

1998

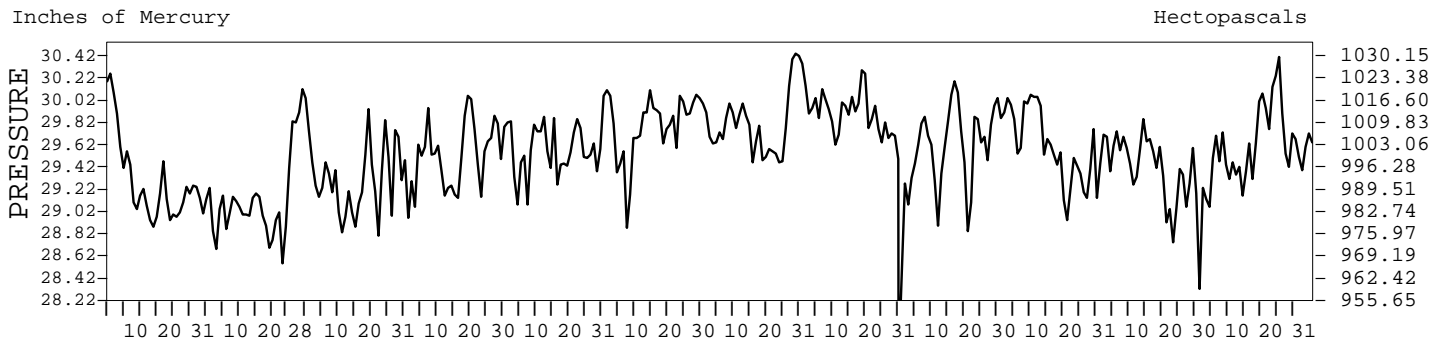
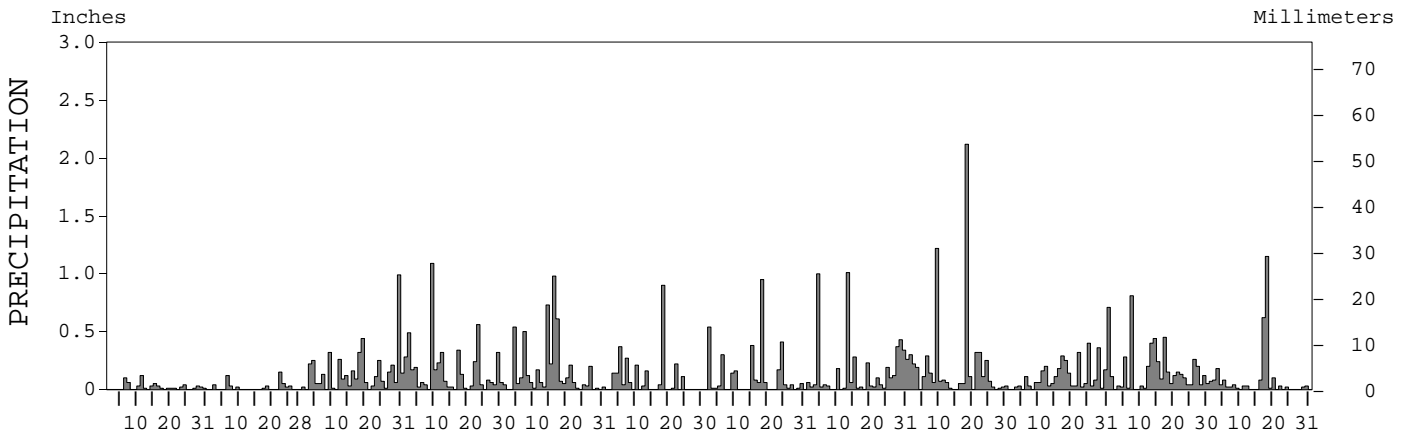
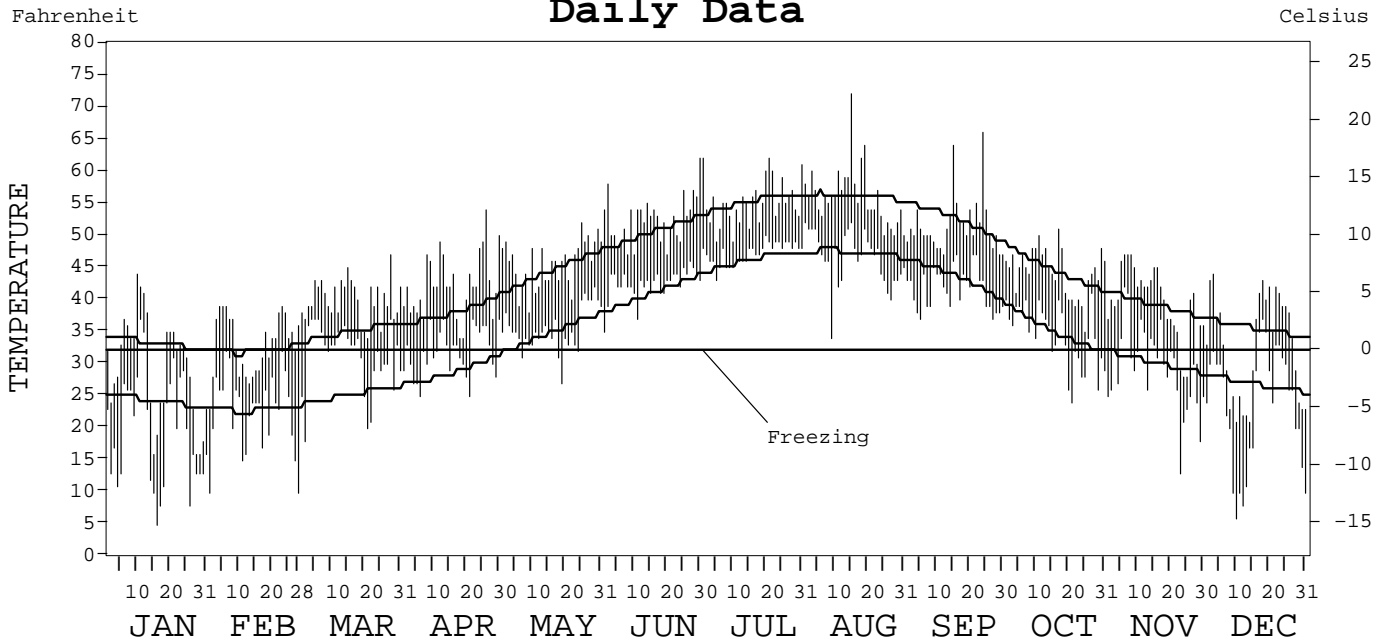
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



