



# METEOROLOGICAL DATA FOR 1999

## KOROR, PC (PTRO)

LATITUDE: 7° 20' 0" N      LONGITUDE: 134° 29' 0" E      ELEVATION (FT): GRND: 94      BARO: 98      TIME ZONE: 135 E M (UTC - 9)      WBAN: 40309

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	88.5	89.7	89.2	89.0	89.6	88.4	87.6	87.5	88.5	90.3	89.8	89.3	89.0	
	HIGHEST DAILY MAXIMUM	93	92	92	92	93	92	91	91	91	93	93	92	93	
	DATE OF OCCURRENCE	31	26+	15+	10+	17	14+	04+	25+	28+	06	26+	25+	NOV 26+	
	MEAN DAILY MINIMUM	75.5	75.8	75.5	76.0	75.3	74.8	74.6	74.5	74.8	75.2	75.7	75.7	75.3	
	LOWEST DAILY MINIMUM	72	72	73	71	72	71	71	72	71	73	71	72	71	
	DATE OF OCCURRENCE	05	13	24	03+	11	10	26	31+	15	31+	09	30	NOV 09	
	AVERAGE DRY BULB	82.0	82.8	82.4	82.5	82.5	81.6	81.1	81.0	81.7	82.8	82.8	82.5	82.1	
	MEAN WET BULB	77.5	77.5	77.7	78.0	77.9	77.4	76.9	76.9	77.0	77.6	78.0	78.0	77.5	
	MEAN DEW POINT	76.2	75.5	76.1	76.4	76.3	75.6	75.2	75.3	75.1	75.7	76.3	76.5	75.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	15	20	16	13	21	14	6	5	11	25	21	19	186	
	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	533	505	548	532	548	505	509	503	504	557	539	549	6332	
RH	MEAN (PERCENT)	84	81	84	84	83	84	82	84	82	82	82	85	83	
	HOUR 03 LST	89	87	90	89	89	88	88	89	89	90	88	90	89	
	HOUR 09 LST	82	78	80	79	75	79	77	80	75	74	77	81	78	
	HOUR 15 LST	76	70	75	78	78	76	75	76	72	70	76	78	75	
	HOUR 21 LST	87	85	88	84	86	88	85	87	85	88	86	87	86	
S	PERCENT POSSIBLE SUNSHINE	43	58	49	43	55	40	50	43	60	60	65	32	50	
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	2	0	1	1	3	4	2	1	2	3	6	3	28	
CLOUDINESS	AVG. SKY COVER (OKTAS)														
	SUNRISE - SUNSET	7	7	6	7	6	7	7	7	6	6	6	7	7	
	MIDNIGHT - MIDNIGHT	7	6	6	7	6	7	6	7	6	5	6	7	6	
	NUMBER OF DAYS WITH:														
	CLEAR	0	1	0	0	0	0	0	0	1	1	0	1	4	
PARTLY CLOUDY	6	8	16	5	14	9	11	5	12	14	15	8	123		
CLOUDY	25	19	15	25	17	21	20	26	17	16	15	22	238		
PR	MEAN STATION PRESS. (IN.)	29.66	29.70	29.66	29.69	29.72	29.73	29.70	29.73	29.74	29.71	29.67	29.68	29.70	
	MEAN SEA-LEVEL PRESS. (IN.)	29.78	29.81	29.78	29.80	29.83	29.84	29.82	29.85	29.85	29.83	29.78	29.79	29.81	
WINDS	RESULTANT SPEED (MPH)	1.3	2.0	1.1	1.6	1.0	1.1	1.9	0.6	1.0	1.1	1.6	1.8	0.8	
	RES. DIR. (TENS OF DEGS.)	04	09	07	15	13	18	26	19	08	11	12	12	12	
	MEAN SPEED (MPH)	7.4	5.8	5.8	6.1	4.8	5.0	5.7	6.1	4.5	4.1	5.7	5.3	5.5	
	PREVAIL. DIR. (TENS OF DEGS.)	09	06	09	18	09	18	18	18	18	14	24	09	09	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	35	18	17	18	16	23	23	26	20	17	23	21	35	
	DIR. (TENS OF DEGS.)	02	10	07	07	12	14	31	22	15	23	26	07	02	
	DATE OF OCCURRENCE	01	14+	18+	13	13	08	27	14	19	28	09	31	JAN 01	
	PEAK GUST :														
	SPEED (MPH)	40	30	37	43	31	32	46	46	29	30	41	32	46	
DIR. (TENS OF DEGS.)	E	SW	NE	W	SE	SE	W	W	S	S	W	SE	W		
DATE OF OCCURRENCE	19	17	17	26	19	09+	29	02	19	29	09	31	AUG 02		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	24.83	6.44	19.24	14.70	10.66	11.93	18.33	26.00	8.00	5.88	9.51	16.37	171.89	
	GREATEST 24-HOUR (IN.)	5.27	3.71	3.20	7.14	2.23	1.91	4.24	5.52	2.44	1.76	2.88	1.95	7.14	
	DATE OF OCCURRENCE	20-21	12-13	25-26	02-03	29-30	25-26	27-28	17-18	07	28-29	06-07	16-17	APR 02-03	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	28	21	26	23	23	29	25	25	17	22	22	29	290		
PRECIPITATION ≥ 0.10	24	9	23	19	19	20	19	21	11	16	13	26	220		
PRECIPITATION ≥ 1.00	8	1	7	2	3	3	6	8	2	1	3	7	51		
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

