

1999

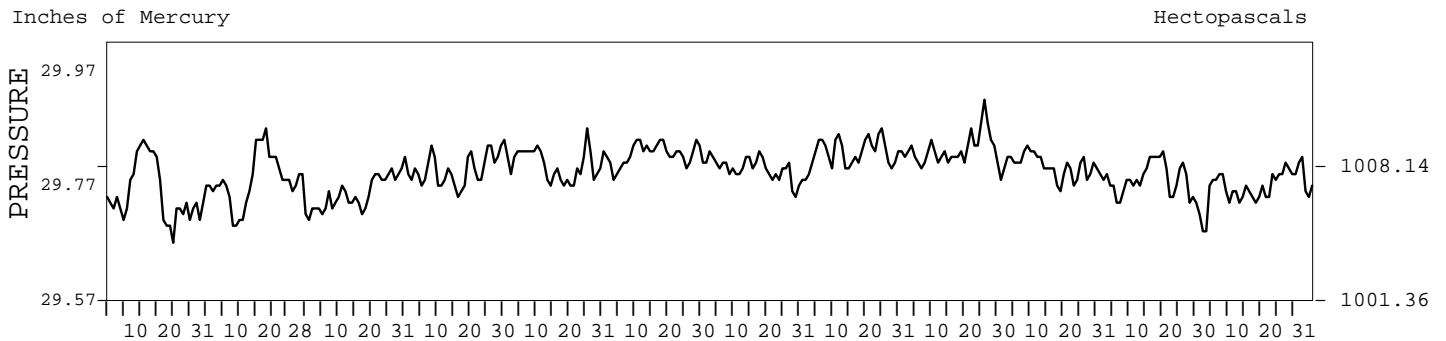
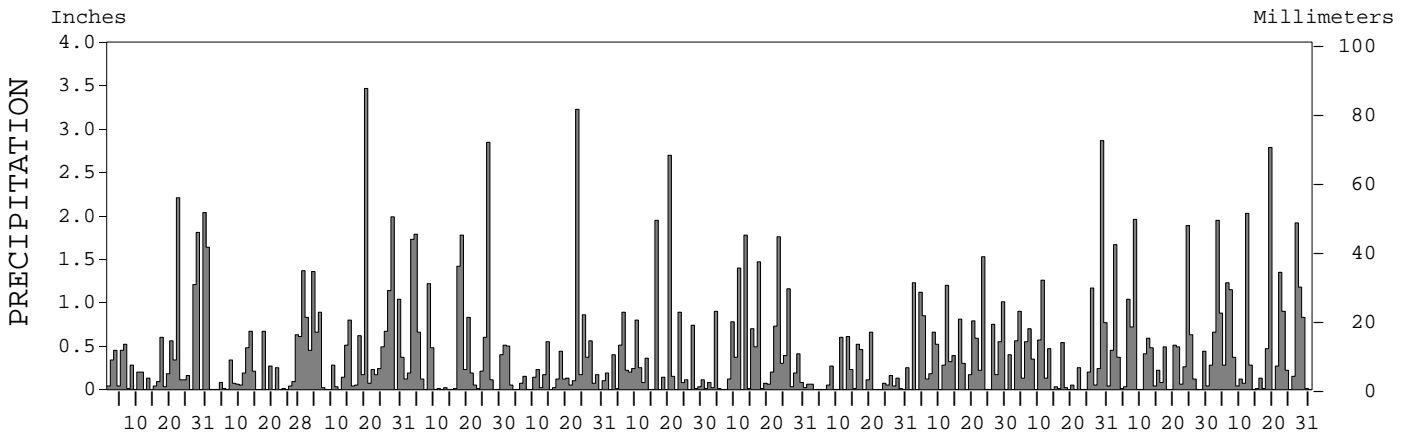
