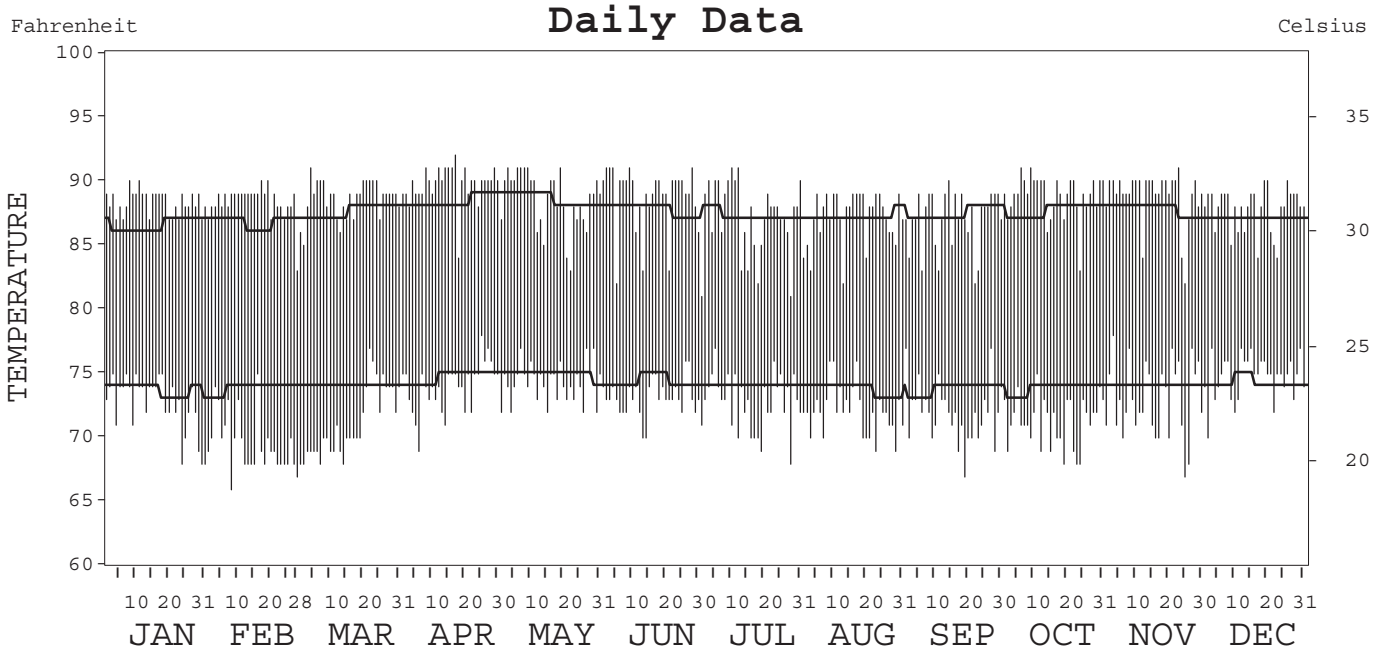
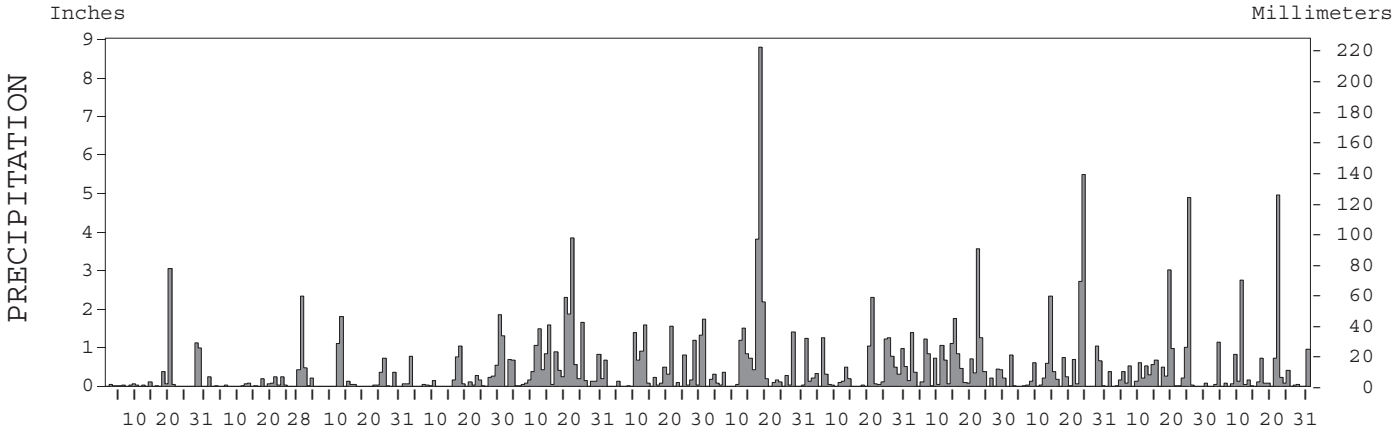
2003 LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