## KOROR, PC (PTRO)

LATITUDE: 7° 20' 0" N      LONGITUDE: 134° 29' 0" E      ELEVATION (FT): GRND: 94      BARO: 98      TIME ZONE: 135 E M (UTC - 9)      WBAN: 40309

		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	87.0	87.0	87.7	88.4	88.6	87.8	87.1	87.2	87.7	87.9	88.5	87.9	87.7
	MEAN DAILY MAXIMUM	48	87.0	87.1	87.8	88.4	88.6	87.9	87.4	87.4	87.7	87.9	88.5	87.8	87.8
	HIGHEST DAILY MAXIMUM	50	93	92	92	93	93	95	93	93	93	92	93	94	95
	YEAR OF OCCURRENCE		1999	1999	1999	1998	1999	1976	1968	1998	1998	1999	1999	1998	JUN 1976
	MEAN OF EXTREME MAXS.	48	89.9	89.6	89.9	90.7	91.1	90.8	90.3	90.0	90.5	90.7	91.0	90.5	90.4
	NORMAL DAILY MINIMUM	30	75.1	75.0	75.3	75.9	76.1	75.5	75.4	75.7	76.1	75.9	76.0	75.6	75.6
	MEAN DAILY MINIMUM	48	75.0	75.0	75.2	75.8	76.0	75.5	75.3	75.6	75.9	75.9	75.9	75.5	75.6
	LOWEST DAILY MINIMUM	50	69	71	69	69	71	70	70	70	70	71	70	71	69
	YEAR OF OCCURRENCE		1998	1993	1953	1979	1996	1948	1994	1989	1978	1998	1990	1984	JAN 1998
	MEAN OF EXTREME MINS.	48	72.3	72.5	72.6	73.2	73.1	72.8	72.2	72.2	72.4	72.6	72.9	72.9	72.6
	NORMAL DRY BULB	30	81.1	81.0	81.5	82.2	82.4	81.7	81.3	81.5	81.9	81.9	82.3	81.8	81.7
	MEAN DRY BULB	48	81.0	81.0	81.4	82.1	82.3	81.7	81.3	81.4	81.7	81.9	82.2	81.6	81.6
	MEAN WET BULB	16	76.8	76.6	76.8	77.6	78.1	77.9	77.6	77.6	77.6	77.8	78.0	77.5	77.5
	MEAN DEW POINT	16	75.1	74.7	74.9	75.7	76.6	76.3	75.9	75.7	75.7	76.2	76.5	75.9	75.8
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	2.0	1.5	2.8	7.7	13.1	7.7	3.4	3.0	5.6	7.9	11.2	6.2	72.1	
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	499	448	512	516	539	501	505	512	507	524	519	521	6103
RH	NORMAL (PERCENT)	30	84	84	84	83	85	86	85	85	84	85	85	85	85
	HOUR 03 LST	30	90	90	90	90	92	92	90	90	89	91	92	91	91
	HOUR 09 LST	30	81	80	79	78	80	81	80	80	79	80	79	80	80
	HOUR 15 LST	30	76	75	74	74	77	78	78	77	76	77	77	77	76
	HOUR 21 LST	30	87	87	87	87	88	89	88	87	87	88	89	88	88
S	PERCENT POSSIBLE SUNSHINE	39	54	54	63	62	54	44	46	45	53	47	51	49	52
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	0.9	1.0	2.1	3.4	3.6	3.2	3.4	3.9	4.1	3.5	2.7	32.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	47	7.0	7.0	6.6	6.5	6.7	7.2	7.2	7.3	7.1	6.9	6.9	7.0	7.0
	MIDNIGHT-MIDNIGHT (OKTAS)	21	6.6	6.7	6.4	6.0	6.3	7.0	6.9	6.8	6.9	6.3	6.4	6.7	6.6
	MEAN NO. DAYS WITH:														
