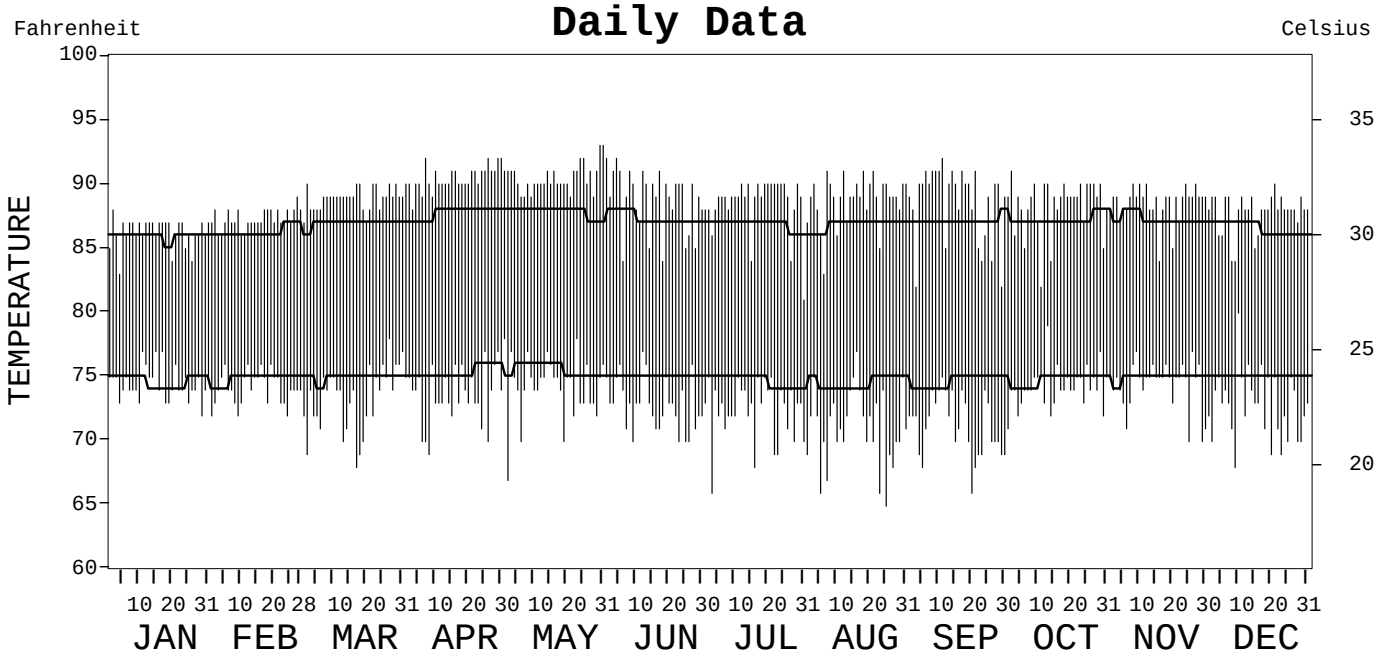
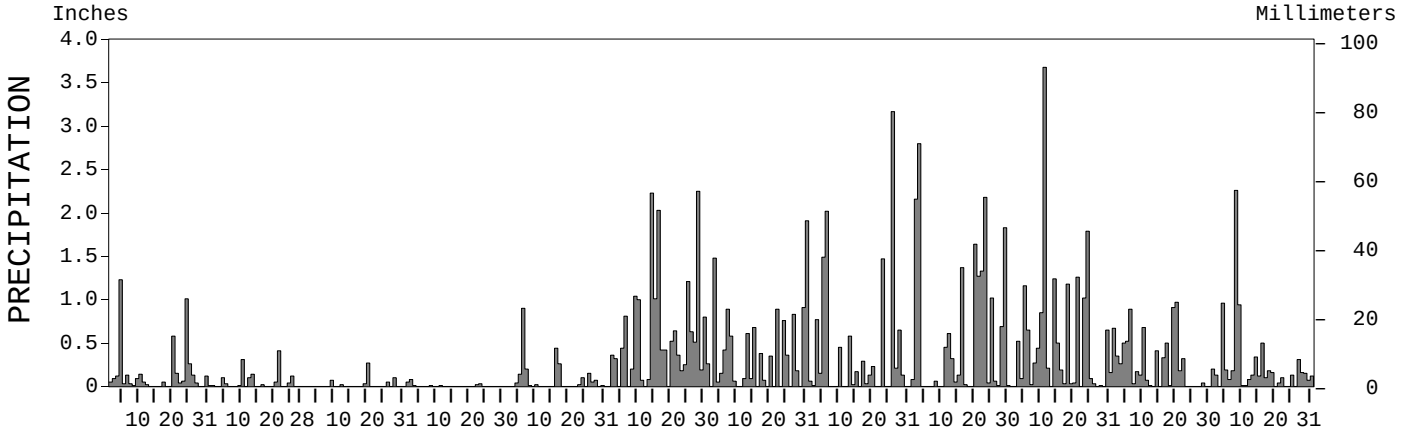
1998 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

