and intense in the autumn. The early autumn season, locally, is typified by partly cloudy days and mostly clear nights which are conducive to the formation of radiation fogs. Maximum fog conditions are usually experienced during the first two hours of daylight. This radiation fog usually dissipates rapidly after 3-4 hours of daylight.

Flying conditions are fairly consistent throughout the year with Visual Flight Rules (VFR) averaging 80-83% of the time. Marginal flying conditions average 14-18% and below field minimums exist 2-4% of the time. During the spring and summer months, clear skies prevail 15-20% of the time increasing to 25-30% during the fall and winter months. Frequently during the summer months haze reduces visibility at the surface and aloft. The haze layer occasionally extends to a height of 10,000 feet.

The hurricane season for the region normally extends from June through November. Most storms that affect this area occur in the months of August and September.

SOUTH WEYMOUTH, MASSACHUSETTS

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: SOUTH WEYMOUTH, MASS
LOCATION : N4209 W70 56

PERIOD: JAN 54-DEC 77
ELEV : 161

STN LTRS: KNZW
WBAN # : 14790
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	SNOWFALL INCHES MAX	MAX 24 HR	MAX HUM LST 04	MAX HUM LST 13	VAPOR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN CLD AMT IN TENTH	PRECIP .01 DR GTR	PRECIP .5 DR GTR	SNOWFALL .1 DR GTR	SNOWFALL 1.5 DR GTR	THUNDER	VSBY FOG < 7MI	MAX DEG > 90	MAX DEG > 75	MIN DEG < 32	MIN DEG < 00
JAN	35	19	63	-12	3.9	9.6	.8	2.7	12	31	15	71 60	.10	17	1050	W	8	51	6	11	2	5	2	#	12	0	0	28	2
FEB	37	20	68	-10	4.0	4.4	1.7	2.7	13	43	12	70 59	.10	18	1150	W	8	60	6	11	3	6	3	#	11	0	0	25	1
MAR	45	29	79	2	3.9	8.1	1.5	3.9	10	25	13	72 56	.14	25	1100	W	9	62	6	11	2	4	2	1	14	0	#	21	0
APR	57	38	88	15	3.4	8.0	1.5	2.8	1	8	8	72 49	.19	33	950	SSW	9	51	6	11	3	1	#	1	13	#	2	8	0
MAY	68	47	58	95	28	3.2	8.2	.5	2.9	#	#	# 76 49	.28	43	750	SSW	7	46	6	11	2	0	0	2	16	#	8	#	0
JUN	77	57	67	96	38	2.7	4.9	.7	1.6	0	0	0	82 55	.44	55	700	SSW	7	52	6	11	2	0	0	4	20	2	19	0	0
JUL	82	63	73	99	45	3.5	4.9	.7	2.1	0	0	0	83 54	.54	61	600	SSW	6	51	6	9	2	0	0	4	19	3	27	0	0
AUG	80	61	71	102	38	3.6	17.6	1.1	6.2	0	0	0	82 55	.52	60	550	SSW	6	47	6	9	2	0	0	4	20	2	24	0	0
SEP	72	54	63	94	33	3.4	8.3	.6	3.9	0	0	0	84 58	.42	54	650	SSW	6	61	6	9	2	0	0	2	19	1	12	#	0
OCT	63	44	54	88	18	3.7	8.9	1.2	2.6	#	1	1	80 55	.28	43	800	SSW	6	43	5	9	2	#	0	1	17	0	4	6	0
NOV	51	35	43	78	13	4.3	7.7	.7	2.8	1	4	3	78 59	.19	33	1000	W	7	51	6	12	3	1	#	1	16	0	#	13	0
DEC	39	23	31	66	-8	4.9	9.5	1.2	2.7	10	30	14	73 61	.12	22	1100	W	8	54	6	12	3	5	2	#	14	0	0	25	#
ANN	59	41	50	102	-12	44.1	17.6	.5	6.2	47	43	15	77 56	.24	39	900	SSW	7	62	6	126	28	22	9	20	191	8	96	124	3
EYR	24	24	24	24	24	24	24	24	24	24	24	24	22 22	22	22	22	22	23	22	24	24	24	24	21	21	24	24	24	24

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER *PRESS ALT FEET 99.95%* INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	35	30	34	28	30	30	25	27	30	28	38	38	31	18
LESS 5000	04	35	30	32	31	33	34	33	30	33	30	38	38	33	18
FT AND/OR	07	35	35	34	33	32	32	31	29	34	34	38	36	34	24
VISIBILITY	10	30	35	39	36	30	33	29	23	31	31	36	34	32	24
LESS 3 MI	13	29	37	42	36	31	36	33	30	34	32	38	34	34	24
	16	29	32	36	31	27	28	25	23	26	28	34	34	29	24
	19	27	28	32	30	26	24	19	20	25	24	31	33	27	24
	22	31	30	32	26	28	30	20	22	27	27	33	35	29	20
	ALL HRS	31	32	36	31	30	31	27	25	30	29	35	35	31	22
CEILING	01	16	15	17	15	20	21	17	16	16	16	17	16	17	18
LESS 1000	04	15	14	18	17	21	23	20	19	21	17	16	17	18	18
FT AND/OR	07	15	18	19	20	20	22	21	19	22	20	17	18	19	24
VISIBILITY	10	15	17	17	15	15	16	11	10	15	13	17	17	15	24
LESS 3 MI	13	13	15	16	12	11	11	6	7	12	10	14	16	12	24
	16	13	13	15	11	11	10	6	7	10	10	13	17	11	24
	19	13	14	16	14	14	11	9	10	13	11	14	15	13	24
	22	14	15	15	14	18	18	12	14	14	14	16	15	15	20
	ALL HRS	14	15	17	15	16	16	12	12	15	14	15	16	15	22
CEILING	01	7	5	8	6	8	11	8	7	8	7	9	7	8	18
LESS 400	04	7	6	10	7	11	12	9	9	11	9	8	8	9	18
FT AND/OR	07	7	7	8	7	8	8	7	7	10	9	7	6	8	24
VISIBILITY	10	6	6	6	3	3	2	2	2	4	3	5	6	4	24
LESS 1 MI	13	6	4	5	2	2	2	1	2	2	1	3	4	3	24
	16	5	6	5	2	2	3	1	2	3	2	4	5	3	24
	19	6	7	7	5	4	4	1	3	5	4	5	6	5	24
	22	6	6	7	4	8	9	3	5	5	6	8	6	6	20
	ALL HRS	6	6	7	4	5	6	4	4	6	5	6	6	5	22
CEILING	01	3	3	3	2	4	5	4	3	4	4	4	2	3	18
LESS 200	04	2	3	3	3	5	6	5	4	5	7	4	3	4	18
FT AND/OR	07	2	3	3	2	2	1	1	3	5	5	3	3	3	24
VISIBILITY	10	1	2	2	0	0	0	0	0	0	1	1	2	1	24
LESS 1/2 MI	13	2	1	2	0	0	0	0	0	0	0	1	1	1	24
	16	2	2	2	0	0	0	0	1	1	1	0	1	1	24
	19	2	2	3	1	1	1	0	1	2	1	2	2	1	24
	22	2	2	4	2	2	3	1	2	2	2	3	2	2	20
	ALL HRS	2	2	3	1	2	2	1	2	2	2	2	2	2	22

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1954	M	M	M	49.3	55.4	66.0	71.0	68.6P	65.0	58.0	46.0	32.3	M
1955	27.1	31.1	36.3	47.9	60.5	65.2	75.9	73.2	62.4	53.7	40.5	24.7	49.9
1956	29.2	30.5	32.7	43.8	58.3	67.4	69.8	70.1	59.4	52.7	44.0	33.2	49.0
1957	20.7	32.0	37.4	48.4	58.2	69.6	72.3	68.2	64.4	53.8	43.2	30.6	50.9
1958	30.0	34.1	38.0	48.3	58.4	68.7	71.6	70.4	62.8	51.3	43.8	24.8	48.7
1959	27.4	29.6	36.1	48.4	61.3	68.8	72.9	72.7	67.0	53.6	42.9	34.3	50.5
1960	29.3	34.8	31.7	48.2	60.3	68.1	71.4	71.3	62.3	53.3	44.7	24.3	50.0
1961	21.0	27.0	38.3	48.1	56.4	67.0	70.4	68.5	67.4	54.6P	43.2	31.0	M
1962	26.6	24.1P	37.3	48.4	57.7P	69.8	67.4	67.1	59.3P	51.1P	38.6	25.6P	M
1963	26.5	23.4	36.6	46.1	56.0	67.0P	71.5	67.8P	58.0	56.1	48.9	22.7	M
1964	28.7	26.8	39.7P	47.7	60.3	68.8	M	66.6P	59.9P	51.3	41.9P	32.2	M
1965	25.8	27.6	34.3	48.4	58.5	66.1	70.8	70.2	62.7	50.7	38.6	32.4	48.5
1966	25.7	27.6	36.1	48.6	56.4	66.8	72.9	70.3	61.3	50.6	43.2	32.8	49.0
1967	33.4	33.3	33.7	45.8	58.1	68.2	73.7	72.8	65.3	52.8	38.9	33.3	49.3
1968	23.1	23.7	38.4	51.2	56.3	68.4	70.7	70.7	64.6	54.9	39.5	29.5	49.2
1969	28.2	28.1	33.8	49.7	57.6	69.6	70.7	73.2	61.1	52.2	42.6	31.4	49.7
1970	18.9	30.2	35.4	48.4	59.5	69.6	73.8	72.3	66.9	55.2	44.5	28.1	49.8
1971	22.4	29.3	36.0	43.2	58.1	69.1	73.6	73.1	66.3	50.7	42.0	33.3	50.8
1972	31.5	27.3	33.2	44.4	57.9	66.4	72.1	69.6	63.9	49.8	41.1	33.4	49.2
1973	31.1	29.2	42.0	49.3	57.2	68.7	71.2	73.4	69.1	55.9	44.2	37.4	51.7
1974	30.0	27.1	38.7	49.4	56.7	69.3	73.4	73.1	69.3	48.6	42.8	33.1	50.1
1975	32.4	30.0	33.9	43.4	61.3	67.1	73.7	71.0	61.9	56.0	50.4	33.1	51.5
1976	29.4	33.3	39.5	53.2	59.3	70.7	71.8	69.3	62.2	50.7	39.9	28.9	50.3
1977	21.1	29.0	42.1	51.4	61.1	66.6	74.4	74.9	64.0	53.0	46.8	32.3	51.4
MEAN	26.8	28.8	36.6	47.3	57.5	66.7	72.3	71.3	63.3	53.3	43.0	31.3	49.8

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1954	M	M	M	3.28	8.17	1.98	2.84	2.30P	M	M	M	1.76P	M
1955	.78	3.70	3.33	3.48	.99	1.01	2.86	17.56	2.32	4.82	7.34	1.26	54.04
1956	7.26	4.44	6.19	3.20	2.44	2.86P	4.92	1.23P	4.79	4.41	3.38	7.06	M
1957	3.00	1.72	3.92	4.22	3.47	.69	.89	2.64	.48	3.08	6.31	2.97	32.50
1958	3.57	3.16	6.11	7.98	4.48	1.70	3.99	5.01P	4.71	3.77	3.58	3.97	M
1959	2.09	3.86	6.19	4.76	2.78	6.93	4.23	2.83	.27	3.51	4.10	4.17	48.72
1960	4.08	4.78	8.18	3.82	5.10	1.45	3.90	5.73	7.36	1.83	2.52	9.00	49.98
1961	3.07	4.44	3.30	4.33	3.99	1.79	2.00	3.22	3.33	3.01	2.09	1.92P	M
1962	3.42P	4.02	1.81	3.31	1.24	2.71	1.06	5.71	2.12	6.93	3.72	4.91	M
1963	3.34	3.86	4.17	1.70	3.27	2.06	2.77	3.84	3.89P	1.27	6.50	2.90P	M
1964	5.30	4.41	1.28P	5.21	.93	.90	2.00	1.26	2.79	2.46	2.67	4.12	M
1965	3.61	3.10	1.62	1.62	.32	3.33	1.62	1.08	3.26	3.12	2.02	1.98	29.36
1966	4.76	3.82	1.54	1.21	3.03	1.08	2.76	1.07	7.28	3.24	4.60	3.24	37.06
1967	2.88	4.28	3.04	3.88	6.58	3.81	2.83	3.81	3.19	1.22	2.99	3.92	42.13
1968	3.74	1.79	3.10	2.01	2.98	9.23	.67	2.10	1.38	2.91	7.09	5.44	43.36
1969	1.72	3.62	3.89	4.11	2.20	1.66	2.81	2.93	3.66	2.19	6.67	3.83	44.41
1970	1.89	4.60	6.16	3.11	2.30	3.82	.98	2.95	1.34	3.28	4.97	6.40	41.68
1971	2.51	4.78	2.74	2.73	3.91	.80	2.68	1.27	1.61	2.91	6.41	2.77	38.07
1972	1.78	3.81	6.06	3.12	3.84	3.19	2.61	1.62	6.12	3.10	7.72	7.11	56.03
1973	3.15	3.46	2.24	4.46	4.28	3.94	3.11	3.67	4.01	2.72	2.07	7.93	44.98
1974	4.94	2.90	4.13	3.86	3.13	3.06	1.20	2.62	4.30	2.81	1.91	3.86	37.74
1975	5.07	4.26	2.78	2.92	1.74	3.19	2.88	4.71	2.30	4.62	3.08	4.11	47.67
1976	6.41	2.78	2.44	1.04	2.53	.84	3.64	7.97	1.62	3.64	.74	3.98	39.04
1977	3.98	2.09	3.93	2.76	3.32	3.19	1.76	3.16	4.64	3.96	2.09	3.93	44.01
MEAN	3.89	4.04	3.88	3.85	3.22	3.70	2.52	3.97	3.63	3.67	4.26	4.96	44.04

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
53-54										672	304	86	M
54-55	0	M	109	276	829	1001	1165	965	883	906	183	93	M
55-56	0	10	122	346	728	1244	1104	992	1010	829	368	95	6608
56-57	16	12	209	379	826	917	1366	891	868	498	233	86	6014
57-58	0	18	84	370	883	812	1076	1139	829	499	298	112	5815
58-59	2	7	117	416	832	1289	1157	1069	887	690	173	100	6309
59-60	1	9	93	381	657	958	1092	878	1030	699	144	27	5725
60-61	0	3	120	361	603	1289	1334	1031	917	651	327	80	6656
61-62	11	14	61	M	648	1067	1185	M	869	691	M	83	M
62-63	25	36	M	M	787	M	1185	1198	871	862	261	M	M
63-64	9	M	214	282	965	1306	1119	1100	M	812	180	61	M
64-65	M	M	M	418	M	1010	1210	1043	938	639	196	93	M
65-66	5	97	132	434	784	1006	1214	1054	828	666	324	69	6553
66-67	2	2	145	490	889	989	975	1107	969	572	366	32	6201
67-68	0	4	99	383	775	976	1291	1193	812	607	320	71	6527
68-69	1	18	70	326	760	1097	1132	1028	962	658	234	41	6127
69-70	3	8	153	393	666	1093	1421	988	913	691	184	61	6296
70-71	0	0	84	321	604	1158	1317	980	888	647	271	82	6280
71-72	0	3	40	190	694	918	1080	1046	919	612	228	79	5784
72-73	9	17	83	484	711	973	1043	994	706	667	243	34	5744
73-74	7	2	123	336	617	848	1080	1053	808	667	326	67	5756
74-75	0	0	113	503	661	982	1005	976	695	642	186	48	5916
75-76	0	14	103	273	488	981	1219	881	785	583	178	33	5234
76-77	1	21	108	445	767	1208	1352	1003	704	405	190	84	6286
77-78	0	8	91	367	560	1006							
MEAN	4	11	112	367	694	1037	1178	1025	873	527	247	89	6096