	CLEAR	47	0.4	0.4	1.0	1.3	0.8	0.2	0.2	0.4	0.3	0.6	0.5	0.3	6.4
PARTLY CLOUDY	47	6.3	6.2	8.2	8.6	8.6	4.6	4.7	4.5	5.6	6.9	7.3	6.1	77.6	
CLOUDY	47	24.2	21.7	21.7	19.9	21.6	25.2	25.5	25.5	23.5	22.9	21.6	24.0	277.3	
PR	MEAN STATION PRESSURE (IN)	21	29.71	29.74	29.73	29.71	29.70	29.70	29.70	29.70	29.71	29.69	29.68	29.70	29.71
	MEAN SEA-LEVEL PRES. (IN)	16	29.82	29.84	29.85	29.83	29.82	29.82	29.82	29.82	29.83	29.82	29.81	29.81	29.82
WINDS	MEAN SPEED (MPH)	16	7.3	7.3	7.0	6.3	5.6	5.5	5.4	6.3	6.3	6.2	5.8	6.2	6.3
	PREVAIL. DIR (TENS OF DEGS)	13	06	06	06	06	06	18	24	24	24	24	06	06	06
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	10	35	23	26	25	46	33	25	28	37	31	52	31	52
	DIR. (TENS OF DEGS)		02	06	03	01	01	03	02	08	02	02	02	09	02
	YEAR OF OCCURRENCE		1999	1989	1991	1994	1989	1990	1991	1989	1990	1988	1990	1990	NOV 1990
	PEAK GUST:														
SPEED (MPH)	16	45	41	44	43	46	58	54	52	52	51	83	41	83	
DIR. (TENS OF DEGS)		NW	SE	NE	W	S	W	SW	NW	W	SW	SW	SW	SW	
YEAR OF OCCURRENCE		1985	1997	1991	1999	1989	1990	1986	1986	1991	1991	1990	1995	NOV 1990	
PRECIPITATION	NORMAL (IN)	30	10.70	9.12	8.20	8.67	11.99	17.27	18.04	14.95	11.86	13.87	11.32	11.98	147.97
	MAXIMUM MONTHLY (IN)	50	28.13	27.13	21.98	27.69	27.46	33.83	34.82	33.11	23.16	22.47	22.06	21.10	34.82
	YEAR OF OCCURRENCE		1974	1997	1972	1979	1954	1990	1962	1987	1985	1974	1958	1975	JUL 1962
	MINIMUM MONTHLY (IN)	50	2.11	0.64	0.50	1.65	4.61	5.91	4.14	4.59	1.04	3.72	4.17	1.49	0.50
	YEAR OF OCCURRENCE		1973	1983	1998	1948	1997	1976	1964	1997	1982	1994	1997	1990	MAR 1998
	MAXIMUM IN 24 HOURS (IN)	50	13.86	8.42	13.78	16.95	9.86	13.83	8.27	8.18	8.47	6.18	9.88	6.47	16.95
	YEAR OF OCCURRENCE		1974	1980	1991	1979	1982	1990	1981	1962	1949	1957	1990	1974	APR 1979
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	22.6	19.6	21.0	18.4	23.5	24.3	23.5	22.2	19.5	23.2	21.7	23.5	263.0	
PRECIPITATION ≥ 1.00	30	2.8	2.3	2.3	2.0	3.6	5.8	5.6	5.2	4.0	4.7	3.5	3.7	45.5	
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 KOROR ISLAND, PC (PTRO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	6.23	5.78	4.83	3.21	8.25	12.38	12.61	15.77	8.51	12.99	9.17	14.82	114.55
1971	13.54	10.68	11.09	8.32	16.31	19.61	14.49	10.40	13.98	19.59	10.26	11.06	159.33
1972	10.78	10.83	21.98	7.08	9.49	20.68	11.15	15.88	14.90	9.85	9.96	7.54	150.12