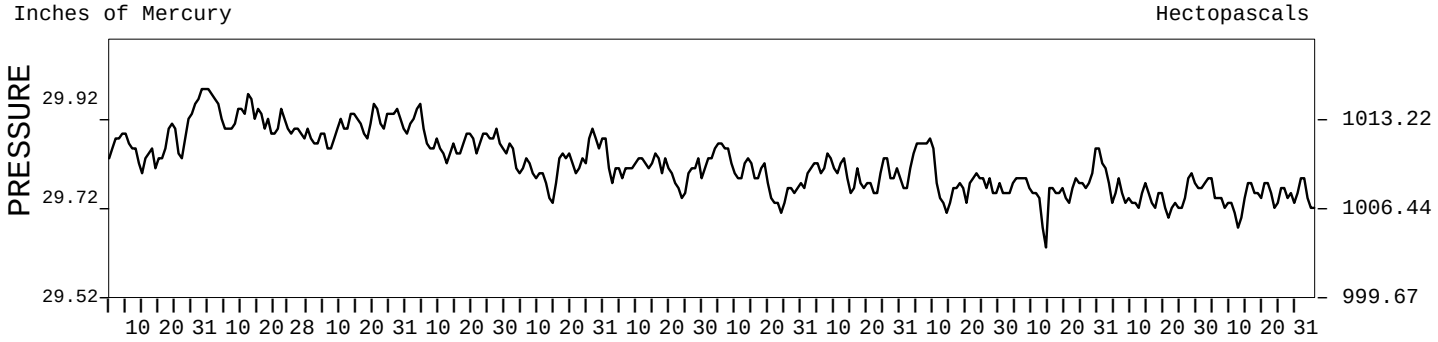
ISSN 0198-4446

YAP ISLAND,
PACIFIC (PTYA)

Daily Data







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NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE
NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA
DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1998

YAP, PC (PTYA)

LATITUDE: 9° 29′ 0 ″ N LONGITUDE: 138° 05′ 0 ″ E ELEVATION (FT): GRND: 44 BARO: 47 TIME ZONE: 150 E M (UTC– 10) WBAN: 40308

