

2003

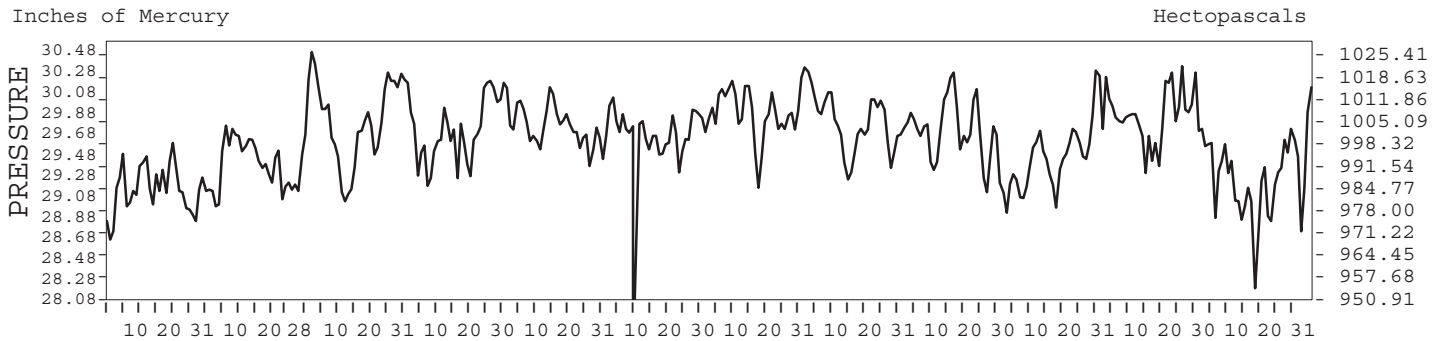
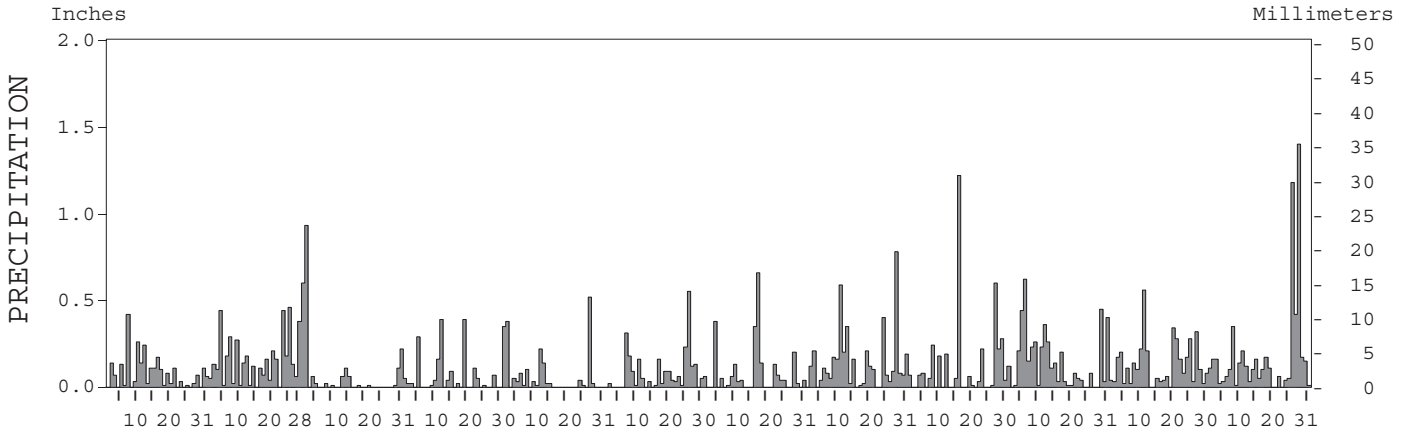