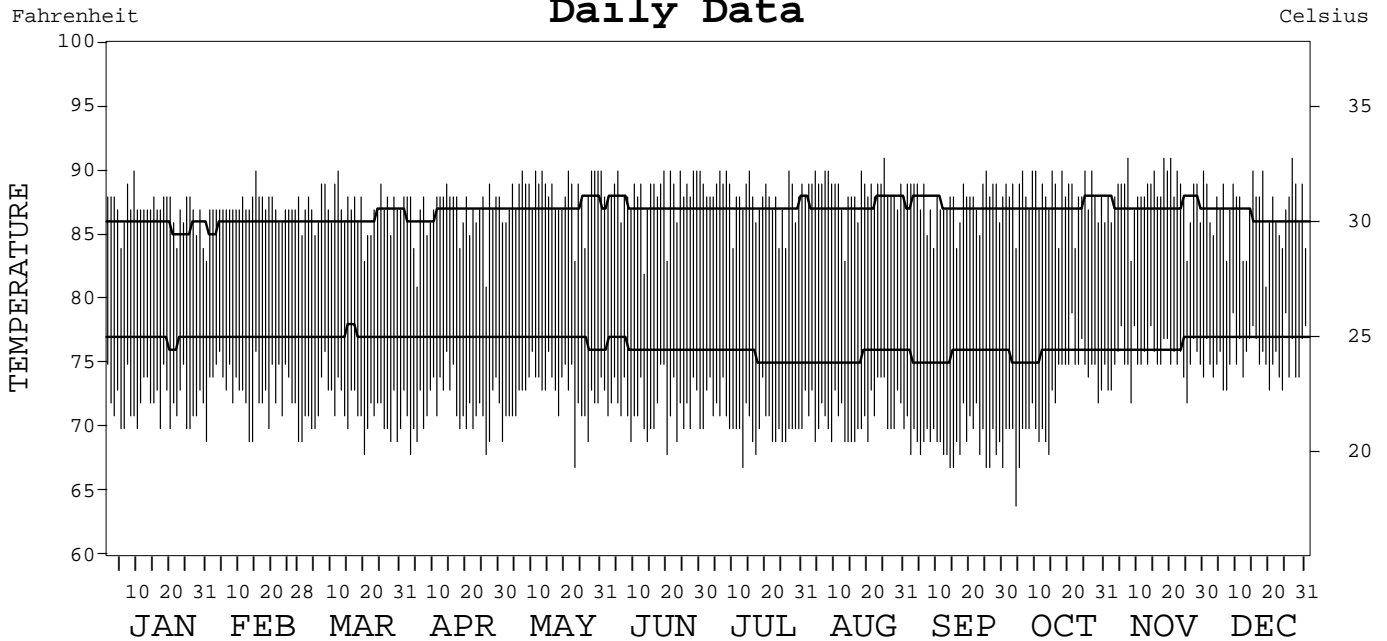
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