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	86.3	87.3	88.9	90.4	90.5	88.8	88.5	88.8	88.6	88.4	88.5	87.8	88.6
	HIGHEST DAILY MAXIMUM	88	89	90	92	93	92	90	91	92	91	90	90	93
	DATE OF OCCURRENCE	02	27	29+	30+	31+	04+	29+	21+	11	02	27+	21	MAY 31+
	MEAN DAILY MINIMUM	74.5	74.1	73.3	73.6	74.3	72.9	72.4	71.1	71.2	74.2	74.4	72.7	73.2
	LOWEST DAILY MINIMUM	72	72	68	69	67	70	66	65	66	71	70	68	65
	DATE OF OCCURRENCE	29	24+	17	08	02	26+	03	25	20	01	29+	09	AUG 25
	AVERAGE DRY BULB	80.4	80.7	81.1	82.0	82.4	80.9	80.5	80.0	79.9	81.3	81.5	80.3	80.9
	MEAN WET BULB	75.7	75.3	74.4	76.7	78.6	78.6	78.5	78.1	78.0	78.6	78.8	78.1	77.4
	MEAN DEW POINT	73.6	73.0	71.2	74.1	76.4	77.0	77.0	76.4	76.6	77.4	77.4	76.7	75.6
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	7	27	26	15	11	12	17	10	5	1	131
	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	484	447	506	520	546	479	487	471	454	514	503	481	5892
RH	MEAN (PERCENT)	80	78	73	76	79	85	85	85	85	87	86	85	82
	HOUR 04 LST	87	86	81	84	87	92	94	94	92	93	92	91	89
	HOUR 10 LST	74	71	63	67	71	80	78	78	77	78	78	77	74
	HOUR 16 LST	73	70	66	70	74	79	76	78	77	80	81	80	75
	HOUR 22 LST	83	84	81	82	83	90	91	91	89	91	90	89	87
S	PERCENT POSSIBLE SUNSHINE	63	70	79	84	82	54	40	33	75	69	75	75	67
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	0	0	0	3	4	2	5	3	1	18
CLOUDINESS	AVG. SKY COVER (OKTAS)													
	SUNRISE – SUNSET	6	5	4	5	6	7	6	7	7	7	7	7	6
	MIDNIGHT – MIDNIGHT	6	5	4	4	6	7	6	7	7	7	7	7	6
	NUMBER OF DAYS WITH:													
	CLEAR	3	1	6	0	0	0	0	0	0	0	0	0	10
	PARTLY CLOUDY	11	21	24	26	18	6	14	15	10	7	9	10	171
	CLOUDY	17	6	1	4	13	24	17	16	20	24	21	21	184
PR	MEAN STATION PRESS. (IN.)	29.84	29.88	29.86	29.84	29.79	29.78	29.77	29.77	29.76	29.74	29.73	29.72	29.79
	MEAN SEA-LEVEL PRESS. (IN.)	29.90	29.94	29.93	29.90	29.85	29.84	29.83	29.83	29.82	29.80	29.79	29.78	29.85
WINDS	RESULTANT SPEED (MPH)	4.8	4.0	2.1	2.4	3.2	1.8	2.0	1.1	1.5	3.0	2.4	2.8	1.5
	RES. DIR. (TENS OF DEGS.)	08	14	08	20	22	07	05	06	07	08	06	03	09
	MEAN SPEED (MPH)	10.7	9.5	9.7	11.2	10.3	8.4	7.3	5.2	6.2	6.5	8.1	9.7	8.6
	PREVAIL.DIR.(TENS OF DEGS.)	06	07	07	07	07	08	09	09	10	09	09	09	07
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	21	17	20	17	18	17	18	16	22	26	17	21	26
	DIR. (TENS OF DEGS.)	03	07	06	09	09	07	18	09	05	16	09	13	16
	DATE OF OCCURRENCE	01	20+	25	20+	14+	27+	24	23+	28	11	13	09+	OCT 11
	PEAK GUST :													
	SPEED (MPH)	29	29	29	31	30	31	32	29	32	41	41	37	41
	DIR. (TENS OF DEGS.)	NE	E	NE	NE	E	E	N	SE	E	SE	E	SE	E
	DATE OF OCCURRENCE	30+	01	24+	02	07	25	03	05	20	11	04	09	NOV 04
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	4.44	1.34	0.54	0.21	2.41	17.97	12.00	12.03	18.13	16.11	7.95	7.65	100.78
	GREATEST 24-HOUR (IN.)	1.29	0.41	0.27	0.08	0.91	3.08	2.29	3.28	4.64	3.71	1.38	2.30	4.64
	DATE OF OCCURRENCE	03-04	21	20	02	06-07	14-15	30-31	26-27	02-03	11-12	05-06	07-08	SEP 02-03
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	23	12	6	7	14	25	22	19	22	25	21	26	222
	PRECIPITATION ≥ 0.10	10	6	2	0	7	23	17	15	14	17	16	20	147
	PRECIPITATION ≥ 1.00	2	0	0	0	0	7	2	4	9	7	0	1	32
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

YAP, PC (PTYA)

LATITUDE: 9° 29′ 0 ″ N LONGITUDE: 138° 05′ 0 ″ E ELEVATION (FT): GRND: 44 BARO: 47 TIME ZONE: 150 E M (UTC– 10) WBAN: 40308