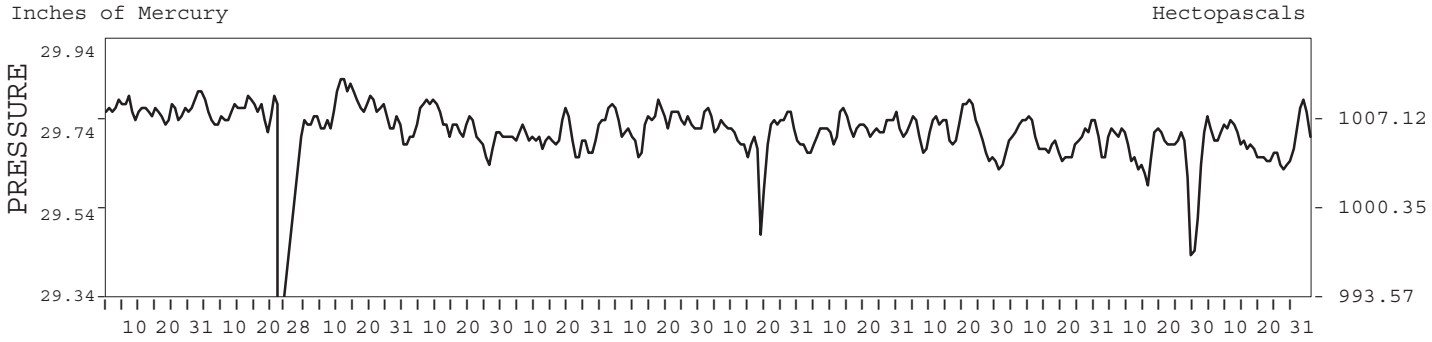
ISSN 0198-4438

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 2003

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	88.4	88.4	88.6	89.7	88.6	88.8	87.2	87.2	87.0	88.8	88.8	87.8	88.3
	HIGHEST DAILY MAXIMUM	90	90	91	92	91	91	91	89	90	91	91	90	92
	DATE OF OCCURRENCE	11+	19+	04	17	19+	28+	12+	30+	14	09+	23	26+	APR 17
	MEAN DAILY MINIMUM	72.6	69.6	71.1	74.0	74.3	73.2	72.8	72.1	72.0	71.3	73.0	74.7	72.6
	LOWEST DAILY MINIMUM	68	66	68	69	72	70	68	69	67	68	67	70	66
	DATE OF OCCURRENCE	31+	08	14+	06	30+	14+	28	29+	19	24+	25	02	FEB 08
	AVERAGE DRY BULB	80.5	79.0	79.9	81.9	81.5	81.0	80.0	79.7	79.5	80.1	80.9	81.3	80.4
	MEAN WET BULB	76.6		76.9	78.0	78.9	78.3	77.9	77.6	77.7	78.1	78.3	77.8	
	MEAN DEW POINT	74.4		75.1	76.2	77.7	77.0	76.7	75.9	76.0	76.3	76.6	76.2	
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	2	2	9	20	14	16	8	0	1	13	15	3	103
	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	487	397	469	512	518	486	471	461	440	474	488	512	5715
RH	MEAN (PERCENT)	81	80	83	82	87	86	87	83	83	81	83	84	83
	HOUR 04 LST	88	88	91	92	93	95	94	90	86	88	88	89	90
	HOUR 10 LST	70	69	74	73	82	78	80	77	79	75	76	77	76
	HOUR 16 LST	74	71	75	72	80	79	80	77	78	75	78	80	77
	HOUR 22 LST	88	86	89	89	92	93	90	86	85	85	85	88	88
S	PERCENT POSSIBLE SUNSHINE	71	76	86	91	67	48	46	27	17	43	32	4	51
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	9	5	1	3	3	5	9	0	36
CLOUDINESS	AVG. SKY COVER (OKTAS)													
	SUNRISE - SUNSET	6	6	6	6	7	7	7	7	8	7	7	7	7
	MIDNIGHT - MIDNIGHT	6	7		7	7	7	7	7	8	7	7	7	
	NUMBER OF DAYS WITH:													
	CLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0
	PARTLY CLOUDY	14	12	18	15	6	11	7	6	1	11	6	11	118
	CLOUDY	17	16	13	15	25	19	24	25	29	20	24	20	247
PR	MEAN STATION PRESS. (IN.)	29.80		29.79	29.75	29.73	29.76	29.73	29.75	29.74	29.72	29.68	29.72	
	MEAN SEA-LEVEL PRESS. (IN.)	29.86		29.85	29.81	29.79	29.83	29.79	29.81	29.80	29.78	29.75	29.78	
WINDS	RESULTANT SPEED (MPH)	3.0		2.5	1.3	2.7	1.8	1.7	2.2	2.7	4.2	1.8	1.3	
	RES. DIR. (TENS OF DEGS.)	11		09	15	29	09	21	23	25	23	25	08	
	MEAN SPEED (MPH)	8.1	8.2	6.8	7.1	6.0	5.2	7.6	8.5	9.2	8.4	8.0	6.5	7.5
	PREVAIL.DIR.(TENS OF DEGS.)	07	07	06	08	08	09	09	25	24	24	05	05	07
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	16	22	16	14	17	14	35	28	28	23	35	24	35
	DIR. (TENS OF DEGS.)	05	06	06	08	11	25	22	08	23	02	02	05	02
	DATE OF OCCURRENCE	16	13	01	26+	17	13	18	20	27	18	25	09	NOV 25
	PEAK GUST :													
	SPEED (MPH)	31	29	28	25	33	33	62	41	37	48	58	40	62
	DIR. (TENS OF DEGS.)	NE	E	E	NE	E	SE	SW	E	SW	W	W	NE	SW
