

2004

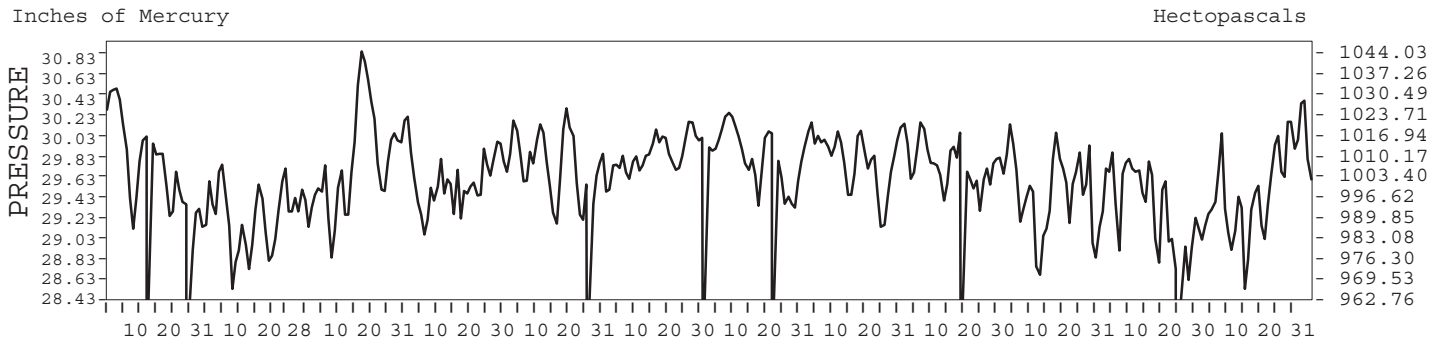
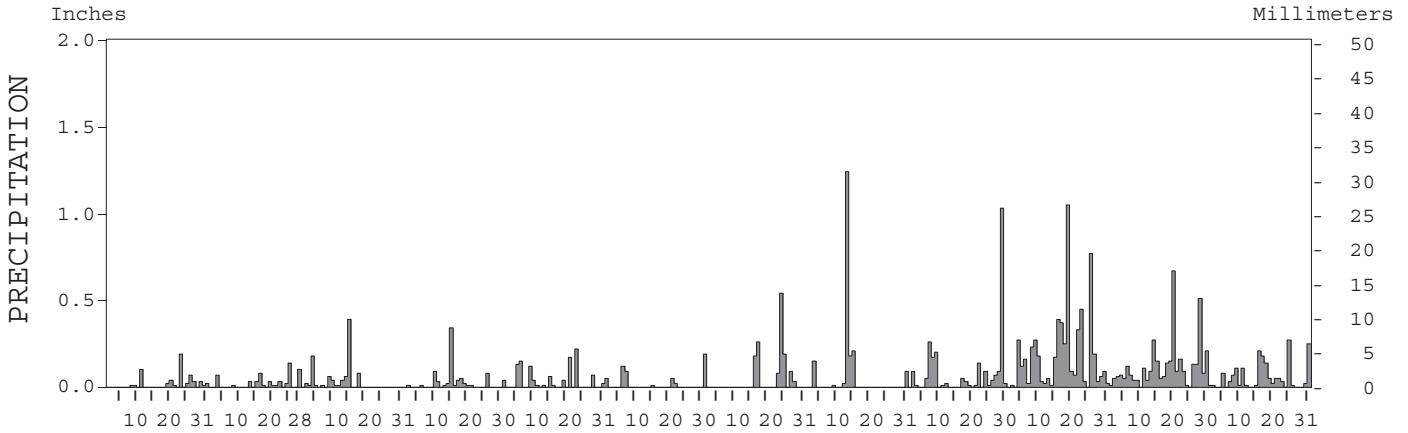
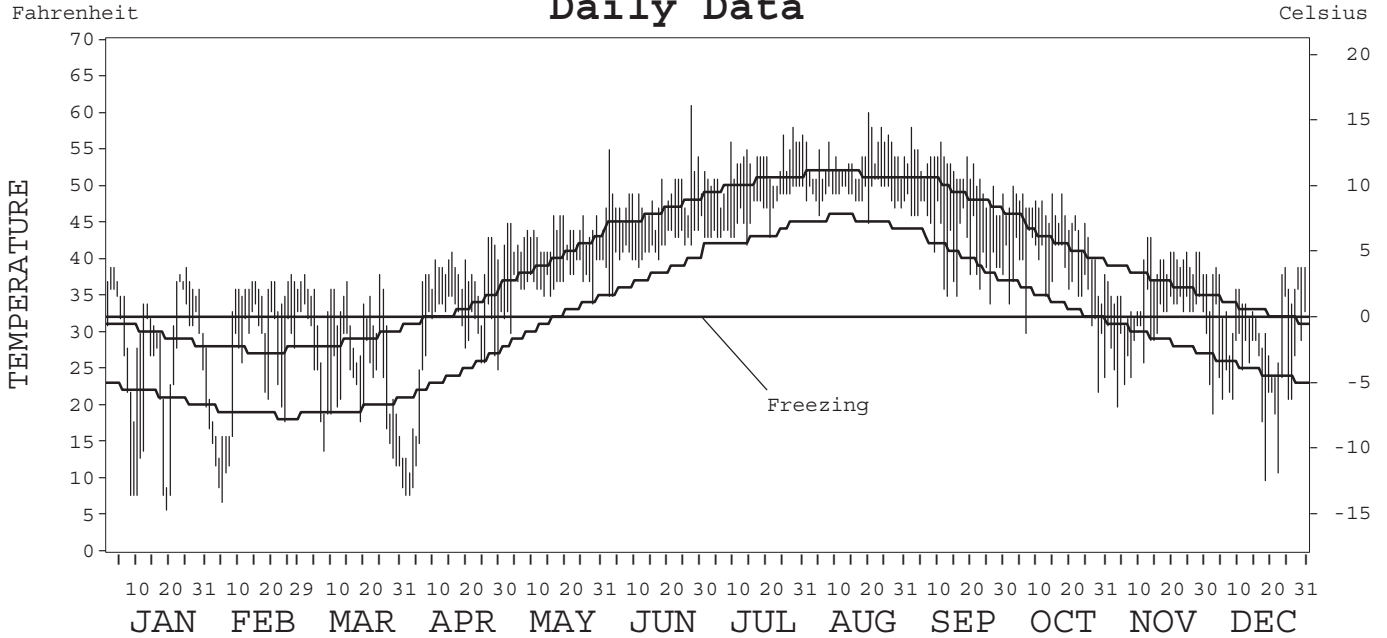
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0513