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	85.9	86.2	86.9	87.7	87.8	87.3	86.8	86.8	87.1	87.2	87.2	86.5	86.9
	MEAN DAILY MAXIMUM	47	85.8	86.1	86.8	87.8	88.0	87.5	87.1	87.0	87.3	87.4	87.4	86.5	87.1
	HIGHEST DAILY MAXIMUM	50	90	92	90	97	93	94	96	93	93	93	93	94	97
	YEAR OF OCCURRENCE		1997	1950	1998	1951	1998	1958	1950	1957	1956	1957	1956	1955	APR 1951
	MEAN OF EXTREME MAXS.	47	88.1	88.2	88.9	89.8	90.3	90.2	89.9	89.9	90.1	90.1	89.9	88.8	89.5
	NORMAL DAILY MINIMUM	30	74.6	74.8	74.9	75.3	75.5	75.0	74.6	74.5	74.6	74.7	74.9	75.0	74.9
	MEAN DAILY MINIMUM	47	74.5	74.6	74.8	75.5	75.6	75.1	74.7	74.5	74.5	74.6	74.9	74.9	74.9
	LOWEST DAILY MINIMUM	50	67	67	64	69	67	65	66	65	66	67	63	65	63
	YEAR OF OCCURRENCE		1993	1992	1993	1998	1998	1975	1998	1998	1998	1995	1996	1973	NOV 1996
	MEAN OF EXTREME MINS.	47	71.2	71.4	71.2	71.7	71.8	72.1	71.3	71.2	71.3	71.5	71.5	71.4	71.5
	NORMAL DRY BULB	30	80.3	80.5	80.9	81.5	81.6	81.2	80.7	80.7	80.9	81.0	81.1	80.8	80.9
	MEAN DRY BULB	47	80.2	80.4	80.8	81.6	81.8	81.3	80.9	80.8	80.9	81.0	81.1	80.8	81.0
	MEAN WET BULB	15	76.4	76.0	76.1	77.2	77.9	77.9	77.7	77.6	77.5	77.7	77.8	77.1	77.2
	MEAN DEW POINT	15	74.5	73.9	73.9	75.0	76.1	76.3	76.2	76.1	76.0	76.3	76.3	75.3	75.5
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	30	*	*	0.3	2.9	3.9	1.7	0.9	0.8	2.0	1.4	1.1	*	15.0
	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	474	434	493	495	515	486	487	487	477	496	483	490	5817
RH	NORMAL (PERCENT)	30	82	81	81	82	84	85	86	86	86	86	85	84	84
	HOUR 04 LST	30	87	86	87	88	90	91	92	92	91	92	90	88	90
	HOUR 10 LST	30	78	77	76	75	77	80	80	80	80	80	79	79	78
	HOUR 16 LST	30	76	74	73	72	76	78	78	78	78	78	78	77	76
	HOUR 22 LST	30	85	85	84	85	87	89	90	89	89	90	89	87	87
S	PERCENT POSSIBLE SUNSHINE	39	59	62	68	68	64	51	46	46	50	47	52	52	55
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	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
	THUNDERSTORMS	50	0.5	0.3	0.3	0.8	1.2	1.8	2.1	2.0	2.8	2.5	2.0	1.6	17.9
CLOUDINESS	MEAN:														
	SUNRISE–SUNSET (OKTAS)	50	6.8	6.8	6.6	6.6	6.6	7.1	7.1	7.4	7.3	7.0	6.9	6.9	6.9
	MIDNIGHT–MIDNIGHT (OKTAS)	11	6.3	6.1	5.8	5.6	6.0	6.5	6.6	7.4	7.4	6.8	6.9	6.8	6.5
	MEAN NO. DAYS WITH:														
	CLEAR	49	0.8	0.5	0.7	0.9	0.8	0.3	0.5	0.2	0.3	0.5	0.5	0.6	6.6
	PARTLY CLOUDY	49	7.7	7.6	8.6	9.9	10.4	5.6	4.0	3.2	5.1	6.5	7.9	8.1	84.6
	CLOUDY	49	22.5	20.1	21.6	19.2	19.8	24.2	25.9	27.2	24.0	23.6	21.3	21.7	271.1
PR	MEAN STATION PRESSURE(IN)	19	29.77	29.79	29.79	29.77	29.75	29.75	29.74	29.74	29.74	29.73	29.72	29.74	29.75
	MEAN SEA–LEVEL PRES. (IN)	15	29.82	29.83	29.85	29.82	29.81	29.81	29.80	29.80	29.80	29.80	29.80	29.79	29.81
WINDS	MEAN SPEED (MPH)	14	9.5	10.5	10.0	8.3	7.6	6.7	6.2	6.9	6.6	6.1	7.4	8.8	7.9
	PREVAIL.DIR(TENS OF DEGS)	11	06	06	06	07	09	09	09	23	23	09	09	06	06
	MAXIMUM 2–MINUTE:														
	SPEED (MPH)	9	23	23	21	23	20	23	28	25	23	26	36	41	41
	DIR. (TENS OF DEGS)		05	04	07	13	08	23	28	22	09	16	09	26	26
	YEAR OF OCCURRENCE		1994	1997	1995	1994	1993	1993	1997	1993	1995	1998	1990	1996	DEC 1996
	PEAK GUST :														
	SPEED (MPH)	15	39	40	45	44	35	63	40	45	46	43	60	54	63
	DIR. (TENS OF DEGS)		NE	N	NE	NE	E	E	SW	W	W	SW	E	W	E
	YEAR OF OCCURRENCE		1989	1997	1991	1989	1997	1990	1986	1993	1994	1985	1990	1993	JUN 1990
PRECIPITATION	NORMAL (IN)	30	7.33	5.98	5.96	5.76	9.06	12.69	14.54	15.20	13.51	11.97	9.07	8.99	120.06
	MAXIMUM MONTHLY (IN)	50	23.08	13.36	16.46	18.15	18.23	32.01	34.71	29.44	21.16	22.43	20.66	26.89	34.71
