

1999

LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



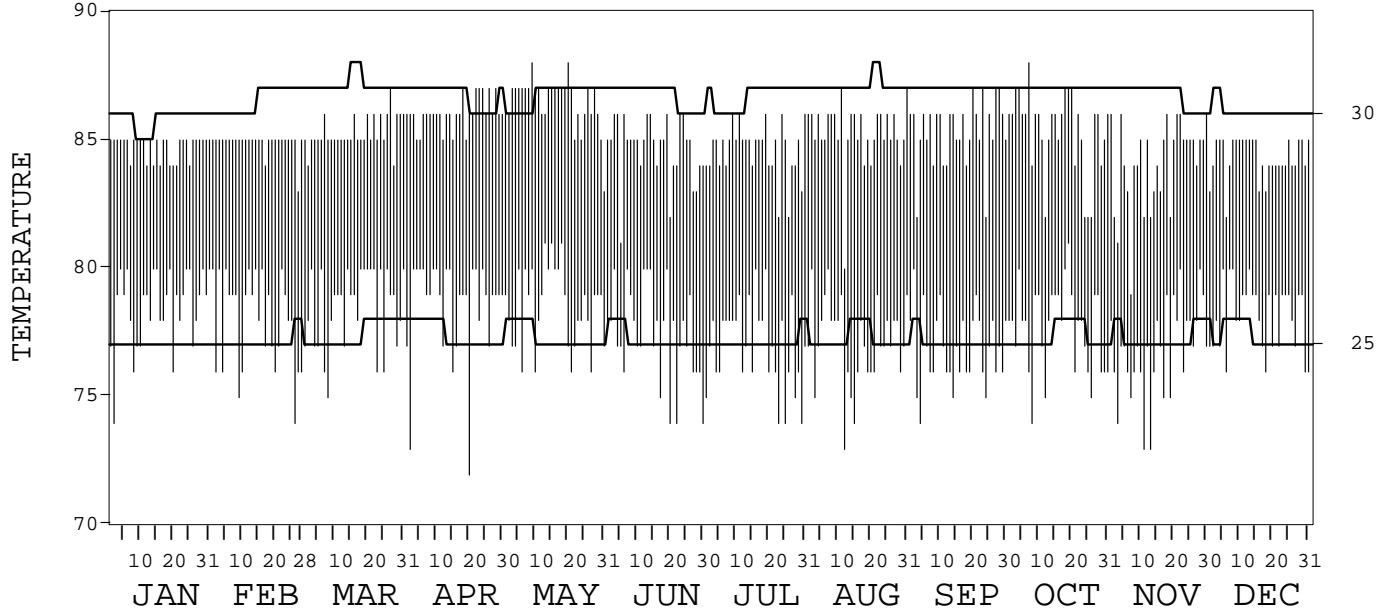
ISSN 0198-4314

KWAJALEIN, MARSHALL ISLANDS,
PACIFIC (PKWA)