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1954				10	14	93	172		86	63	1	0	M
1955	0	0	0	0	84	110	249	272	51	3	0	0	817
1956	0	0	0	0	11	138	178	174	49	5	2	0	550
1957	0	0	0	6	31	101	232	123	103	0	0	0	596
1958	0	0	0	0	3	90	220	103	60	6	0	0	482
1959	0	0	0	0	44	72	284	282	160	16	0	0	858
1960	0	0	0	0	4	127	210	206	47	3	0	0	597
1961	0	0	0	0	14	96	190	170	137	M	1	0	M
1962	0	M	0	2	M	92	108	109	M	M	0	1	M
1963	0	0	0	0	9	M	219	M	12	13	0	0	M
1964	0	0	M	0	47	91	M	M	M	0	M	0	M
1965	0	0	0	0	35	133	193	208	71	0	0	0	640
1966	0	0	0	0	3	130	269	173	39	0	0	0	614
1967	0	0	0	3	3	138	273	250	49	12	0	0	730
1968	0	0	0	0	1	91	306	197	67	21	0	0	683
1969	0	0	0	3	13	124	184	267	43	2	0	0	640
1970	0	0	0	0	21	84	281	246	88	21	0	0	781
1971	0	0	0	0	4	132	276	262	147	20	7	0	848
1972	0	0	0	0	13	68	233	144	89	0	0	0	548
1973	0	0	0	3	10	138	267	249	73	1	0	0	719
1974	0	0	0	4	13	84	288	287	69	0	0	0	695
1975	0	0	0	0	49	116	329	288	16	1	1	0	727
1976	0	0	0	36	17	218	220	169	21	7	0	0	691
1977	0	0	0	4	79	111	302	317	67	4	0	0	884
MEAN	0	0	0	3	22	116	239	214	68	9	1	0	671

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

SOUTH WEYMOUTH, MASSACHUSETTS

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
14790	South Weymouth, Massachusetts	42°09'N	70°56'W	161	KNZW	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, south side of hangar #1	Navy	1954	1958	42°09'N	70°56'W	156	Mercurial	24
2.	Same as above	"	1958	1961	"	"	161	"	24
3.	Weather service office, second floor of hangar #1	"	1961	1967	"	"	172	"	24
4.	Weather service office, south side of hangar #1, first floor	"	1968		"	"	156	"	24
1a.	Same as above	"	1967		"	"	158	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed 1954	Atop control tower	AN/UMQ-5	ANX-1-4C	45'	1. Barograph (ML-3) 2. Semi-auto met sta (AN/GMQ-14B) 3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13C) 5. Transmissometer (AN/GMQ-10B)
1a.	"	*Atop control tower	Selsyn	Triple	95'	
2.	1960	839 feet from center line of runway 8-26	AN/UMQ-5	RD/108B	12'	
		*Survey date unknown				

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Whidbey Island, a 30 mile long narrow island with rolling hills, lies in the northern sector of Puget Sound, about 50 miles northwest of Seattle, Washington. No point of land on the island is more than 3 miles from water, with the highest point of land reaching an elevation of 516 feet. The Strait of Juan de Fuca lies to the west. The Olympic Peninsula lies to the southwest, separated from Whidbey Island by the narrow Admiralty Inlet. The Olympic Mountains are located 30-35 miles southwest of the island. The Naval Air Station, Whidbey Island, lies in the "rain shadow" of the Olympic Range. Local area weather is primarily influenced by the Olympic and Cascade Ranges. The Cascade Range is 40 to 45 miles east of the island.

The climate is characterized by equable temperatures, a pronounced, though not sharply defined rainy season, and considerable cloudiness during the winter months. Summertime temperatures are modified by the waters of Puget Sound and the Pacific Ocean. Temperatures at the surface of Puget Sound near the Naval Air Station vary little from 52 degrees F. during the summer. At times during the warm season, a weak elongated area of low pressure develops along the coast and rather dry hot continental air moves toward the low pressure and spreads over Puget Sound. It is under these conditions that Whidbey Island gets its few hot days. A temperature maximum in the low to mid 80's will be experienced under these conditions.

The agreeable temperatures along with the light precipitation are characteristic of the warm season. The dry season is centered around July and August. July is the driest month of the year and December is the wettest. Precipitation is rather evenly distributed through the winter and early spring months. The occurrence of snow is extremely variable and very often when it falls it melts before accumulating a measurable depth. Although snow has been recorded during the months of October through May, the first snowfall of the year is most apt to occur during the month of December. The mean annual snowfall at NAS Whidbey Island is 7.7 inches.

Winds are relatively light during the summer months. The wind regime of fall and winter months results almost entirely from the moving storms common to the middle latitudes.

The poorest flying weather of the year occurs during the months of September through January, when 16% to 18% of all weather observations show conditions below Visual Flight Rule standards. Fog and low stratus are frequently observed during the autumn at Whidbey Island. The highest incidence of fog is observed during the month of October. In the typical case, fog will prevail from it's onset near midnight through late morning of the following day.

WHIDBEY ISLAND, WASHINGTON

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: WHIDBEY ISLAND, WASHINGTON
LOCATION : N48 21 W122 40

PERIOD: APR 45-DEC 77
ELEV : 47

STN LTRS: KNUW
WBAN # : 24295
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MIN	MON EXTREMES MAX	MIN	PRECIPITATION INCHES MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL MN	MAX	MAX 24 HR	RELATIVE HUM LST 04	19	VAP PRES IN HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SPC PVLG DRCTN	WINDS SPEED MN	MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	THUNDER DAYS	VISIBILITY MAX FOG < 7MI	MAX DEG > 80	F = MIN AND < 65	< 32	< 15
JAN	44	34	40	64	-1	2.4	6.1	.7	1.1	3	17	6	85	77	.20	34	900	E	8	60	8	17	1	3	1	#	9	0	0	11	1
FEB	48	36	42	64	6	1.7	3.3	.5	1.3	1	10	6	86	74	.21	36	800	SE	8	58	8	13	#	1	#	#	9	0	0	8	#
MAR	50	37	44	72	16	1.5	2.6	.3	.9	1	16	5	84	69	.22	37	750	SE	8	54	8	14	#	1	#	#	6	0	#	7	#
APR	54	41	48	78	28	1.4	2.8	.1	.9	#	1	1	84	67	.25	40	650	W	8	53	7	12	#	#	0	#	6	0	1	2	0
MAY	59	46	53	82	32	1.1	3.7	.2	1.3	#	#	#	84	67	.30	45	400	W	7	47	7	9	#	0	0	#	6	#	4	#	0
JUN	63	50	56	93	37	1.1	4.7	.1	2.3	0	0	0	86	69	.34	48	300	W	6	39	7	8	#	0	0	#	7	#	9	0	0
JUL	66	52	59	86	41	.7	2.1	#	1.0	0	0	0	87	68	.37	51	250	W	6	46	5	5	#	0	0	1	10	#	14	0	0
AUG	66	52	59	88	42	.9	2.5	#	.9	0	0	0	88	70	.39	52	250	W	5	44	6	6	#	0	0	1	13	#	10	0	0
SEP	64	49	56	87	29	1.1	4.2	.2	2.1	0	0	0	88	71	.35	49	400	W	5	51	6	8	#	0	0	#	14	#	11	#	0
OCT	57	44	51	75	22	1.9	4.4	.6	1.3	#	#	#	88	74	.30	45	650	SE	6	61	7	13	#	0	0	#	16	0	2	1	0
NOV	50	39	45	68	9	2.2	4.1	.6	1.5	#	2	2	86	75	.24	39	800	SE	8	61	8	16	1	#	#	#	11	0	4	4	#
DEC	46	37	42	62	3	2.7	5.1	1.2	1.8	2	13	7	86	79	.22	37	900	SE	9	60	8	18	1	1	#	#	9	0	0	9	#
ANN	56	43	50	93	-1	19.7	6.1	#	2.3	7	17	7	86	72	.28	43	650	W	7	61	7	139	3	6	1	2	116	#	61	44	1
EYR	33	33	33	33	33	33	33	33	33	32	32	32	32	32	32	32	33	33	33	33	29	33	33	32	32	29	29	33	33	33	33

REMARKS: #DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	56	44	41	35	30	34	28	33	33	39	49	56	40	33
LESS 5000	13	57	49	45	44	43	48	48	46	42	47	51	57	48	33
FT AND/OR	07	62	59	54	52	50	54	52	57	51	56	57	61	55	33
VISIBILITY	10	61	54	53	46	43	44	42	43	41	48	53	59	49	33
LESS 5 MI	04	57	49	43	39	31	33	30	29	32	38	48	57	40	33
	16	57	47	40	35	28	29	25	24	27	35	46	56	37	33
	19	53	43	37	35	28	30	24	26	27	31	41	51	35	33
	22	55	43	36	29	26	29	21	26	25	34	44	51	33	33
	ALL HRS	57	49	44	39	35	38	34	36	35	41	49	56	43	33
CEILING	01	12	6	4	3	5	6	10	13	12	9	11	10	8	33
LESS 1000	13	12	8	6	6	9	11	20	21	18	15	11	11	12	33
FT AND/OR	07	13	12	11	12	13	16	25	27	24	20	15	10	17	33
VISIBILITY	10	16	14	12	12	12	12	16	15	17	14	14	14	14	33
LESS 3 MI	04	14	13	12	14	11	11	13	10	13	11	14	14	13	33
	16	16	14	12	15	12	12	14	10	11	10	13	13	13	33
	19	10	6	5	10	11	11	12	11	9	5	6	9	9	33
	22	10	6	3	3	5	6	7	8	7	7	8	9	7	33
	ALL HRS	13	10	8	9	10	11	15	14	14	11	12	11	12	33
CEILING	01	7	4	3	2	4	5	9	12	10	7	7	5	6	33
LESS 700	13	8	5	4	4	7	9	17	18	15	10	7	6	9	33
FT AND/OR	07	8	8	8	9	11	12	22	22	20	15	11	7	13	33
VISIBILITY	10	11	11	9	11	10	10	14	11	13	11	12	10	11	33
LESS 1 MI	04	10	11	11	13	11	10	12	9	11	9	11	10	11	33
	16	11	12	11	15	12	11	14	9	10	9	10	9	11	33
	19	6	5	5	10	11	10	11	11	8	4	3	4	7	33
	22	6	4	3	3	5	5	7	8	6	4	3	5	5	33
	ALL HRS	8	7	7	8	9	9	13	12	12	8	8	7	9	33
CEILING	01	2	2	2	2	2	2	4	5	5	3	2	2	3	33
LESS 100	13	2	1	2	2	4	4	7	6	7	4	2	2	4	33
FT AND/OR	07	3	4	6	6	6	6	8	7	9	7	6	2	6	33
VISIBILITY	10	6	7	7	9	7	7	8	4	6	6	6	6	6	33
LESS 1/4 MI	04	7	9	10	13	11	9	11	7	9	7	7	7	9	33
	16	7	9	11	15	12	11	13	8	9	7	7	7	10	33
	19	2	2	4	10	10	10	11	10	7	2	1	1	6	33
	22	2	1	2	3	3	3	4	4	4	2	2	1	3	33
	ALL HRS	4	3	3	7	7	7	8	6	7	5	4	4	6	33

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	47.3	56.0P	57.6	61.6	60.9	55.9	52.4	43.7	40.5P	M
1946	41.7	42.6	45.8	47.7	53.4	56.3P	59.4	58.1	55.3	49.0	40.9	39.0	M
1947	M	42.6	44.2	48.0	54.2	57.7	59.8	58.6	55.2	51.9	43.6	43.3P	M
1948	40.0	39.3	45.3	46.4	52.1	58.0	59.2	58.9	54.7	48.4P	43.9	37.0	M
1949	M	M	45.7	47.3	52.4	55.2	58.4	57.4	55.2	46.3	47.8	38.9	M
1950	38.9	40.6	42.9	47.1	50.5	56.8	57.4	58.0	54.7	49.6	43.3	45.3	47.5
1951	38.2	40.6	38.4	46.8P	52.1	57.5	58.9	58.4	56.1	50.1	44.8	37.6	M
1952	38.2	41.6	45.3	47.2	51.9P	54.0	57.7	58.7	56.3	51.1	42.8	44.6	M
1953	47.0	43.8	46.6	46.0	53.4	54.5	58.8	60.7	57.0	52.6	49.5	44.0	51.3
1954	37.4	43.2	41.9	46.3	52.1	54.4	56.7	57.4	57.1	50.3	50.2	43.8	49.2
1955	41.0	40.1	40.0	48.0	49.7	53.7	58.4	56.5	54.3	49.2	39.0	38.1	46.8
1956	39.2	38.4	41.1	47.1	53.0	54.8	58.8	58.2	54.7	49.8	43.0	41.1	48.1
1957	38.1	38.4	44.1	48.1	54.3	56.7	57.8	58.5	58.1	49.8	44.2	44.4	49.0
1958	44.9	47.1	44.6	48.6	53.6	59.3	61.5	60.4	56.8	51.6	43.7	44.9	51.6
1959	40.7	40.9	44.5	48.6	52.1	58.4	60.9	58.4	55.9	51.7	43.2	40.8	49.7
1960	39.3	41.4	43.4	48.4	52.8	55.7	59.6	59.6	55.9	51.4	44.1	40.8	49.2
1961	44.4	45.9	46.7	52.8	55.5	57.2	59.0	62.5	56.2	49.9	44.4	41.7	50.4
1962	38.6	41.6	41.1	47.8	50.8	55.2	57.8	59.7	58.8	53.0	47.5	43.2	49.6
1963	35.4	45.8	44.6	48.6	53.6	56.0	58.0	58.7	58.2	54.0	46.1	43.6	50.2
1964	44.8	41.9	41.8	45.6	48.6	56.1	58.3	60.1	54.1	49.9	42.3	36.3	48.2
1965	39.8	43.3	42.9	48.4	50.3	56.6	59.0	59.5	54.2	52.6	48.4	41.3	49.7
1966	42.1	43.0	44.3	48.8	51.4	56.0	57.3	58.6	57.9	50.3	46.5	45.4	50.1
1967	43.8	43.5	43.8	46.4	53.1	58.8	60.5	61.6	62.2	54.8	46.0	42.1	51.4
1968	41.3	44.2	48.1	47.1	53.3	58.0	61.1	59.5	55.0	49.1	43.7	36.8	49.9
1969	32.0	40.7	49.4	48.8	53.8	60.8	57.9	59.7	56.0	44.7	42.7	42.1	49.4
1970	40.2	44.1	44.8	46.8	51.7	57.4	58.6	58.5	55.8	50.1	46.1	41.0	49.6
1971	41.5	42.8	45.0	47.7	51.5	55.3	57.2	60.6	54.4	47.2	44.3	35.6	48.3
1972	36.1	40.0	45.0	45.3	53.3	55.1	58.7	59.3	55.6	46.6	44.7	37.2	47.8
1973	39.6	41.8	45.1	47.6	52.7	55.9	58.5	56.8	57.9	50.4	42.6	43.8	49.4
1974	37.8	42.0	43.9	46.1	50.4	56.0	58.8	59.4	54.9	49.7	46.5	44.7	49.4
1975	39.6	39.6	42.9	45.5	51.8	54.7	57.8	57.1	55.9	51.1	44.7	40.9	48.4
1976	42.3	41.8	42.0	48.7	51.5	54.3	57.7	59.9	59.9	48.7	43.2	43.9	48.8
1977	38.6	44.9	48.7	47.6	50.1	55.2	56.9	60.5	55.7	49.7	42.0	40.0	48.7
MEAN	39.4	42.1	43.7	47.6	52.4	56.2	58.7	58.9	56.0	50.3	44.6	41.3	49.3