	YEAR OF OCCURRENCE		1955	1962	1950	1956	1964	1982	1969	1953	1996	1992	1960	1996	JUL 1969
	MINIMUM MONTHLY (IN)	50	1.25	0.27	0.54	0.21	1.47	3.40	4.99	5.13	5.32	2.59	1.96	2.22	0.21
	YEAR OF OCCURRENCE		1983	1983	1998	1998	1993	1951	1949	1973	1987	1976	1957	1990	APR 1998
	MAXIMUM IN 24 HOURS (IN)	50	10.45	5.94	5.09	6.57	10.06	18.75	7.44	7.81	8.35	6.72	8.91	7.52	18.75
	YEAR OF OCCURRENCE		1958	1962	1963	1962	1967	1982	1969	1987	1978	1988	1960	1996	JUN 1982
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	20.6	18.0	18.2	17.1	21.0	24.1	24.4	23.4	22.4	23.6	22.6	22.0	257.4
	PRECIPITATION ≥ 1.00	30	1.8	1.7	1.7	1.3	2.2	3.8	4.2	5.1	4.1	3.7	2.5	2.3	34.4
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)	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 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)	46	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) 1998 YAP ISLAND, PC (PTYA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	4.10	1.24	2.08	3.03	7.69	8.78	34.71	11.58	17.03	11.48	9.76	8.32	119.80
1970	4.64	6.17	4.67	3.04	9.76	8.76	8.80	25.45	11.04	12.31	9.56	8.15	112.35
1971	10.42	10.11	13.48	12.25	12.84	13.94	14.12	12.15	13.87	15.15	10.26	9.71	148.30
1972	6.03	10.42	14.21	8.97	5.33	10.18	9.20	11.09	17.60	5.64	9.35	5.14	113.16
1973	2.14	1.00	1.54	5.62	5.98	12.35	10.11	5.13	17.64	14.92	10.57	7.03	94.03
1974	11.84	4.27	9.99	10.07	9.77	14.30	14.40	12.33	9.48	19.11	18.85	13.30	147.71
1975	19.48	1.20	3.12	10.73	9.09	10.67	8.38	11.90	11.25	12.67	6.79	10.93	116.21
1976	7.36	3.19	8.76	6.77	12.52	13.30	11.43	16.29	13.44	2.59	8.88	9.97	114.50
1977	3.94	2.18	2.42	0.91	10.36	7.49	17.21	13.99	18.73	5.76	9.47	11.64	104.10
1978	4.22	5.25	2.04	5.38	4.87	12.89	8.67	18.52	19.17	18.10	11.09	8.98	119.18
1979	3.88	3.16	7.06	3.98	8.82	21.07	14.44	19.57	9.59	12.18	7.34	13.40	124.49
1980	2.32	4.60	6.42	7.72	10.57	13.52	17.84	9.52	12.71	13.41	7.20	14.52	120.35
1981	12.90	8.00	2.89	1.10	5.05	10.77	18.54	13.61	19.03	14.22	10.12	11.01	127.24
1982	7.30	12.58	7.50	2.62	10.49	32.01	13.04	14.26	13.93	9.34	4.95	7.01	135.03
1983	1.25	0.27	2.76	1.36	3.59	6.98	16.14	16.59	12.59	8.37	13.56	5.38	88.84
1984	5.33	9.59	3.90	2.21	1.77	12.38	9.59	15.33	6.41	17.29	12.03	5.44	101.27
1985	14.46	3.27	6.70	8.83	6.81	18.65	11.52	15.49	17.34	10.31	5.79	14.32	133.49
1986	7.53	10.61	10.90	6.94	9.59	13.08	15.36	11.25	12.31	7.62	14.07	5.88	125.14
1987	5.96	4.91	1.96	4.80	3.96	11.04	15.10	27.87	5.32	6.70	6.47	2.74	96.83
1988	3.68	3.63	2.80	3.93	7.25	10.49	13.79	5.35	14.60	22.12	9.02	8.94	105.60
1989	10.09	12.25	7.16	4.66	10.66	13.56	13.55	17.75	11.72	13.45	7.14	8.70	130.69
1990	6.21	2.33	3.18	5.83	12.52	22.96	12.29	22.76	14.56	7.56	9.44	2.22	121.86
1991	8.46	2.09	2.46	3.65	4.92	13.42	17.21	13.49	15.45	17.33	6.78	3.73	108.99
1992	4.20	1.50	2.97	1.31	1.48	7.59	12.98	16.21	10.32	22.43	2.77	6.22	89.98
1993	6.34	6.68	11.53	5.83	1.47	11.53	15.69	14.30	12.08	10.27	9.43	13.64	118.79
1994	8.11	3.80	3.10	11.19	10.25	14.59	14.89	11.49	15.46	3.36	2.80	9.71	108.75
1995	7.88	9.79	3.23	1.78	10.08	6.19	6.55	12.53	13.06	17.23	9.09	16.00	113.41
1996	19.65	12.86	5.56	6.79	14.78	7.43	19.65	7.74	21.16	13.29	8.43	26.89	164.23
1997	13.44	9.83	4.58	2.69	2.42	15.89	15.13	13.25	10.85	10.46	6.24	5.93	110.71
1998	4.44	1.34	0.54	0.21	2.41	17.97	12.00	12.03	18.13	16.11	7.95	7.65	100.78
POR= 50 YRS	8.00	5.73	5.66	5.64	8.61	12.25	13.81	14.29	13.42	12.55	9.19	9.64	118.79