Daily Data

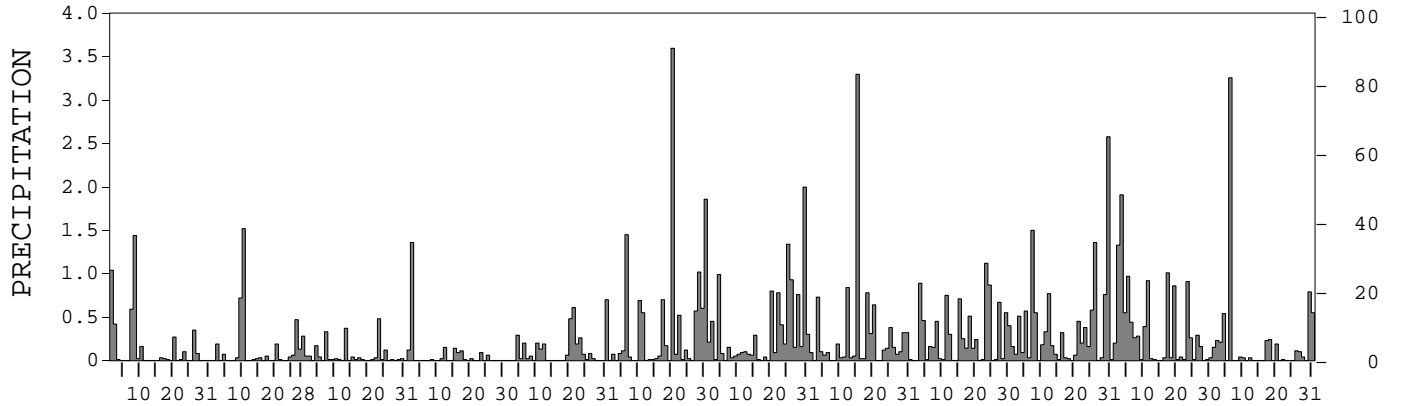
Fahrenheit

Celsius



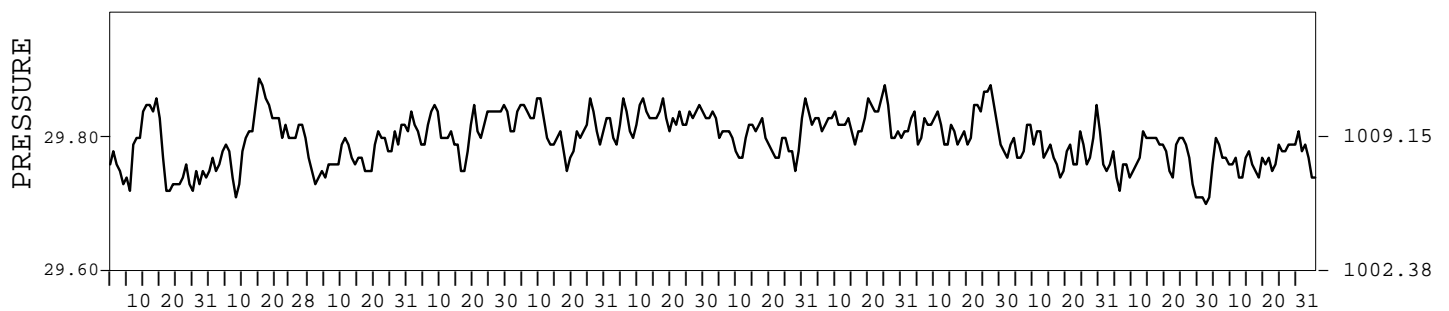
Inches

Millimeters



Inches of Mercury

Hectopascals



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION,
AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER.

Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
 NATIONAL CLIMATIC DATA CENTER
 NATIONAL CLIMATIC DATA CENTER
 DIRECTOR NATIONAL CLIMATIC DATA CENTER
 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

KWAJALEIN, PC (PKWA)

LATITUDE: 8° 44' 0 " N LONGITUDE: 167° 44' 0 " E ELEVATION (FT): GRND: 8 BARO: 11 TIME ZONE: 180 E MER (UTC + 12) WBAN: 40604