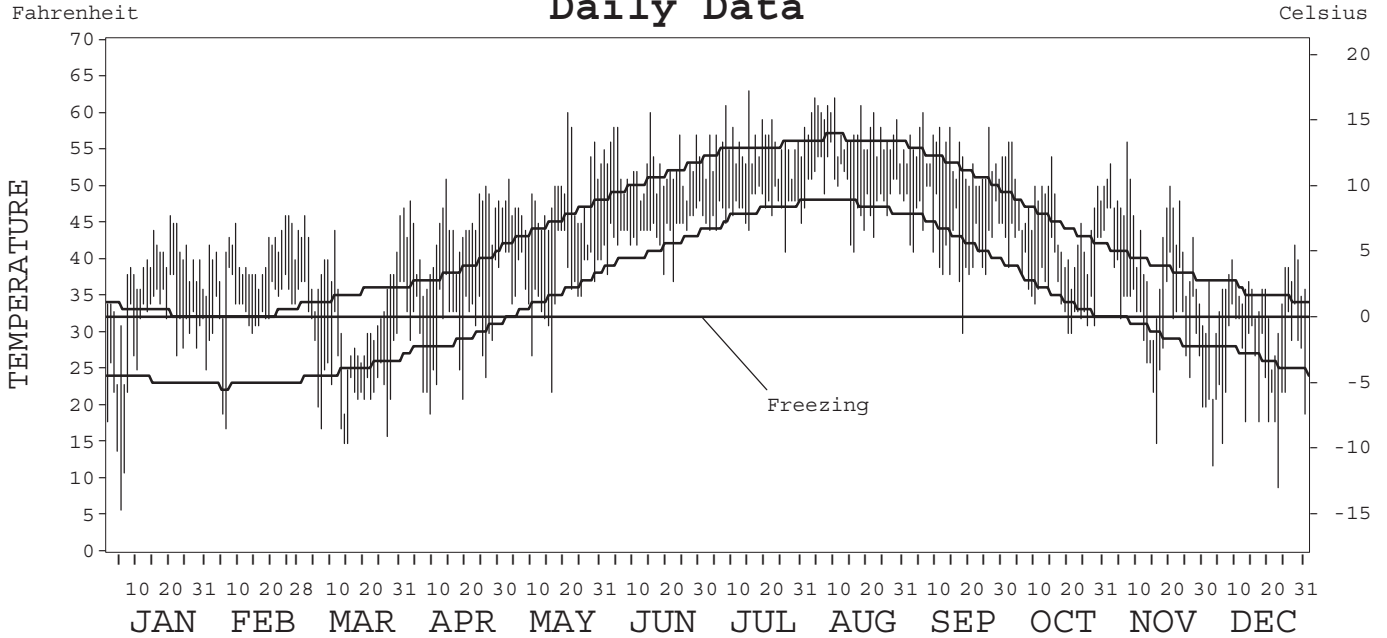
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-968X