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COLD BAY,
ALASKA (CDB)

Daily Data



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Thomas R. Karl

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

METEOROLOGICAL DATA FOR 1998

COLD BAY, AK (CDB)

LATITUDE: 55° 12' 24" N LONGITUDE: 162° 43' 18" W ELEVATION (FT): GRND: 98 BARO: 98 TIME ZONE: ALASKA (UTC+ 9) WBAN: 25624

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	29.5	33.1	40.0	42.3	45.6	52.4	55.1	56.1	51.6	44.4	39.5	32.7	43.5	
	HIGHEST DAILY MAXIMUM	44	39	47	54	52	62	62	72	66	51	47	44	72	
	DATE OF OCCURRENCE	10	23+	28	26	25	30	21+	15	24	17	08+	03	AUG 15	
	MEAN DAILY MINIMUM	19.5	22.7	31.2	31.8	35.4	42.4	47.2	46.5	41.7	34.4	29.3	23.5	33.8	
	LOWEST DAILY MINIMUM	5	10	18	25	27	35	43	34	37	24	13	6	5	
	DATE OF OCCURRENCE	16	28+	02	21+	19	01	05	09	27+	21	23	10	JAN 16	
	AVERAGE DRY BULB	24.5	27.9	35.6	37.1	40.5	47.4	51.2	51.3	46.7	39.4	34.4	28.1	38.7	
	MEAN WET BULB	24.2	27.1	34.1	34.6	38.2	44.3	48.8		44.4	37.8	33.6	27.0		
	MEAN DEW POINT	21.3	24.7	32.1	31.3	35.3	41.6	47.1		42.1	34.9	31.2	23.2		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	0	0	1	0	0	0	0	0	1
	MAXIMUM ≤ 32°	17	13	0	0	0	0	0	0	0	0	4	13	47	
MINIMUM ≤ 32°	29	28	14	16	4	0	0	0	0	10	22	26	149		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1248	1030	903	829	752	520	422	417	546	785	911	1135	9498	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
RH	MEAN (PERCENT)	85	86	87	81	82	83	89	86	85	83	86	79	84	
	HOUR 03 LST	87	87	89	86	88	89	93	90	88	86	86	79	87	
	HOUR 09 LST	86	88	88	83	81	85	92	90	88	86	86	81	86	
	HOUR 15 LST	82	82	83	74	74	74	83	78	78	77	83	77	79	
	HOUR 21 LST	86	90	90	84	83	83	88	85	88	86	88	80	86	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	1	0	0	0	0	2	1	0	1	4	4	14	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLOUDINESS	AVG. SKY COVER (OKTAS)														
	SUNRISE - SUNSET	7	7	7	7	7	7								
	MIDNIGHT - MIDNIGHT	7	7	7	7	7	7								
	NUMBER OF DAYS WITH:														
	CLEAR	1	1	0	1	0	0								
PARTLY CLOUDY	7	4	3	4	4	4									
CLOUDY	23	23	28	25	27	26									
PR	MEAN STATION PRESS. (IN.)	29.28	29.08	29.35	29.51	29.58	29.79	29.82		29.67	29.58	29.34	29.65		
	MEAN SEA-LEVEL PRESS. (IN.)	29.40	29.20	29.47	29.63	29.70	29.91	29.93		29.77	29.68	29.52	29.76		
WINDS	RESULTANT SPEED (MPH)	4.4	3.8	6.6	5.9	9.9	10.5	2.8		5.6	5.8	1.7	2.6		
	RES. DIR. (TENS OF DEGS.)	35	31	17	24	20	17	18		25	28	21	03		
	MEAN SPEED (MPH)	13.0	13.8	20.1	22.9	20.7	17.6	12.7	16.7	17.0	14.5	17.0	18.2	17.0	
	PREVAIL. DIR. (TENS OF DEGS.)	35	35	12	15	17	16	14	14	26	32	14	14	14	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	45	45	71	59	54	38	34	44	53	45	59	51	71	
	DIR. (TENS OF DEGS.)	09	15	15	17	16	15	13	26	14	12	13	14	15	
	DATE OF OCCURRENCE	10	22	23	09	17	06	18	23+	24	27+	07	17+	MAR 23	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	63	59	87	75	63	51	44	53	61	54	68	60	87	
DIR. (TENS OF DEGS.)	E	SE	SE	S	S	SE	14	14	15	13	13	28	SE		
DATE OF OCCURRENCE	10	22	23	09	17+	05	18	13	24	27	07	04	MAR 23		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.60	0.50	4.64	5.08	5.01	2.70	3.45	5.02	6.23	3.93	4.57	2.66	44.39	
	GREATEST 24-HOUR (IN.)	0.16	0.17	1.09	1.13	1.52	0.90	0.95	1.03	2.12	0.88	0.84	1.15	2.12	
	DATE OF OCCURRENCE	06-07	22-23	30-31	09-10	16-17	18	18	03-04	18	30-31	13-14	18	SEP 18	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	18	10	27	26	26	14	19	27	25	27	27	20	266	
PRECIPITATION ≥ 0.10	2	2	15	13	12	9	8	13	13	13	16	4	120		
PRECIPITATION ≥ 1.00	0	0	0	1	0	0	0	2	2	0	0	1	6		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	8.9	4.0	10.2	6.3	1.0	0.0	0.0	T	0.0	8.2	20.4	12.3	71.3	
	GREATEST 24-HOUR (IN.)	2.1	0.7	4.5	1.3	0.6	0.0	0.0	T	0.0	8.2	4.0	2.5	8.2	
	DATE OF OCCURRENCE	15-16	24-25	19	17-18	08-09			25	0	25	24	01	OCT 25	
	MAXIMUM SNOW DEPTH (IN.)	11	7	6	2	T	0	0	0	0	4	10	6	11	
	DATE OF OCCURRENCE	02+	03+	21+	20+	10+					25	25+	02	JAN 02+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	4	0	3	1	0	0	0	0	0	1	5	5	19		