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE ° F	MEAN DAILY MAXIMUM	84.7	84.9	85.3	86.0	86.5	84.7	84.6	85.3	85.3	85.4	84.1	84.3	85.1	
	HIGHEST DAILY MAXIMUM	85	85	87	87	88	86	86	87	87	88	86	85	88	
	DATE OF OCCURRENCE	31+	28+	27	28+	20+	24+	31+	31+	28+	07	30+	31+	OCT 07	
	MEAN DAILY MINIMUM	78.5	78.0	78.5	78.5	78.5	77.5	77.0	77.2	76.9	77.7	76.8	78.1	77.8	
	LOWEST DAILY MINIMUM	74	74	75	72	76	74	74	74	74	74	73	76	72	
	DATE OF OCCURRENCE	02	26	08	20	27+	30+	30+	15	04	08	13+	31+	APR 20	
	AVERAGE DRY BULB	81.6	81.5	81.9	82.3	82.5	81.1	80.8	81.3	81.1	81.6	80.5	81.2	81.5	
	MEAN WET BULB	76.2	76.0	76.5	76.6	77.1	77.3	77.3	76.9	77.2	77.7	77.3	76.1	76.8	
	MEAN DEW POINT	73.9	73.8	74.1	74.4	74.8	75.8	75.6	75.1	75.5	76.0	75.7	73.9	74.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
	COOLING DEGREE DAYS	522	469	530	527	551	488	500	510	492	519	472	512	6092	
RH	MEAN (PERCENT)	78	78	78	78	78	84	83	81	83	83	85	79	81	
	HOUR 06 LST	80	81	81	81	82	86	86	84	86	85	87	81	83	
	HOUR 12 LST	75	74	74	72	73	81	81	79	79	81	82	77	77	
	HOUR 18 LST	78	77	77	77	76	83	82	78	80	83	84	78	79	
	HOUR 24 LST	80	80	81	81	81	85	86	84	85	84	88	81	83	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	THUNDERSTORMS	1	0	0	0	0	3	4	2	1	6	0	0	17	
CLOUDINESS	AVG. SKY COVER (OKTAS)														
	SUNRISE - SUNSET	5	5	5	6	5	6	7	6	6	7	7	6	6	
	MIDNIGHT - MIDNIGHT	5	5	4	5	5	6	6	6	6	7	7	5	6	
	NUMBER OF DAYS WITH:														
	CLEAR	6	2	4	3	5	0	1	1	1	0	0	3	26	
PARTLY CLOUDY	13	15	21	14	17	11	9	13	10	9	8	13	153		
CLOUDY	12	11	6	13	9	19	21	17	19	22	22	15	186		
PR	MEAN STATION PRESS. (IN.)	29.77	29.80	29.77	29.81	29.82	29.83	29.80	29.83	29.82	29.78	29.76	29.77	29.80	
	MEAN SEA-LEVEL PRESS. (IN.)	29.80	29.83	29.81	29.85	29.85	29.86	29.83	29.86	29.85	29.81	29.79	29.80	29.83	
WINDS	RESULTANT SPEED (MPH)	9.2	5.3	2.4	10.0	7.5	4.2	0.5	2.5	1.7	6.0	5.3	7.7	4.6	
	RES. DIR. (TENS OF DEGS.)	11	15	15	15	09	10	36	09	16	08	08	11	11	
	MEAN SPEED (MPH)	18.8	15.7	16.8	19.0	14.6	12.9	13.2	10.1	7.5	10.8	11.8	17.7	14.1	
	PREVAIL. DIR. (TENS OF DEGS.)	07	07	07	06	07	07	07	07	06	06	06	06	07	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	30	30	39	32	26	35	33	24	26	40	32	32	40	
	DIR. (TENS OF DEGS.)	07	08	09	11	08	08	09	08	12	09	07	06	09	
	DATE OF OCCURRENCE	20	26	01	01	26	20	25	18	08+	30	04	06+	OCT 30	
	PEAK GUST :														
	SPEED (MPH)	37	36	44	39	35	43	44	33	38	52	44	43	52	
DIR. (TENS OF DEGS.)	NE	E	E	E	E	E	E	E	E	E	SE	NE	E		
DATE OF OCCURRENCE	20	27	01	02	26	20	25	27	03	30	19	06+	OCT 30		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.55	3.82	1.84	2.18	3.58	12.34	10.61	8.93	8.84	11.95	10.95	6.75	86.34	
	GREATEST 24-HOUR (IN.)	2.01	1.65	0.48	1.38	1.05	3.60	2.09	3.32	1.55	2.58	2.11	3.26	3.60	
	DATE OF OCCURRENCE	07-08	09-10	23	01-02	20-21	20	29-30	15-16	23-24	30	02-03	06	JUN 20	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	15	16	22	12	18	23	28	26	24	28	27	17	256		
PRECIPITATION ≥ 0.10	8	7	5	5	10	13	17	15	18	18	16	12	144		
PRECIPITATION ≥ 1.00	2	1	0	1	0	4	2	1	1	3	3	1	19		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	GREATEST 24-HOUR (IN.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	DATE OF OCCURRENCE														
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