CHUUK, EASTERN CAROLINE IS.,
PACIFIC (PTKK)

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Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

CHUUK, PC (PTKK)

LATITUDE: 7° 27' 0" N LONGITUDE: 151° 50' 0" E ELEVATION (FT): GRND: 5 BARO: 8 TIME ZONE: 165 E MER (UTC - 11) WBAN: 40505

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	86.9	87.3	87.0	86.8	88.2	88.2	87.9	88.5	87.6	88.0	88.3	86.8	87.6	
	HIGHEST DAILY MAXIMUM	90	90	90	89	90	90	90	91	90	90	91	91	91	
	DATE OF OCCURRENCE	09	15	12	27+	31+	30+	27+	25	25	27+	20+	27	DEC 27	
	MEAN DAILY MINIMUM	71.9	72.9	71.3	71.6	72.5	71.6	70.5	71.0	69.0	72.2	75.3	75.5	72.1	
	LOWEST DAILY MINIMUM	69	69	68	68	67	68	67	69	67	64	72	73	64	
	DATE OF OCCURRENCE	31	28+	20	26+	23	20	13	20+	30+	04	25+	24+	OCT 04	
	AVERAGE DRY BULB	79.4	80.1	79.2	79.2	80.4	79.9	79.2	79.8	78.3	80.1	81.8	81.2	79.9	
	MEAN WET BULB	77.5	77.4	77.5	77.9	78.4	78.0	77.6	78.0	77.6	78.0	78.1	78.1	77.8	
	MEAN DEW POINT	75.4	75.1	75.8	76.3	76.5	76.0	75.8	76.2	76.0	76.2	76.4	76.4	76.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	1	1	1	0	8	7	4	5	1	7	7	3	45	
MAXIMUM ≤ 32°	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		
MINIMUM ≤ 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	453	431	448	434	484	454	448	464	409	479	513	509	5526	
RH	MEAN (PERCENT)	79	77	81	83	81	81	82	82	84	84	83	83	82	
	HOUR 05 LST	82	81	84	85	83	85	87	87	90	89	88	86	86	
	HOUR 11 LST	76	72	79	79	77	74	77	79	78	77	78	79	77	
	HOUR 17 LST	78	77	80	83	79	80	79	77	79	80	80	82	80	
	HOUR 23 LST	81	81	84	85	82	84	86	85	87	88	87	85	85	
S	PERCENT POSSIBLE SUNSHINE	37	57	40	29	66	60	54	64	53	48	50	35	49	
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	0	0	0	1	1	2	0	0	3	1	4	6	18	
CLOUDINESS	AVG. SKY COVER (OKTAS)														
	SUNRISE - SUNSET	7	7	8	8	7	7	7	7	7	7	8	8	7	
	MIDNIGHT - MIDNIGHT	7	7	8	8	7	7	7	7	7	8	8	8	7	
	NUMBER OF DAYS WITH:														
	CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	
PARTLY CLOUDY	6	6	0	0	4	7	5	7	6	3	1	1	46		
CLOUDY	25	22	31	30	27	23	26	24	24	28	29	30	319		
PR	MEAN STATION PRESS. (IN.)	29.76	29.78	29.76	29.80	29.81	29.82	29.80	29.83	29.83	29.80	29.77	29.77	29.79	
	MEAN SEA-LEVEL PRESS. (IN.)	29.77	29.79	29.77	29.81	29.82	29.84	29.81	29.84	29.85	29.82	29.79	29.79	29.81	
WINDS	RESULTANT SPEED (MPH)	6.6	7.0	4.3	4.3	4.4	1.7	1.9	1.8	1.0	1.9	1.2	3.0	2.9	
	RES. DIR. (TENS OF DEGS.)	06	11	08	14	12	09	14	08	12	10	07	11	10	
	MEAN SPEED (MPH)	11.1	11.7	10.1	10.1	9.1	7.9	7.3	7.2	7.2	7.0	7.7	10.7	8.9	
	PREVAIL. DIR. (TENS OF DEGS.)	06	06	06	06	06	06	06	06	04	06	06	06	06	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	28	23	23	21	18	17	21	18	23	23	17	23	28	
	DIR. (TENS OF DEGS.)	08	05	06	05	04	14	12	04	04	04	04	18	08	
	DATE OF OCCURRENCE	17	23	23	14	12	04	11+	26	04	29	27+	07+	JAN 17	
	PEAK GUST :														
	SPEED (MPH)	48	44	46	51	40	37	44	30	35	39	35	53	53	
DIR. (TENS OF DEGS.)	NE	SE	NE	SE	NE	E	E	NE	NE	E	NE	SE	SE		
DATE OF OCCURRENCE	17	12	30	04	14	24	04	26	20	21	23	06	DEC 06		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	13.79	4.73	18.10	15.03	8.90	11.06	13.55	4.35	13.76	12.26	13.00	19.58	148.11	
	GREATEST 24-HOUR (IN.)	3.36	1.01	3.47	3.31	3.26	2.70	2.01	0.77	1.91	2.99	2.48	3.26	3.47	
	DATE OF OCCURRENCE	30-31	27-28	20	25-26	22-23	20	23-24	19-20	04-05	29-30	24-25	18-19	MAR 20	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	26	18	27	23	25	23	28	19	22	24	24	27	286		
PRECIPITATION ≥ 0.10	20	10	22	18	19	18	17	11	22	18	18	22	215		
PRECIPITATION ≥ 1.00	5	0	6	6	1	2	5	0	5	3	4	8	45		
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														
	MAXIMUM SNOW DEPTH (IN.)	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		

NORMALS, MEANS, AND EXTREMES

CHUUK, PC (PTKK)

LATITUDE: 7° 27' 0 " N LONGITUDE: 151° 50' 0 " E ELEVATION (FT): GRND: 5 BARO: 8 TIME ZONE: 165 E MER (UTC - 11) WBAN: 40505