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	M	M	2.82	1.48P	.16	T	.80	2.80P	4.44	1.22	.39P	M
1946	1.58	1.87	1.98	1.80	.28	4.67	.55	.44	.85	1.52	1.23	3.01	19.95
1947	M	1.92	1.06	1.86	.98	1.68	.48	.46	1.18	2.47	3.83	2.11P	M
1948	1.83	4.23	1.24	1.29	3.68	2.21	1.13	1.91	1.93	2.12P	1.94	3.31	M
1949	M	M	1.52	1.17	.63	.66	1.05	1.11	1.09	3.32	3.89	3.14	M
1950	2.65	1.76	2.48	1.33	.20	.25	1.24	1.13	.56	1.38	2.46	2.08	17.52
1951	3.28	1.92	1.98	.22P	1.19	.38	.03	.85	.98	3.11	2.10	2.97	M
1952	1.49	1.06	2.37	1.24	.30P	1.02	.69	.19	.62	1.48	.38	1.22	M
1953	3.31	1.71	1.27	.98	1.27	1.03	.28	.67	.37	1.71	2.99	2.88	17.99
1954	3.27	2.19	.67	1.44	1.19	1.90	.75	2.52	1.70	1.12	3.43	3.00	22.13
1955	1.53	3.07	1.79	.98	2.17	2.20	1.74	.15	.44	1.73	2.88	2.20	20.89
1956	2.42	2.07	2.20	.07	.28	1.93	.22	1.13	1.67	4.03	1.16	4.97	21.99
1957	2.23	2.06	1.92	.91	.20	.99	.76	.89	.17	.98	1.83	1.89	15.81
1958	1.49	1.82	.73	1.32	.73	1.13	T	.07	.87	3.00	4.06	2.40	17.99
1959	3.29	2.09	1.34	1.85	1.59	.86	.15	.62	2.00	1.73	3.33	3.74	22.69
1960	2.41	.88	1.01	1.61	1.70	.60	T	1.68	.72	1.42	3.71	1.22	17.35
1961	1.28	3.27	2.11	2.89	1.54	.97	1.05	.72	.89	1.68	2.19	1.92	19.50
1962	1.04	1.16	2.08	.91	.88	.60	.17	2.01	1.34	2.16	3.24	1.72	17.31
1963	.88	2.18	.85	2.36	.77	.07	.87	.54	2.08	2.58	3.22	1.64	17.84
1964	2.65	1.18	1.92	.91	1.24	1.36	.85	.90	2.65	.36	1.74	3.12	19.25
1965	4.46	2.08	.30	1.12	1.07	.81	.17	1.43	.79	1.05	1.21	2.32	16.36
1966	2.07	1.08	1.87	1.13	1.54	.89	2.11	.65	1.30	1.28	1.78	2.49	18.19
1967	2.64	1.78	1.28	1.09	1.15	1.02	.19	.04	.07	3.55	.86	4.00	18.87
1968	1.28	1.90	1.85	.46	1.36	.83	.43	1.50	.06	1.59	1.98	2.49	16.01
1969	2.55	.82	.65	2.02	.50	.46	.27	.42	2.04	.89	.75	2.19	13.56
1970	2.28	.96	.42	1.75	1.08	.80	.44	.09	4.22	2.10	1.70	1.78	17.25
1971	6.09	1.41	1.67	.43	.81	1.90	.76	.14	1.24	1.33	2.93	4.70	29.43
1972	2.80	2.07	1.76	2.26	.60	1.91	.93	.91	1.38	1.02	1.30	4.09	21.23
1973	1.20	.93	1.08	.72	.40	1.22	.11	.65	.69	1.77	2.22	1.73P	M
1974	3.38	1.45	1.30	.87	.84	.32	1.49	.01	.19	.86	1.44	2.18	14.48
1975	3.92	2.46	1.07	1.48	1.00	1.07	1.23	1.73	.17	1.61	2.93	3.92	22.19
1976	2.40	2.91	.87	1.07	1.17	.97	.45	2.03	.73	.87	.67	1.41	15.85
1977	1.49	.98	1.30	1.30	1.94	.11	.76	1.73	1.61	1.43	1.89	1.77	16.11
MEAN	2.43	1.70	1.49	1.37	1.09	1.10	.65	.88	1.19	1.85	2.19	2.72	18.60

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										826		216	M
45-46	106	123	268	384	632	M	716	625	684	512	333	M	M
46-47	170	207	289	590	717	801	M	625	660	474	328	212	M
47-48	158	193	288	400	633	M	767	736	666	593	394	202	M
48-49	176	181	304	M	629	860	M	M	652	517	383	289	M
49-50	256	228	286	574	909	806	1269	977	679	529	462	240	6495
50-51	231	248	301	471	644	594	824	693	781	M	392	222	M
51-52	190	199	261	454	599	847	824	670	665	530	M	326	M
52-53	221	191	254	481	659	630	949	590	600	472	352	309	5248
53-54	186	191	234	379	462	645	849	605	710	553	396	312	5462
54-55	252	226	235	440	436	668	738	693	763	591	469	337	5845
55-56	291	246	314	482	773	825	795	821	732	531	363	300	6479
56-57	192	205	305	473	657	733	982	799	638	469	324	241	5938
57-58	219	191	199	462	616	691	817	696	625	484	283	168	4991
58-59	115	158	240	407	633	619	748	670	630	488	396	192	5277
59-60	130	200	264	406	647	748	790	676	666	492	373	274	5663
60-61	160	171	327	413	621	780	633	528	589	367	288	288	5065
61-62	169	78	262	482	613	716	812	686	703	510	432	289	5780
62-63	218	159	180	366	517	670	912	536	624	486	349	269	5280
63-64	219	148	196	334	561	662	618	662	710	635	500	297	5537
64-65	203	150	321	460	675	874	772	602	678	490	449	246	5920
65-66	179	146	318	375	684	726	700	610	633	477	415	264	5392
66-67	229	194	204	442	590	800	631	599	648	591	363	178	5213
67-68	139	108	98	310	561	703	727	599	514	531	295	202	4787
68-69	119	162	292	490	633	868	1019	674	605	479	283	183	5807
69-70	123	217	271	457	606	685	764	578	620	540	406	228	5494
70-71	190	198	269	458	599	758	723	618	678	511	408	347	5888
71-72	238	196	311	564	613	903	930	721	611	590	395	292	6284
72-73	162	171	333	504	606	856	782	640	611	512	378	269	5878
73-74	195	248	205	446	665	648	837	658	651	471	446	282	5713
74-75	186	171	240	486	569	821	778	706	680	580	402	303	5880
75-76	216	257	265	420	604	763	699	666	709	485	412	316	5772
76-77	216	276	269	499	647	809	584	590	520	436	296	290	5791
77-78	249	143	274	331	682	765							
MEAN	191	185	269	448	606	728	788	642	655	514	383	258	5659

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945				0		0	5	3	0	0	0		M
1946	0	0	0	0	0	M	4	0	0	0	0	0	M
1947	M	0	0	0	0	0	0	0	0	0	0	M	M
1948	0	0	0	0	0	0	0	1	0	M	0	0	M
1949	M	M	0	0	0	0	0	0	0	0	0	0	M
1950	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	0	0	0	M	0	5	8	0	0	0	0	0	M
1952	0	0	0	0	M	0	1	3	0	0	0	0	M
1953	0	0	0	0	1	0	1	1	0	0	0	0	3
1954	0	0	0	0	0	0	0	0	0	0	0	0	0
1955	0	0	0	0	0	4	0	0	0	0	0	0	4
1956	0	0	0	0	0	0	4	0	0	0	0	0	4
1957	0	0	0	0	0	0	0	0	1	0	0	0	1
1958	0	0	0	0	0	2	13	1	2	0	0	0	18
1959	0	0	0	0	2	0	6	0	0	0	0	0	8
1960	0	0	0	0	0	0	0	12	0	0	0	0	12
1961	0	0	0	0	0	0	11	7	2	0	0	0	20
1962	0	0	0	0	0	0	0	1	0	0	0	0	1
1963	0	0	0	0	1	0	0	0	0	3	0	0	4
1964	0	0	0	0	0	0	0	6	0	0	0	0	6
1965	0	0	0	0	0	0	2	3	0	0	0	0	5
1966	0	0	0	0	0	0	0	0	0	0	0	0	0
1967	0	0	0	0	0	0	1	11	19	0	0	0	31
1968	0	0	0	0	0	0	5	0	0	0	0	0	5
1969	0	0	0	0	2	4	0	0	0	0	0	0	6
1970	0	0	0	0	0	0	7	0	0	0	0	0	7
1971	0	0	0	0	0	0	3	5	0	0	0	0	8
1972	0	0	0	0	0	0	5	3	0	0	0	0	8
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	1	2	0	0	0	0	3
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	13	0	0	0	13
MEAN	0	0	0	0	0	1	2	2	1	0	0	0	6

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

WHIDBEY ISLAND, WASHINGTON

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
24255	Whidbey Island, Washington	48°21'N	122°40'W	47	KNUW	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office in ops bldg	Navy	*1949	1955	48°21'N	122°40'W	25	Tonnelot	24
2.	In penthouse above main portion of the roof of new ops bldg	"	1955	1965	"	"	54	"	24
3.	Weather service office, bldg #385	"	1965	1973	"	"	32	Fortin	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Installed	Atop operations building	3-cup Selsyn	Double register	-	* Earlier documentation not available.
2.	1955	Atop "Penthouse" located atop of the main portion of new ops bldg	"	"	58'	1. Barometer, aneroid (ML-448/UM) 2. Barograph (AERO-1932)
3.	1959	Both selsyn and double register anemometers removed and replaced with AN/UMQ-5 which is located 2800' from the ops bldg on a bearing of 059°	AN/UMQ-5	RD-108B	13'	3. Semi-auto met sta (AN/GMQ-14A) 4. Ceiling light 5. Cloud height set (AN/GMQ-13B) 6. Transmissometer (AN/GMQ-10)
4.	1963	Runway intersection	AN/UMQ-5C	RD-108	13'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Whiting Field, Milton Florida consists of two airports, North Whiting Field and South Whiting Field which are approximately 2 miles apart. NAS Whiting Field is located 22 miles northeast of the city of Pensacola and 7 miles north of the city of Milton, Florida. The average runway height is 180 feet above mean sea level with gently rolling wooded terrain in all quadrants. There are no large bodies of water in the immediate vicinity. Pensacola Bay lies 15 miles south of Whiting and the Gulf of Mexico 5 miles farther south.

Rainfall is usually well distributed through the year, on the average, measurable amounts occur on 119 days. On the average, there are 70 days per year with thunderstorms. A considerable percentage of rainfall occurs during daylight hours from thundershowers. The greatest amount of snow recorded in a month was 3.5 inches in January 1977. Snow is a rarity and only traces have been recorded in 12 other years. The highest monthly amount of rainfall was 23.89 inches in March 1970 with a 24-hour maximum of 10.75 inches.

Destructive storms in the Whiting Field area are of two types, tornadoes and hurricanes. Tornadoes are by far the more dangerous threat. Tornadoes are a potential threat throughout the year; however, May through August is the "tornado season".

During the 13-year period prior to 1970 there have been 11 confirmed tornadoes reported in the immediate county. In addition to this confirmed count, many unconfirmed funnel clouds and tornadoes have been reported. Hurricanes are much less numerous. Destructive hurricanes have been experienced 9 times since 1879. In only 1 of these storms was there loss of life or major destruction.

The annual mean daily temperature is a comfortable 67.8 degrees F. Only an average of 19 days a year does the temperature dip to 32 degrees F. or below. The mean daily relative humidity is nearly constant year round in the low 70's.

Flying weather is above Visual Flight Rules (VFR) minimums 86% of the time. Marginal flying weather exists about 10% of the time. A major threat to flying safety during the summer months is air mass thunderstorm activity. During June, July, and August an average of 39 thunderstorms will occur, mainly during the late afternoon hours. Other flying safety weather problems are fog and low stratus. Fog is observed on the average of 200 days a year. January and March are the most foggy months with 17 to 18 days with fog observed. With the field surrounded by trees, fog has a tendency to hold in the area longer than other airports in the complex.

WHITING FIELD, FLORIDA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: WHITING FIELD, FLORIDA
LOCATION : N30 43 W87 01

PERIOD: FEB 45-DEC 77
ELEV : 200

STN LTRS: KNSE
WBAN # : 93841
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON EXTREMES MAX	MON EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX 24 HR	SNOWFALL MAX MON	RELATIVE HUM 04 LST	RELATIVE HUM 13 LST	VAP PRES IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL INCHES .1 OR GTR	SNOWFALL INCHES 1.5 OR GTR	THUNDER STORM OBS R	VISIBY 7MI <	MAX TEMP DEG > 90	MAX TEMP DEG > 75	MIN TEMP AND < 45	MIN TEMP AND < 32
JAN	62	42	82	6	4.5	12.4	1.1	3.4	#	4	3	79	61	.27	42	300	N	8	69	6	10	3	#	#	2	17	0	3	19	7
FEB	63	44	88	12	4.3	9.8	.4	3.6	#	2	2	78	56	.28	43	600	N	8	55	6	9	3	#	#	2	15	0	3	16	4
MAR	70	50	91	26	5.8	23.9	.5	6.3	#	3	3	79	54	.35	49	550	S	8	58	6	10	4	#	#	3	18	#	11	11	1
APR	78	58	68	94	32	4.4	12.7	1.3	3.4	0	0	0	83	52	.45	56	550	S	8	63	5	7	3	0	0	4	19	1	22	2	#
MAY	85	65	75	99	45	4.1	8.8	.1	3.1	0	0	0	83	51	.58	63	430	S	6	62	5	8	3	0	0	6	19	6	30	#	0
JUN	90	70	80	104	55	6.6	13.8	1.8	10.8	0	0	0	85	55	.71	69	300	S	6	68	5	12	4	0	0	11	16	16	30	0	0
JUL	91	73	82	104	61	7.3	17.9	2.4	9.3	0	0	0	87	59	.77	71	350	S	5	66	6	16	5	0	0	15	16	20	31	0	0
AUG	90	72	82	104	60	6.2	14.7	.8	4.3	0	0	0	87	59	.77	71	400	N	5	88	5	13	4	0	0	13	17	19	31	0	0
SEP	87	69	78	98	42	6.5	22.2	1.3	8.2	0	0	0	85	59	.67	67	400	E	6	59	5	10	4	0	0	6	16	10	29	#	0
OCT	79	58	69	93	33	2.9	10.5	#	4.7	0	0	0	79	52	.45	56	450	N	6	50	4	6	2	0	0	2	15	1	24	2	#
NOV	69	48	59	86	22	3.5	11.8	.1	4.2	0	0	0	80	55	.34	48	600	N	7	86	5	8	2	0	0	2	15	0	9	12	2
DEC	63	43	54	85	6	4.7	13.1	1.1	3.7	#	#	#	79	60	.28	43	600	N	7	50	6	10	4	0	0	2	17	0	3	19	5
ANN	77	58	68	104	6	60.8	23.9	#	10.8	#	4	3	82	56	.47	57	550	N	7	88	5	119	41	#	#	70	200	73	226	81	19
EYR	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	31	31	31	29	28	32	32	32	32	29	29	32	32	32	32

REMARKS: *DATA NOT AVAILABLE, # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	40	34	36	29	14	7	4	3	9	13	24	34	20	31
LESS 5000	03	46	39	40	37	23	10	5	5	14	16	26	38	25	31
FT AND/OR	06	48	45	44	41	32	16	11	12	22	22	33	43	31	32
VISIBILITY	09	43	39	39	34	31	31	31	24	27	21	27	38	32	32
LESS 5 MI	12	41	39	38	38	43	49	53	51	45	29	33	37	41	32
	15	36	34	35	29	31	36	32	33	31	22	25	34	31	32
	18	35	30	30	20	14	14	14	13	15	14	19	32	21	32
	21	36	30	32	21	13	8	7	6	10	11	20	33	19	31
	ALL HRS	41	36	37	31	29	21	20	18	22	19	26	36	28	32
CEILING	00	26	20	23	17	7	1	1	1	4	3	12	20	11	31
LESS 1000	03	30	23	26	24	12	4	2	2	6	7	13	21	14	31
FT AND/OR	06	31	27	29	24	17	6	4	4	10	11	17	24	17	32
VISIBILITY	09	28	23	21	9	5	3	2	3	9	10	14	22	12	32
LESS 3 MI	12	14	11	10	5	2	2	1	2	4	4	7	13	6	32
	15	11	8	8	4	3	2	1	2	4	3	5	11	5	32
	18	13	11	12	6	2	1	1	1	3	3	7	14	6	32
	21	22	15	18	11	4	1	1	1	3	3	8	17	9	31
	ALL HRS	22	17	18	12	6	3	2	2	5	6	10	18	10	32
CEILING	00	18	14	16	12	4	0	1	0	2	3	8	14	8	31
LESS 600	03	21	16	19	15	9	2	1	1	3	5	9	16	10	31
FT AND/OR	06	23	18	21	15	10	4	2	3	6	7	11	17	12	32
VISIBILITY	09	17	12	10	3	2	1	1	1	3	4	6	13	6	32
LESS 2 MI	12	6	4	5	2	1	1	1	1	2	1	3	6	3	32
	15	5	3	3	2	1	1	1	1	1	1	3	5	2	32
	18	7	5	6	3	1	0	0	0	1	1	3	6	3	32
	21	14	10	12	4	1	0	0	0	1	2	5	10	5	31
	ALL HRS	14	10	11	7	3	1	1	1	3	3	6	11	6	32
CEILING	00	15	10	14	10	3	0	0	0	2	3	7	12	6	31
LESS 500	03	17	13	16	12	8	2	1	1	2	4	8	13	8	31
FT AND/OR	06	19	16	16	12	8	3	2	2	5	5	8	15	9	32
VISIBILITY	09	13	8	6	2	1	1	0	1	2	3	5	10	4	32
LESS 1 MI	12	4	3	3	1	0	0	1	0	1	1	2	4	2	32
	15	3	2	2	1	1	0	0	1	1	1	2	3	1	32
	18	5	4	4	2	0	0	0	0	1	1	3	5	2	32
	21	11	7	9	2	1	0	0	0	1	2	4	8	4	31
	ALL HRS	11	8	9	5	3	1	1	1	2	2	5	8	5	32