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AVERAGE TEMPERATURE (°F) 1998 YAP ISLAND, PC (PTYA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	80.1	79.8	80.5	81.6	81.4	81.9	80.5	80.4	80.1	80.9	80.7	80.8	80.7
1970	80.8	81.0	81.5	82.1	81.7	81.8	81.7	80.6	80.9	81.1	81.4	81.2	81.3
1971	80.3	80.7	81.5	81.1	81.0	80.5	79.9	80.2	80.8	80.0	80.6	80.9	80.6
1972	80.2	80.3	80.4	81.1	81.0	81.4	82.9	81.0	81.0	81.3	81.0	80.8	81.0
1973	79.7	81.1	81.7	82.6	82.2	81.7	80.9	81.0	80.6	80.0	81.2	80.5	81.1
1974	79.3	81.0	80.7	81.2	80.8	80.3	80.7	81.2	80.6	80.5	80.7	80.6	80.6
1975	80.1	80.8	80.8	80.8	80.7	79.9	80.2	79.6	79.7	80.6	80.7	79.9	80.3
1976	79.2	79.9	79.9	79.8	81.0	80.0	79.5	79.5	79.5	81.2	80.6	80.1	80.0
1977	80.0	80.5	81.4	82.3	81.2	81.1	80.1	80.7	80.3	81.3	81.2	80.8	80.9
1978	80.2	79.7	81.2	81.6	82.2	81.3	81.4	80.4	80.2	79.8	81.0	81.1	80.8
1979	80.5	80.2	80.8	81.7	81.5	81.4	80.1	80.2	81.4	81.0	81.3	80.4	80.9
1980	80.7	80.2	81.0	81.7	81.7	80.9	80.6	81.4	80.3	80.9	80.8	80.5	80.9
1981	79.7	80.0	80.6	81.9	82.5	80.6	80.0	80.6	81.5	81.2	81.5	81.7	81.0
1982	80.9	80.6	80.9	82.1	81.3	80.5	80.5	80.3	80.1	80.4	81.1	80.3	80.8
1983	79.3	80.0	80.4	81.0	82.2	81.8	80.8	81.0	81.1	81.8	81.3	81.5	81.0
1984	80.7	80.5	81.3	82.6	83.8	81.8	81.3	80.6	81.4	80.6	81.1	81.8	81.5
1985	80.6	81.4	81.5	81.7	82.1	81.2	80.6	80.5	81.0	81.1	81.7	81.0	81.2
1986	81.3	80.8	80.9	81.2	81.7	81.4	81.3	82.9	81.2	81.7	81.2	81.1	81.4
1987	80.4	80.3	81.0	82.2	82.4	81.9	81.5	80.5	82.4	82.0	81.9	81.8	81.5
1988	81.3	81.0	82.3	82.5	82.4	81.4	81.3	81.2	81.7	81.1	81.1	80.6	81.5
1989	80.9	80.7	80.8	81.6	81.2	80.7	80.6	80.9	80.8	80.5	81.0	80.7	80.9
1990	80.1	80.2	80.3	81.2	81.0	80.2	80.2	80.1	79.9	80.5	79.4	80.1	80.3
1991	79.4	79.5	79.2	81.2	81.4	80.4	79.9	80.1	79.5	79.4	79.9	79.6	80.0
1992	78.7	78.9	80.0	81.2	82.6	82.3	81.0	81.0	80.7	80.4	80.5	79.8	80.6
1993	78.6	78.9	78.9	80.4	82.1	81.2	80.9	79.7	79.3	80.4	80.2	79.8	80.0
1994	79.2	79.4	80.8	81.4	81.8	81.0	80.5	80.5	80.2	81.1	81.0	80.1	80.6
1995	80.2	79.6	80.7	81.5	81.4	81.0	80.8	80.5	80.4	80.0	80.5	80.5	80.6
1996	80.1	79.9	81.1	81.2	80.9	81.2	80.7	80.8	81.1	81.3	80.5	79.1	80.7
1997	79.4	79.4	79.9	81.2	82.2	80.8	80.8	80.8	81.3	81.5	81.3	81.3	80.8
1998	80.4	80.7	81.1	82.0	82.4	80.9	80.5	80.0	79.9	81.3	81.5	80.3	80.9
POR= 50 YRS	80.2	80.4	80.9	81.6	81.8	81.3	80.9	80.8	80.9	81.0	81.2	80.8	81.0