ST. PAUL ISLAND,
ALASKA (SNP)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2004

ST PAUL ISLAND, AK (SNP)

LATITUDE: 57° 09' 48" N LONGITUDE: 170° 13' 12" W ELEVATION (FT): GRND: 24 BARO: 27 TIME ZONE: ALASKA (UTC + 9) WBAN: 25713

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	31.5	31.0	30.0	34.7	43.3	48.8	52.8	53.8	51.8	45.0	37.6	33.4	41.1	
	HIGHEST DAILY MAXIMUM	39	38	38	43	46	61	58	60	58	50	43	39	61	
	DATE OF OCCURRENCE	25+	26	24+	27+	29+	27	28	20	02	03	14+	31+	JUN 27	
	MEAN DAILY MINIMUM	24.4	24.1	22.3	27.5	36.9	41.4	46.1	48.8	42.0	37.1	30.8	24.9	33.9	
	LOWEST DAILY MINIMUM	6	7	9	8	30	35	42	45	34	22	20	10	6	
	DATE OF OCCURRENCE	19	05	31	02+	03	03+	14	20	26	29	04	19	JAN 19	
	AVERAGE DRY BULB	28.0	27.6	26.2	31.1	40.1	45.1	49.5	51.3	46.9	41.1	34.2	29.2	37.5	
	MEAN WET BULB		27.1	25.3	30.1				50.1				28.6		
	MEAN DEW POINT		24.9	21.8	28.0				49.3				25.5		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM ≤ 32°	15	8	17	6	0	0	0	0	0	0	3	12	61	
MINIMUM ≤ 32°	24	24	30	18	2	0	0	0	0	6	15	27	146		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1142	1079	1198	1006	764	589	476	418	535	736	917	1104	9964	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
RH	MEAN (PERCENT)	81	88	82	88	92	92	95	94	87	83	80	83	87	
	HOUR 03 LST	80	89	84	90	96	96	98	96	89	84	81	84	89	
	HOUR 09 LST	81	89	82	88	94	95	97	96	90	83	78	84	88	
	HOUR 15 LST	80	87	78	84	85	84	90	90	81	80	77	81	83	
	HOUR 21 LST	82	88	84	89	93	91	94	95	88	86	84	81	88	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	1	4	4	11	8	14	9	4	0	1	0	56	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)		29.24	29.78	29.60				29.83		29.47		29.57		
	MEAN SEA-LEVEL PRESS. (IN.)		29.27	29.81	29.63				29.86		29.50		29.61		
WINDS	RESULTANT SPEED (MPH)		12.3	5.0	3.6				4.5		8.6		6.0		
	RES. DIR. (TENS OF DEGS.)		06	02	08				13		23		36		
	MEAN SPEED (MPH)	19.0	19.0	12.9	15.6	14.4	11.7	9.7	11.2	13.1	20.8	20.3	18.9	15.5	
	PREVAIL. DIR. (TENS OF DEGS.)	08	05	36	36	15	05	30	06	35	27	26	31	05	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	43	44	48	52	32	28	25	33	46	52	56	56	56	
	DIR. (TENS OF DEGS.)	01	01	08	14	15	34	34	15	02	26	22	07	07	
	DATE OF OCCURRENCE	08	03	08	15	09+	10	01	14	28	23	21	04	DEC 04	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	48	51	58	60	38	33	28	39	55	62	69	67	69	
DIR. (TENS OF DEGS.)	36	36	09	14	15	33	10	15	02	26	22	07	22		
DATE OF OCCURRENCE	08	08	08	15	09	10	15+	14	28	23	21	04	NOV 21		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.56	0.57	0.92	0.77	1.10	0.48	1.37	1.90	2.40	5.74	3.65	1.77	21.23	
	GREATEST 24-HOUR (IN.)	0.19	0.14	0.39	0.34	0.26	0.19	0.72	1.25	1.03	1.05	0.67	0.27	1.25	
	DATE OF OCCURRENCE	23	25	14	14	04-05	30	23-24	11-12	28	18	19	24	AUG 11-12	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	13	13	13	15	14	6	7	7	20	29	28	22	187	
PRECIPITATION ≥ 0.10	2	2	2	1	5	2	4	4	5	15	12	7	61		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	1	1	1	0	0	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	13.6	11.9	11.3	5.0	0.0	0.0	0.0	0.0	T	1.3	12.0	16.5	71.6	
	GREATEST 24-HOUR (IN.)	3.7	2.1	3.4	1.2	0.0	0.0	0.0	0.0	T	0.9	2.2	2.2	3.7	
	DATE OF OCCURRENCE	11	03	14	02					29	29	05	16	JAN 11	
	MAXIMUM SNOW DEPTH (IN.)	5	8	6	4	0	0	0	0	0	1	4	10	10	
	DATE OF OCCURRENCE	22+	09	15	06						30	10+	23+	DEC 23+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	5	4	4	1	0	0	0	0	0	0	4	9	27		