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1942	M	57.2	67.8	69.2	78.2	80.7	80.1	81.9	79.9	67.3P	60.3	57.8P	M
1943	52.8	58.2	68.7	69.5	73.7	77.6P	M	M	78.3	69.3P	56.9	M	M
1944	56.7P	48.1	59.4	69.7	73.8P	79.9	80.3	82.2	78.4	72.0	58.3	53.7	M
1945	48.7	50.2P	M	M	M	M	82.3P	81.7	78.9	M	62.2	59.1	M
1946	60.7P	62.3P	59.3	M	78.3	79.6P	M	81.6	77.0P	M	M	57.1P	M
1950	60.7P	M	57.9P	63.3	76.2	81.0	78.9	80.9P	76.6P	M	M	M	M
1951	M	M	M	M	M	80.0	81.9	84.4	78.7	71.6	56.7P	57.1P	M
1952	56.7P	57.3P	59.4P	68.5	76.8P	83.1	82.5	81.7P	75.9	63.7P	57.3	51.6P	M
1953	55.6	56.9	65.6	68.1	77.3	81.6	81.3P	80.3	76.5	69.9	58.1	52.2	M
1954	54.0	57.7	59.3	72.1	71.6	80.6	82.3	84.5	80.6	69.0	57.0	51.8	68.4
1955	51.4	56.0	65.3	69.3	78.9	77.3	80.0	81.9	79.0	67.2	57.9	53.6	67.7
1956	49.1	59.6	59.8	68.5	78.8	77.9	80.6	81.5	78.7	69.6	57.1	M	M
1957	57.7P	61.3	59.6P	67.1	76.8	79.6	82.5	81.5	78.7	68.8	M	M	M
1958	48.4P	46.6	56.9	67.2	73.7	80.1	80.6	82.5	78.5	67.6	61.8	58.4	M
1959	48.7	53.8	57.1	68.3	78.4	78.9	80.1	80.8	78.0	70.8	57.6	53.0	66.8
1960	51.5	50.8	59.1	66.8	70.0	79.8	82.3	79.9	77.8	70.6	59.9	49.8	66.1
1961	48.7	57.0	62.2	62.8	71.6	78.9	79.7	78.6	76.8	67.8	61.0	54.6	66.2
1962	50.2	60.6	58.5	66.6	78.7	78.2	84.6	82.4	77.1	68.2	56.8	49.8	67.5
1963	49.5	46.8	61.9	69.2	78.1	79.6	80.8	82.2	77.8	70.7	58.3	48.6	67.1
1964	48.9	48.8	59.7	68.7	76.3	82.2	81.6	82.2	78.4	66.0	62.1	55.6	67.6
1965	52.5	53.1	59.8	72.1	76.0	79.3	81.6	81.0	79.6	68.7	62.9	54.1	68.4
1966	46.0	52.6	59.2	68.1	76.0	78.4	82.6	81.1	76.0	66.9	59.3	51.8	M
1967	53.0	52.2	64.2	72.2	75.6	82.1	81.0	79.0	76.9	66.5	57.8	53.0	68.4
1968	50.9	46.5	57.1	68.6	75.5	80.0	82.4	80.8	77.1	70.3	58.8	50.4	66.3
1969	54.1	50.6	59.2	69.1	79.7	81.8	82.2	81.4	79.0	71.9	57.4	52.9	67.8
1970	48.9	51.8	60.1	73.7	77.7	81.0	M	81.8	79.3	68.8	59.0	57.7	M
1971	53.2	54.0	59.0P	66.8	71.5	80.4	81.1	79.4	77.0	70.5	59.1	58.4	M
1972	58.4	53.7	62.2	70.0	76.0	81.3	80.7	82.4	81.0	69.2	57.2	54.2	68.8
1973	50.3	48.6	61.3P	66.2	76.2	81.4	84.5	81.3	79.0	71.6	63.8	52.0	M
1974	44.9	54.2	59.1	66.8	76.5	78.6	82.5	81.3	77.0	66.1	57.5	54.2	66.6
1975	53.1	58.9	59.8	68.2	78.7	81.0	81.3	81.0	76.2	69.2	59.9	51.1	67.7
1976	48.2	60.0	62.9	69.8	71.7	78.7	82.3P	81.4	77.7	68.7	52.3	50.0	M
1977	42.5	52.6	64.0	69.2	76.6	82.7	82.1	80.8	80.9	66.6	61.4	50.6	67.5
MEAN	50.9	53.9	60.4	68.0	74.9	80.2	81.5	81.4	77.7	68.8	58.7	53.2	67.5

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1942	M	3.37	.92	3.90	2.85	1.77	10.34	3.36	4.00	2.07	.86	3.46	M
1943	6.18	4.80	7.32	2.93	6.04	3.31P	M	M	M	M	M	M	M
1944	12.37	5.80	25.80	7.04	7.30P	6.22	5.81	14.63	22.19	9.51	11.84	6.51	M
1945	4.74	1.03	M	M	M	M	4.32P	3.96	3.76	M	11.84	6.07	M
1946	4.28P	4.41	9.24	9.97	2.03	10.22P	M	3.44P	2.69	M	1.09	5.03	M
1950	1.83	.43	6.60	3.98	2.18	2.98	10.23	5.06	3.77	2.04	2.08	4.54	54.89
1951	2.14	9.90	7.99	2.08	3.44	10.62	8.27	1.06	11.25	.48	5.07	3.46	65.34
1952	1.40	9.88	3.01	2.37	6.29	3.34	2.97	11.28	8.35	.7	1.80	4.31	55.51
1953	3.05	6.99	4.32	10.27	1.86	7.77	3.00P	9.39	9.49	.73	6.18	13.09	M
1954	1.07	2.51	.88P	2.01P	2.42	2.14	6.24	.81	2.21	.84	1.01	2.92	M
1955	3.87	4.82	.32	3.80	5.72	2.34	6.41	6.60	1.29	2.86	.54	1.05	39.02
1956	4.92	4.07	4.51	1.39	2.55	3.66	2.38	1.16	4.84	1.06	.09	M	M
1957	.17P	9.23	4.38P	3.86	4.79	8.84	3.84	2.88	10.72	2.39	M	M	M
1958	2.81P	4.51	5.08P	3.44	4.25	11.36	7.33	3.96	7.19	.37	2.34	2.28	M
1959	4.44	4.91	3.94	4.24	7.01	9.76	7.87	3.45	20.21	10.84	.97	2.30	84.96
1960	7.30	9.62	8.58	8.11	6.49	6.92	7.33	8.49	6.91	9.77	2.81	2.94	74.04
1961	3.51	9.93	6.05	3.78	2.86	11.06	10.27	3.62	3.76	.7	3.77	7.79	69.39
1962	2.78	4.87	6.41	3.85	.08	6.30	3.26	3.51	6.08	1.78	2.77	2.93	48.53
1963	3.37	5.81	.92	1.02	3.45	9.32	3.63	4.76	.07	3.44	4.13	4.13	49.40
1964	8.78	9.02	3.44	12.08	2.09	7.71	5.30	9.96	1.58	3.20	3.11	4.99	68.05
1965	2.01P	4.18	3.71	1.27	2.08	7.05	3.59	8.80	8.88	2.12	1.04	3.05	M
1966	5.90	7.95	9.32	2.70	6.68	2.70	3.44	6.42	1.82	9.78	2.66	3.97	82.10
1967	3.82	4.44	2.86	2.09	2.77	6.00	2.33	4.26	2.87	3.41	1.13	5.61	44.75
1968	2.15	1.91	1.80	1.90	1.66	9.18	3.09	3.68	2.34	.69	2.96	5.43	38.67
1969	1.66	9.97	9.00	4.80	8.82	5.91	10.12	9.29	7.10	3.10	1.34	5.32	69.01
1970	2.94	4.86	7.18	1.38	5.40	13.88	M	4.78	1.94	5.83	.76	4.36	M
1971	3.49	6.97	5.31	2.09	2.77	8.27	9.98	6.57	4.16	1.40	3.96	3.08	60.15
1972	5.18	4.72	7.02	2.16	3.86	9.15	6.91	4.36	2.27	2.73	5.79	9.36	69.86
1973	7.20	9.20	9.27P	3.10	2.82	5.23	11.05	6.60	6.23	1.21	2.86	8.16	M
1974	3.22	4.17	3.94	4.57	3.55	3.44	2.57	9.47	3.44	.80	2.35	2.67	46.99
1975	4.23	9.20	6.96	6.14	7.60	8.80	17.85	4.35	10.72	9.75	8.30	2.21	86.49
1976	4.07	9.10	6.19	1.44	7.32	7.96	3.22P	8.42	5.23	4.99	6.27	3.50	M
1977	5.95	1.76	7.80	2.93	3.44	2.88	9.37	9.48	6.11	9.16	4.90	3.86	65.29
MEAN	4.46	4.90	5.74	4.41	4.08	6.98	7.28	6.19	6.84	3.91	3.48	4.71	60.71

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45								338	42	32	14	0	M
45-46	0	0	0	M	176	M	585	371	82	13	0	M	M
46-47	M	M	M	M	M	264	M	470	294	13	M	0	M
47-48	0	0	0	0	307	350	593	M	M	M	M	M	M
48-49	M	0	3	M	149	225	M	M	209	M	0	M	M
49-50	M	0	M	M	M	M	M	M	M	M	107	0	0	M
50-51	0	M	M	M	M	M	M	M	M	M	M	M	0	M
51-52	0	0	0	23	M	M	M	M	M	M	38	M	0	M
52-53	0	M	0	M	233	M	595	281	84	77	0	0	0	M
53-54	M	0	0	35	258	390	538	289	234	9	8	0	0	M
54-55	0	0	0	68	324	401	615	286	173	19	0	0	1366
55-56	0	0	0	70	249	366	484	176	194	63	0	0	1000
56-57	0	0	0	2	264	M	M	148	M	57	5	0	M
57-58	0	0	0	100	M	M	M	242	248	68	0	0	M
58-59	0	0	0	35	142	490	499	249	268	41	0	0	1704
59-60	0	0	0	26	268	369	618	405	319	48	21	0	1859
60-61	0	0	0	39	190	482	593	216	180	120	13	0	1787
61-62	0	0	0	46	176	339	448	134	284	88	0	0	1590
62-63	0	0	0	28	308	483	601	313	163	20	6	0	2136
63-64	0	0	1	21	202	396	507	476	179	22	0	0	2002
64-65	0	0	0	46	163	386	584	334	208	3	0	0	1644
65-66	0	0	0	49	198	336	564	328	193	29	1	0	1680
66-67	0	0	0	M	196	484	539	340	99	1	2	0	M
67-68	0	0	18	44	197	358	485	339	266	8	1	0	1762
68-69	0	0	0	39	262	446	543	303	309	10	0	0	1792
69-70	0	0	0	9	227	386	599	347	179	5	2	0	1758
70-71	M	0	0	16	308	263	576	322	M	73	8	0	M
71-72	0	0	0	16	312	210	525	297	128	29	0	0	1537
72-73	0	0	0	30	272	302	440	451	M	105	0	0	M
73-74	0	0	0	25	121	406	90	300	89	30	0	0	1090
74-75	0	0	0	47	250	355	515	301	221	83	0	0	1470
75-76	0	0	22	20	226	427	517	186	117	14	0	0	1499
76-77	M	0	0	106	373	461	589	340	114	20	0	0	M
77-78	0	0	0	49	136	446							
MEAN	0	0	2	40	217	373	440	321	184	49	9	0	1683

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1942		28	123	187	367	474	476	512	434			41	M
1943	12	2	59	193	376	M	M	M	M	M	M	80	M
1944	M	0	6	180	M	484	482	540	408	250	12	7	M
1945	0	M	M	M	M	M	M	523	333	M	66	69	M
1946	M	M	60	M	526	M	M	526	M	M	M	M	M
1950	M	M	M	88	334	483	440	M	M	M	M	M	M
1951	M	M	M	M	M	457	528	609	416	238	M	M	M
1952	M	M	M	78	M	550	548	M	338	M	10	M	M
1953	9	3	46	88	367	502	M	481	382	187	9	1	M
1954	6	8	66	227	220	478	546	610	474	197	3	1	2955
1955	0	10	129	162	346	376	473	551	426	144	43	17	2685
1956	0	30	30	86	341	398	497	519	526	147	32	M	M
1957	M	46	M	187	413	448	550	519	382	71	M	M	M
1958	M	0	8	161	389	460	493	500	408	121	59	4	M
1959	0	15	9	93	336	426	473	497	397	211	29	3	2472
1960	7	1	21	107	196	461	541	471	382	198	13	0	2378
1961	0	28	40	81	328	532	444	487	369	122	62	83	2181
1962	14	38	28	82	333	461	613	543	394	194	0	0	2799
1963	2	0	32	102	322	461	493	540	389	200	6	0	2547
1964	0	0	20	172	338	521	522	538	409	104	66	22	2732
1968	3	7	34	226	346	487	523	502	448	173	53	2	2773
1966	0	1	22	127	317	410	584	503	398	M	58	11	M
1967	3	16	102	233	338	518	504	490	396	111	49	38	2870
1968	3	0	30	139	321	484	546	497	369	231	26	0	2647
1969	11	17	14	140	343	509	538	512	368	228	14	0	2694
1970	3	1	39	272	403	488	M	527	436	129	10	42	M
1971	17	19	M	193	326	471	506	491	368	193	21	43	M
1972	32	16	49	184	340	488	491	547	488	176	45	38	2999
1973	0	0	M	97	302	496	502	511	427	240	91	11	M
1974	79	12	99	110	368	418	544	511	368	97	31	27	2643
1975	15	35	37	94	339	489	512	504	394	146	78	3	2596
1976	0	10	36	135	315	413	M	516	389	71	3	2	M
1977	0	2	89	193	366	538	535	497	466	103	37	3	2793
MEAN	9	13	49	138	317	461	519	514	389	168	34	13	2683

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

WHITING FIELD, FLORIDA

STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
93841	Whiting Field (Milton), Florida	30°43'N	87°01'W	200	KNSE	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	North west corner hangar 1424	Navy		1950	30°46'N	87°01'W	208	Mercurial	Var
2.	Room 34, building 1424	"	1950	1953	30°43'N	"	196	"	"
3.	First deck hangar 1424	"	1953		"	"	175	"	"
4.	First deck hangar 1424	"	1960		"	"	177	"	"
1a.	Weather service office	"	1959	1975	"	"	179	Aneroid	"
2a.	Second deck of hangar 1424	"	1975		"	"	222	"	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
	Installed					
1.	1950	North field hangar roof	Selsyn	Triple	277 MSL	1. Barograph (ML-3-D) 2. Auto met sta (AN/GMQ-29)
2.	1957	South field hangar roof	UMQ-5	RD-108	"	3. Ceiling light (ML-121) 4. Cloud height set (AN/GMQ-13)
3.	1958	Selsyn replaced with aerovane	"	"	"	5. Transmissometer (AN/GMQ-10)
4.	1959	North of weather office	UMQ-5D	"	13'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Naval Air Station Willow Grove, Pennsylvania is located 20 miles north-northeast of the city of Philadelphia. The immediate terrain is rolling hills and to the northwest the hills increase in height. The terrain rises about 200 to 300 feet between valleys and ridges to the north of the station, continuing to the north and northwest.