HEATING DEGREE DAYS (base 65°F) 1998 YAP ISLAND, PC (PTYA)

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-	0	0	0	0	0	0							

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COOLING DEGREE DAYS (base 65°F) 1998 YAP ISLAND, PC (PTYA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	476	422	487	502	517	510	491	480	460	500	480	498	5823
1970	496	454	521	519	526	512	528	492	485	507	499	510	6049
1971	480	443	520	490	504	469	468	478	481	470	474	498	5775
1972	478	449	483	491	503	503	561	505	490	509	488	496	5956
1973	461	457	525	535	538	509	500	502	476	472	495	487	5957
1974	452	455	497	493	501	466	494	511	474	489	477	490	5799
1975	474	451	498	482	491	451	479	459	448	489	477	469	5668
1976	449	437	469	450	502	454	453	455	439	508	474	472	5562
1977	474	440	516	528	508	490	478	493	466	512	493	496	5894
1978	476	417	508	508	538	498	513	486	462	467	488	507	5868
1979	490	434	499	510	518	500	475	477	501	505	493	485	5887
1980	496	449	503	510	522	483	489	513	467	498	480	486	5896
1981	458	428	490	514	548	475	472	491	500	509	501	525	5911
1982	500	442	502	520	511	471	489	479	463	484	490	480	5831
1983	451	426	485	484	540	510	496	506	490	530	495	519	5932
1984	495	454	514	534	591	508	511	490	500	489	491	529	6106
1985	486	465	518	506	536	494	488	485	491	506	510	504	5989
1986	516	448	498	493	525	499	512	563	492	523	492	505	6066
1987	486	437	500	521	549	513	517	491	531	533	513	528	6119
1988	513	470	544	529	546	499	516	508	510	506	488	490	6119
1989	502	447	496	504	509	478	491	499	480	486	485	496	5873
1990	473	431	481	492	502	464	479	474	454	489	438	475	5652
1991	453	413	445	493	515	473	470	476	443	454	453	463	5551
1992	433	410	474	493	552	523	502	505	476	484	470	465	5787
1993	432	397	441	469	537	491	500	461	436	482	463	468	5577
1994	448	408	494	499	528	485	486	485	463	504	487	477	5764
1995	477	415	492	502	515	487	494	489	469	470	474	488	5772
1996	472	441	506	491	498	493	496	496	492	513	471	446	5815
1997	452	410	469	494	540	481	498	498	496	517	494	514	5863
1998	484	447	506	520	546	479	487	471	454	514	503	481	5892

SNOWFALL (inches) 1998 YAP ISLAND, PC (PTYA)

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–	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:

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).

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).

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.

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.

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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.

1998
YAP ISLAND, PACIFIC (PTYA)

The Yap group consists of four large islands and ten small islands surrounded by a coral reef. These islands were formed by land upheaval and are not, therefore, of volcanic or of coral origin. The soil is clay–like and contains considerable rock. The islands are mostly low, rolling grass–covered hills.