NORMALS, MEANS, AND EXTREMES

ST PAUL ISLAND, AK (SNP)

LATITUDE: 57° 09' 48" N LONGITUDE: 170° 13' 12" W ELEVATION (FT): GRND: 24 BARO: 27 TIME ZONE: ALASKA (UTC + 9) WBAN: 25713

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	29.8	27.6	28.8	32.8	39.8	46.2	50.3	51.6	49.2	42.5	37.1	32.9	39.0
	MEAN DAILY MAXIMUM	56	30.1	27.4	29.4	32.8	39.6	45.9	50.0	51.3	48.8	42.2	37.2	32.6	38.9
	HIGHEST DAILY MAXIMUM	87	48	44	50	49	59	62	63	66	61	54	50	52	66
	YEAR OF OCCURRENCE		1916	1917	1980	1993	1997	2000	1992	1987	1979	1916	1915	1936	AUG 1987
	MEAN OF EXTREME MAXS.	56	38.9	37.3	37.9	40.2	46.6	53.0	56.5	56.3	53.3	48.3	43.1	40.3	46.0
	NORMAL DAILY MINIMUM	30	21.5	18.9	19.5	24.0	31.5	37.6	43.0	45.1	40.7	34.1	29.1	24.7	30.8
	MEAN DAILY MINIMUM	56	21.9	18.8	20.1	24.4	31.5	37.3	42.6	44.7	40.5	34.0	29.3	24.4	30.8
	LOWEST DAILY MINIMUM	87	-26	-16	-19	-8	8	16	28	29	22	12	4	-5	-26
	YEAR OF OCCURRENCE		1919	1991	1971	1976	1971	1985	1961	1981	1992	1983	1988	1916	JAN 1919
	MEAN OF EXTREME MINS.	56	4.4	0.9	2.2	9.5	22.9	29.8	35.8	37.0	30.1	23.3	16.6	9.0	18.5
	NORMAL DRY BULB	30	25.7	23.3	24.2	28.4	35.7	41.9	46.7	48.4	45.0	38.3	33.1	28.8	35.0
	MEAN DRY BULB	56	26.1	23.1	24.7	28.7	35.5	41.6	46.2	48.1	44.6	38.1	33.3	28.6	34.9
	MEAN WET BULB	15	22.8	22.4	22.5	25.9	32.3	38.3	45.9	47.7	44.0	37.0	32.2	28.2	33.3
	MEAN DEW POINT	15	19.9	19.5	19.6	23.5	32.0	39.2	44.8	46.7	41.9	33.8	28.8	25.3	31.2
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 70°	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 ≤ 32°	30	15.9	15.9	17.5	11.9	2.2	0.0	0.0	0.0	0.0	0.6	5.0	11.4	80.4	
MINIMUM ≤ 32°	30	25.5	25.3	28.4	25.9	17.1	3.3	0.3	0.1	2.6	11.8	19.3	23.5	183.1	
MINIMUM ≤ 0°	30	1.1	2.8	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.7	
H/C	NORMAL HEATING DEG. DAYS	30	1220	1174	1250	1097	911	693	569	518	603	828	957	1122	10942
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30					87	90	93	93	88	82	82		
	HOUR 03 LST	30	83	85	86	87	90	95	96	95	90	84	82	84	88
	HOUR 09 LST	30	83	85	87	87	89	92	95	95	89	84	82	84	88
	HOUR 15 LST	30	82	84	83	81	81	83	88	89	83	78	79	83	83
	HOUR 21 LST	30					87	89	93	93	89	83	82		
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	58	2.4	3.2	3.5	3.7	6.8	9.5	12.2	10.1	3.5	0.7	1.1	1.4	58.1
	THUNDERSTORMS	58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	62	6.6	6.4	6.3	6.6	7.1	7.3	7.5	7.4	7.0	6.8	6.7	6.9	6.9
	MIDNIGHT-MIDNIGHT (OKTAS)	24	6.3	6.1	6.1	6.5	7.0	7.3	7.7	7.6	7.0	6.8	6.7	6.8	6.8
	MEAN NO. DAYS WITH:														
CLEAR	66	2.3	2.6	3.2	2.2	1.1	1.1	0.6	0.7	0.7	0.7	1.2	1.5	17.9	