NORMALS, MEANS, AND EXTREMES

COLD BAY, AK (CDB)

LATITUDE: 55° 12' 24" N LONGITUDE: 162° 43' 18" W ELEVATION (FT): GRND: 98 BARO: 98 TIME ZONE: ALASKA (UTC+ 9) WBAN: 25624

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	33.1	32.0	34.8	37.9	44.4	50.4	55.1	55.9	52.2	44.3	38.9	35.3	42.9
	MEAN DAILY MAXIMUM	43	32.9	32.5	34.8	38.2	44.8	50.5	55.0	55.8	52.2	44.6	39.0	34.9	42.9
	HIGHEST DAILY MAXIMUM	54	51	50	56	60	67	72	77	78	76	69	59	54	78
	YEAR OF OCCURRENCE		1993	1991	1974	1948	1979	1995	1960	1948	1985	1964	1986	1990	AUG 1948
	MEAN OF EXTREME MAXS.	43	43.0	42.9	44.9	47.7	54.8	60.1	64.9	65.5	60.0	54.3	48.7	44.8	52.6
	NORMAL DAILY MINIMUM	30	24.1	22.8	25.0	28.6	34.8	40.9	46.0	47.1	43.2	34.8	29.9	26.6	33.7
	MEAN DAILY MINIMUM	43	24.0	23.2	24.8	28.8	34.9	41.1	46.0	47.3	43.1	35.0	29.9	26.2	33.7
	LOWEST DAILY MINIMUM	55	-8	-9	-13	4	18	29	33	33	26	10	1	-1	-13
	YEAR OF OCCURRENCE		1989	1947	1971	1976	1973	1952	1982	1946	1992	1976	1963	1979	MAR 1971
	MEAN OF EXTREME MINS.	43	7.0	6.0	9.6	17.8	26.7	34.6	40.3	40.1	33.4	24.9	18.0	11.0	22.4
	NORMAL DRY BULB	30	28.6	27.4	29.9	33.3	39.6	45.7	50.5	51.5	47.7	39.6	34.4	31.0	38.3
	MEAN DRY BULB	43	28.4	27.8	29.8	33.5	39.9	45.8	50.5	51.5	47.7	39.8	34.5	30.5	38.3
	MEAN WET BULB	15	28.2	27.5	29.3	31.8	37.8	43.6	48.6	50.0	46.1	38.7	33.5	30.8	37.2
	MEAN DEW POINT	15	25.4	24.6	26.3	28.8	34.9	41.5	47.0	48.4	44.0	35.8	30.7	28.2	34.6
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 70°	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	
MAXIMUM ≤ 32°	30	11.5	11.6	9.4	5.4	0.6	0.0	0.0	0.0	0.0	0.0	0.8	3.9	8.8	
MINIMUM ≤ 32°	30	23.7	22.9	23.9	20.3	9.1	0.4	0.0	0.0	0.6	9.4	18.4	22.5	151.2	
MINIMUM ≤ 0°	30	0.6	0.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.7	
H/C	NORMAL HEATING DEG. DAYS	30	1128	1053	1088	951	787	579	450	419	519	787	918	1054	9733
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	84	84	83	82	84	86	88	90	86	83	84	86	85
	HOUR 03 LST	30	85	84	85	86	89	92	93	94	90	86	84	87	88
	HOUR 09 LST	30	85	85	86	85	85	88	90	92	89	85	84	87	87
	HOUR 15 LST	30	82	81	78	77	76	80	82	83	80	77	82	85	80
	HOUR 21 LST	30	85	84	83	83	83	85	88	91	88	84	84	87	85
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	44	1.9	1.4	2.0	1.3	1.5	2.0	3.8	3.2	1.0	0.3	0.7	1.7	20.8
	THUNDERSTORMS	44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	42	6.6	6.7	6.6	7.2	7.3	7.4	7.5	7.6	7.3	7.0	6.8	6.8	7.1
	MIDNIGHT-MIDNIGHT (OKTAS)	33	6.5	6.6	6.6	7.1	7.3	7.4	7.5	7.6	7.2	6.8	6.7	6.7	7.0
	MEAN NO. DAYS WITH:														
CLEAR	42	2.4	1.9	2.1	0.6	0.5	0.4	0.2	0.2	0.3	0.7	1.1	1.6	12.0	