	DATE OF OCCURRENCE	06	15	01	25+	12	21	18	20	08	18	25	21	JUL 18
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	5.98	1.69	7.63	6.54	22.14	11.70	24.42	13.51	18.40	16.91	15.41	13.60	157.93
	GREATEST 24-HOUR (IN.)	3.04	0.43	2.34	1.85	3.84	1.77	11.79	3.16	3.56	7.15	5.03	5.49	11.79
	DATE OF OCCURRENCE	20	28	01	30	22	20-21	17-18	20-21	22	23-24	24-25	21-22	JUL 17-18
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	17	15	15	20	29	21	23	25	27	22	24	22	260
	PRECIPITATION ≥ 0.10	5	5	9	12	24	14	17	19	22	15	18	12	172
	PRECIPITATION ≥ 1.00	2	0	3	2	8	5	7	6	7	4	3	3	50
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	86.5	86.7	87.5	88.3	88.5	87.7	87.2	87.1	87.4	87.6	87.7	87.0	87.4
	MEAN DAILY MAXIMUM	52	85.9	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	55	90	92	91	97	93	94	96	93	93	93	93	94	97
	YEAR OF OCCURRENCE		2003	1950	2003	1951	1998	1958	1950	1957	1956	1957	1956	1955	APR 1951
	MEAN OF EXTREME MAXS.	52	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	73.7	73.8	74.0	74.6	74.9	74.3	74.0	73.7	73.7	73.8	74.0	74.2	74.1
	MEAN DAILY MINIMUM	52	74.4	74.4	74.5	75.3	75.4	74.8	74.3	74.2	74.2	74.3	74.7	74.8	74.6
	LOWEST DAILY MINIMUM	55	67	66	64	66	67	65	66	65	66	66	63	65	63
	YEAR OF OCCURRENCE		1999	2003	1993	2002	2002	1975	2001	1998	2000	2000	1999	1973	NOV 1999
	MEAN OF EXTREME MINS.	52	70.9	71.1	70.9	71.5	71.4	71.7	70.9	70.8	70.9	71.2	71.1	71.3	71.1
	NORMAL DRY BULB	30	80.1	80.3	80.8	81.5	81.7	81.0	80.6	80.4	80.6	80.7	80.9	80.6	80.8
	MEAN DRY BULB	52	80.2	80.4	80.8	81.6	81.8	81.3	80.9	80.8	80.8	81.0	81.1	80.8	81.0
	MEAN WET BULB	20	76.6	76.3	76.5	77.5	77.9	77.9	77.8	77.7	77.5	77.8	77.9	77.3	77.4
	MEAN DEW POINT	20	74.7	74.3	74.4	75.3	76.4	76.3	76.2	76.1	76.0	76.3	76.5	75.5	75.7
	NORMAL NO. DAYS WITH:														
	MAXIMUM ≥ 90°	30	0.1	0.4	0.8	4.8	8.1	3.8	1.9	2.4	2.9	3.1	2.7	0.4	31.4
	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	467	428	488	493	518	479	484	478	466	486	476	484	5747
RH	NORMAL (PERCENT)														
	HOUR 04 LST														
	HOUR 10 LST	30	76	74	73	73	74	78	78	78	77	77	76	76	76
	HOUR 16 LST	30	76	75	74	74	76	79	79	79	78	79	79	78	77
	HOUR 22 LST	30	86	86	85	86	88	90	91	90	90	92	90	88	88
S	PERCENT POSSIBLE SUNSHINE	44	59	61	68	68	65	52	47	45	49	47	51	49	55
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	55	0.0	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	55	0.5	0.3	0.3	0.8	1.4	1.9	2.1	2.0	2.8	2.5	2.2	1.6	18.4
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	55	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)	15	6.4	6.3	6.1	5.8	6.3	6.5	6.8	7.4	7.3	6.7	6.9	6.7	6.6