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	85.8	85.9	86.3	86.7	87.2	87.2	87.1	87.3	87.3	87.3	87.2	86.4	86.8	
	MEAN DAILY MAXIMUM	48	85.7	85.8	86.3	86.6	87.1	87.1	87.0	87.1	87.2	87.2	87.0	86.4	86.7	
	HIGHEST DAILY MAXIMUM	49	92	91	94	93	94	93	92	92	92	93	92	91	91	
	YEAR OF OCCURRENCE		1997	1946	1946	1998	1946	1957	1984	1995	1981	1981	1999	1999	MAY 1946	
	MEAN OF EXTREME MAXS.	48	87.9	87.7	88.3	89.0	89.6	89.7	89.8	89.8	89.8	89.9	89.4	88.8	89.1	
	NORMAL DAILY MINIMUM	30	76.9	77.0	77.1	77.0	76.8	76.2	75.5	75.5	75.6	75.7	76.3	77.0	76.4	
	MEAN DAILY MINIMUM	48	76.7	76.6	76.8	76.9	76.6	76.1	75.3	75.1	75.3	75.5	76.1	76.7	76.1	
	LOWEST DAILY MINIMUM	49	68	67	68	68	67	68	67	69	67	64	66	69	64	
	YEAR OF OCCURRENCE		1998	1997	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	1998	OCT 1999
	MEAN OF EXTREME MINS.	48	72.7	72.9	72.8	72.9	73.0	72.9	72.3	72.1	72.1	72.1	72.7	72.9	72.6	
	NORMAL DRY BULB	30	81.4	81.5	81.7	81.9	82.0	81.8	81.3	81.4	81.5	81.6	81.8	81.7	81.6	
	MEAN DRY BULB	48	81.3	81.3	81.5	81.7	81.9	81.7	81.3	81.2	81.3	81.5	81.7	81.6	81.5	
	MEAN WET BULB	16	76.8	76.5	76.7	77.3	77.9	77.8	77.5	77.6	77.7	77.8	77.9	77.5	77.4	
	MEAN DEW POINT	16	74.5	74.0	74.4	75.3	75.9	75.9	75.7	75.8	75.8	75.9	76.1	75.5	75.4	
	NORMAL NO. DAYS WITH:															
MAXIMUM ≥ 90°	30	0.1	0.1	0.2	0.7	2.7	2.3	2.8	3.3	3.7	3.0	2.1	0.5	21.5		
MAXIMUM ≤ 32°	30	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		
MINIMUM ≤ 32°	30	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		
MINIMUM ≤ 0°	30	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		
H/C	NORMAL HEATING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NORMAL COOLING DEG. DAYS	30	508	462	518	507	527	504	505	508	495	515	504	518	6071	
RH	NORMAL (PERCENT)	30	79	78	79	81	83	83	84	83	83	83	82	81	82	
	HOUR 05 LST	30	81	80	82	85	86	88	89	89	89	88	87	84	86	
	HOUR 11 LST	30	76	75	75	77	78	78	78	77	78	77	77	77	77	
	HOUR 17 LST	30	76	74	75	76	78	78	77	76	76	77	77	78	76	
	HOUR 23 LST	30	81	80	80	83	84	85	86	87	86	86	85	82	84	
S	PERCENT POSSIBLE SUNSHINE	39	50	55	56	50	47	44	47	48	45	42	44	43	48	
W/O	MEAN NO. DAYS WITH:															
	HEAVY FOG(VISBY≤1/4 MI)	48	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	
	THUNDERSTORMS	48	0.9	0.3	1.0	1.2	1.8	1.7	1.8	1.3	1.8	2.1	2.3	1.8	18.0	
CLOUDINESS	MEAN:															
	SUNRISE-SUNSET (OKTAS)	48	7.4	7.4	7.4	7.4	7.3	7.4	7.3	7.3	7.4	7.3	7.3	7.5	7.4	
	MIDNIGHT-MIDNIGHT (OKTAS)	20	7.4	7.4	7.4	7.4	7.5	7.4	7.5	7.3	7.4	7.4	7.3	7.5	7.4	