PRECIPITATION (inches) 1999 KWAJALEIN, MARSHALL ISLANDS, PC (PKWA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.82	0.43	0.73	2.99	6.74	8.06	6.84	11.94	13.83	19.12	6.89	5.16	83.55
1971	5.35	3.63	4.28	20.29	18.66	11.54	16.43	11.19	12.52	15.65	4.86	1.90	126.30
1972	10.02	6.20	3.88	8.13	14.26	11.84	12.33	9.44	21.16	11.75	3.69	22.70	135.40
1973	0.52	0.52	1.20	4.53	7.92	8.60	11.29	7.51	8.33	11.45	3.51	5.21	70.59
1974	8.74	7.90	5.82	18.98	11.84	9.05	5.80	17.21	10.28	12.62	13.84	8.50	130.58
1975	1.05	0.24	0.16	6.45	8.17	13.99	11.74	11.22	11.60	15.62	15.61	5.69	101.54
1976	4.18	9.05	6.73	12.31	11.03	11.24	8.79	8.94	13.50	10.43	5.81	2.46	104.47
1977	0.48	0.04	4.71	5.79	12.36	7.93	13.01	7.58	8.17	14.09	8.76	7.16	90.08
1978	13.86	6.31	4.59	5.30	15.81	7.11	8.52	5.48	8.75	11.47	16.16	3.14	106.50
1979	10.73	2.81	1.08	12.15	2.74	6.19	9.29	17.46	8.44	12.52	17.61	8.27	109.29
1980	8.45	2.82	1.20	8.55	26.86	9.29	13.75	13.02	14.42	11.91	9.58	4.27	124.12
1981	1.91	1.29	7.94	5.10	1.74	8.36	11.97	5.38	12.22	10.76	15.74	5.56	87.97
1982	2.16	2.20	1.93	6.50	8.88	13.60	16.14	13.73	13.55	7.10	11.10	4.28	101.17
1983	0.89	0.68	0.36	0.20	1.76	3.83	13.27	10.74	14.44	10.49	18.88	4.24	79.78
1984	3.20	4.07	1.06	2.12	0.53	3.56	3.53	7.54	7.10	8.48	11.84	6.32	59.35
1985	2.28	6.97	5.75	12.46	8.05	7.66	7.61	11.18	7.64	9.99	11.45	5.06	96.10
1986	3.12	5.64	6.87	4.82	9.37	15.08	12.43	7.53	12.43	13.48	16.36	23.28	130.41
1987	3.95	1.86	1.49	3.11	6.43	11.08	10.51	14.42	11.42	9.67	9.67	6.16	89.77
1988	5.08	0.67	1.24	5.67	3.21	5.17	7.54	5.54	16.01	16.68	11.17	8.45	86.43
1989	2.90	4.63	1.67	12.84	7.34	5.77	8.06	8.09	17.32	8.20	6.40	7.13	90.35
1990	9.32	3.36	11.00	4.40	10.75	11.61	9.25	6.36	13.28	9.14	10.15	13.08	111.70
1991	1.88	7.16	10.67	15.83	10.63	10.00	11.40	12.84	19.72	7.09	16.21	3.84	127.27
1992	4.19	0.42	0.20	0.24	3.68	6.86	13.90	7.99	11.44	7.88	14.94	8.87	80.61
1993	2.97	2.72	6.87	2.48	5.94	7.72	7.40	13.07	7.07	10.31	10.26	10.78	87.59
1994	7.06	1.54	2.64	14.94	5.75	6.93	10.25	5.41	14.23	6.72	8.13	15.99	99.59
1995	1.38	3.50	3.95	13.32	9.04	14.78	9.80	11.49	12.38	16.53	7.72	5.92	109.81
1996	11.28	10.21	2.06	5.94	9.83	6.86	4.81	6.39	10.97	7.68	11.40	11.18	98.61
1997	7.89	2.57	8.92	11.17	18.45	9.77	5.10	23.38	9.29	15.51	5.83	5.07	122.95
1998	0.66	0.91	0.75	0.72	0.87	3.86	12.63	11.18	9.04	14.69	7.95	5.85	69.11
1999	4.55	3.82	1.84	2.18	3.58	12.34	10.61	8.93	8.84	11.95	10.95	6.75	86.34
POR= 55 YRS	4.31	3.00	4.95	6.91	9.24	9.46	9.97	10.28	11.36	11.58	11.14	8.40	100.60