PARTLY CLOUDY	66	5.6	5.9	7.2	5.8	3.8	3.0	2.2	2.6	5.3	7.2	6.3	5.3	60.2	
CLOUDY	66	23.1	19.8	20.6	22.0	26.1	25.8	27.7	27.2	23.6	22.7	22.1	23.8	284.5	
PR	MEAN STATION PRESSURE (IN)	15	29.50	29.57	29.66	29.72	29.76	29.83	29.91	29.83	29.69	29.66	29.55	29.42	29.68
	MEAN SEA-LEVEL PRES. (IN)	15	29.55	29.65	29.72	29.78	29.81	29.97	29.94	29.87	29.73	29.70	29.62	29.45	29.73
WINDS	MEAN SPEED (MPH)	21	18.9	18.8	17.7	16.3	14.2	13.1	11.7	13.2	14.8	17.1	18.4	18.9	16.1
	PREVAIL. DIR (TENS OF DEGS)	18	02	02	36	36	36	05	25	23	24	36	01	02	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	8	63	67	55	56	45	37	37	52	46	52	58	59	67
	DIR. (TENS OF DEGS)		10	09	27	25	20	32	01	25	02	26	09	09	09
	YEAR OF OCCURRENCE		2000	2000	1998	2001	1997	2000	2003	2000	2004	2004	2000	2001	FEB 2000
MAXIMUM 5-SECOND:															
SPEED (MPH)	8	74	79	64	68	54	44	46	61	55	62	69	69	79	
DIR. (TENS OF DEGS)		10	09	27	25	19	33	01	26	02	26	22	08	09	
YEAR OF OCCURRENCE		2000	2000	1998	2001	1997	2000	2003	2000	2004	2004	2004	2001	FEB 2000	
PRECIPITATION	NORMAL (IN)	30	1.74	1.25	1.12	1.12	1.21	1.41	1.91	2.96	2.79	2.70	2.87	2.13	23.21
	MAXIMUM MONTHLY (IN)	82	8.26	5.69	3.28	3.21	3.11	3.59	5.85	9.32	6.02	6.21	5.40	4.50	9.32
	YEAR OF OCCURRENCE		1997	1964	1973	1979	1931	1958	1950	1953	1924	1987	1993	2000	AUG 1953
	MINIMUM MONTHLY (IN)	82	0.25	0.02	0.08	0.08	0.13	0.01	0.32	0.17	0.62	0.96	0.67	0.08	0.01
	YEAR OF OCCURRENCE		1918	1984	1960	1992	2001	1995	1931	1977	1977	1977	1939	1933	JUN 1995
	MAXIMUM IN 24 HOURS (IN)	82	7.59	1.51	1.26	1.15	1.27	1.48	1.92	2.00	1.74	1.93	1.76	1.15	7.59
	YEAR OF OCCURRENCE		1997	1932	1973	1995	1931	1949	1950	1984	1993	1949	1925	1930	JAN 1997
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	18.6	14.6	16.0	13.9	14.3	12.7	14.7	17.7	18.8	20.9	22.5	21.1	205.8	
PRECIPITATION ≥ 1.00	30	0.1	0.0	*	*	0.0	*	0.1	0.3	0.3	0.1	0.1	0.0	1.0	
SNOWFALL	NORMAL (IN)	30	10.0	9.5	10.0	6.1	1.6	0.1	0.0	0.0	0.*	2.2	7.6	9.2	56.3
	MAXIMUM MONTHLY (IN)	79	50.6	55.8	31.4	19.1	12.7	2.0	0.0	0.0	1.0	14.0	27.3	28.4	55.8
	YEAR OF OCCURRENCE		2002	1964	1973	1928	1971	1927			1965	1948	1964	2001	FEB 1964
	MAXIMUM IN 24 HOURS (IN)	78	17.7	13.6	12.4	10.0	4.0	2.0	0.0	0.0	1.0	10.9	13.4	11.4	17.7
	YEAR OF OCCURRENCE		2002	1964	1973	1966	1935	1927			1965	1978	1964	2001	JAN 2002
	MAXIMUM SNOW DEPTH (IN)	53	25	37	50	32	18	2	0	0	0	11	18	26	50
	YEAR OF OCCURRENCE		1961	2000	1949	2000	1971	1975				1978	1964	1998	MAR 1949
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	3.5	3.1	2.7	1.9	0.3	0.0	0.0	0.0	0.0	0.3	2.4	3.0	17.2	