	MEAN NO. DAYS WITH:															
	CLEAR	49	0.2	0.2	0.3	0.2	0.3	0.2	0.2	0.1	0.3	0.3	0.1	0.1	2.5	
PARTLY CLOUDY	49	3.6	3.2	3.4	3.7	3.8	3.7	3.9	4.4	3.8	3.9	3.8	3.0	44.2		
CLOUDY	49	27.2	24.8	27.3	26.1	26.8	26.2	26.4	26.1	25.5	26.3	25.5	27.5	315.7		
PR	MEAN STATION PRESSURE(IN)	21	29.79	29.82	29.81	29.80	29.80	29.81	29.80	29.81	29.81	29.79	29.78	29.78	29.80	
	MEAN SEA-LEVEL PRES. (IN)	16	29.80	29.82	29.83	29.81	29.81	29.82	29.81	29.81	29.82	29.80	29.79	29.79	29.81	
WINDS	MEAN SPEED (MPH)	16	10.3	10.9	10.5	9.0	8.3	6.9	6.6	7.3	7.4	7.0	7.8	9.2	8.4	
	PREVAIL.DIR.(TENS OF DEGS)	12	04	04	04	04	04	04	04	24	22	06	06	06	04	
	MAXIMUM 2-MINUTE:															
	SPEED (MPH)	11	30	23	33	29	23	31	35	32	35	35	30	30	35	
	DIR. (TENS OF DEGS)		03	05	33	08	09	02	24	02	02	02	04	04	24	
	YEAR OF OCCURRENCE		1992	1996	1997	1996	1989	1995	1994	1997	1991	1993	1992	1993	AUG 1997	
	PEAK GUST :															
SPEED (MPH)	16	53	48	54	55	52	49	49	52	46	58	94	56	94		
DIR. (TENS OF DEGS)		SE	NE	NE	NE	E	SE	SE	SE	SW	E	S	NE	S		
YEAR OF OCCURRENCE		1987	1990	1991	1990	1985	1986	1995	1995	1994	1986	1987	1994	NOV 1987		
PRECIPITATION	NORMAL (IN)	30	8.98	6.42	9.05	11.46	13.94	11.84	14.37	13.77	12.07	14.23	11.10	11.55	138.78	
	MAXIMUM MONTHLY (IN)	50	19.19	15.95	24.02	23.38	28.39	21.72	32.99	25.96	21.17	24.71	26.12	34.89	34.89	
	YEAR OF OCCURRENCE		1981	1991	1967	1956	1976	1950	1962	1979	1955	1979	1962	1959	DEC 1959	
	MINIMUM MONTHLY (IN)	50	0.96	0.56	0.78	1.13	3.80	6.10	2.65	4.35	5.24	4.17	1.88	2.88	0.56	
	YEAR OF OCCURRENCE		1959	1983	1998	1998	1983	1966	1984	1999	1989	1972	1982	1997	FEB 1983	
	MAXIMUM IN 24 HOURS (IN)	50	6.78	7.89	8.21	7.16	11.13	7.61	10.07	4.91	6.24	6.55	10.41	14.92	14.92	
	YEAR OF OCCURRENCE		1985	1993	1972	1989	1976	1972	1962	1963	1978	1968	1962	1959	DEC 1959	
	NORMAL NO. DAYS WITH:															
PRECIPITATION ≥ 0.01	30	19.4	15.5	18.7	19.8	24.4	23.5	23.9	24.0	21.7	23.4	23.2	23.2	260.7		
PRECIPITATION ≥ 1.00	30	2.6	1.8	2.8	3.4	4.2	3.5	4.8	4.7	4.3	4.7	3.0	3.1	42.9		
SNOWFALL	NORMAL (IN)	30	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	
	MAXIMUM MONTHLY (IN)	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	YEAR OF OCCURRENCE															
	MAXIMUM IN 24 HOURS (IN)	50	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	
	YEAR OF OCCURRENCE															
	MAXIMUM SNOW DEPTH (IN)	47	0	0	0	0	0	0	0	0	0	0	0	0	0	
YEAR OF OCCURRENCE																
NORMAL NO. DAYS WITH:																
SNOWFALL ≥ 1.0	30	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		