WBAN : 40604

AVERAGE TEMPERATURE (°F) 1999 KWAJALEIN, MARSHALL ISLANDS, PC (PKWA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	82.4	83.3	83.5	83.5	82.6	82.5	82.0	81.9	81.6	80.8	81.8	82.1	82.3
1971	81.6	81.7	82.1	80.4	80.8	80.9	80.8	81.1	81.0	81.0	81.5	81.6	81.2
1972	80.8	81.3	82.3	81.4	82.4	81.9	82.1	82.5	82.0	81.9	82.4	81.3	81.9
1973	81.1	81.8	83.4	82.7	82.0	82.1	81.8	81.9	81.9	81.5	82.5	81.9	82.1
1974	81.6	81.7	82.1	80.8	81.7	81.6	82.4	81.5	81.7	81.7	81.9	81.7	81.7
1975	81.8	82.4	83.3	82.8	81.3	81.1	80.7	80.8	80.9	80.3	80.8	81.0	81.4
1976	80.4	80.5	81.2	81.3	81.1	81.2	81.6	81.7	81.4	81.5	81.7	81.5	81.3
1977	81.2	82.3	82.1	81.9	81.7	82.1	81.8	82.9	83.3	82.4	82.7	82.4	82.2
1978	81.6	81.5	82.5	82.0	81.2	81.7	81.6	82.3	82.6	82.5	81.6	82.0	81.9
1979	81.1	81.4	82.8	81.5	82.4	82.4	82.5	82.1	83.0	82.9	82.4	82.0	82.2
1980	81.9	82.0	83.3	82.0	81.4	82.4	82.3	82.9	82.3	82.8	82.0	82.5	82.3
1981	82.3	82.3	82.3	82.3	83.3	82.2	81.9	82.6	81.9	83.0	82.2	81.9	82.4
1982	81.6	82.1	82.6	82.7	82.5	82.4	81.8	82.3	81.8	82.3	82.7	80.9	82.1
1983	80.1	81.1	82.0	82.7	83.6	83.5	82.6	82.4	82.2	82.5	81.5	82.1	82.2
1984	82.0	82.2	83.0	83.1	83.6	82.9	82.7	81.8	82.3	82.6	82.0	82.5	82.6
1985	82.2	82.7	82.0	81.4	82.2	82.0	82.2	81.9	82.8	82.9	82.0	82.2	82.2
1986	82.1	82.2	82.1	82.6	82.2	82.3	82.5	83.0	82.1	82.7	82.0	81.5	82.3
1987	81.1	81.1	82.1	82.5	82.9	82.5	82.7	83.1	82.9	83.7	82.9	82.2	82.5
1988	81.7	82.6	83.0	83.1	83.6	82.6	82.3	83.1	82.2	81.9	82.2	81.5	82.5
1989	82.0	82.1	82.8	82.2	82.1	82.2	82.5	82.6	82.4	82.5	82.9	83.0	82.4
1990	82.2	82.2	82.2	83.5	82.3	82.9	82.9	83.3	82.6	83.2	83.3	82.4	82.8
1991	82.6	82.5	81.8	81.6	82.6	82.5	82.3	82.7	82.7	82.8	81.9	81.6	82.3
1992	80.8	81.2	81.8	82.7	82.8	82.5	82.2	83.0	83.5	83.4	81.8	81.7	82.3
1993	81.1	81.5	81.7	82.3	82.5	82.9	82.9	82.5	83.1	83.2	82.4	82.1	82.4
1994	82.0	82.2	82.2	81.9	83.0	82.3	82.1	82.9	83.1	83.3	83.3	82.2	82.5
1995	82.1	81.9	82.6	81.8	82.7	82.4	82.4	81.9	82.3	81.1	81.5	82.4	82.1
1996	82.3	82.0	82.9	82.6	82.4	82.1	82.7	82.9	83.1	83.3	82.4	81.6	82.5
1997	81.7	82.2	82.1	82.2	82.1	82.2	83.5	81.8	82.4	82.2	82.6	81.7	82.2
1998	80.8	81.0	81.8	82.7	83.4	82.6	81.1	81.8	82.1	81.9	81.9	81.4	81.9
1999	81.6	81.5	81.9	82.3	82.5	81.1	80.8	81.3	81.1	81.6	80.5	81.2	81.5
POR= 52 YRS	81.5	81.7	82.1	82.1	82.2	82.2	82.2	82.4	82.4	82.4	82.0	81.8	82.1