PRECIPITATION (inches) 2004 ST. PAUL ISLAND, AK (SNP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	1.47	1.54	1.02	1.30	0.50	1.07	1.20	1.40	1.45	2.07	0.88	0.73	14.63
1976	0.74	0.80	0.74	1.22	1.48	0.90	1.58	1.50	1.44	1.57	0.94	0.76	13.67
1977	0.57	0.89	1.41	1.09	1.19	0.31	0.86	0.17	0.62	0.96	1.10	0.65	9.82
1978	0.61	0.47	0.53	0.92	0.74	1.33	2.52	2.72	1.87	4.45	2.10	1.95	20.21
1979	2.62	1.01	1.22	3.21	1.52	2.18	2.67	2.57	3.51	3.79	4.78	1.19	30.27
1980	1.13	0.37	0.99	0.76	0.83	3.05	1.20	3.78	2.82	2.85	2.06	0.84	20.68
1981	1.58	0.52	0.79	0.54	1.45	1.15	0.85	2.50	1.07	2.48	2.63	1.01	16.57
1982	0.95	0.38	1.47	0.65	1.40	1.08	1.82	1.64	2.31	1.99	3.01	2.17	18.87
1983	0.28	1.09	0.14	2.43	1.08	0.55	2.39	3.44	2.34	2.22	3.32	3.98	23.26
1984	1.22	0.02	0.31	0.48	0.82	0.85	0.91	4.09	2.93	1.76	3.77	3.54	20.70
1985	2.86	0.84	1.56	1.23	2.04	1.91	1.04	2.27	3.75	4.22	4.56	2.41	28.69
1986	1.11	0.39	0.09	0.83	1.17	1.23	3.25	5.50	4.81	2.45	3.61	3.19	27.63
1987	3.36	1.99	2.02	1.53	1.47	2.94	3.13	3.46	4.69	6.21	1.24	3.28	35.32
1988	1.38	1.40	0.28	1.32	1.74	1.73	0.36	3.93	2.59	2.58	3.53	3.37	24.21
1989	2.12	2.56	0.53	2.33	1.91	0.95	2.00	1.81	3.61	2.94	3.92	1.77	26.45
1990	2.50	2.45	1.25	0.31	1.56	0.53	2.01	3.43	3.38	3.69	4.39	2.87	28.37
1991	1.45	1.16	2.88	0.22	1.00	1.10	2.02	3.99	4.95	2.47	1.60	2.17	25.01
1992	1.18	1.81	1.05	0.08	0.88	2.51	2.80	5.12	3.50	2.89	2.51	2.72	27.05
1993	2.28	1.68	1.27	0.89	1.52	0.86	2.05	3.31	4.92	3.12	5.40	0.97	28.27
1994	1.55	2.62	1.54	0.30	0.66	1.65	2.93	3.99	3.63	1.87	3.95	2.29	26.98
1995	0.74	1.59	0.48	2.54	0.68	0.01	0.93	1.91	2.05	3.12	1.33	1.08	16.46
1996	1.63	1.79	0.94	0.17	0.92	1.95	2.71	2.74	2.85	1.04	1.84	0.87	19.45
1997	8.26	0.75	0.34	0.34	1.77	1.02	1.94	3.24	2.21	1.32	4.04	0.82	26.05
1998	0.46	0.11	1.58	2.37	2.79	2.40	1.22	3.60	2.44	3.24	3.18	3.28	26.67
1999	1.68	0.84	2.15	1.73	0.51	1.73	3.16	3.75	2.47	2.64	2.65	0.69	24.00
2000	2.37	1.88	0.76	1.37	0.52	2.34	2.16	2.78	2.49	3.14	4.26	4.50	28.57
2001	1.76	2.32	0.61	1.77	0.13	0.77	3.24	3.85	3.61	4.77	2.37	1.78	26.98
2002	3.31	1.38	1.39	0.93	2.04	0.61	0.97	1.83	2.80	3.68	2.52	2.88	24.34
2003	1.63	1.04	0.43	1.34	0.59	1.37	0.67	1.61	0.78	1.23	2.36	2.45	15.50
2004	0.56	0.57	0.92	0.77	1.10	0.48	1.37	1.90	2.40	5.74	3.65	1.77	21.23
POR= 87 YRS	1.81	1.29	1.22	1.14	1.24	1.30	2.12	3.10	2.96	2.94	2.66	1.96	23.74