PRECIPITATION (inches) 1999 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	14.80	11.80	2.40	10.43	18.60	13.99	7.49	12.98	10.75	19.04	8.43	13.57	144.28
1971	8.25	8.63	9.85	10.20	15.33	13.92	13.18	10.63	14.54	16.40	5.20	8.04	134.17
1972	9.83	10.65	18.49	15.79	16.68	14.73	16.68	11.58	13.60	4.17	7.49	9.26	148.95
1973	1.36	2.30	4.59	8.83	8.96	10.31	13.78	13.18	11.34	21.16	8.59	17.60	122.00
1974	10.23	13.44	19.75	11.59	13.47	14.83	12.49	10.72	14.33	20.14	14.91	8.84	164.74
1975	3.71	3.86	11.17	4.25	17.91	16.12	7.35	13.72	12.02	12.24	17.44	9.99	129.78
1976	10.57	9.37	5.70	17.80	28.39	12.26	11.55	14.74	15.14	15.22	16.09	6.41	163.24
1977	6.44	1.98	8.31	11.47	11.67	7.07	9.11	14.20	13.94	16.21	12.45	3.24	116.09
1978	5.73	2.29	4.85	8.17	13.25	10.10	8.40	14.37	14.98	21.21	12.99	12.47	128.81
1979	7.69	4.39	7.83	20.32	13.91	19.02	9.02	25.96	10.44	24.71	20.97	7.36	171.62
1980	13.91	5.96	8.14	6.55	18.26	12.88	17.26	12.78	8.50	18.91	2.98	18.44	144.57
1981	19.19	4.41	7.24	12.54	6.04	14.46	8.44	10.76	11.35	14.48	9.62	18.20	136.73
1982	7.04	5.92	11.21	8.67	14.68	11.99	11.55	10.70	9.38	6.76	1.88	4.61	104.39
1983	5.16	0.56	1.95	3.28	3.80	9.28	23.09	12.84	9.75	15.32	12.08	15.17	112.28
1984	12.92	10.10	8.27	7.03	11.06	7.47	2.65	14.88	5.35	18.06	14.58	6.84	119.21
1985	16.99	7.85	3.64	16.39	11.67	10.21	12.24	9.73	15.81	7.47	8.70	12.91	133.61
1986	14.40	14.82	18.35	9.45	10.86	8.81	14.92	8.31	10.74	5.60	12.67	11.45	140.38
1987	9.51	0.58	7.69	19.80	5.89	13.34	14.68	15.70	5.36	7.12	14.14	10.89	124.70
1988	3.46	6.65	2.94	3.49	16.18	8.45	11.41	10.44	11.21	21.17	8.84	11.86	116.10
1989	9.32	3.85	7.13	22.51	13.47	10.50	18.20	14.43	5.24	15.72	8.94	11.27	140.58
1990	12.16	2.02	10.72	12.65	11.54	11.22	10.57	24.39	10.89	9.25	12.59	3.12	131.12
1991	11.42	15.95	15.67	18.92	16.81	11.25	9.91	9.60	18.57	6.14	10.21	4.45	148.90
1992	4.80	2.70	1.65	5.09	7.52	12.60	10.72	18.96	12.07	13.24	7.93	7.72	105.00
1993	14.64	10.36	9.43	16.64	15.49	17.29	10.80	16.36	14.50	12.92	9.04	21.00	168.47
1994	10.14	11.40	9.78	10.55	21.95	11.68	14.68	15.27	10.83	4.65	4.28	11.23	136.44
1995	6.08	4.65	5.71	10.43	9.61	11.18	11.54	13.07	19.87	13.83	9.87	14.81	130.65
1996	12.29	9.10	11.29	15.69	11.78	11.80	13.10	13.92	8.90	6.24	23.58	6.22	143.91
1997	11.53	11.26	4.88	5.47	9.04	11.65	15.46	15.06	14.03	8.32	2.53	2.88	112.11
1998	1.25	1.75	0.78	1.13	9.96	10.07	5.43	12.89	6.49	12.62	15.02	13.83	91.22
1999	13.79	4.73	18.10	15.03	8.90	11.06	13.55	4.35	13.76	12.26	13.00	19.58	148.11
POR= 50 YRS	8.90	6.48	8.56	11.99	14.10	12.21	13.56	13.52	12.64	13.12	11.38	12.35	138.81