PARTLY CLOUDY	42	5.4	4.6	5.9	3.8	3.2	2.7	2.3	1.9	3.5	5.1	5.4	5.2	49.0	
CLOUDY	42	23.1	21.8	23.1	25.6	27.3	26.9	27.9	28.3	25.6	24.7	23.0	23.6	300.9	
PR	MEAN STATION PRESSURE (IN)	26	29.40	29.47	29.50	29.60	29.70	29.80	29.90	29.80	29.61	29.60	29.49	29.42	29.61
	MEAN SEA-LEVEL PRES. (IN)	15	29.51	29.64	29.68	29.75	29.82	29.85	29.99	29.94	29.75	29.73	29.66	29.51	29.74
WINDS	MEAN SPEED (MPH)	26	17.6	17.8	17.5	17.4	16.6	15.9	15.5	16.4	16.5	17.0	17.5	17.7	16.9
	PREVAIL. DIR (TENS OF DEGS)	18	14	14	14	34	15	15	15	15	15	34	25	15	15
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	44	71	73	71	61	60	63	54	64	75	60	66	64	75
	DIR. (TENS OF DEGS)		01	01	15	01	01	01	01	01	01	02	01	01	01
	YEAR OF OCCURRENCE		1985	1967	1998	1995	1985	1959	1972	1985	1988	1978	1967	1960	SEP 1988
	PEAK GUST:														
SPEED (MPH)	14	85	86	87	85	76	69	58	81	95	87	75	85	95	
DIR. (TENS OF DEGS)		SE	SE	SE	SE	SE	SE	S	SE	S	S	SE	SE	S	
YEAR OF OCCURRENCE		1987	1997	1998	1995	1997	1993	1992	1985	1988	1995	1993	1994	SEP 1988	
PRECIPITATION	NORMAL (IN)	30	2.84	2.27	2.16	1.97	2.29	2.10	2.52	3.24	4.41	4.34	4.19	3.67	36.00
	MAXIMUM MONTHLY (IN)	53	8.46	7.87	4.70	6.55	6.37	6.98	6.13	9.97	9.79	8.02	8.94	7.31	9.97
	YEAR OF OCCURRENCE		1948	1944	1977	1979	1958	1952	1982	1951	1965	1968	1960	1983	AUG 1951
	MINIMUM MONTHLY (IN)	53	0.60	0.08	0.41	0.02	0.54	0.12	0.28	1.10	0.91	1.43	1.15	0.19	0.02
	YEAR OF OCCURRENCE		1956	1950	1972	1948	1992	1962	1950	1975	1952	1997	1975	1956	APR 1948
	MAXIMUM IN 24 HOURS (IN)	53	2.49	2.95	2.06	2.19	2.22	3.20	1.77	2.17	3.43	4.90	3.43	2.44	4.90
	YEAR OF OCCURRENCE		1948	1996	1976	1993	1958	1996	1986	1951	1965	1968	1972	1978	OCT 1968
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	19.9	17.8	18.2	18.3	17.6	16.1	16.4	19.9	21.3	23.1	22.3	21.3	232.2	
PRECIPITATION ≥ 1.00	30	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.7	0.5	0.4	0.4	3.5	
SNOWFALL	NORMAL (IN)	30	11.9	12.5	11.1	6.4	2.0	0.*	0.0	0.0	0.*	3.7	8.5	10.6	66.7
	MAXIMUM MONTHLY (IN)	48	34.6	54.3	28.6	19.5	9.3	0.5	T	T	0.2	15.6	27.4	30.0	54.3
	YEAR OF OCCURRENCE		1982	1984	1985	1976	1971	1971	1976	1998	1972	1968	1983	1997	FEB 1984
	MAXIMUM IN 24 HOURS (IN)	48	18.0	17.7	10.1	6.0	4.0	2.6	T	T	0.2	11.4	21.4	9.4	21.4
	YEAR OF OCCURRENCE		1982	1984	1994	1956	1986	1971	1976	1998	1972	1968	1983	1975	NOV 1983
	MAXIMUM SNOW DEPTH (IN)	42	20	29	23	10	3	0	0	0	0	13	12	23	29
	YEAR OF OCCURRENCE		1986	1984	1984	1988	1971					1968	1975	1997	FEB 1984
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	4.2	4.3	3.8	2.0	0.6	0.0	0.0	0.0	0.0	1.3	2.6	3.9	22.7	