WBAN : 25713

AVERAGE TEMPERATURE (°F) 2004 ST. PAUL ISLAND, AK (SNP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	17.6	15.3	19.7	27.4	32.2	38.1	43.7	47.4	42.5	36.2	29.3	29.3	31.6
1976	22.0	9.0	12.8	17.3	30.7	39.9	45.1	47.6	43.2	37.8	31.3	23.6	30.0
1977	30.6	27.4	23.2	26.3	36.1	43.3	48.7	51.1	47.8	37.0	30.0	31.1	36.1
1978	33.6	27.4	25.5	34.9	38.9	44.2	46.5	48.7	47.5	39.2	38.0	32.1	38.0
1979	34.3	30.0	30.4	36.1	40.6	46.7	48.7	50.5	48.1	43.3	36.7	31.5	39.7
1980	27.2	23.7	31.6	30.9	38.1	44.5	47.5	46.5	44.2	37.1	33.9	29.9	36.3
1981	27.9	23.9	30.7	34.3	40.4	43.0	47.8	47.3	44.3	37.7	30.8	28.1	36.4
1982	26.4	27.6	29.5	28.9	35.2	41.4	44.2	48.4	42.8	38.3	34.8	29.6	35.6
1983	22.4	28.3	27.8	31.8	36.9	43.7	47.3	48.1	44.1	36.9	30.8	34.4	36.0
1984	26.8	9.9	24.7	26.0	33.5	43.3	46.2	48.9	46.1	39.0	34.5	32.8	34.3
1985	33.8	23.5	21.9	20.2	34.8	38.7	45.8	47.5	44.4	37.2	37.2	33.9	34.9
1986	22.1	25.7	20.4	27.9	35.9	42.5	47.3	47.8	46.5	39.1	35.2	31.7	35.2
1987	27.4	27.9	29.4	29.5	36.6	42.9	47.7	49.3	43.4	38.5	28.1	25.9	35.6
1988	27.3	24.2	17.8	25.8	35.1	42.2	47.7	48.7	44.9	39.2	29.5	27.5	34.2
1989	22.3	34.1	30.4	33.8	37.8	42.6	47.3	49.8	47.1	40.2	30.2	29.4	37.1
1990	27.0	19.6	26.3	30.6	37.7	43.3	47.8	48.9	44.1	38.2	33.5	31.9	35.7
1991	25.0	9.6	27.6	27.9	36.4	41.9	48.5	49.3	45.8	40.7	33.7	26.7	34.4
1992	24.6	25.1	20.7	27.8	33.5	42.4	45.8	47.7	42.2	37.3	30.9	27.0	33.8
1993	22.5	26.3	27.1	33.4	37.4	43.1	49.4	50.9	46.0	41.0	36.4	27.8	36.8
1994	26.7	29.4	17.6	25.7	33.9	42.1	47.7	48.3	44.6	37.2	32.5	28.2	34.5
1995	21.7	21.8	20.5	26.6	36.6	41.2	47.2	49.8	47.3	38.5	32.8	32.8	34.7
1996	30.6	26.5	33.0	31.7	39.6	45.1	48.4	50.3	45.1	39.6	36.2	31.4	38.1
1997	25.7	25.3	23.3	30.3	38.7	42.9	48.4	49.7	46.5	38.2	33.2	24.2	35.5
1998	22.1	21.5	29.7	31.6	35.9	42.2	47.9	47.9	44.8	37.9	33.0	28.3	35.2
1999	26.3	24.4	23.6	28.2	34.4	40.9	45.7	46.1	45.2	36.0	31.9	17.3	33.3
2000	17.7	30.5	27.4	31.0	35.9	42.9	47.6	49.4	45.1	39.5	36.3	34.7	36.5
2001	29.5	30.6	28.4	32.1	34.2	41.8	45.7	48.5	45.2	37.0	34.4	22.0	35.8
2002	23.1	17.5	31.2	32.6	38.8	43.4	47.5	50.1	46.9	40.9	35.0	30.1	36.4
2003	29.3	28.2	28.7	35.3	37.9	44.3	47.8	49.2	46.3	40.0	35.5	30.1	37.7
2004	28.0	27.6	26.2	31.1	40.1	45.1	49.5	51.3	46.9	41.1	34.2	29.2	37.5
POR= 87 YRS	25.7	23.2	24.6	28.8	35.2	41.4	45.9	47.7	44.7	38.3	33.2	28.5	34.8