1973	2.11	1.24	2.95	11.29	10.16	13.78	12.79	11.35	12.18	19.14	16.56	9.87	123.42
1974	28.13	7.98	13.75	10.86	8.10	9.72	21.16	13.75	14.80	22.47	15.73	18.54	184.99
1975	17.29	2.82	6.69	10.00	9.01	16.24	22.86	8.28	17.24	11.52	11.18	21.10	154.23
1976	7.80	7.27	8.05	20.09	8.66	5.91	8.08	16.64	7.72	12.49	6.30	16.54	125.55
1977	5.18	5.30	3.60	4.48	11.36	11.15	20.72	19.20	12.65	10.63	7.38	7.79	119.44
1978	10.34	22.46	6.02	8.98	12.52	16.04	9.13	20.36	10.85	20.06	17.66	10.33	164.75
1979	6.98	6.47	7.96	27.69	11.26	22.84	17.79	11.69	12.29	11.97	11.57	11.57	160.08
1980	8.72	16.01	5.53	18.80	10.02	19.50	12.40	15.26	13.60	17.11	12.17	19.95	169.07
1981	11.32	15.00	4.49	3.00	9.66	29.17	21.14	6.89	16.70	14.30	11.37	9.81	152.85
1982	5.79	6.81	9.90	9.45	19.12	22.41	19.40	10.94	1.04	8.82	9.92	13.71	137.31
1983	3.44	0.64	1.71	3.12	5.73	18.48	21.20	17.96	11.73	14.23	11.40	10.48	120.12
1984	18.57	10.81	13.58	7.23	10.85	16.49	12.82	17.47	10.39	15.94	9.19	9.42	152.76
1985	13.22	13.88	5.38	11.82	10.41	25.25	17.55	14.32	23.16	8.64	13.61	6.28	163.52
1986	11.10	16.60	8.33	3.49	12.24	17.16	26.15	13.09	10.21	15.92	17.97	9.06	161.32
1987	9.12	5.94	6.10	4.74	15.32	19.60	28.23	33.11	4.21	12.75	10.88	8.72	158.72
1988	7.14	7.83	6.22	6.18	14.30	21.88	14.90	14.39	12.34	20.05	15.05	21.04	161.32
1989	12.99	12.66	11.31	7.41	16.39	17.33	21.97	17.81	5.54	13.07	9.54	5.96	151.98
1990	5.09	3.83	11.74	7.00	11.72	33.83	19.84	10.34	15.18	11.96	20.71	1.49	152.73
1991	24.16	5.46	17.72	10.34	9.37	12.79	31.58	13.73	21.16	7.81	7.79	12.25	174.16
1992	8.28	2.74	4.88	2.46	9.76	15.73	14.94	17.46	8.15	15.48	5.34	17.25	122.47
1993	9.25	10.49	9.46	14.67	6.72	18.47	11.85	8.61	11.81	8.68	9.24	9.63	128.88
1994	7.29	5.08	13.41	7.83	12.34	19.94	16.98	16.48	4.75	3.72	7.22	7.08	122.12
1995	15.10	15.22	10.75	2.59	16.71	11.39	10.13	13.43	15.57	15.16	15.87	18.32	160.24
1996	12.06	9.20	5.57	18.49	16.85	11.05	15.10	7.33	15.85	10.91	9.32	14.99	146.72
1997	8.34	27.13	9.10	6.44	4.61	18.14	9.18	4.59	10.33	11.56	4.17	11.35	124.94
1998	4.72	2.40	0.50	2.17	9.16	17.62	7.52	10.16	10.09	19.05	17.43	13.57	114.39
1999	24.83	6.44	19.24	14.70	10.66	11.93	18.33	26.00	8.00	5.88	9.51	16.37	171.89
POR= 50 YRS	11.00	8.49	8.60	9.15	12.65	16.33	16.91	14.95	12.38	13.18	11.11	12.35	147.10