Willow Grove is in the temperate latitudes, with a prevailing west to east flow of atmospheric systems. This produces a variety and at times, rapidly changing array of weather elements.

The location and orientation of the mountain chain to the west and north has significant effects on eastward moving frontal systems. The nearest coastal section of the Atlantic Ocean is about 70 miles east of the station. The industrial area of Philadelphia produces haze and smoke conditions that persist when southwest to southeast winds prevail.

Four distinct seasons prevail at Willow Grove. Continental air masses predominate during the winter months but on many occasions considerable modifications occur. During the summer season, the Bermuda high dominates the weather pattern of the area.

The station has a moderate climate. Periods of very high or low temperatures seldom last more than several days as conditions change fairly rapidly. The annual mean temperature is 53 degrees F. Due to the prevalence of maritime air during the summer months, the humidity adds to the discomfort of higher temperatures.

Flying conditions are excellent. The field is above Visual Flight Rules (VFR) minimums 90% of the time. Heavy fog, causing marginal flying conditions, is most prevalent during the autumn and winter months.

Precipitation is fairly evenly distributed throughout the year with maximum amounts during the late summer months. The average annual rainfall is 45 inches. Much of the summer rainfall is in connection with local thunderstorms. The average annual snowfall is 19.8 inches. Single storms of 10 inches or more occur about every 5 years.

The prevailing wind direction for the summer months is from the west, while northwesterly winds prevail during the winter. Destructive winds are comparatively rare and occur mostly in gustiness during summer thunderstorms.

WILLOW GROVE, PENNSYLVANIA

PREPARED BY: NWSO ASHEVILLE
JUNE 1978

STATION NAME: WILLOW GROVE, PENNSYLVANIA
LOCATION : N40 11 W75 08

PERIOD: FEB 45-DEC 77
ELEV : 369

STN LTRS: KNXX
WBAN # : 14793
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MEAN	MAX	MIN	MAX 24 HRS	SNOWFALL INCHES MEAN	MAX	MAX 24 HR	RELATIVE HUM LST 04	LST 13	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SPEED MN	SPEED MAX	MEAN AMT CLD TENTH	PRECIP INCHES .01 OR GTR	.5 OR GTR	SNOWFALL .1 OR GTR	1.5 OR GTR	T HUNT DM ES R	V SB Y FOG 7MI	MAX DEG > 90	< 75	MIN AND < 32	< 10
JAN	38	24	31	73	-6	2.9	5.7	.6	2.2	6	20	16	71	62	.11	21	1050	WNW	7	53	6	10	2	3	1	#	13	0	0	25	3
FEB	40	25	33	73	-4	2.7	4.6	1.2	1.4	5	15	7	70	61	.12	22	1100	WNW	8	63	6	9	2	2	1	#	11	0	0	22	2
MAR	49	32	41	85	0	4.4	6.5	2.2	2.4	4	15	7	71	56	.16	29	1200	WNW	9	58	6	11	3	1	1	1	13	0	1	16	#
APR	61	41	51	93	22	3.7	8.2	1.5	2.3	1	6	3	70	52	.23	38	1050	WNW	8	75	6	11	3	#	#	2	11	#	4	4	0
MAY	71	51	61	92	29	4.2	7.5	1.4	2.0	#	#	#	77	54	.34	48	1100	W	6	57	6	12	3	0	0	4	17	#	11	#	0
JUN	80	60	70	99	39	3.9	8.8	1.2	5.7	0	0	0	82	54	.49	58	1000	W	6	51	6	11	2	0	0	5	19	3	22	0	0
JUL	84	65	75	102	51	4.1	13.8	1.0	3.7	0	0	0	82	54	.58	63	750	W	5	57	6	10	2	0	0	7	20	6	29	0	0
AUG	82	64	73	100	45	4.9	14.0	1.6	4.2	0	0	0	84	57	.56	62	650	W	5	65	6	9	3	0	0	6	21	4	27	0	0
SEP	76	57	66	102	34	3.8	7.2	1.4	3.2	0	0	0	85	57	.45	56	750	W	5	54	6	9	2	0	0	3	21	1	17	0	0
OCT	65	46	56	89	25	3.2	6.7	.5	3.4	#	2	2	81	55	.30	45	900	W	6	86	5	8	2	#	#	1	18	0	3	2	0
NOV	52	37	45	83	13	3.5	9.3	.5	4.1	1	8	8	76	59	.20	35	1000	WNW	7	75	6	10	2	#	#	1	13	0	#	11	0
DEC	42	27	35	70	-1	3.8	7.1	.3	3.1	4	30	12	74	63	.14	25	1250	WNW	7	62	6	11	3	2	1	#	14	0	0	22	1
ANN	62	44	53	102	-6	49.1	14.0	.3	5.7	21	30	16	77	57	.27	42	1000	W	6	86	6	121	29	8	4	30	191	14	116	102	6
EYR	30	30	30	30		23	23	23	23	22	22	22	23	23	23	23	23	23	23	30	22	23	23	22	22	20	20	30	30	30	30

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA % HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	01	32	32	29	23	25	30	24	18	28	28	32	33	28	10
LESS 5000	04	32	34	33	24	28	37	31	26	34	34	33	33	32	11
PT AND/OR	07	33	33	33	29	29	28	26	28	35	32	33	34	31	28
VISIBILITY	10	30	31	36	32	32	30	27	26	31	28	31	31	30	32
LESS 5 MI	13	31	35	39	37	37	36	37	34	36	31	35	34	35	32
	16	27	29	36	33	32	30	28	24	27	24	31	31	29	31
	19	26	27	28	26	24	19	17	16	22	19	28	29	23	27
	22	30	28	28	24	26	25	20	18	26	21	31	31	25	14
	ALL HRS	30	31	34	30	30	29	27	25	30	27	32	32	30	23
CEILING	01	11	12	14	7	11	10	6	4	12	13	11	14	10	10
LESS 1000	04	15	12	15	10	13	16	12	8	17	18	12	13	13	11
PT AND/OR	07	14	16	17	15	19	16	16	15	19	17	13	15	16	28
VISIBILITY	10	14	14	15	12	15	9	9	10	12	11	13	15	12	32
LESS 3 MI	13	12	13	12	9	9	5	4	6	7	8	10	13	9	32
	16	12	12	12	9	7	5	4	5	6	7	9	11	8	31
	19	11	12	12	9	7	5	4	4	7	6	9	12	8	27
	22	11	14	12	8	7	6	3	3	9	7	9	11	8	14
	ALL HRS	13	13	14	10	11	8	7	7	11	10	11	13	11	23
CEILING	01	8	7	9	5	4	5	2	2	7	9	7	7	6	10
LESS 500	04	10	8	8	6	7	11	5	4	10	12	7	9	8	11
PT AND/OR	07	9	9	9	8	10	9	6	8	11	10	8	9	9	28
VISIBILITY	10	8	8	7	5	6	3	2	2	3	5	6	7	5	32
LESS 1 MI	13	7	7	5	4	3	1	1	2	2	2	4	7	4	32
	16	6	7	7	3	2	1	1	2	3	3	4	7	4	31
	19	7	6	8	5	4	2	1	2	3	3	5	8	4	27
	22	7	8	8	5	4	3	2	1	4	4	6	7	5	14
	ALL HRS	8	8	7	5	5	4	2	3	5	5	6	8	5	23
CEILING	01	5	3	5	2	2	2	1	1	3	3	3	3	3	10
LESS 200	04	5	4	4	3	4	5	2	2	4	8	4	3	4	11
PT AND/OR	07	5	3	4	2	4	3	2	3	4	6	4	3	4	28
VISIBILITY	10	4	3	2	0	1	0	0	0	0	1	2	2	1	32
LESS 1/2 MI	13	3	2	1	1	0	0	0	0	0	0	1	2	1	32
	16	2	2	1	1	0	0	0	0	0	0	1	2	1	31
	19	3	3	3	1	0	0	0	0	1	1	2	3	1	27
	22	3	4	3	1	1	1	0	0	1	1	2	1	2	14
	ALL HRS	3	3	2	1	1	1	1	1	1	2	2	2	2	23

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	31.6P	51.6P	54.5	58.9	69.9P	73.5	71.4	68.6	M	46.1	M	M
1946	34.2P	32.0	49.8	49.6P	61.3P	68.7	76.3P	68.4	68.6P	60.3	48.3P	36.6P	M
1947	36.9P	36.7	36.4P	51.2	60.2	68.5	74.3P	73.2	66.8	62.3P	41.8P	M	M
1948	23.5P	29.8	41.8	49.4	60.1	69.3P	73.3	73.6	66.5	53.9P	49.8	36.2P	M
1949	37.3P	37.6	42.1P	51.4	58.2P	73.3	77.9P	73.6	65.0	60.4	45.3	37.2P	M
1950	40.6P	30.6	38.2	48.8	57.9	68.8	73.1	71.2	68.2	57.3	48.3	31.5	M
1951	33.9	33.6	44.6	51.3	61.3	68.9	76.8	72.5	65.2	57.2P	39.6	33.6P	M
1952	34.4	35.3	38.7	53.2	58.4	71.6	77.9	73.6	66.6	51.5	46.0P	33.0P	M
1953	35.7	30.8	42.8	50.6	63.0	71.1	75.5	73.2	67.1	57.3P	45.5	38.3	M
1954	29.4	33.0	40.4	53.8	58.0	70.2	76.7	71.0	64.1	58.7P	42.5	32.6	M
1955	29.0	32.8	40.9	53.3	63.4	67.8	79.3	76.6P	65.6	57.3	41.6	27.9	M
1956	30.2	33.1	36.6	48.3	58.2P	71.1	72.2	73.1	69.5	55.0	44.6	40.1	M
1957	27.2	33.6	40.9	52.7	61.7	73.6	78.6	71.3	67.7	52.9	45.7	38.1	53.6
1958	36.0	30.5	37.7	52.6	59.3	68.3	73.9	72.6	66.8	53.7	44.7	27.0	50.9
1959	30.0	30.9	39.9	53.3	63.0	71.3	73.2	73.3	69.8	58.3	43.0	36.1	54.0
1960	33.3	34.8	31.6	53.0	60.8	70.6	73.2	74.1	66.0	54.8	46.7	27.6	52.6
1961	29.3	34.6	40.9	48.2	58.6	70.6	73.4	73.5	71.9	57.0	46.6	32.6	52.9
1962	30.4	29.6	38.3P	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	M	M	M	M	M	M	M	M
1964	M	M	M	M	M	M	M	M	M	M	M	M	M
1965	26.6P	31.7	37.0	47.7	64.8	68.9	73.0	71.7	67.0	52.3	43.2	36.7	M
1966	28.0	31.0	41.3	46.3	58.3	71.2	76.4	74.3	69.9	52.6	43.8	32.6	51.9
1967	34.5	27.4	37.2	50.2	56.1	70.7	73.5	71.0	69.0	53.4	39.4	35.6	50.9
1968	28.4	28.0	42.8	52.3	57.3	69.0	73.1	74.4	67.7	56.7	44.0P	31.1	M
1969	28.8	31.1	37.9	53.3	62.7	70.6	72.6	73.0	69.9	58.6	42.7	31.2	52.1
1970	22.7	31.2	36.2	50.0	63.3	69.0	M	72.8	68.6	55.9	43.9	33.2	M
1971	25.4	33.8	37.7	48.8	59.4	72.8	73.4	73.2	69.5	62.1	44.5	36.8	53.5
1972	33.0	28.8	38.1	51.3	60.4	66.1	73.5	71.5	66.5	49.6	43.1	39.2	51.3
1973	33.1	29.6	43.6	51.0	57.3	72.0	76.5	73.0	67.9	56.9	47.7	30.7	54.1
1974	36.0	32.6	42.6	53.0	60.4	67.8	74.7	73.7	64.9	52.7	44.8	39.1	53.9
1975	27.2	33.6	38.6	48.6	63.6	70.5	76.9	73.7	69.2	58.8	50.9	33.6	53.9
1976	27.6	40.0	44.8	54.7	60.3	73.3	73.8	72.2	66.5	50.8	38.1	28.2	52.3
1977	18.6	32.8	46.1	53.4	63.4	68.1	73.6	73.1	66.5	52.2	45.5	31.7	52.2
MEAN	30.0	32.6	40.0	51.1	60.5	70.1	74.8	73.0	66.1	55.3	44.5	34.2	52.7

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1945	M	1.33P	2.12P	3.12	4.19P	3.10	12.84	3.39	3.23	1.57P	3.82	M	M
1946	2.10P	1.41	M	M	M	3.07	3.33P	M	1.76P	M	.36P	M	M
1947	M	M	M	3.80	M	M	M	M	M	2.52P	0.16P	M	M
1948	M	M	M	M	M	M	M	M	M	M	M	M	M
1949	M	P.40	2.26P	2.98	6.26P	.69P	3.19P	2.91	3.76	2.20	.71	3.49P	M
1950	2.51P	3.99	3.08	2.05	4.85	1.91	4.91	6.52	3.41	2.02	1.20P	3.44	M
1951	3.97	P.80	4.78	2.38	4.25	3.84	2.84	3.12	1.69	3.77P	0.50	4.53P	M
1952	5.02	1.93	3.83	0.22	M	2.69	M	M	4.12	.47	5.12	3.83	M
1953	3.73	2.76	6.12	3.76	7.30	2.70	3.19	3.97	3.02	4.30	1.63	3.46	49.13
1954	1.18	1.68	4.50	3.73	2.89	2.07	2.19	7.66	3.61	2.94	4.02	3.14	38.97
1955	.80	2.48	3.27	2.43	1.37	3.07	2.19	13.99	2.23	6.73	1.87	.81	43.13
1956	2.70	4.38	6.44	3.16	4.46	3.09	4.28	3.26	3.62	4.12	4.91	4.69	50.22
1957	1.81	2.86	3.03	M	M	M	M	M	M	M	M	M	M
1958	M	M	M	M	M	M	M	M	M	M	M	M	M
1959	M	M	M	M	M	M	M	M	M	M	M	M	M
1960	M	M	M	M	M	M	M	M	M	M	M	M	M
1961	M	M	M	M	M	M	M	M	M	M	M	M	M
1962	M	M	M	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	M	M	M	M	M	M	M	M
1964	M	M	M	M	M	M	M	M	M	M	M	M	M
1965	M	M	M	M	M	M	M	M	M	M	M	M	M
1966	M	M	M	M	M	M	M	M	M	7.21	9.08	2.46	4.61	M
1967	1.55	3.98	6.93	2.74	6.89	3.05	0.16	0.50	2.67	1.92	2.44	3.48	47.62
1968	3.51	1.71	4.11	3.74	5.68	3.39	1.07	2.14	1.61	3.00	3.00P	3.86	M
1969	2.04	1.76	3.66	3.44	2.68	3.63	7.79	2.68	4.69	1.19	3.49	6.94	43.97
1970	1.36	3.06	3.86	6.09	2.10	3.60	M	3.73	1.74	4.17	4.16	2.81	M
1971	3.37	4.88	2.38	2.05	4.09	1.16	3.23	9.61	3.36	3.84	3.06	.79	40.99
1972	2.06	9.93	3.39	3.90	5.70	8.80	3.93	1.39	1.98	3.21	9.26	4.76	61.77
1973	3.61	9.18	2.83	6.27	4.27	5.27	2.23	3.46	3.60	2.59	1.06	7.14	50.70
1974	2.01	2.26	3.54	3.41	4.73	3.90	1.79	4.16	6.79	2.46	1.27	4.22	44.52
1975	4.32	2.46	4.18	2.94	4.72	3.66	7.44	3.08	7.13	3.22	2.73	3.84	51.46
1976	4.38	7.06	2.16	1.52	6.22	3.03	1.01	6.47	7.63	3.86	2.31	3.39	50.04
1977	2.59	1.92	4.24	4.91	1.88	3.84	1.79	6.37	4.09	4.46	7.02	3.86	47.58
MEAN	2.90	3.07	4.41	3.69	4.19	3.91	4.11	4.86	3.78	3.34	3.46	3.80	44.98