HEATING DEGREE DAYS (base 65°F) 2004 ST. PAUL ISLAND, AK (SNP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	653	539	670	886	1064	1102	1327	1622	1612	1422	1055	745	12697
1976-77	610	532	649	838	1006	1280	1059	1048	1291	1156	889	642	11000
1977-78	499	420	508	862	1043	1045	968	1049	1216	896	803	616	9925
1978-79	564	496	518	792	802	1011	946	976	1065	860	747	548	9325
1979-80	497	444	501	667	843	1030	1165	1190	1030	1016	823	608	9814
1980-81	532	568	617	861	924	1079	1142	1145	1057	916	757	651	10249
1981-82	527	541	613	839	1018	1138	1188	1044	1093	1074	915	702	10692
1982-83	638	507	661	819	900	1092	1313	1019	1147	988	868	632	10584
1983-84	541	519	620	862	1018	942	1178	1592	1245	1166	968	646	11297
1984-85	579	492	561	796	909	993	959	1154	1326	1338	926	783	10816
1985-86	589	537	612	852	824	957	1323	1093	1378	1104	895	670	10834
1986-87	543	527	546	796	885	1029	1160	1034	1098	1057	871	656	10202
1987-88	526	480	642	816	1097	1205	1160	1179	1454	1170	916	677	11322
1988-89	530	499	595	792	1059	1155	1319	859	1067	930	834	666	10305
1989-90	543	463	532	763	1037	1093	1172	1265	1193	1027	840	648	10576
1990-91	525	494	619	825	935	1023	1232	1548	1153	1105	880	685	11024
1991-92	505	483	570	746	935	1181	1243	1150	1367	1109	966	672	10927
1992-93	587	529	680	853	1014	1172	1309	1077	1170	945	849	648	10833
1993-94	477	431	564	737	850	1146	1181	990	1459	1171	958	681	10645
1994-95	530	510	607	855	967	1133	1335	1203	1370	1146	875	707	11238
1995-96	546	463	522	813	959	991	1061	1112	986	995	781	590	9819
1996-97	507	451	589	780	857	1034	1209	1104	1289	1035	808	654	10317
1997-98	511	464	546	827	948	1259	1324	1210	1092	996	896	676	10749
1998-99	523	523	599	834	952	1131	1191	1130	1278	1098	941	716	10916
1999-00	592	578	589	892	987	1471	1457	995	1157	1014	896	654	11282
2000-01	535	475	587	784	853	932	1095	956	1130	981	947	691	9966
2001-02	591	505	589	860	912	1325	1291	1325	1041	963	806	643	10851
2002-03	534	455	534	740	893	1075	1100	1024	1118	883	832	615	9803
2003-04	524	486	555	766	876	1076	1142	1079	1198	1006	764	589	10061
2004-	476	418	535	736	917	1104							

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COOLING DEGREE DAYS (base 65°F) 2004 ST. PAUL ISLAND, AK (SNP)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	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	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	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	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0

SNOWFALL (inches) 2004 ST. PAUL ISLAND, AK (SNP)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.4	2.0	5.9	4.7	9.4	7.9	7.8	6.8	1.0	0.0	45.9
1976-77	0.0	0.0	0.0	2.9	7.1	10.3	2.1	7.1	16.0	5.6	1.4	0.0	52.5
1977-78	0.0	0.0	0.0	1.6	7.9	3.9	2.9	5.2	5.9	0.4	T	0.0	27.8
1978-79	0.0	0.0	0.0	12.5	2.4	9.0	17.9	1.6	3.7	0.9	0.5	0.0	48.5
1979-80	0.0	0.0	T	T	14.6	8.7	8.5	5.0	12.1	9.6	1.7	0.0	60.2
1980-81	0.0	0.0	T	2.6	6.1	6.1	10.5	5.5	7.2	2.0	1.3	0.0	41.3
1981-82	0.0	0.0	0.0	0.9	9.1	4.8	2.1	1.5	5.8	3.0	T	0.0	27.2
1982-83	0.0	0.0	T	0.2	4.0	10.7	2.9	8.4	1.2	5.3	0.2	0.0	32.9
1983-84	0.0	0.0	T	4.8	7.4	1.7	6.5	0.2	3.0	3.0	3.3	0.0	29.9
1984-85	0.0	0.0	0.0	2.9	3.4	3.7	4.5	7.8	10.1	13.3	2.2	0.7	48.6
1985-86	0.0	0.0	0.0	1.7	2.5	3.7	12.6	3.2	1.1	4.8	1.9	0.0	31.5
1986-87	0.0	0.0	0.0	T	3.6	4.9	13.5	16.1	13.2	3.3	2.4	0.0	57.0
1987-88	0.0	0.0	T	0.9	10.3	18.6	6.5	7.0	4.9	11.7	1.9	0.0	61.8
1988-89	0.0	0.0	0.0	2.8	25.7			6.8	3.6	5.5	1.4	0.0	
1989-90	0.0	0.0	0.0	0.7	18.2	10.6	23.4	25.1	16.6	2.9	0.1	0.0	97.6
1990-91	0.0	0.0	0.2	3.3	9.7	7.2	7.3	3.9	12.1	2.7	1.7	0.0	48.1
1991-92	0.0	0.0	0.0	0.8	4.3	19.0	13.1	7.8	15.2	1.5	0.5	0.0	62.2
1992-93	0.0	0.0	T	2.0	10.6	6.0	10.0	16.7	6.3	4.6	0.7	0.0	56.9
1993-94	0.0	0.0	T	T	4.1	13.3	5.1	3.7	17.7	5.7	3.6	0.0	53.2
1994-95	0.0	0.0	T	T	8.9	6.4	10.0	15.1	4.6	9.9	0.3	T	55.2
1995-96	0.0	0.0	0.0	0.5	4.3	2.4	7.5	9.7	3.6	0.8	T	T	28.8
1996-97	0.0	0.0	T	0.1	5.5	10.4							
1997-98													
1998-99		0.0	T	4.0	10.8	24.4	19.7	9.0	29.8	13.1	0.1	0.0	
1999-00	0.0	0.0	0.0	6.3	9.6	10.7	26.9	22.3	8.3	13.3	T	T	97.4
2000-01	0.0	0.0	0.0	T	2.5	6.9	7.4	14.1	3.2	2.3	0.7	0.0	37.1
2001-02	0.0	0.0	0.0	2.7	7.2	28.4	50.6	28.7	6.6	1.9	T	0.0	126.1
2002-03	0.0	0.0	0.0	1.1	6.4	11.3	15.8	12.6	0.9	3.4	0.6	0.0	52.1
2003-04	0.0	0.0	0.0	0.6	13.8	19.3	13.6	11.9	11.3	5.0	0.0	0.0	75.5
2004-	0.0	0.0	T	1.3	12.0	16.5							
POR= 78 YRS	0.0	0.0	0.1	2.6	6.7	10.0	12.1	10.0	9.1	5.7	2.0	0.1	58.4