COLD BAY,
ALASKA (CDB)

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 2003

COLD BAY, AK (CDB)

LATITUDE: 55° 12' 24" N LONGITUDE: 162° 43' 18" W ELEVATION (FT): GRND: 95 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	37.9	40.7	34.4	43.8	48.3	52.6	55.5	57.5	54.0	46.4	42.1	34.5	45.6
	HIGHEST DAILY MAXIMUM	46	46	46	51	60	60	63	62	60	56	56	42	63
	DATE OF OCCURRENCE	20	25+	31+	14	21	15	15	10+	06	03+	07	28	JUL 15
	MEAN DAILY MINIMUM	28.5	32.7	24.8	30.5	37.0	43.5	46.8	49.1	42.7	37.2	32.0	24.3	35.8
	LOWEST DAILY MINIMUM	6	17	15	19	22	37	41	41	30	30	15	9	6
	DATE OF OCCURRENCE	05	06	15+	09	16	22	26	16	18	21+	16	23	JAN 05
	AVERAGE DRY BULB	33.2	36.7	29.6	37.2	42.7	48.1	51.2	53.3	48.4	41.8	37.1	29.4	40.7
	MEAN WET BULB	32.3	35.4	27.5	35.0	39.8		49.3	51.5	46.7	40.2	35.4	29.3	
	MEAN DEW POINT	30.4	33.6	22.7	31.0	36.4		47.8	50.1	44.3	37.7	32.9	27.0	
	NUMBER OF DAYS WITH:													
MAXIMUM ≥ 70°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM ≤ 32°	3	1	13	0	0	0	0	0	0	0	4	8	29	
MINIMUM ≤ 32°	20	11	26	15	4	0	0	0	1	5	14	28	124	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	976	785	1091	825	685	501	422	356	494	713	829	1096	8773
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	MEAN (PERCENT)	89	88	75	78	81	85	91	90	85	84	85	87	85
	HOUR 03 LST	90	90	80	83	86	90	93	93	91	85	84	88	88
	HOUR 09 LST	88	90	73	80	83	87	92	93	90	87	88	87	86
	HOUR 15 LST	88	87	70	69	72	79	83	84	76	82	83	86	80
	HOUR 21 LST	89	86	79	79	80	85	91	90	87	85	87	88	86
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	7	0	1	0	1	1	6	3	1	1	1	4	26
	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.)	29.13	29.37	29.78	29.71	29.76		29.88	29.77	29.65	29.52	29.81	29.23	
	MEAN SEA-LEVEL PRESS. (IN.)	29.24	29.48	29.89	29.82	29.87		29.99	29.88	29.76	29.63			
WINDS	RESULTANT SPEED (MPH)	4.7	9.1	9.5	4.1	1.7		2.6	3.6	2.0		6.9	0.9	
	RES. DIR. (TENS OF DEGS.)	05	14	35	21	16		27	19	03		24	23	
	MEAN SPEED (MPH)	14.3	14.1	16.5	16.5	16.8	16.0	12.2	14.6	11.2	16.9	17.4	15.9	15.2
	PREVAIL. DIR. (TENS OF DEGS.)	01	13	34	14	14	14	28	14	13	34	25	14	14
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	49	51	62	48	40	41	47	39	37	54	56	49	62
	DIR. (TENS OF DEGS.)	11	13	15	21	14	13	14	13	07	11	21	14	15
	DATE OF OCCURRENCE	20	25	02	14	07	16	22	06	29	29	07	08+	MAR 02
	MAXIMUM 5-SECOND WIND:													
SPEED (MPH)	59	60	75	55	48	47	56	45	45	67	69	61	75	
DIR. (TENS OF DEGS.)	11	13	15	20	14	14	13	14	07	12	21	34	15	
DATE OF OCCURRENCE	21	25	02	14	07	16	22	24+	29	29	07	03	MAR 02	
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	2.47	4.35	2.23	1.76	2.03	2.44	2.45	4.43	3.62	4.56	3.86	5.67	39.87
	GREATEST 24-HOUR (IN.)	0.42	0.46	0.93	0.39	0.52	0.55	0.66	0.78	1.22	0.62	0.56	1.57	1.57
	DATE OF OCCURRENCE	07	25	02	19+	27	26	17	28	16	06	11	28-29	DEC 28-29
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	24	26	14	16	17	22	18	26	18	26	27	28	262
PRECIPITATION ≥ 0.10	12	18	5	5	6	8	7	15	8	15	15	18	132	
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	1	0	0	2	3	
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	9.5	2.8	6.4	2.5	0.8	0.0	0.0	0.0	T	2.9	12.1	23.8	60.8
	GREATEST 24-HOUR (IN.)	2.1	0.9	1.8	1.2	0.5	0.0	0.0	0.0	T	0.9	3.1	3.0	3.1
	DATE OF OCCURRENCE	31+	14	14	19	13				19	26+	25	03	NOV 25
	MAXIMUM SNOW DEPTH (IN.)	7	2	3	T	T	0	0	0	0	T	2	7	7
	DATE OF OCCURRENCE	07+	01	18+	16+	15+					21	30+	25+	DEC 25+
NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	4	0	3	1	0	0	0	0	0	0	4	11	23	

NORMALS, MEANS, AND EXTREMES

COLD BAY, AK (CDB)