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
44-45										310	208		M
45-46	0	12	46	M	860	M	M	919	484	M	M	95	M
46-47	M	11	M	172	M	M	M	1065	M	418	203	27	M
47-48	M	0	126	M	M	M	M	1013	710	462	183	M	M
48-49	0	0	69	M	452	M	M	784	M	400	M	9	M
49-50	M	3	108	188	644	M	M	955	915	541	218	34	M
50-51	0	8	131	244	890	1032	955	872	750	409	148	41	5103
51-52	0	7	70	M	783	M	962	854	808	354	179	17	M
52-53	0	6	45	407	M	M	900	782	680	427	117	26	M
53-54	0	2	68	M	880	823	1088	722	756	344	211	18	M
54-55	0	3	69	M	868	969	1107	896	762	365	104	46	M
55-56	0	M	76	246	894	1146	1070	899	971	503	M	20	M
56-57	9	3	136	273	813	767	1165	823	739	392	159	27	5108
57-58	0	1	89	308	892	829	1079	1073	939	375	185	48	5449
58-59	0	1	74	380	803	1168	1077	949	782	344	121	33	5514
59-60	0	0	56	282	854	889	972	871	1020	313	140	6	5213
60-61	0	0	41	313	942	1192	1222	950	739	500	214	10	5985
61-62	0	0	45	298	896	1003	1068	990	M	M	M	M	M
62-63	M	M	M	M	M	M	M	M	M	M	M	M	M
64-65	M	M	M	M	M	M	928	861	813	89	42	M	M
65-66	0	28	70	387	847	871	1140	947	728	556	284	31	5832
66-67	0	0	106	379	969	969	939	1043	881	439	332	8	5835
67-68	1	8	115	367	781	906	1221	1049	680	365	236	19	5745
68-69	0	7	18	269	M	1045	1116	946	845	348	128	8	M
69-70	7	1	91	351	860	1041	1302	937	885	448	125	18	5866
70-71	M	0	49	283	628	979	1223	867	668	481	183	10	M
71-72	0	2	25	196	816	784	983	1043	829	508	186	39	5103
72-73	6	7	78	471	668	900	922	985	695	419	258	5	5822
73-74	0	1	44	249	815	810	895	897	688	315	179	22	4813
74-75	0	0	84	379	946	795	857	874	813	376	119	11	5044
75-76	0	8	82	204	619	910	1154	718	620	353	172	25	4657
76-77	0	8	77	439	901	1132	1430	904	985	359	123	39	5897
77-78	0	5	69	391	982	1026							
MEAN	1	4	74	307	811	949	1076	914	767	418	174	29	5520

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1945				6	28		269	216	160		0		M
1946	M	0	1	M	M	170	M	M	M	32	M	M	M
1947	M	0	M	11	63	139	M	324	182	M	M	M	M
1948	M	0	0	0	39	M	328	273	108	M	4	M	M
1949	M	0	M	3	M	266	M	363	84	90	0	M	M
1950	M	0	0	3	3	198	338	205	83	17	12	0	M
1951	0	0	0	4	41	164	307	244	85	M	0	M	M
1952	0	0	0	9	13	227	408	249	102	4	M	M	M
1953	0	0	0	3	62	219	328	264	135	M	0	0	M
1954	0	0	0	16	20	163	307	198	99	M	0	0	M
1955	0	0	0	3	67	138	458	M	92	14	0	0	M
1956	0	0	0	9	M	208	243	263	98	2	3	0	M
1957	0	0	0	28	61	291	324	202	168	2	0	0	1087
1958	0	0	0	8	20	93	346	265	80	12	0	0	807
1959	0	0	0	6	130	255	387	330	208	92	1	0	1319
1960	0	0	0	22	17	178	280	290	78	10	0	0	885
1961	0	0	0	3	26	184	333	271	262	7	9	0	1095
1962	0	0	M	M	M	M	M	M	M	M	M	M	M
1963	M	M	M	M	M	M	M	M	M	M	M	M	M
1964	M	M	M	M	M	M	M	M	M	M	M	M	M
1965	M	0	0	0	86	164	336	238	133	0	0	0	M
1966	0	0	0	0	33	223	361	304	78	0	0	0	991
1967	0	0	0	3	4	186	270	199	62	13	0	0	736
1968	0	0	0	0	3	146	320	304	103	15	M	0	M
1969	0	0	0	3	64	184	251	317	113	7	0	0	941
1970	0	0	0	2	79	147	M	278	169	8	0	0	M
1971	0	0	0	0	17	294	323	267	178	26	0	0	1078
1972	0	0	0	1	17	93	277	201	68	0	0	0	688
1973	0	0	0	8	13	222	302	318	137	7	0	0	1007
1974	0	0	0	22	42	111	307	274	89	1	6	0	880
1975	0	0	0	0	77	183	312	281	87	18	4	0	912
1976	0	0	0	21	33	280	248	239	79	3	0	0	903
1977	0	0	6	16	80	142	338	260	110	0	2	0	954
MEAN	0	0	0	8	42	189	311	260	114	14	2	0	986

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

WILLOW GROVE, PENNSYLVANIA

STATION NO. ON SUMMARY:	STATION NAME:	LATITUDE:	LONGITUDE:	STATION ELEV. (FT.)	CALL SIGN:	WMO NUMBER:
14793	Willow Grove, Pennsylvania	40°11'N	75°08'W	369	KNXX	

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Weather service office, second deck of ops bldg	USN	1949	1956	40°11'N	75°08'W	380	Tonnelot	Var
2.	Weather service office, ground floor of hangar/ops bldg	"	1956		"	"	346	"	"
1a.	Weather office in GMQ-14 cabinet	"	1967		"	"	348	Aneroid	"

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.		Above control tower roof	*Selsyn			1. Barograph (ML-3)
1a.	Installed 1958	1800' west southwest from hangar/ operations building	UMQ-5C	RD-108B	350'MSL	2. Semi-auto met sta (AN/GMQ-14) 3. Ceiling light (ML-121)
2a.	1965	4600' southeast of hangar 80. 500' southwest of centerline 15-33	"	"	15'	4. Cloud height set (AN/GMQ-13) 5. Transmissometer (AN/GMQ-10)
3.	1977	Top of control tower, SW corner of hangar 80	"	"	80'	6. Radar (RO15/GMH-6) 7. GOES (RO 379/GMH) 8. Pilot to forecaster radio (RHMS 9)
		*Decommissioned 1958.				

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

The Yokosuka Naval Base is located on the Miura Peninsula which forms the western shore of Uraga Channel, the entrance to Tokyo Bay. The peninsula is rugged and hilly with peaks on its western side rising above 600 feet. The eastern shore of Uraga Channel is formed by the Chiba Peninsula, also rugged with many peaks over 500 feet and several over 1,000 feet. The Chiba Peninsula effectively blocks strong winds from the east and southeast.

The Naval Base is bounded by Tokyo Bay on the north, east, and southeast. To the south, and extending through west to northwest, is a range of low hills which forms the central spine of the Miura Peninsula.

Because of these geographical features, Yokosuka Naval Base is exposed to strong winds from the north northwest through northeast quadrant. Small craft warnings are issued for winds of 18 knots or greater from this quadrant. Waves generated by winds from a northerly direction have a 30-mile fetch across Tokyo Bay. Exposure to winds from the southwest is less critical since the pier facilities and anchorage areas are well protected. The value of Yokosuka as a safe refuge for ships during severe storms is well documented.

The climate of Yokosuka is essentially one of monsoonal circulation and maritime influences leading to warm, humid summers and mild winters separated by two pronounced rainy seasons. The two pronounced wet seasons are during May through June and August-September. Annual precipitation amounts average 64 inches.

In summer, the polar front lies well to the north and Yokosuka comes under the influence of the western extension of the Pacific high. In winter, with the polar front to the south of the Bonin Islands, the circulation is of the winter monsoon type moderated by the Sea of Japan. Winters are relatively mild and dry with occasional snowfall.

Frequent daily helicopter operations are the only flight activities conducted at Yokosuka and visibility conditions are seldom critical for these. Fog occurs on more than half the days of April through October.

Strong winds are a primary factor in Yokosuka's weather. These may be associated with storms or gradient. Winds well in excess of 50 knots have been recorded in every month of the year.

Local phenomena include a year-round land/sea breeze effect. In winter, the land breeze tends to reinforce northerly winds associated with polar outbreaks resulting in 3 or 4 hours of strong gusty winds during the early forenoon.

Typhoons are the most hazardous weather experienced at Yokosuka. An average of 3 per year affect the area.

YOKOSUKA, JAPAN

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: YOKOSUKA, JAPAN
LOCATION : N35 17 E139 40

PERIOD: JAN 53-DEC 77
ELEV : 174

STN LTRS: RJTX
WBAN # : 43333
WMO # : 47696

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	SNOWFALL INCHES MN	SNOWFALL INCHES MAX 24 HR	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAP PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.99%	SFC PVLG DRCTN	WINDS SPEED MN	WINDS SPEED MAX	MEAN AMT CLD IN TENTH	PRECIP INCHES .01 OR GTR	PRECIP INCHES .5 OR GTR	SNOWFALL INCHES .1 OR GTR	SNOWFALL INCHES 1.5 OR GTR	THUNDER DAYS	VISIBILITY < 7MI	MAX TEMP DEG > 85	MAX TEMP F > 75	MIN TEMP AND < 65	MIN TEMP < 32
JAN	49	36	43	73	25	2.9	5.8	.1	1.9	1	7	4	67	55	.17	30	850	N	9	61	5	7	2	#	#	#	7	0	0	30	7
FEB	50	37	44	75	26	2.9	7.2	.3	2.6	2	13	7	70	58	.17	31	750	N	9	62	6	8	2	1	#	#	10	0	0	27	6
MAR	54	41	48	70	28	4.5	8.3	.6	3.7	1	10	8	74	61	.22	37	800	N	10	69	6	12	3	#	#	#	14	0	0	24	2
APR	63	51	57	81	34	3.4	7.8	2.1	2.8	#	#	#	81	67	.34	48	750	N	9	70	7	13	4	0	0	#	16	0	1	7	0
MAY	70	58	63	86	45	7.2	19.1	2.2	4.5	0	0	0	85	70	.47	57	800	SSW	9	75	7	13	5	0	0	1	18	#	7	#	0
JUN	75	64	70	87	51	8.8	16.7	3.5	9.4	0	0	0	91	78	.60	64	750	S	8	61	8	15	5	0	0	1	21	#	17	0	0
JUL	81	71	77	93	56	5.8	18.2	.8	11.1	0	0	0	92	78	.77	71	650	SSW	8	76	8	12	3	0	0	1	20	11	27	0	0
AUG	85	74	80	96	60	5.3	12.9	1.9	4.1	0	0	0	91	75	.82	73	700	SSW	8	71	7	10	3	0	0	2	18	19	30	0	0
SEP	78	68	73	91	54	7.5	16.4	1.3	7.3	0	0	0	89	77	.67	67	700	N	9	96	8	13	4	0	0	1	19	5	22	0	0
OCT	68	58	63	83	47	7.5	15.5	1.5	5.9	0	0	0	84	74	.45	56	650	N	10	74	7	13	5	0	0	#	20	0	4	0	0
NOV	61	50	55	78	36	4.4	9.4	.8	6.7	#	#	#	77	65	.31	46	650	N	9	90	6	10	3	0	0	#	15	0	#	7	0
DEC	54	41	48	71	30	2.5	9.5	#	3.7	#	#	#	71	59	.21	36	750	N	8	54	5	6	2	0	0	1	11	0	0	26	1
ANN	66	54	60	96	25	64.1	18.2	#	11.1	4	13	8	81	68	.39	52	800	N	9	96	7	132	41	1	#	7	189	35	108	121	14
EYR	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	24	25	25	25	25	25	25	25	25	25	25

REMARKS: *DATA NOT AVAILABLE, # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER *PRESS ALT FEET 99.99%* INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME.
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA S HRS	LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	00	24	28	37	39	34	44	41	31	43	39	28	21	34	25
LESS 9000	03	24	31	37	40	36	50	45	36	46	40	27	20	36	25
FT AND/OR	06	23	34	39	42	41	53	50	44	51	43	30	22	39	25
VISIBILITY	09	24	31	36	37	36	49	48	40	47	39	28	22	37	25
LESS 5 MI	12	19	26	31	31	31	40	35	29	36	33	24	20	30	25
	15	20	26	32	32	27	37	29	23	33	32	27	20	28	25
	18	22	33	37	32	28	36	31	23	36	36	29	22	30	25
	21	22	30	38	36	32	42	36	28	42	37	30	21	33	25
	ALL HRS	22	30	36	36	33	44	39	32	42	37	28	21	33	25
CEILING	00	2	3	4	6	6	10	9	4	5	5	2	1	5	25
LESS 1000	03	1	3	4	7	6	10	9	5	5	5	2	1	5	25
FT AND/OR	06	2	3	7	9	12	14	17	9	9	9	2	1	8	25
VISIBILITY	09	2	5	7	8	10	12	10	6	9	10	4	2	7	25
LESS 3 MI	12	2	4	5	6	7	8	6	4	6	9	4	2	5	25
	15	2	5	5	7	7	8	5	4	5	7	4	2	5	25
	18	2	5	6	7	9	9	5	3	6	5	4	1	5	25
	21	2	4	4	5	7	9	6	3	5	5	3	1	5	25
	ALL HRS	2	4	5	7	8	10	8	5	6	7	3	1	6	25
CEILING	00	0	0	0	1	0	0	0	0	0	0	0	0	0	25
LESS 200	03	0	0	0	1	0	1	1	0	0	0	0	0	0	25
FT AND/OR	06	0	0	1	1	1	1	2	1	1	1	1	0	1	25
VISIBILITY	09	0	0	1	0	1	0	0	0	0	0	0	0	0	25
LESS 1/2 MI	12	0	1	0	0	1	0	0	0	0	0	0	0	0	25
	15	0	0	0	1	1	0	0	0	0	0	0	0	0	25
	18	0	0	0	1	1	0	0	0	0	0	0	0	0	25
	21	0	0	0	1	0	0	0	0	0	0	0	0	0	25
	ALL HRS	0	0	0	1	1	0	0	0	0	0	0	0	0	25
CEILING	00	0	0	0	0	0	0	0	0	0	0	0	0	0	25
LESS 100	03	0	0	0	0	0	0	0	0	0	0	0	0	0	25
FT AND/OR	06	0	0	0	1	0	0	1	0	0	0	1	0	0	25
VISIBILITY	09	0	0	1	0	0	0	0	0	0	0	0	0	0	25
LESS 1/4 MI	12	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	15	0	0	0	1	0	0	0	0	0	0	0	0	0	25
	18	0	0	0	0	1	0	0	0	0	0	0	0	0	25
	21	0	0	0	0	0	0	0	0	0	0	0	0	0	25
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	25