PRECIPITATION (inches) 1998 COLD BAY, AK (CDB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	3.75	2.33	1.92	1.09	3.44	2.52	2.01	5.02	5.18	3.90	2.97	2.33	36.46
1970	2.11	4.15	3.32	3.83	2.06	2.99	3.86	3.82	5.62	5.82	2.89	5.94	46.41
1971	1.34	2.17	0.59	0.43	3.75	6.67	2.27	2.76	3.86	3.28	5.11	4.87	37.10
1972	4.08	1.09	0.41	3.09	2.06	2.91	1.82	3.84	1.30	3.91	6.96	6.49	37.96
1973	1.97	1.60	1.87	1.30	1.06	0.78	1.31	2.16	3.07	4.80	2.45	2.67	25.04
1974	2.96	2.72	0.72	1.69	3.12	0.92	1.93	2.63	2.55	2.15	3.78	1.73	26.90
1975	3.12	4.93	2.85	2.53	0.88	3.03	2.55	1.10	4.23	3.18	1.15	5.03	34.58
1976	1.88	2.88	3.76	2.09	0.94	2.69	1.92	2.01	2.38	5.63	2.51	2.89	31.58
1977	4.82	2.36	4.70	2.38	1.71	1.14	2.89	3.32	2.63	5.12	6.85	3.55	41.47
1978	3.70	1.74	2.22	5.42	3.63	2.84	5.67	2.88	3.82	7.67	6.67	6.89	53.15
1979	4.10	0.78	4.65	6.55	4.92	1.98	2.02	5.33	5.31	7.14	7.57	2.21	52.56
1980	3.51	1.69	3.52	1.71	4.22	3.67	2.68	3.95	5.23	4.42	2.88	2.24	39.72
1981	2.34	4.45	2.34	1.30	3.09	1.75	2.64	5.73	2.25	6.51	3.11	3.16	38.67
1982	5.41	1.13	3.45	1.33	4.13	2.93	6.13	2.17	6.44	2.41	5.12	3.10	43.75
1983	1.58	0.66	0.88	3.53	1.59	1.31	2.71	4.06	4.41	4.82	5.69	7.31	38.55
1984	2.30	2.82	1.56	1.79	1.20	1.45	1.77	1.48	2.87	3.64	7.61	3.19	31.68
1985	3.29	2.42	2.85	1.01	2.45	2.19	2.27	5.47	7.14	6.59	7.72	4.95	48.35
1986	2.05	2.23	0.55	1.12	2.02	1.91	2.48	2.63	7.37	3.03	5.08	4.94	35.41
1987	3.17	3.15	3.18	1.94	1.52	4.00	1.80	2.56	4.25	5.60	3.17	3.69	38.03
1988	3.70	2.91	0.89	1.81	2.70	1.69	1.12	3.03	3.90	3.28	3.97	6.37	35.37
1989	1.68	4.02	0.52	2.20	2.21	2.48	1.40	3.20	7.77	4.39	2.60	3.81	36.28
1990	3.99	2.18	1.84	1.16	3.23	1.38	2.13	2.89	6.55	4.21	2.06	5.96	37.58
1991	2.74	2.95	4.33	1.96	2.47	3.78	0.45	4.17	5.82	5.83	1.55	3.32	39.37
1992	1.57	0.68	1.22	0.26	0.54	3.27	2.36	2.86	2.21	2.59	4.42	6.20	28.18
1993	5.32	3.04	1.85	3.98	2.63	3.64	2.03	4.94	5.86	4.48	6.79	4.28	48.84
1994	3.01	2.02	4.15	1.39	4.01	1.89	3.16	3.73	6.17	3.83	4.65	4.75	42.76
1995	2.31	2.66	1.83	2.06	2.12	2.05	1.91	2.59	5.54	5.01	1.19	1.80	31.07
1996	3.88	6.97	2.39	2.73	2.81	6.81	5.29	2.41	3.97	2.65	5.28	1.75	46.94
1997	2.23	2.09	1.09	0.66	3.22	3.36	1.29	6.32	7.08	1.43	6.15	3.81	38.73
1998	0.60	0.50	4.64	5.08	5.01	2.70	3.45	5.02	6.23	3.93	4.57	2.66	44.39
POR= 53 YRS	2.76	2.57	2.14	1.91	2.37	2.36	2.36	3.66	4.30	4.30	4.27	3.37	36.37