WBAN : 40309

AVERAGE TEMPERATURE (°F) 1999 KOROR ISLAND, PC (PTRO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	81.5	81.9	82.0	82.6	82.4	82.4	82.1	82.0	82.3	82.2	82.4	81.6	82.1
1971	81.3	81.3	82.1	82.9	82.3	81.1	80.7	81.5	82.1	80.9	82.0	82.0	81.7
1972	80.8	80.5	80.9	81.8	82.7	81.7	82.2	81.6	81.8	82.5	82.3	81.9	81.7
1973	81.2	81.6	81.9	82.3	82.7	82.7	81.9	82.5	82.2	81.9	82.2	82.3	82.1
1974	81.0	81.7	81.1	81.6	82.7	81.8	81.4	82.1	82.3	82.0	82.1	81.6	81.8
1975	80.8	81.4	81.7	82.0	82.2	81.2	80.8	81.6	81.6	81.8	82.3	81.0	81.5
1976	81.9	80.9	81.4	81.7	82.5	82.0	82.0	80.7	81.8	82.4	82.8	81.6	81.8
1977	81.5	81.2	81.8	82.5	83.0	82.5	81.1	81.2	82.2	82.7	83.0	82.5	82.1
1978	81.3	80.1	82.0	81.9	82.6	81.8	82.3	80.8	80.9	81.4	81.7	81.8	81.6
1979	81.4	81.3	81.3	81.3	82.4	81.0	81.1	81.6	82.1	82.0	82.2	81.5	81.6
1980	80.8	80.2	81.4	81.8	82.5	81.8	81.1	80.9	81.6	82.3	83.0	82.3	81.6
1981	81.1	80.4	81.2	82.0	82.6	80.9	81.2	81.7	81.6	81.2	82.5	82.1	81.5
1982	81.7	81.7	81.1	81.7	81.8	81.5	81.1	81.1	82.4	81.8	82.3	81.7	81.7
1983	80.5	81.2	81.7	82.2	83.0	81.9	81.1	82.0	82.0	82.0	82.4	82.0	81.8
1984	81.1	80.9	81.7	82.3	82.7	81.2	81.5	81.0	81.7	80.9	82.7	82.4	81.7
1985	80.9	81.3	82.1	81.6	82.4	80.5	80.0	80.7	80.5	81.8	82.5	82.4	81.4
1986	81.7	81.0	82.1	82.5	83.3	82.0	81.0	82.5	82.4	82.2	82.3	81.9	82.1
1987	81.3	80.7	81.6	82.4	82.2	82.3	81.6	81.1	83.4	82.7	83.3	83.1	82.1
1988	82.1	81.7	82.6	83.4	82.3	81.9	82.1	82.1	83.0	82.1	82.5	81.6	82.3
1989	82.0	82.4	82.3	82.8	82.4	81.7	81.6	81.9	82.5	82.0	82.6	82.3	82.2
1990	82.1	82.1	82.1	82.9	83.3	82.0	82.1	82.6	81.7	82.4	81.9	82.3	82.3
1991	81.0	80.5	81.2	82.5	82.7	82.4	81.0	82.1	81.2	81.9	82.5	81.1	81.7
1992	80.6	81.2	81.1	82.6	82.5	81.9	81.2	81.2	82.1	81.3	82.1	80.6	81.5
1993	80.6	80.1	81.2	81.5	82.9	81.6	81.8	81.1	81.2	82.2	82.7	82.4	81.6
1994	81.6	81.8	82.3	82.8	82.0	81.4	80.7	80.9	81.5	82.8	82.6	81.9	81.9
1995	81.5	81.5	81.8	82.7	82.6	82.4	82.0	82.0	81.6	81.4	82.5	81.9	82.0
1996	81.8	81.1	82.3	82.1	82.4	81.9	81.6	82.3	82.3	82.6	82.9	81.6	82.1
1997	81.3	80.5	81.2	82.5	83.3	82.3	81.7	82.1	82.1	82.8	83.4	82.4	82.1
1998	81.2	81.6	82.4	83.2	83.3	82.1	83.1	83.3	83.1	82.5	82.4	83.1	82.6
1999	82.0	82.8	82.4	82.5	82.5	81.6	81.1	81.0	81.7	82.8	82.8	82.5	82.1
POR= 48 YRS	81.0	81.0	81.4	82.1	82.3	81.7	81.2	81.4	81.8	81.9	82.2	81.6	81.6