	MEAN NO. DAYS WITH:														
	CLEAR	54	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	54	8.3	7.6	9.1	10.3	10.4	6.0	4.3	3.3	5.4	7.0	8.2	8.2	88.1
	CLOUDY	54	21.9	20.1	21.2	18.8	19.9	23.8	25.7	27.2	23.7	23.1	21.3	21.7	268.4
PR	MEAN STATION PRESSURE(IN)	24	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)	20	29.82	29.83	29.84	29.82	29.81	29.81	29.80	29.80	29.80	29.80	29.80	29.79	29.81
WINDS	MEAN SPEED (MPH)	19	9.3	9.8	9.6	8.2	7.4	6.6	6.4	7.2	6.6	6.1	7.2	8.5	7.7
	PREVAIL.DIR(TENS OF DEGS)	16	07	06	07	09	09	09	24	23	24	09	09	06	09
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	14	23	23	39	23	20	23	35	28	28	26	36	41	41
	DIR. (TENS OF DEGS)		05	04	12	13	24	23	22	08	23	16	09	26	26
	YEAR OF OCCURRENCE		1994	1997	2002	1994	2000	1993	2003	2003	2003	1998	1990	1996	DEC 1996
	PEAK GUST :														
	SPEED (MPH)	20	45	40	76	44	35	63	62	45	46	48	84	54	84
	DIR. (TENS OF DEGS)		E	N	SE	NE	E	E	SW	W	W	W	NE	W	NE
	YEAR OF OCCURRENCE		1999	1997	2002	1989	1997	1990	2003	1993	1994	2003	2002	1993	NOV 2002
PRECIPITATION	NORMAL (IN)	30	7.24	5.45	6.14	5.58	8.15	13.46	13.25	14.41	13.53	12.25	8.82	9.34	117.62
	MAXIMUM MONTHLY (IN)	55	23.08	13.36	16.46	18.15	22.14	32.01	34.71	29.44	21.16	22.43	20.66	26.89	34.71
	YEAR OF OCCURRENCE		1955	1962	1950	1956	2003	1982	1969	1953	1996	1992	1960	1996	JUL 1969
	MINIMUM MONTHLY (IN)	55	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)	55	10.45	5.94	5.09	6.57	10.06	18.75	11.79	7.81	8.35	7.15	8.91	7.52	18.75
	YEAR OF OCCURRENCE		1958	1962	1963	1962	1967	1982	2003	1987	1978	2003	1960	1996	JUN 1982
	NORMAL NO. DAYS WITH:														
	PRECIPITATION ≥ 0.01	30	20.7	18.4	17.9	17.3	20.3	24.6	24.0	22.6	21.2	23.6	22.2	22.0	254.8
	PRECIPITATION ≥ 1.00	30	2.1	1.5	1.6	1.3	2.1	4.1	4.0	4.6	4.5	3.8	2.3	2.6	34.5
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)	55	0.0	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)	55	0.0	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)	51	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) 2003 YAP ISLAND, PC (PTYA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	5.99	5.47	9.13	14.96	15.32	15.99	12.96	19.74	8.78	4.95	12.95	12.47	138.71
2000	4.49	4.64	9.77	7.39	22.01	10.10	20.43	15.40	9.14	18.01	9.98	12.29	143.65
2001	5.02	6.84	5.98	2.30	11.01	15.13	18.83	21.06	7.45	7.33	7.56	11.99	120.50
2002	4.77	6.73	5.92	5.42	4.30	24.10	19.58	25.92	17.58	13.81	6.51	5.42	140.06
2003	5.98	1.69	7.63	6.54	22.14	11.70	24.42	13.51	18.40	16.91	15.41	13.60	157.93
POR= 55 YRS	7.77	5.68	5.87	5.82	9.20	12.55	14.32	14.75	13.34	12.54	9.32	9.80	120.96