WBAN : 25624

AVERAGE TEMPERATURE (°F) 1998 COLD BAY, AK (CDB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	31.8	28.0	32.5	34.5	41.7	46.9	53.2	53.4	50.2	42.9	33.5	31.3	40.0
1970	22.4	28.1	31.8	31.8	40.8	47.8	51.3	50.2	46.9	40.0	37.6	30.5	38.3
1971	22.1	26.0	20.2	28.0	34.3	40.5	47.8	48.5	44.5	38.7	32.4	32.4	34.6
1972	27.2	21.4	16.3	29.5	38.6	41.6	48.6	50.0	47.9	39.8	34.3	30.4	35.5
1973	22.9	30.6	29.0	31.5	36.0	42.5	47.5	50.0	46.4	38.5	37.5	30.1	36.9
1974	29.7	19.0	28.9	32.2	41.4	45.8	49.9	53.2	49.2	40.4	34.2	27.5	37.6
1975	24.4	23.7	26.8	32.0	38.4	46.2	50.5	52.5	46.4	39.3	30.1	27.9	36.5
1976	25.5	23.9	22.0	27.2	36.6	44.6	49.7	50.8	45.3	39.1	30.5	28.2	35.3
1977	35.3	33.5	30.7	31.3	39.3	49.6	54.0	53.6	50.1	38.9	31.2	29.4	39.7
1978	33.4	28.4	30.8	37.9	40.5	47.0	49.6	54.3	48.8	40.1	38.1	35.2	40.3
1979	35.1	28.4	35.4	40.8	43.4	50.6	52.3	51.9	49.0	41.9	35.0	26.7	40.9
1980	23.5	25.4	33.7	35.6	41.4	45.9	52.9	51.5	48.1	40.3	36.4	32.1	38.9
1981	30.9	29.4	35.9	38.4	44.8	47.6	52.9	52.2	48.1	40.8	33.8	30.7	40.5
1982	29.8	27.1	33.9	32.1	38.0	45.0	46.8	50.2	45.1	37.5	35.3	30.5	37.6
1983	24.6	31.5	33.5	36.8	41.7	48.4	51.6	52.2	47.3	39.7	34.6	37.5	40.0
1984	31.2	18.7	33.7	31.6	38.0	47.0	49.7	54.7	49.7	40.8	37.0	37.3	39.1
1985	36.1	27.9	30.1	26.8	38.3	42.5	50.6	50.8	49.5	39.6	38.9	35.6	38.9
1986	24.4	28.4	27.0	32.2	38.0	44.7	51.7	51.2	49.8	42.2	37.0	34.4	38.4
1987	30.5	31.2	33.6	34.2	38.8	44.5	50.9	52.8	46.9	41.0	30.0	28.3	38.6
1988	31.2	30.2	26.1	31.1	40.3	46.0	51.0	51.1	46.9	40.5	32.5	30.9	38.2
1989	22.3	35.0	31.5	34.3	40.6	46.0	50.9	53.3	49.8	42.3	32.1	31.3	39.1
1990	30.4	26.3	32.1	36.4	41.4	46.9	50.1	52.2	47.6	40.3	34.6	36.4	39.6
1991	31.1	22.8	34.3	35.6	40.0	45.5	50.8	51.6	49.5	42.0	36.0	29.7	39.1
1992	29.1	25.4	29.9	33.1	40.3	48.0	49.9	50.6	45.8	38.9	33.0	32.4	38.0
1993	27.0	31.1	33.1	37.4	41.9	47.2	52.0	52.7	49.0	42.2	38.2	31.7	40.3
1994	31.8	31.4	26.4	33.7	39.2	45.6	50.7	53.2	47.7	39.0	35.2	29.8	38.6
1995	26.4	29.9	27.5	32.7	40.5	46.3	50.9	50.5	50.0	41.0	32.1	34.0	38.5
1996	30.0	29.4	36.8	35.8	43.2	45.5	51.0	51.7	46.0	39.7	37.2	29.9	39.7
1997	28.4	31.8	28.5	34.9	44.2	48.1	53.4	55.2	48.3	40.8	35.5	25.8	39.6
1998	24.5	27.9	35.6	37.1	40.5	47.4	51.2	51.3	46.7	39.4	34.4	28.1	38.7
POR= 54 YRS	28.4	28.0	29.5	33.3	39.7	45.6	50.3	51.5	47.4	39.8	34.4	30.2	38.2