WBAN : 25713

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 (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.</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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2004
ST. PAUL ISLAND,
ALASKA (SNP)

St. Paul Island, one of the Pribilof group, is located in the central-southeast Bering Sea area. The climate is typically maritime, resulting in considerable cloudiness, heavy fog, high humidity, and rather well restricted daily temperature ranges. Humidities remain uniformly high from May to late September, and during the summer period there is almost continuous low cloudiness and occasional heavy fog. The differences between the high and low temperatures for the entire year are only slightly above 7 degrees, and the greatest monthly variation in March is slightly less than 12 degrees. Temperatures remain on the cool side even during the summer with extreme highs usually around the middle 50s. Although record low readings fall well below the zero mark, such extremely cold days are rather rare. There are only five days each winter with temperatures falling below the zero mark. The climatic environment makes the Pribilofs ideal for their numerous summer inhabitants, the Alaskan Fur Seals.

In spite of an environment of high humidities, precipitation on St. Paul Island is surprisingly light. The annual average of near 24 inches is slightly below the average for Alaska as a whole. April is generally the driest month, with a gradual increase of precipitation until a monthly total of over 3 inches is reached during August, September, and October. This is followed by a gradual decrease during the succeeding months until the return of April.

Frequent windy periods are characteristic of the island area throughout the year. Frequent storms occur from October to April, and these often are accompanied by gale-force winds to produce general blizzard conditions. Under the influence of prolonged north and northeasterly winds between January and April, the ice pack occasionally moves south to surround the island. During recent years, the southward limit of this movement has been between St. Paul and St. George Islands, some 40 miles to the southeast of St. Paul.

Thunderstorms are extremely rare on St. Paul Island.

STATION LOCATION

ST. PAUL ISLAND, ALASKA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						GROUND											
						SEA LEVEL	GROUND	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	RAINING GAUGE	8 INCH RAIN GAGE	HYGROMETER		
*NOTE:																	
<u>AIRPORT</u>																	
Weather Bureau Airport Station	7/02/47	9/10/51	3.4 mi. NE of Village	57°09'	170°13'	22	39	5	5					2		s. Standby equipment.	
Weather Bureau Airport Station+	9/10/51	01/01/97	No Change	57°09'	170°13'	22	c42 e30	s10 h	s10 h			b6	b5	d5 f5 g5		b. Added 8/1/60. c. Raised from 29 ft. in 1961. d. Commissioned 9/9/75 on site 66 ft. NE of instrument shelter. e. Moved to ground location 7/2/78. f. Minor adjustment 7/15/78. g. Type change 8/20/85. h. Instrument shelter removed 11/1987.	
+Nat. Weather Service Building St. Paul Is. Airport eff. 12/1970.																	
St. Paul Island Airport	01/01/97	Present	NA	57°10'	170°13'	i24								S		ASOS Commissioned 01/01/97 i. Ground elevation.	

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* NOTES: For earlier station history see previous editions.