WBAN : 40308

AVERAGE TEMPERATURE (°F) 2003 YAP ISLAND, PC (PTYA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	80.0	80.0	79.8	80.2	80.8	79.0	79.8	78.6	78.3	79.2	80.7	81.1	79.8
2000	80.4	80.8	80.5	81.0	81.2	80.5	79.6	79.7	80.4	79.9	80.6	80.5	80.4
2001	80.4	80.1	80.5	82.2	81.8	80.9	79.6	80.6	81.0	81.4	80.3	80.0	80.7
2002	80.1	80.5	80.4	79.8	80.4	80.0	80.0	78.6	79.2	80.6	80.7	80.5	80.1
2003	80.5	79.0	79.9	81.9	81.5	81.0	80.0	79.7	79.5	80.1	80.9	81.3	80.4
POR= 55 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) 2003 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
1998-99	0	0	0	0	0	0	0	0	0	0	0	0	0
1999-00	0	0	0	0	0	0	0	0	0	0	0	0	0
2000-01	0	0	0	0	0	0	0	0	0	0	0	0	0
2001-02	0	0	0	0	0	0	0	0	0	0	0	0	0
2002-03	0	0	0	0	0	0	0	0	0	0	0	0	0
2003-	0	0	0	0	0	0							

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COOLING DEGREE DAYS (base 65°F) 2003 YAP ISLAND, PC (PTYA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	468	425	463	461	497	425	467	431	407	448	478	506	5476
2000	484	465	487	486	511	473	460	460	469	469	473	485	5722
2001	485	428	490	522	525	485	460	492	484	516	467	472	5826
2002	475	440	483	451	484	457	471	430	434	491	477	484	5577
2003	487	397	469	512	518	486	471	461	440	474	488	512	5715

SNOWFALL (inches) 2003 YAP ISLAND, PC (PTYA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2003-	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

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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 (1971 - 2000).
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.

2003
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 WEST	ELEVATION ABOVE SEA LEVEL: GROUND TEMPERATURE SITE	ELEVATION ABOVE GROUND: WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
*NOTE:																
AIRPORT 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 gauge installed. Wind equipment raised from 20 feet, 9/1/61. a. 55 feet to 11/14/62.
Yap Airfield	3/01/68	Present	4 mi. SW	9°29′	138°05′	44	20	5	5	5	3		3			

* TYPE

M = AMOS
T = AUTOB
S = ASOS
W = AWOS

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*** NOTES: For earlier station history see previous edition.**