WBAN : 25624

HEATING DEGREE DAYS (base 65°F) 1998 COLD BAY, AK (CDB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	361	353	436	680	939	1039	1311	1025	1024	987	745	512	9412
1970-71	416	452	538	766	815	1059	1323	1086	1381	1103	945	728	10612
1971-72	527	504	608	809	973	1004	1165	1260	1503	1056	814	697	10920
1972-73	500	457	505	774	915	1065	1295	960	1105	998	895	668	10137
1973-74	537	459	549	815	817	1076	1089	1281	1113	977	725	569	10007
1974-75	460	360	466	756	917	1157	1252	1149	1176	984	816	557	10050
1975-76	443	380	553	790	1038	1145	1217	1184	1324	1125	877	603	10679
1976-77	463	434	585	797	1029	1134	914	874	1057	1006	789	456	9538
1977-78	334	344	441	805	1006	1095	972	1017	1053	808	750	535	9160
1978-79	471	325	481	766	799	917	921	1020	910	720	661	425	8416
1979-80	387	400	474	712	893	1179	1279	1143	964	876	726	569	9602
1980-81	368	414	499	757	851	1014	1051	990	898	791	621	512	8766
1981-82	368	390	500	742	929	1058	1083	1056	956	980	828	592	9482
1982-83	559	451	590	848	884	1062	1246	934	969	838	718	493	9592
1983-84	408	388	523	779	907	847	1045	1338	967	995	834	533	9564
1984-85	467	310	452	744	834	854	889	1033	1075	1140	821	669	9288
1985-86	440	434	455	779	775	905	1251	1018	1173	976	832	605	9643
1986-87	406	423	448	699	834	939	1063	943	965	916	806	607	9049
1987-88	431	373	538	737	1042	1131	1043	1003	1203	1014	754	565	9834
1988-89	427	423	537	755	970	1050	1318	834	1034	917	751	564	9580
1989-90	432	353	447	695	978	1037	1063	1077	1010	853	727	535	9207
1990-91	455	390	516	757	905	879	1046	1178	945	873	771	578	9293
1991-92	432	410	457	705	864	1089	1103	1140	1083	947	759	503	9492
1992-93	463	436	570	798	952	1001	1170	941	983	824	706	528	9372
1993-94	398	373	472	699	797	1022	1021	935	1187	935	796	574	9209
1994-95	435	360	510	796	886	1082	1192	977	1155	962	753	555	9663
1995-96	430	443	444	737	978	955	1077	1027	865	872	670	576	9074
1996-97	426	406	566	777	828	1081	1128	925	1123	896	641	501	9298
1997-98	356	296	491	746	876	1208	1248	1030	903	829	752	520	9255
1998-	422	417	546	785	911	1135							

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COOLING DEGREE DAYS (base 65°F) 1998 COLD BAY, AK (CDB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	0	0	0	0	0	0	0	0	0	0
1970	0	0	0	0	0	0	0	1	0	0	0	0	1
1971	0	0	0	0	0	0	0	0	0	0	0	0	0
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
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

SNOWFALL (inches) 1998 COLD BAY, AK (CDB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0.0	0.0	0.0	2.2	4.5	7.2	9.4	8.6	10.6	6.8	6.8	0.0	56.1
1970-71	0.0	0.0	0.0	1.0	3.3	8.8	19.9	10.5	3.9	6.1	9.3	0.5	63.3
1971-72	0.0	0.0	0.0	T	2.1	9.3	15.6	9.8	4.2	9.9	1.4	T	52.3
1972-73	0.0	0.0	0.2	T	4.0	14.6	10.6	11.5	9.8	10.1	3.5	T	64.3
1973-74	0.0	0.0	T	3.9	2.4	13.0	6.5	17.1	5.9	4.5	1.8	0.0	55.1
1974-75	0.0	0.0	0.0	0.4	10.8	11.7	6.2	13.5	20.5	8.6	2.5	0.0	74.2
1975-76	0.0	0.0	0.0	3.7	12.3	20.4	16.2	16.9	13.9	19.5	0.8	0.0	103.7
1976-77	T	0.0	0.0	6.9	10.4	24.2	4.8	7.5	27.0	7.1	3.6	0.0	91.5
1977-78	0.0	0.0	0.0	9.4	15.0	4.8	14.4	13.9	16.4	3.5	0.1	0.0	77.5
1978-79	0.0	0.0	T	6.4	2.7	9.7	12.4	4.4	11.5	2.1	0.3	0.0	49.5
1979-80	0.0	0.0	T	0.3	15.2	10.5	14.1	11.1	23.7	13.6	1.1	0.0	89.6
1980-81	0.0	0.0	T	2.2	7.6	9.6	10.4	12.0	11.8	2.1	1.4	0.0	57.1
1981-82	0.0	0.0	T	5.5	13.2	14.0	34.6	5.8	15.7	5.6	1.0	0.0	95.4
1982-83	0.0	0.0	T	0.4	3.3	17.6	14.2	10.7	9.1	5.7	T	0.0	61.0
1983-84	0.0	0.0	T	4.0	27.4	2.6	14.3	54.3	4.3	7.6	1.4	0.0	115.9
1984-85	0.0	0.0	0.0	5.3	10.6	6.9	4.2	8.2	28.6	8.8	1.5	0.4	74.5
1985-86	0.0	0.0	T	2.8	1.1	12.1	24.2	11.3	6.1	5.3	6.2	0.0	69.1
1986-87	0.0	0.0	0.0	T	7.6	7.2	12.4	10.5	20.3	7.6	1.0	T	66.6
1987-88	0.0	0.0	0.1	0.7	8.1	14.3	11.0	5.9	7.5	11.6	0.1	0.0	59.3
1988-89	0.0	0.0	0.0	0.3	15.2	22.1	11.2	13.7	3.1	10.4	0.3	0.0	76.3
1989-90	0.0	0.0	0.0	0.1	14.0	6.9	16.4	18.7	8.8	3.9	0.6	0.0	69.4
1990-91	0.0	0.0	T	4.7	10.6	6.3	6.5	13.3	8.4	2.8	0.5	T	53.1
1991-92	0.0	0.0	0.0	0.8	3.3	19.9	7.2	5.0	8.0	1.9	1.8	0.0	47.9
1992-93	0.0	0.0	T	3.4	9.0	6.9	6.8	8.6	2.3	2.6	T	0.0	39.6
1993-94	0.0	0.0	T	T	5.9	16.0	5.9	6.0	27.9	3.2	2.5	0.0	67.4
1994-95	0.0	0.0	T	4.1	13.8	10.7	13.2	10.1	10.8	4.7	1.0	0.0	68.4
1995-96	0.0	0.0	0.0	T	3.3	T	8.1	19.3	2.1	5.0	T	T	37.8
1996-97	0.0	0.0	0.2	0.3	3.5	8.3	8.9	3.3	6.9	4.3	0.0	0.0	35.7
1997-98	0.0	0.0	T	0.6	10.3	30.0	8.9	4.0	10.2	6.3	1.0	0.0	71.3
1998-	0.0	T	0.0	8.2	20.4	12.3							
POR= 47 YRS	T	0.0	0.0	3.0	8.2	10.5	10.2	10.9	10.2	5.7	1.7	0.0	60.4