The lowlands, which occupy the southwesterly end of Yap, are covered with dense jungle growth and are marsh–like, except during the dry spells that occur from time to time, particularly during the early months of the year. The terrain around the station is level for about l/2 mile. A ridge about 3 l/4 miles to the northwest rises 224 feet above sea level and slopes northeastward toward the highest hill on the island, elevation 585 feet. Other small hills lie approximately 3 miles northeast and 3 miles southwest of the station. Lush vegetation, interspersed with sparse pandanas and a few coconut trees, is visible in all directions. The ocean itself cannot be seen from the station, although it lies only about 3/4 of a mile away to the east and south and about l mile to the west.

During northern summer, the Intertropical Convergence Zone lies near Yap, particularly as it moves northward in July and southward again in October. At such times showers and light variable winds predominate, interspersed with heavier showers or thunderstorms, occasionally accompanied by strong, shifting winds. Thunderstorms are relatively infrequent, averaging two per month from August through December and fifteen for the year as a whole.

Tropical cyclones affect the area much less often than they do the Pacific further to the northwest. June to December are the months of greatest frequency. Fully–developed typhoons are uncommon near Yap. Most of them pass to the north and then move westward to northwestward away from the island.

Yap is under the influence of the northeast trade winds for eight months of the year, November through June. From July through October the prevailing wind is southwesterly, with frequent periods of calm and light variable winds. This is also the wettest season with monthly rainfall exceeding l3 inches. The nearest approach to a dry season is February through April, when the monthly rainfall is less than 7 inches.

Temperature varies much less seasonally than between day and night. Thus, the warmest and coolest months differ by less than 2 degrees in average temperature, as compared with a difference of nearly l2 degrees between the warmest and coolest times of day.

Humidity is higher and clear skies more frequent during the night and early morning than during the day. Cloudless days are rare. A common daily sequence from May through December is to have the late morning fair weather clouds build up in late afternoon into towering cumulus that give rise to evening and early morning showers. Visibility in such showers is seldom less than 5 miles.

Despite their relatively small size and low relief, the islands nevertheless appear to be large and high enough to cause local differences in temperature, wind, humidity, and, perhaps, rainfall.

STATION LOCATION

YAP ISLAND, PACIFIC

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE EAST	ELEVATION ABOVE SEA LEVEL GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND WIND INSTRUMENTS	ELEVATION ABOVE GROUND EXTREME THERMOMETERS	ELEVATION ABOVE GROUND PSYCHROMETER	ELEVATION ABOVE GROUND SUNSHINE SWITCH	ELEVATION ABOVE GROUND RAIN GAGE TIPPING BUCKET	ELEVATION ABOVE GROUND WEIGHING RAIN GAGE	ELEVATION ABOVE GROUND 8 INCH RAIN GAGE	ELEVATION ABOVE GROUND HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	* Type M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
Yap Island	2/12/94	World War I		9°29'	138°08'	104										German Colony - principal station at Meeth on Balakat Peninsula, Yap Island, subsidiary stations on Rumung and Tomil Islands.
Yap Island	?/?/14	9/?/37		9°29'	138°08'											Japanese occupation.
Yap Island	9/?/37	12/?/39		9°30'	138°07'	114										
Yap Island	1/?/40	12/?/45		9°30'	138°07'	114		4	4							
Yap Island	?	6/13/51		9°31'	138°08'	53	38	5	5				$9			$ - 4" rain gage. Navy operation.
Yap Island	6/13/51	12/31/53		9°31'	138°08	53	26	5	5				$8			U.S. Weather Bureau operation.
Yap Island	12/31/53	11/05/56		9°31'	138°08'	53	20	5	5				3			
Yap Island	11/05/56	11/17/58		9°31'	138°08'	53	24	5	5				3			Wind equipment replaced.
Weather Bureau Building	11/17/58	3/01/60		9°31'	138°08'	55	20	5	5				3			New office erected same site. Wind equipment move made 3/26/58.
Weather Bureau Building	3/01/60	3/01/68		9°31'	138°08	a62	30	5	5		3		3			Tipping bucket rain gage installed. Wind equipment raised from 20 feet, 9/1/61. a - 55 feet to 11/14/62.
Weather Bureau Building and Facility Yap Airfield	3/01/68	Present	4 mi. SW	9°29'	138°05'	44	20	5	5	5	3	NA	3	NA	NA	

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

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