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AVERAGE TEMPERATURE (°F) 1999 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	81.5	81.9	82.6	82.4	81.8	81.8	81.8	81.6	81.7	81.1	82.1	81.9	81.9
1971	81.5	81.3	81.5	81.6	81.2	81.0	80.4	81.5	81.1	81.3	82.1	81.7	81.4
1972	80.9	80.5	81.1	81.0	81.5	81.4	80.7	80.7	81.3	81.6	82.1	81.4	81.2
1973	81.6	81.2	82.2	81.8	82.2	82.4	81.6	81.8	81.7	81.0	82.2	81.8	81.8
1974	81.2	81.2	81.6	81.8	82.0	81.4	81.2	81.3	81.5	81.4	81.8	81.7	81.5
1975	81.6	81.7	81.7	82.2	81.4	81.2	81.0	81.1	81.1	81.0	80.5	81.2	81.3
1976	81.2	80.8	81.3	80.9	80.9	80.9	81.3	80.7	80.5	81.7	81.6	81.7	81.1
1977	81.3	81.6	81.4	82.1	82.0	82.5	81.7	81.9	81.7	82.1	81.2	82.2	81.8
1978	81.3	81.7	82.4	82.1	82.1	82.0	82.4	82.1	81.9	81.8	81.9	82.0	82.0
1979	81.9	82.2	81.8	81.8	81.9	82.3	81.8	81.3	82.4	81.3	81.6	81.5	81.8
1980	81.2	81.5	81.8	82.5	82.0	81.8	80.8	81.1	81.5	80.4	81.3	81.2	81.4
1981	81.0	82.0	82.2	82.6	83.0	82.0	82.7	82.5	82.4	82.3	82.4	82.4	82.3
1982	82.7	82.2	81.8	82.7	82.4	82.3	82.1	81.9	82.2	82.0	82.6	82.1	82.3
1983	80.8	81.5	81.8	82.8	84.0	83.4	81.8	82.5	82.6	82.5	82.7	82.4	82.4
1984	81.4	81.7	82.5	83.3	83.6	81.5	83.8	81.6	82.6	81.9	82.7	83.1	82.5
1985	81.5	82.6	82.9	82.1	82.8	82.7	81.7	81.9	81.6	82.4	82.9	82.7	82.3
1986	81.9	81.0	81.7	82.9	83.0	82.6	82.0	82.6	81.6	82.1	82.0	81.8	82.1
1987	81.8	82.9	81.8	81.8	83.9	82.7	81.2	81.3	82.6	83.0	82.8	82.7	82.4
1988	82.3	81.9	83.9	83.7	82.5	82.8	82.7	82.8	82.5	82.1	83.0	81.9	82.7
1989	82.7	82.9	82.1	81.5	82.0	81.8	81.5	81.5	82.2	82.0	82.1	81.9	82.0
1990	82.0	82.2	81.9	82.3	82.3	82.1	81.4	80.8	81.9	82.0	82.1	82.2	81.9
1991	81.4	80.8	81.6	82.2	82.4	82.3	81.9	82.0	81.0	82.0	81.7	82.2	81.8
1992	81.3	81.1	82.2	82.8	83.2	82.6	82.3	81.4	82.0	82.4	81.8	81.2	82.0
1993	80.9	81.4	81.1	81.7	82.2	81.3	82.3	81.1	81.2	81.5	82.1	81.3	81.5
1994	81.6	81.0	82.2	82.4	81.7	82.2	80.8	81.2	81.6	81.8	82.1	81.3	81.7
1995	81.4	81.2	82.1	81.3	82.4	81.7	81.1	81.5	82.1	82.0	82.6	82.1	81.8
1996	81.3	81.7	81.7	81.5	81.8	82.2	82.2	81.6	80.8	81.3	80.7	81.6	81.5
1997	81.3	80.2	80.2	81.5	81.7	79.9	80.4	79.4	79.7	80.5	81.3	81.5	80.6
1998	81.0	80.5	81.4	82.9	82.1	81.4	81.1	80.8	80.8	80.3	79.9	79.8	81.0
1999	79.4	80.1	79.2	79.2	80.4	79.9	79.2	79.8	78.3	80.1	81.8	81.2	79.9
POR= 48 YRS	81.3	81.3	81.6	81.8	81.8	81.7	81.3	81.2	81.3	81.5	81.6	81.6	81.5