WBAN : 25624

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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1998
COLD BAY,
ALASKA (CDB)

The station at Cold Bay is located approximately 30 miles from the end of the Alaskan Peninsula on the northwest side of Cold Bay. Ten miles south-southwest of the station, Frosty Peak rises to an elevation of 6,700 feet. Across the bay to the east several mountains rise to elevations in excess of 5,000 feet. The mountains to the east and southwest provide a sheltering effect from winds and precipitation approaching from these directions. Winds reaching the station from southwesterly or easterly directions rarely exceed 15 mph. The open bay area to the south-southeastward tends to provide a funneling effect upon all winds approaching the Cold Bay area from the southwest to the southeast. From west to the northeast the land is relatively flat with numerous lakes and swamps. Winds from northerly directions are influenced very little by this flat terrain.

The high frequency of cyclonic storms crossing the Northern Pacific and the Bering Sea are the dominant factors in the weather at Cold Bay. These storms account for the high winds and the frequent occurrences of low ceilings and low visibilities encountered at this station. The winds generally result from the strong pressure gradient developing between the Pacific High and the cyclonic storms in the Northern Pacific and Bering Sea.

The climate at Cold Bay is basically maritime, due to the nearness to extensive open ocean areas, and temperature extremes, both seasonal and diurnal,

are generally confined to fairly narrow limits. Differences between maximum and minimum temperatures for all individual months average less than 10 degrees. Although it is practically impossible for cold, continental air masses to reach the Cold Bay area by moving overland along the somewhat narrow Alaskan Peninsula, air overlying the frozen ocean surface of the Bering Sea may take on continental characteristics and bring rather cold temperatures to the area. Although below-zero readings have been recorded from December to March, inclusive, below-zero readings are infrequent.

Due to the moderating effects of nearby ocean areas, it is difficult to define the seasonal periods at Cold Bay. The beginning of spring is late. The vegetation does not begin to grow until late May or early June. August is regarded as the midsummer period and autumn arrives in early October. The greatest frequency of fog usually comes in the summer season, with the foggy period extending from mid-July to mid-September. During the winter months visibilities are frequently restricted due to blowing snow. Precipitation is frequent but not abundant. The shortest day of the year at Cold Bay has 7 hours and 7 minutes of possible sunshine, the longest day has 17 hours and 27 minutes of possible sunshine.

STATION LOCATION

COLD BAY, ALASKA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											REMARKS					
						SEA LEVEL	GROUND															
							WIND	1	2	3	4	5	6	7	8	9		10				
Fort Randall	2/17/42	4/1/48	NA	55° 12'	162°43'	98																Change of name
Thornborough Air Force Base	4/1/48	10/30/53	No Change	55° 12'	162°43'	98																
T-2 Headquarters Bldg. Air Force Base	10/30/53	6/30/54	0.25 mi. NE	55° 12'	162°43'	85																
Northwest Airlines Radio Building	7/1/54	8/4/55	0.25 mi. SW	55° 12'	162°43'	98	20		5	5												
Cold Bay Airport	8/4/55	4/21/61	0.25 mi. N	55° 12'	162°43'	90	28		6	6												WB station established. a - Anemometer raised, wind vane at 35' effective 3/6/56.
IFSS Building #400 Cold Bay Airport	4/21/61	Present	2000 ft. SSE	55° 12'	162°43'	94	85		6	6	NA	NA	4	4	NA	NA						b - Instrument shelter moved 106' N to lower ground 9/1/62. c - Moved to runway intersection 11/13/62. d - Minor relocation 11/18/62. e - Commissioned 515' SW of thermometer site 8/9/63. f - Effective 8/9/63. g - Removed 8/8/77. h - Effective 8/8/77. i - Moved 231' S 5/10/83. j - Type change 10/2/85. S ASOS C ommisioned 07/01/98

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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