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1953	M	M	49.6	56.6	63.4	68.9	75.8	78.8	72.1	63.4	53.6	48.7	M
1954	42.9	44.8	48.0	55.0	63.4	66.7	71.5	80.0	76.0	66.9	55.1	48.5	59.6
1955	43.4	43.0	49.6	57.6	64.4	71.5	80.2	79.2	72.5	64.0	54.2	49.7	61.0
1956	44.0	42.0	49.7	57.1	63.6	72.2	76.0	78.2	76.0	66.8	55.6	45.3	60.5
1957	44.6	41.1	49.6	57.8	63.2	67.0	73.2	79.9	69.1	63.4	56.4	49.0	59.3
1958	43.6	44.8	47.8	57.8	63.7	70.5	76.4	78.6	73.9	61.7	53.8	49.0	60.1
1959	42.4	46.6	49.2	59.5	64.9	68.4	77.2	79.6	74.7	63.8	55.8	48.0	60.8
1960	45.7	43.6	49.5	55.0	63.6	71.0	78.3	76.7	73.7	62.2	55.6	47.3	60.2
1961	41.9	41.8	47.6	58.3	66.0	71.3	79.4	79.7	76.5	64.9	56.2	47.6	60.9
1962	42.5	44.2	48.1	56.7	63.9	68.7	73.8	80.6	75.9	62.9	53.3	47.7	60.0
1963	40.9	41.9	46.1	56.8	63.8	69.5	77.0	78.7	70.3	61.4	55.3	48.8	59.2
1964	43.5	40.8	46.6	59.1	63.1	69.3	76.1	80.9	71.9	61.6	54.3	46.9	59.7
1965	42.5	42.8	48.2	52.1	63.0	70.7	78.4	78.6	71.8	63.5	56.9	46.6	59.1
1966	42.0	43.8	49.8	56.2	63.0	67.8	73.3	79.7	73.6	63.6	56.1	47.0	59.9
1967	41.2	41.3	48.4	56.7	62.2	72.6	78.1	80.8	72.5	62.3	54.5	45.7	60.1
1968	43.5	40.0	49.2	56.6	62.7	70.1	78.4	79.2	70.7	61.1	57.5	51.2	59.8
1969	43.5	42.7	46.3	58.0	64.1	69.7	78.2	80.2	72.8	62.0	54.8	48.7	59.8
1970	41.7	43.8	48.0	56.9	63.7	68.0	78.4	79.1	74.1	63.2	54.9	48.6	59.1
1971	42.5	42.6	46.9	58.6	63.6	69.8	77.5	80.1	70.6	61.0	54.2	47.7	59.3
1972	45.9	42.7	49.7	56.0	64.7	70.1	77.0	79.4	73.6	63.5	55.1	48.0	60.6
1973	44.7	43.6	46.8	59.0	63.8	67.8	77.9	82.1	73.3	63.3	54.3	48.3	60.3
1974	41.1	42.2	45.0	59.0	64.3	71.2	78.7	80.1	72.8	63.9	53.7	48.1	59.6
1975	41.6	41.9	46.8	57.3	63.0	70.6	77.2	80.1	77.4	63.4	55.4	46.1	60.2
1976	43.2	43.2	48.6	55.2	63.8	70.6	76.3	77.3	71.6	63.3	55.4	46.6	59.4
1977	39.7	42.3	48.9	56.8	64.6	68.8	77.7	78.1	69.3	59.2	49.9	45.9	60.6
MEAN	42.7	43.3	47.7	57.0	64.3	69.5	76.3	79.3	73.2	63.1	55.2	47.4	59.9

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1953	M	M	3.08	3.46	6.01	9.88	7.27	6.08	12.10	5.65	.98	1.91	M
1954	3.95	2.57	5.19	6.50	7.48	10.03	2.77	3.71	9.41	5.32	6.30	3.30	72.45
1955	1.74	3.27	8.35	5.40	4.45	5.06	2.97	11.77	12.21	13.21	2.99	1.89	76.19
1956	3.32	1.02	7.34	6.61	12.67	7.88	6.47	4.25	8.78	12.95	3.72	.40	79.62
1957	1.09	2.96	2.34	5.64	9.30	16.09	7.34	2.01	10.62	6.78	3.86	2.19	73.74
1958	3.38	2.46	4.67	2.09	4.20	3.48	6.36	4.16	12.72	11.12	6.06	5.38	64.80
1959	3.01	7.23	4.36	2.48	6.08	5.66	3.81	5.25	6.02	7.20	5.47	4.46	64.46
1960	1.88	.76	3.90	7.76	8.29	3.60	4.74	9.39	7.68	7.19	6.53	2.68	62.15
1961	1.58	1.19	3.04	6.88	3.99	14.87	.84	1.93	2.83	6.44	6.34	1.32	51.29
1962	1.53	.92	2.89	6.28	9.28	9.12	6.54	2.46	1.25	4.17	9.41	2.90	59.70
1963	.11	1.08	6.59	2.86	9.61	11.53	3.77	7.00	4.21	11.04	3.31	1.52	61.39
1964	5.77	7.38	3.11	2.86	4.67	3.77	1.90	3.93	6.73	5.84	2.47	2.27	48.70
1965	2.01	.88	3.67	4.27	13.11	8.39	4.28	9.16	11.43	3.58	4.97	2.24	67.73
1966	1.18	9.60	4.57	7.27	10.70	10.70	4.64	4.93	3.55	4.69	1.42	.82	67.11
1967	2.54	7.79	3.27	5.74	2.20	4.99	4.37	4.77	4.97	7.52	6.56	.90	68.39
1968	1.39	1.66	6.59	6.13	9.17	7.11	7.89	12.91	2.69	6.24	2.22	9.45	73.27
1969	3.02	4.66	6.18	3.93	9.19	19.23	3.90	9.75	3.05	3.38	4.62	.55	81.84
1970	2.56	2.97	3.88	6.16	7.13	12.73	7.77	2.80	3.59	6.70	4.71	1.89	58.69
1971	1.70	2.18	3.18	6.30	3.50	4.58	2.41	4.15	8.74	9.38	.79	2.11	49.03
1972	3.22	6.62	1.76	5.70	4.96	9.92	10.33	4.26	9.09	3.24	3.86	3.70	65.55
1973	4.44	3.99	.61	7.68	6.54	6.38	3.64	2.19	8.20	10.57	6.27	.01	59.22
1974	.70	4.36	4.18	7.05	3.64	9.44	18.22	3.49	9.99	7.32	1.80	1.86	76.03
1975	3.02	3.78	4.37	5.67	6.30	5.99	9.68	1.93	4.54	13.31	8.83	4.11	76.13
1976	.08	9.47	3.93	6.07	9.61	7.91	9.08	6.79	7.10	6.33	3.17	1.93	71.59
1977	1.30	1.08	8.17	6.27	3.86	11.33	1.94	10.97	9.31	1.53	9.23	1.89	66.45
MEAN	2.26	3.88	4.34	5.42	7.22	8.83	5.80	5.30	7.34	7.52	4.37	2.46	64.11

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
52-53									475	310	79	8	M
53-54	0	1	1	61	335	501	678	554	518	174	64	47	2934
54-55	2	0	0	130	288	508	662	526	489	228	44	1	2875
55-56	0	0	0	70	318	468	643	628	468	242	49	0	2895
56-57	0	0	4	94	279	507	625	665	501	217	96	29	3193
57-58	0	0	4	70	252	490	695	559	525	227	76	6	2873
58-59	0	0	0	133	327	489	696	508	484	163	49	6	2855
59-60	0	0	0	76	272	519	692	591	476	282	74	13	2924
60-61	0	0	8	101	277	536	723	644	527	196	21	2	3040
61-62	0	0	0	92	257	540	694	578	518	239	86	6	2990
62-63	0	0	6	110	345	529	760	640	577	245	76	57	3299
63-64	0	0	3	130	288	493	680	704	564	176	37	3	3050
64-65	0	0	19	116	315	592	690	617	606	280	98	0	3396
65-66	0	0	0	77	238	562	705	554	465	263	82	44	2970
66-67	4	0	8	59	266	613	735	636	501	248	27	0	3080
67-68	0	0	8	96	313	590	680	716	488	265	73	0	3178
68-69	0	0	1	141	317	619	667	617	575	222	16	1	2876
69-70	6	0	4	96	298	561	715	587	475	295	29	17	3201
70-71	0	0	6	96	295	600	680	618	554	276	78	1	3197
71-72	0	0	3	152	314	528	584	641	482	270	40	5	2991
72-73	0	0	0	87	291	521	623	537	559	174	69	10	2815
73-74	0	0	0	97	313	607	735	651	584	179	26	2	3160
74-75	1	0	2	59	333	608	719	642	557	231	86	1	3185
75-76	0	0	0	93	285	580	669	567	503	286	73	2	3058
76-77	15	0	6	79	345	570	778	626	499	184	47	16	3161
77-78	0	0	0	37	189	461							
MEAN	1	0	3	86	290	538	683	606	530	238	86	10	3041

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1953			0	1	38	122	324	362	221	17	3	0	M
1954	0	0	0	3	21	65	213	473	337	10	0	0	1102
1955	0	0	0	9	37	203	477	448	232	46	0	0	1452
1956	0	0	1	12	77	224	387	415	280	60	0	0	1421
1957	0	0	0	6	16	98	322	489	134	37	2	0	1084
1958	0	0	0	11	41	179	366	426	273	33	0	0	1329
1959	0	0	0	6	49	115	386	490	299	42	2	0	1398
1960	0	0	0	0	39	136	379	421	301	23	1	0	1316
1961	0	0	0	3	62	197	389	464	331	44	0	0	1600
1962	0	0	0	0	31	123	362	492	336	33	2	0	1361
1963	0	0	0	4	43	181	379	429	169	15	0	0	1222
1964	0	0	0	7	44	148	368	500	238	17	0	0	1297
1965	0	0	0	0	41	182	339	489	211	15	1	0	1244
1966	0	0	0	3	28	123	329	491	262	34	6	0	1267
1967	0	0	0	3	70	229	413	493	229	20	3	0	1464
1968	0	0	0	0	11	137	330	450	178	28	0	0	1134
1969	0	0	0	10	89	169	330	479	244	13	0	0	1290
1970	0	0	0	0	36	118	329	443	278	39	0	0	1243
1971	0	0	0	0	39	131	304	473	172	7	0	0	1298
1972	0	0	0	6	39	163	377	495	260	37	0	0	1397
1973	0	0	0	1	37	100	409	339	284	42	0	0	1382
1974	0	0	0	2	76	198	378	477	262	27	0	0	1297
1975	0	0	0	8	48	175	384	478	380	49	3	0	1519
1976	0	0	0	3	41	171	306	390	213	41	3	0	1172
1977	0	0	0	4	41	196	401	349	308	32	20	0	1311
MEAN	0	0	0	3	43	153	358	431	256	34	2	0	1302

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.

"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.

Partial monthly values were not included in means.

YOKOSUKA, JAPAN

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
43323	Yokosuka, Japan	35°17'N	139°40'E	174	RJTX	47696

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	Fleet Weather Central, third deck	NS	Prior to 1953	1953	35°17'N	139°40'E	198	Mercurial	24
2.	" " " first deck	"	1953	1953	"	"	174	"	24
3.	" " " third deck	"	1953	1955	"	"	198	"	24
4.	" " " first deck	"	1955	1962	"	"	174	"	24
5.	Instrument error redetermined 8/62	"	1962	1963	"	"	"	"	24
6.	New barometer installed	"	1963	1974	"	"	"	"	24
1a.	Bulkhead, 1st deck	"	1972		"	"	176	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	Prior to 1953	Transmitter on roof of ops bldg	AN/UMQ-5	RD-108	265'	1. Microbarograph
2.	1955	Transmitter relocated on 18' mast near east corner of ops bldg, also one on west corner at same altitude	"	"	243'	2. AN/GKR-4
2a.		Recorder inoperative Aug 57 thru June 58		"		
2b.	1958	Installation of new recorder	"	RD-108B		
3.	1960	Transmitter mounted on 15' mast relocated on roof of ops bldg	"	"	220'	
4.	1969	Mounted on 25' mast on roof of bldg	AN/UMQ-5C	"	230'	

NWSD, Federal Building
Asheville, N. C.

STATION CLIMATIC SUMMARY

PREPARED BY THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

NARRATIVE SUMMARY

Marine Corps Air Station, Yuma, Arizona is located in the extreme southwestern corner of Arizona in the Yuma Valley. The climate is characterized as desert with mild winters and hot summers. Except to the south where the Yuma Valley reaches the Gulf of California, it is almost completely boxed in by mountains. The Gila Mountains 20 miles east are the nearest.

The California coastal range blocks the Yuma area from almost all of the precipitation and cloudiness that is common along the Pacific Coast. During the winter months a strong southwest to westerly flow aloft can transport moisture across the coastal range in sufficient quantities to produce heavy cloudiness - and light to moderate rain in the Yuma area. When there is a southerly low level flow of moisture laden air from the Gulf of California the humidity increase is noticed. A persistent easterly flow aloft can bring in moisture from as far as the Gulf of Mexico during the summer.

Spring and fall are normally of short duration at Yuma and serve only as a period of change between the two main seasons - winter and summer. The winter season, October through March, is the period with the most rainfall, an average of 1.59 inches for the season. During the winter months Yuma's prevailing winds are north through west - northwest predominately north.

During the Yuma summer season, April through September, the climate is characterized by high temperatures and low rainfall - a seasonal average of less than 1 inch. The prevailing winds during the summer season at Yuma are southeast through west with a speed of less than 12 knots.

On occasion, a tropical storm will form in the southern Gulf of California. While most storms will move westward into the Pacific Ocean, occasionally one will move northward up the Gulf of California and bring extensive low clouds and rain to the Yuma area. While Yuma experiences excellent flying conditions more than 98% of the time, two related weather phenomena that create almost all of the aviation weather hazards at MCAS Yuma should be noted - high winds and blowing sand. High winds of more than 17 knots occur 3% of the time while winds of more than 28 knots occur less than 1% of the time. A wind speed of 28 knots is the threshold value used for blowing sand.

YUMA, ARIZONA

PREPARED BY: NWSD ASHEVILLE
JUNE 1978

STATION NAME: YUMA, ARIZONA
LOCATION : N32 40 W114 36

PERIOD: SEPT 48-DEC 77
ELEV : 207

STN LTRS: KNYL
WBAN # : 23195
WMO # :

MEAN NUMBER OF DAYS OCCURRENCE OF:

	TEMPERATURE DEG F MEAN DAILY MAX	MEAN DAILY MIN	MEAN MON	EXTREMES MAX	EXTREMES MIN	PRECIPITATION INCHES MONTH MEAN	MONTH MAX	MONTH MIN	MAX 24 HRS	SNOWFALL MN	SNOWFALL MAX 24 HR	SNOWFALL MAX MO	RELATIVE HUM LST 04	RELATIVE HUM LST 13	VAPR PRESS IN OF HG	DEW PT DEG F	PRESS ALT FEET 99.95%	SFC WINDS PVLG DRCTN	SFC WINDS SPEED MN	SFC WINDS SPEED MAX	MEAN CLD AMT TENTH	PRECIP INCHES .01 IN	PRECIP INCHES .5 DR	SNOWFALL .1 DR	SNOWFALL 1.5 DR	THUNDER DAYS	VISBY FOG	MAX DEG > 90	MAX DEG > 80	MIN AND MIN < 32	MIN AND MIN < 00
JAN	68	43	56	88	24	.4	2.8	.0	1.6	0	0	0	51	26	.15	28	500	N	6	27	3	2	#	0	0	#	1	0	2	2	0
FEB	74	46	60	94	28	.2	1.8	.0	1.2	0	0	0	47	22	.16	29	500	N	6	32	3	1	#	0	0	#	#	#	7	1	0
MAR	79	50	64	98	32	.2	1.0	.0	.6	0	0	0	44	19	.17	30	530	W	7	37	3	2	#	0	0	#	0	3	15	#	0
APR	86	56	71	107	41	.1	1.2	.0	1.1	0	0	0	40	16	.19	33	530	W	7	35	2	1	#	0	0	#	#	11	23	0	0
MAY	94	63	79	115	46	#	.4	.0	.4	0	0	0	36	15	.23	38	600	S	7	38	2	#	0	0	0	#	0	22	29	0	0
JUN	103	71	87	120	54	#	.3	.0	.2	0	0	0	34	15	.29	44	600	S	7	38	1	#	0	0	0	#	0	29	30	0	0
JUL	107	80	94	119	63	.2	1.1	#	1.1	0	0	0	44	23	.50	59	500	S	8	50	3	1	#	0	0	2	#	31	31	0	0
AUG	106	80	93	118	63	.4	3.0	.0	2.1	0	0	0	49	25	.54	61	550	S	8	58	2	2	#	0	0	2	#	31	31	0	0
SEP	101	73	88	123	53	.3	2.5	.0	2.4	0	0	0	50	23	.44	55	600	S	6	66	1	1	#	0	0	1	#	29	30	0	0
OCT	91	62	76	109	35	.3	2.7	.0	2.2	0	0	0	47	21	.28	43	600	N	6	37	2	1	#	0	0	#	#	19	27	0	0
NOV	78	50	64	98	30	.2	1.7	.0	1.4	#	#	#	47	23	.19	33	500	N	6	33	2	1	#	0	0	#	#	2	14	#	0
DEC	69	44	57	86	27	.3	1.7	.0	.9	#	#	#	51	27	.16	29	500	N	6	37	3	2	#	0	0	#	1	0	2	1	0
ANN	88	60	74	123	24	2.6	3.0	.0	2.4	#	#	#	45	21	.25	40	700	N	7	66	2	14	#	0	0	6	2	177	241	4	0
EYR	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	3	29	29	29	29	29	29	29	29	29	29	29	29

REMARKS: *DATA NOT AVAILABLE. # LESS THAN 0.5DAY,0.5 OR 0.05 INCH, OR 0.5 PERCENT AS APPLICABLE.
THE VALUE LISTED UNDER "PRESS ALT FEET 99.95%" INDICATES IT IS EXCEEDED ONLY 0.05% OF THE TIME,
EYR MEANS EQUIVALENT YEARS OF RECORD (I.E. THE ACTUAL NUMBER OF YEARS UTILIZED IN THE
COMPUTATIONS FROM THE OVERALL PERIOD OF RECORD, POR).