HEATING DEGREE DAYS (base 65°F) 1999 KWAJALEIN, MARSHALL ISLANDS, PC (PKWA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1983-84	0	0	0	0	0	0	0	0	0	0	0	0	0
1984-85	0	0	0	0	0	0	0	0	0	0	0	0	0
1985-86	0	0	0	0	0	0	0	0	0	0	0	0	0
1986-87	0	0	0	0	0	0	0	0	0	0	0	0	0
1987-88	0	0	0	0	0	0	0	0	0	0	0	0	0
1988-89	0	0	0	0	0	0	0	0	0	0	0	0	0
1989-90	0	0	0	0	0	0	0	0	0	0	0	0	0
1990-91	0	0	0	0	0	0	0	0	0	0	0	0	0
1991-92	0	0	0	0	0	0	0	0	0	0	0	0	0
1992-93	0	0	0	0	0	0	0	0	0	0	0	0	0
1993-94	0	0	0	0	0	0	0	0	0	0	0	0	0
1994-95	0	0	0	0	0	0	0	0	0	0	0	0	0
1995-96	0	0	0	0	0	0	0	0	0	0	0	0	0
1996-97	0	0	0	0	0	0	0	0	0	0	0	0	0
1997-98	0	0	0	0	0	0	0	0	0	0	0	0	0
1998-99	0	0	0	0	0	0	0	0	0	0	0	0	0
1999-	0	0	0	0	0	0	0	0	0	0	0	0	0

WBAN : 40604

COOLING DEGREE DAYS (base 65°F) 1999 KWAJALEIN, MARSHALL ISLANDS, PC (PKWA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	547	518	580	562	552	532	534	530	506	497	510	536	6404
1971	519	470	538	469	498	484	494	509	488	505	500	521	5995
1972	497	477	545	496	548	515	536	549	518	530	528	513	6252
1973	509	477	574	538	533	520	526	533	513	520	534	529	6306
1974	521	476	538	480	526	503	545	518	509	523	517	525	6181
1975	526	495	572	539	516	493	496	498	482	480	479	502	6078
1976	483	458	511	496	507	491	522	525	499	521	507	518	6038
1977	507	491	537	514	526	518	526	564	555	547	537	549	6371
1978	525	465	548	519	507	509	521	542	536	552	507	535	6266
1979	502	467	561	504	544	526	546	536	547	559	530	532	6354
1980	528	501	576	515	517	529	542	557	526	560	519	551	6421
1981	545	491	541	527	573	525	532	551	515	565	523	530	6418
1982	521	486	554	535	548	528	530	544	513	541	535	498	6333
1983	478	454	531	538	582	561	552	546	521	548	502	535	6348
1984	535	504	565	551	582	546	557	526	527	554	518	549	6514
1985	541	500	533	501	542	513	542	529	540	564	516	539	6360
1986	539	488	537	536	542	524	550	564	519	558	516	516	6389
1987	507	458	540	530	559	530	557	569	541	585	542	540	6458
1988	526	516	565	551	584	535	545	568	521	529	525	519	6484
1989	532	482	559	520	535	527	549	554	529	550	544	567	6448
1990	538	490	539	561	542	545	561	575	533	572	555	545	6556
1991	553	495	528	505	552	533	546	556	535	556	515	521	6395
1992	494	477	526	535	558	532	541	565	562	577	514	524	6405
1993	507	468	522	524	548	542	562	552	548	571	529	541	6414
1994	532	487	543	514	566	524	537	562	550	573	555	540	6483
1995	534	480	551	509	557	528	532	542	526	503	502	544	6308
1996	541	497	560	535	550	521	557	563	551	572	531	526	6504
1997	527	486	537	523	537	525	578	527	530	541	532	524	6367
1998	497	455	530	540	578	534	505	528	520	533	515	518	6253
1999	522	469	530	527	551	488	500	510	492	519	472	512	6092