HEATING DEGREE DAYS (base 65°F) 1999 KOROR ISLAND, PC (PTRO)

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 KOROR ISLAND, PC (PTRO)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	519	481	536	536	546	526	537	534	527	538	527	523	6330
1971	514	463	537	539	539	488	495	517	521	499	519	536	6167
1972	499	456	502	512	553	509	539	523	510	551	528	530	6212
1973	506	470	530	525	555	536	531	548	523	529	522	547	6322
1974	504	476	504	505	555	513	517	540	526	535	524	519	6218
1975	498	467	524	515	541	493	493	524	504	527	527	503	6116
1976	530	467	515	504	549	517	533	495	510	547	543	523	6233
1977	516	460	527	530	563	532	507	509	524	551	550	551	6320
1978	513	429	535	513	556	510	542	495	484	511	508	529	6125
1979	516	463	511	497	547	488	506	524	520	533	522	520	6147
1980	496	449	514	509	546	509	508	500	503	545	548	543	6170
1981	504	437	507	514	553	485	506	523	504	508	532	536	6109
1982	527	474	505	508	525	501	507	507	530	525	527	526	6162
1983	489	461	524	525	564	511	505	537	516	535	530	535	6232
1984	503	471	523	525	554	493	517	502	510	500	539	547	6184
1985	500	466	536	507	547	471	473	493	473	526	530	545	6067
1986	527	455	540	533	575	513	501	548	528	537	527	530	6314
1987	512	446	525	529	540	527	525	505	556	557	555	568	6345
1988	537	489	554	558	541	515	539	540	544	535	530	520	6402
1989	536	493	543	538	545	504	522	530	533	536	534	545	6359
1990	537	485	537	544	577	520	536	552	508	546	513	541	6396
1991	506	440	506	534	556	529	504	533	492	532	533	507	6172
1992	493	475	506	531	549	515	509	506	519	514	521	492	6130
1993	491	429	508	500	564	506	529	508	493	542	539	546	6155
1994	522	475	545	539	536	501	491	501	504	560	534	530	6238
1995	519	465	529	536	550	529	535	535	505	518	535	531	6287
1996	530	472	544	518	545	514	519	545	525	552	548	522	6334
1997	511	442	508	528	571	524	521	537	520	560	559	544	6325
1998	509	471	543	553	575	520	569	572	547	548	529	568	6504
1999	533	505	548	532	548	505	509	503	504	557	539	549	6332

SNOWFALL (inches) 1999 KOROR ISLAND, PC (PTRO)

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  
KOROR ISLAND,  
PACIFIC (PTRO)

Koror is one of the islands of the Palau Group, which lies in the extreme western Carolines and along the eastern side of the Philippine Sea. It is the administrative center of the Republic of Palau of the U.S. Trust Territory of the Pacific Islands. Like most of the other islands of the group, Koror is hilly and is surrounded by a lagoon whose outer border is a barrier reef. Koror is not an isolated island, but is immediately adjacent to the islands of Malakal and Arakabesan, to which it is joined by causeways. Babelthuap, the largest of the Palau Islands, lies 1 mile north-northeast and is connected to Koror by bridge. The highest hill within 3 miles of the Weather Station on Koror has an elevation of 610 feet.

Precipitation is heavy at Koror. Rainfall of 150 inches or more in a year is not uncommon. Rainfall is variable for each month and from year to year. Normal monthly precipitation exceeds 10 inches and during some years, each month has received at least 15 inches.

During the period December through March, the northeast trades prevail. Winds are generally light to moderate. Precipitation, heavy during December and January, decreases sharply when the Intertropical Convergence Zone moves well south of the island. February, March, and April are the driest months of the year. During April, the frequency of northeast winds decreases, and there is an increase in the frequency of east winds. In May the winds are predominantly from southeast, to northeast.

Usually during June the Intertropical Convergence Zone moves northward across Koror, bringing with it heavy rainfall and thunderstorms that may yield 1 inch of rain in 15 to 30 minutes. The convergence zone remains in the vicinity of Koror, though most commonly toward the north, from July through January, with heavy rainfall persisting. During November, Koror is usually near the heart of the zone. Calm to light variable winds and continued heavy showers are the rule.