FLYING WEA	% HRS LST	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	EYR
CEILING	02	2	1	1	1	0	0	0	1	1	1	1	3	1	29
LESS 5000	05	3	1	1	1	0	0	1	0	1	1	1	4	1	29
FT AND/OR	08	4	1	2	1	1	1	1	1	1	2	2	3	2	29
VISIBILITY	11	4	3	2	2	1	0	1	2	2	2	4	4	2	29
LESS 5 MI	14	4	4	3	2	1	0	0	2	1	1	2	4	2	29
	17	3	2	3	3	2	1	1	1	1	1	2	3	2	29
	20	3	1	2	2	1	1	1	1	1	0	0	1	1	29
	23	2	1	1	1	0	1	0	0	0	0	0	2	1	29
	ALL HRS	3	2	2	1	1	0	1	1	1	1	1	3	1	29
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	1	0	29
LESS 1500	05	1	0	0	0	0	0	0	0	0	0	0	2	0	29
FT AND/OR	08	2	0	0	0	0	0	0	0	0	0	1	1	1	29
VISIBILITY	11	1	1	1	1	0	0	0	0	0	0	2	1	1	29
LESS 3 MI	14	1	1	1	1	0	0	0	0	0	0	1	1	1	29
	17	1	1	1	2	1	0	0	0	0	1	1	1	1	29
	20	1	0	0	1	0	1	0	0	0	0	0	0	0	29
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	ALL HRS	1	1	1	1	0	0	0	0	0	0	1	1	0	29
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	1	0	29
LESS 1000	05	1	0	0	0	0	0	0	0	0	0	0	1	0	29
FT AND/OR	08	1	0	0	0	0	0	0	0	0	0	0	1	0	29
VISIBILITY	11	0	1	0	0	0	0	0	0	0	0	1	1	0	29
LESS 2 MI	14	0	1	0	0	0	0	0	0	0	0	1	1	0	29
	17	0	1	1	1	0	0	0	0	0	0	0	0	0	29
	20	0	0	0	1	0	0	0	0	0	0	0	0	0	29
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	1	0	29
CEILING	02	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 300	05	1	0	0	0	0	0	0	0	0	0	0	1	0	29
FT AND/OR	08	1	0	0	0	0	0	0	0	0	0	0	1	0	29
VISIBILITY	11	0	0	0	0	0	0	0	0	0	0	0	0	0	29
LESS 1 MI	14	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	17	0	0	0	1	0	0	0	0	0	0	0	0	0	29
	20	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	23	0	0	0	0	0	0	0	0	0	0	0	0	0	29
	ALL HRS	0	0	0	0	0	0	0	0	0	0	0	0	0	29

MEAN TEMPERATURE °F

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1948	M	M	M	M	M	M	M	M	M	77.1	61.2	53.2	M
1949	46.0	53.2	63.2	76.9	78.4	88.9	93.6	92.8	92.2	79.8	68.9	54.9	73.7
1950	52.7	63.2	67.6	73.5	78.1	86.6	91.8	89.6	88.4	81.8	69.5	49.0	75.7
1951	56.3	59.7	64.8	71.6	80.2	85.9	94.5	91.9	89.4	77.2	64.0	55.6	74.4
1952	53.8	59.4	60.2	72.0	84.1	88.6	93.9	94.9	90.4	82.9	61.1	55.6	74.5
1953	61.5	59.0	65.4	69.9	75.6	85.8	95.2	93.2	88.2	78.9	68.4	53.6	74.2
1954	56.6	60.6	68.1	76.6	81.2	85.8	94.3	90.8	88.9	77.9	67.5	56.6	75.4
1955	52.0	62.0	64.7	68.7	78.7	85.5	90.2	92.0	88.7	78.7	63.09	58.4	M
1956	58.0	56.7	65.6	70.1	79.2	88.0	91.9	90.9	91.9	76.8	63.6	57.8	74.0
1957	56.2	65.8	66.6	71.4	78.6	90.7	96.3	92.6	88.0	78.5	61.0	56.6	74.7
1958	56.1	63.0	61.9	72.3	86.9	88.6	96.1	94.9	89.6	81.0	64.4	62.1	76.3
1959	60.1	58.2	68.4	76.8	77.7	92.0	96.7	93.2	86.2	77.5	66.5	57.3	75.9
1960	55.0	58.1	69.8	76.2	79.7	92.3	98.8	94.2	89.8	76.3	64.8	56.1	75.4
1961	59.7	62.6	65.7	73.6	77.7	90.9	96.0	93.2	86.6	78.0	61.7	56.1	74.6
1962	56.8	60.2	61.9	77.4	78.2	86.2	95.3	93.9	88.1	77.0	68.0	58.8	75.1
1963	53.2	67.8	64.4	68.3	81.2	84.3	93.6	91.7	89.9	79.3	65.4	57.6	74.7
1964	55.5	58.2	61.6	68.1	78.8	84.8	93.2	91.6	86.7	78.1	58.9	55.8	71.9
1965	56.6	58.6	61.2	69.7	78.8	81.0	92.4	92.8	82.4	77.6	65.0	54.6	72.2
1966	52.2	55.0	65.6	73.6	81.2	86.4	95.8	93.2	86.6	76.2	64.0	57.2	73.5
1967	55.1	60.6	65.3	68.2	77.4	83.1	93.9	93.3	86.4	76.7	66.9	52.4	72.7
1968	53.2	64.3	66.1	70.1	78.7	86.9	91.6	88.8	86.9	76.9	63.4	51.8	73.0
1969	59.6	56.9	62.8	71.0	80.2	83.4	93.4	93.9	88.8	71.6	63.8	56.3	73.7
1970	56.9	61.0	68.4	68.9	78.3	86.6	94.5	93.5	86.4	73.3	63.1	54.1	72.7
1971	54.8	58.2	64.0	67.4	79.1	86.5	92.9	90.6	85.7	69.0	60.1	51.2	71.0
1972	52.9	61.2	71.1	72.2	78.8	87.5	96.7	90.1	86.9	71.7	59.8	53.7	73.2
1973	53.3	58.8	60.0	68.9	80.7	88.4	93.6	91.9	86.3	75.2	62.4	57.5	72.8
1974	52.3	58.0	65.4	68.8	79.1	91.1	92.0	91.7	88.8	76.3	64.5	53.2	73.9
1975	55.5	57.0	61.4	69.5	75.5	85.4	92.9	92.3	87.9	73.1	62.3	56.2	71.9
1976	56.7	61.0	62.9	67.7	80.1	87.1	91.6	90.5	89.1	73.2	63.4	56.8	73.2
1977	55.9	62.3	60.0	72.0	78.5	89.1	96.5	92.1	86.2	78.6	66.4	60.2	74.2
MEAN	55.4	59.9	64.2	70.9	78.4	87.0	93.5	92.5	87.5	76.2	64.2	56.3	73.8

TOTAL PRECIPITATION INCHES

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1948	M	M	M	M	M	M	M	M	M	1.25	.00	.31	M
1949	2.89	.02	.04	T	.32	.00	.12	T	T	.32	T	.29	3.98
1950	.09	.16	T	T	.00	.00	.76	T	.45	.00	T	T	1.42
1951	.39	T	T	.40	T	.00	.35	1.13	T	.27	.10	.11	2.95
1952	.34	.26	.62	.34	.00	T	.02	.00	T	.00	.37	.97	2.92
1953	.01	.10	.18	T	.00	T	T	.02	.00	T	T	T	.31
1954	.05	.08	.28	.00	T	T	.10	.02	T	.12	.02	T	.61
1955	1.29	.01	.06	.00	.00	.00	.34	1.91	.00	T	TP	T	3.95
1956	.04	.06	.00	T	.00	T	.20	.00	T	T	.00	.00	.30
1957	.66	.08	.27	.10	.00	.00	T	1.03	.00	2.68	/	.09	4.84
1958	T	1.82	.34	.01	.08	T	1.07	.08	T	.87	.08	.00	4.02
1959	.02	.22	T	.01	.03	.00	.11	.11	.02	.04	.01	1.07	1.63
1960	.74	.07	.03	T	.01	.02	T	.01	.42	/	T	.12	1.42
1961	.24	T	.01	.00	T	T	.02	.99	.00	T	.08	1.49	2.17
1962	.48	.08	.17	.00	T	T	T	T	T	.05	.04	.37	1.16
1963	.50	.15	.16	T	.00	.00	.05	.06	2.67	.02	.19	.00	4.48
1964	T	.14	T	.78	T	.00	.02	.49	T	.24	.22	.09	1.98
1965	.36	.38	.04	1.20	.37	.00	.03	.02	.00	.00	.08	1.67	4.05
1966	.41	.17	.06	T	.00	T	.20	.08	.04	.03	T	.02	1.01
1967	.25	.00	.07	T	T	T	.01	.37	1.97	.00	1.45	.95	4.77
1968	T	.27	.33	T	.00	.00	.91	.10	.00	T	T	.06	1.67
1969	.88	.02	.02	.06	.05	.00	T	T	.25	.01	1.86	.97	3.63
1970	T	.36	.82	T	.00	.00	T	1.21	.02	.02	.02	.01	2.66
1971	.04	.02	.00	.17	T	.00	T	.80	1.27	T	.00	.13	2.44
1972	.00	.00	.00	T	T	.27	.01	.26	.00	2.49	.19	.06	3.28
1973	.03	.80	.98	T	.00	.00	T	.96	.00	.00	.08	.00	1.89
1974	.04	.00	.12	.00	T	.00	.06	T	.10	.13	.00	.14	1.19
1975	T	.01	.21	.26	.00	.00	.10	T	.13	.00	.03	.44	1.20
1976	.05	1.22	.02	.39	.09	.00	.25	.00	.31	.33	.39	.84	3.69
1977	.05	.01	.04	T	.02	.02	.08	2.96	.46	.26	T	.58	4.64
MEAN	.36	.22	.16	.13	.03	.01	.17	.37	.27	.33	.19	.33	2.87

HEATING DEGREE DAYS

Season	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Total
47-48													M
48-49	M	M	M	6	121	359	560	271	79	9	0	0	M
49-50	0	0	0	23	5	321	378	66	40	2	2	0	840
50-51	0	0	0	0	32	82	279	168	74	9	2	0	646
51-52	0	0	0	3	71	286	542	156	186	2	0	0	1046
52-53	0	0	0	0	168	296	119	171	69	19	0	0	860
53-54	0	0	0	1	76	283	238	40	67	0	0	0	743
54-55	0	0	0	2	13	263	598	282	67	22	2	0	1049
55-56	0	0	0	0	M	282	178	292	72	28	0	0	M
56-57	0	0	0	13	103	214	265	67	31	13	0	0	706
57-58	0	0	0	0	125	162	205	62	104	28	0	0	686
58-59	0	0	0	0	88	106	151	146	9	0	0	0	502
59-60	0	0	0	16	34	231	302	195	13	8	0	0	799
60-61	0	0	0	0	59	260	139	73	38	0	0	0	598
61-62	0	0	0	18	116	266	255	158	149	0	0	0	962
62-63	0	0	0	0	36	165	559	28	74	28	0	0	890
63-64	0	0	0	0	65	222	549	240	140	38	19	0	1080
64-65	0	0	0	0	109	278	238	190	126	64	1	0	1116
65-66	0	0	0	0	65	321	590	273	71	3	0	0	1123
66-67	0	0	0	0	82	249	299	126	54	70	1	0	883
67-68	0	0	0	0	37	385	396	49	41	14	0	0	842
68-69	0	0	0	0	67	403	169	219	146	3	9	0	1016
69-70	0	0	0	3	67	257	306	116	108	53	0	0	910
70-71	0	0	0	6	79	382	331	195	109	96	4	0	1082
71-72	0	0	0	76	155	413	372	129	11	9	0	0	1167
72-73	0	0	0	15	147	344	355	147	147	17	0	0	1190
73-74	0	0	0	0	125	227	293	190	69	3	2	0	909
74-75	0	0	0	12	49	390	295	270	139	66	9	0	1197
75-76	0	0	0	7	112	270	257	116	100	48	5	0	910
76-77	0	0	0	1	72	248	276	106	139	23	0	0	885
77-78	0	0	0	0	39	142							
MEAN	0	0	0	7	83	268	293	157	84	22	2	0	915

COOLING DEGREE DAYS

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1948										388	14	0	M
1949	0	8	29	313	425	726	892	871	822	305	139	15	4560
1950	5	22	120	383	417	858	840	898	827	321	174	29	4691
1951	10	27	79	218	480	834	933	858	773	348	46	2	4426
1952	0	1	47	221	399	827	900	934	768	361	58	2	4718
1953	17	10	88	171	273	832	942	881	704	389	120	0	4199
1954	3	02	40	249	309	830	917	808	724	408	91	2	4573
1955	0	7	64	188	271	824	787	862	719	446	M	3	M
1956	1	0	103	155	445	737	840	910	814	320	91	0	4300
1957	0	02	86	208	338	776	977	898	697	288	11	2	4316
1958	0	12	19	289	425	716	909	934	739	302	80	32	4817
1959	3	3	121	261	403	817	908	882	661	410	86	4	4758
1960	0	0	167	298	468	827	991	912	782	388	60	0	4790
1961	2	7	48	255	403	783	905	893	897	336	22	0	4266
1962	6	13	42	276	333	644	884	962	733	379	134	9	4595
1963	0	106	93	134	312	806	892	838	723	490	79	2	4611
1964	0	0	39	138	362	899	884	882	888	442	23	0	3909
1965	4	11	14	212	344	889	856	856	831	396	72	0	3785
1966	8	0	90	246	311	881	870	884	859	296	60	16	4207
1967	0	8	71	83	301	869	899	884	901	373	103	0	3892
1968	0	32	82	172	433	862	821	744	603	316	23	0	3908
1969	7	0	85	198	480	893	884	903	722	213	30	0	4145
1970	0	8	32	98	450	853	921	900	880	258	24	0	3905
1971	22	11	84	116	289	889	868	799	827	208	19	0	3593
1972	0	21	206	230	428	883	929	784	803	226	1	0	4111
1973	0	0	0	140	493	709	885	841	867	323	54	0	4014
1974	0	0	88	184	448	790	861	834	719	371	36	0	4313
1975	0	2	32	49	338	819	869	854	684	258	46	3	3786
1976	4	0	42	180	478	883	880	880	849	324	66	3	3927
1977	0	36	14	258	359	781	921	849	844	489	83	0	4184
MEAN	3	19	69	207	423	867	890	861	673	361	65	4	4844

The Degree Day total for the month is the sum of the departures of the daily mean temperatures from the base of 65°F.
"M" indicates missing record; "P" denotes partial record, i.e. less than 10 days record missing.
Partial monthly values were not included in means.

YUMA, ARIZONA

STATION NO. ON SUMMARY	STATION NAME	LATITUDE	LONGITUDE	STATION ELEV. (FT.)	CALL SIGN	WMO NUMBER
03145	Yuma, Arizona	32°39'N	114°36'W	214	KNYL	72280

STATION LOCATION AND INSTRUMENTATION HISTORY

NUMBER OF BARO. LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE MSL		OBS PER DAY
			FROM	TO			FEET	TYPE BAROMETER	
1.	30' from the south end of operations building	MCAS	1966		32°39'N	114°36'W	214	Aneroid	24

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS, ADDITIONAL EQUIPMENT, OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1964	400' E of runway 17 and 400'S of runway 08	AN-UMQ-5C	RD-108C	11'	1. Barograph ML-3 2. Theodolite ML-78 3. Weathervision (GMQ-19A (V))
2.	1965	Replacement	ML/400C/ UMQ-5C	"	15'	4. Pilot/FCSTR Service 5. Weather radar AN/FPS-106(V)
3.	1976	900' south of runway 3R-21L and 500' south of taxiway C	"	AN/GMQ-29A		6. Wind recorder RD-108B/UMQ-5

NWSD, Federal Building
Asheville, N. C.