SNOWFALL (inches) 1999 KWAJALEIN, MARSHALL ISLANDS, PC (PKWA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1971-72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1972-73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1973-74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1974-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1975-76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1976-77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1996-97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1997-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1998-99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1999-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
POR= 54 YRS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

WBAN : 40604

REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

1999
KWAJALEIN, MARSHALL ISLANDS,
PACIFIC (PKWA)

Kwajalein Island, although only 3 miles in length and 1/2 mile wide, is the largest of the fringing reef islands composing Kwajalein Atoll. Kwajalein Atoll, spanning some 70 miles, is one of the largest coral atolls in the world. The land surface of the island, which has very little effect on the climate of the locality, has an average elevation of less than 10 feet above sea level. The highest points on the island are 12 to 15 feet above sea level.

Kwajalein, located less than 700 miles north of the equator, has a tropical marine climate characterized by relatively high annual rainfall and warm to hot, humid weather throughout the year.

Temperatures are very uniform from day to day and month to month. Because of the low latitude, there are only slight seasonal variations in the length of daylight period and the altitude of the sun at Kwajalein. As a result, the variation of the amount of solar energy received is small. The small variation in solar energy and the marine influence are the principal reasons for the uniform temperatures in the area. The range of normal temperature between the coldest month and the warmest month averages about 2 degrees.

The principal rainfall season extends from May through November. Light, easterly winds, almost constant cloudiness, and frequent moderate to heavy showers prevail during the wet season.

The dry season includes the period December through April, and is characterized not so much by lack of showers as by light showers of short duration. In this season the trade winds are persistent, blowing from the northeast 15 to 20 knots almost continuously. Cloudiness is at a minimum, and the sky is less than one-half covered most of the time, but clear skies are rare.

Severe storms with attendant damaging winds are rare in the vicinity of Kwajalein. During the wet season, however, small, weak depressions may form near the island. Some of these intensify and a few eventually develop into typhoons after moving westward away from the island. These depressions cause heavy rainfall in the Kwajalein Atoll.

The relative humidity is uniformly high throughout the year, and is slightly higher in the wet season than in the dry season. The combination of high humidity and proximity of the salt water ocean presents a corrosion problem.

STATION LOCATION

KWAJALEIN ISLAND, PACIFIC

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE EAST	ELEVATION ABOVE											AUGUST 1962 * Type	REMARKS	
						SEA LEVEL	GROUND												
							WIND	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY	EMERGENCY			EMERGENCY
U.S. Army	2/17/44	4/15/52		8°43'	167°44'	7													
U.S. Navy	4/15/52	11/02/54	Unknown	8°44'	167°43'	7													
U.S. Navy	11/03/54	6/30/60	1-1/4 mi. NE	8°44'	167°44'	10	62		26						22				
U.S. Wea. Bur. Office Bucholz Army Air Field	7/01/60	Present	3/4 mi. SW	8°44'	167°44'	8	a19	25	b5	5	b5	NA	NA	NA	2	NA	NA	a	- Effective 6/23/69.
																		b	- Moved 75' NNE 8/2/80.
																		c	- Moved 16' SW 8/2/80.
																		d	- Installed 15' S of inst. shelter 8/2/80.

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
 INQUIRIES/COMMENTS CALL: (828) 271-4800

National Climatic Data Center
 151 Patton Avenue, Rm 120
 Asheville NC 28801-5001

OFFICIAL BUSINESS
 PENALTY FOR PRIVATE USE \$300
 FORWARD AND ADDRESS CORRECTION

FIRST CLASS
 POSTAGE & FEES PAID
 United States Department of Commerce
 NOAA Permit No. G - 19