HEATING DEGREE DAYS (base 65°F) 1999 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

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

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COOLING DEGREE DAYS (base 65°F) 1999 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	516	478	551	528	527	509	531	525	509	506	517	532	6229
1971	517	465	515	507	507	487	482	519	491	509	517	525	6041
1972	500	456	506	487	521	499	492	493	496	521	519	518	6008
1973	520	463	540	509	540	529	523	529	507	503	523	527	6213
1974	508	459	525	511	536	499	507	512	502	513	508	526	6106
1975	522	475	524	522	514	494	501	506	489	501	473	506	6027
1976	507	466	509	483	500	483	512	493	469	524	505	524	5975
1977	515	471	516	517	534	531	529	529	508	538	491	540	6219
1978	514	475	545	520	537	515	546	543	517	528	511	534	6285
1979	533	489	531	511	531	527	529	512	531	513	504	517	6228
1980	507	483	527	531	534	512	496	505	500	483	495	509	6082
1981	501	481	540	534	565	518	557	547	529	543	530	546	6391
1982	557	488	527	538	547	526	540	534	523	533	533	541	6387
1983	497	469	527	540	594	558	528	550	535	550	538	548	6434
1984	513	487	548	556	582	504	590	521	534	530	539	566	6470
1985	517	502	560	517	556	538	526	532	507	550	543	553	6401
1986	530	453	526	542	563	534	538	552	507	537	516	528	6326
1987	530	505	528	512	591	538	509	512	536	565	540	554	6420
1988	542	496	593	567	552	536	556	559	534	536	545	530	6546
1989	555	506	538	503	533	510	520	516	524	536	521	529	6291
1990	533	487	531	527	543	524	516	498	515	531	516	539	6260
1991	516	450	521	524	547	528	529	534	486	532	508	537	6212
1992	512	472	542	540	571	535	542	517	518	546	510	510	6315
1993	498	464	506	507	538	497	545	505	494	519	518	514	6105
1994	519	453	540	529	526	523	498	511	505	529	521	511	6165
1995	513	461	537	495	546	509	509	518	518	533	537	536	6212
1996	514	491	526	501	529	519	542	522	483	509	478	523	6137
1997	512	432	479	503	526	456	482	451	448	487	497	519	5792
1998	503	439	513	542	536	497	508	495	481	481	455	466	5916
1999	453	431	448	434	484	454	448	464	409	479	513	509	5526

SNOWFALL (inches) 1999 CHUUK, EASTERN CAROLINE IS., PC (PTKK)

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= 49 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

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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>
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1999
CHUUK, EASTERN CAROLINE IS.,
PACIFIC (PTKK)

Truk Atoll, located in the Western Pacific about 500 miles north of the equator, is comprised of numerous small coral and high volcanic islands scattered over a large lagoon and surrounded by a 125 mile-long barrier reef. Moen Island, roughly triangular in shape and 7.3 square miles in area, is the second largest of the 19 volcanic islands. Its highest point is Mount Teroken, which rises to an elevation of 1,214 feet, and has dense, tropical forests covering its upper reaches and small streams descending its slopes.

The Weather Station is situated on northwestern Moen about 300 feet east of Truk Lagoon and immediately south of the approach end of the airport runway.

A steep-sided 754 foot hill lies a short distance northeast of the Weather Station, and a northeast to southwest trending mountain ridge, of which Mount Teroken is part, to the east. In funneling between these high points, the northeasterly trade winds are deflected to north-northeasterly, and at times generate local eddies with a southerly component near the Weather Station.

From about November to June the climate of Truk is chiefly influenced by the northeasterly trade winds, with average monthly speeds of 8 to 12 miles per hour. By about April, however, the trades begin to weaken, and by July have given way to the lighter and more variable winds of the doldrums. Between July and November the island is frequently under the influence of the Intertropical Convergence Zone which has moved northward into the area. This is also the season when moist southerly winds and tropical disturbances, many of them associated with the ITCZ, are most frequent and when humidities are often oppressively high.

Rainfall at Truk averages about 140 inches a year. A relatively dry period occurs from January to March, when monthly averages run below 8.50 inches. February is the driest month. Rainfall varies widely from year to year and seasonally. Annual totals at Truk have been as low as 120 inches and as high as 180 inches, while even during the ordinarily drier season of January to March, the monthly rainfall has been as much as 24 inches in individual years. However, it has also been less than 1 inch, so that extended dry spells are not uncommon.

The temperature is remarkably uniform throughout the year, with less than one-half degree separating the averages of the warmest and coolest months. With highs in the mid 80s and lows in the mid 70s, the daily range is about 10 degrees. Temperatures below 70 degrees are rare. Every month has had a high temperature of at least 90 degrees. Humidities are high throughout the year.

Although the major typhoon tracks of the Western Pacific lie well to the north and west of Truk, several of the storms have passed close to or over the island within recent years. The storms have caused widespread damage to buildings and to coconut palms and other crops, as well as wave damage to shorelines and coastal structures.