LATITUDE: 55° 12' 24" N LONGITUDE: 162° 43' 18" W ELEVATION (FT): GRND: 95 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	32.8	32.3	35.1	38.2	44.9	50.8	55.1	56.2	52.5	45.0	39.1	35.5	43.1
	MEAN DAILY MAXIMUM	48	32.9	32.7	34.8	38.5	44.8	50.7	55.0	55.9	52.2	44.6	39.2	34.7	43.0
	HIGHEST DAILY MAXIMUM	59	51	50	56	60	67	72	77	78	76	69	59	54	78
	YEAR OF OCCURRENCE		1993	1991	1974	1948	1979	2001	1960	1948	1985	1964	1986	1990	AUG 1948
	MEAN OF EXTREME MAXS.	48	42.9	42.6	44.7	47.7	54.7	60.5	64.6	65.3	60.0	54.4	48.8	44.6	52.6
	NORMAL DAILY MINIMUM	30	23.5	22.9	24.9	28.8	34.8	41.1	46.1	47.4	43.0	35.1	29.9	26.5	33.7
	MEAN DAILY MINIMUM	48	23.9	23.5	24.9	28.9	34.9	41.1	46.0	47.2	43.1	35.0	30.1	26.0	33.7
	LOWEST DAILY MINIMUM	60	-13	-9	-13	4	18	29	33	32	26	6	1	-1	-13
	YEAR OF OCCURRENCE		2000	1947	1971	1976	1973	1952	1982	1999	1992	1999	1963	1979	JAN 2000
	MEAN OF EXTREME MINS.	48	6.5	6.5	9.9	18.0	26.4	34.5	40.2	39.8	33.2	24.7	17.9	10.8	22.4
	NORMAL DRY BULB	30	28.2	27.6	30.0	33.5	39.8	45.9	50.6	51.8	47.8	40.0	34.5	31.0	38.4
	MEAN DRY BULB	48	28.4	28.0	29.8	33.8	40.0	45.9	50.5	51.5	47.7	39.8	34.7	30.3	38.4
	MEAN WET BULB	19	27.9	27.9	29.1	32.1	37.6	43.6	48.6	50.0	45.9	38.7	33.8	30.2	37.1
	MEAN DEW POINT	19	25.1	25.0	26.0	29.1	34.6	41.5	47.0	48.4	43.7	35.8	30.9	27.6	34.6
	NORMAL NO. DAYS WITH: MAXIMUM $\geq 70^\circ$	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 $\leq 32^\circ$	30	11.6	11.1	8.5	5.0	0.4	0.0	0.0	0.0	0.0	0.5	4.0	8.2	49.3	
MINIMUM $\leq 32^\circ$	30	24.1	22.7	24.0	20.5	9.0	0.5	0.0	*	0.5	9.1	18.6	21.8	150.8	
MINIMUM $\leq 0^\circ$	30	0.7	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.0	
H/C	NORMAL HEATING DEG. DAYS	30	1142	1048	1069	945	780	573	447	409	518	774	915	1054	9674
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	85	85	84	83	83	86	89	89	86	83	84	85	85
	HOUR 03 LST	30	86	86	86	87	89	92	94	94	90	86	85	86	88
	HOUR 09 LST	30	85	86	86	85	85	87	91	91	88	85	85	86	87
	HOUR 15 LST	30	83	82	78	77	75	78	82	83	80	77	82	84	80
	HOUR 21 LST	30	86	85	85	85	84	86	89	91	88	85	85	86	86
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY $\leq 1/4$ MI)	49	2.2	1.6	2.1	1.4	1.5	2.2	3.7	3.3	1.0	0.3	0.7	1.9	21.9
	THUNDERSTORMS	49	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)	31	29.39	29.46	29.51	29.62	29.72	29.80	29.90	29.81	29.62	29.59	29.47	29.39	29.61
	MEAN SEA-LEVEL PRES. (IN)	19	29.53	29.62	29.70	29.78	29.83	29.85	29.99	29.94	29.76	29.71	29.63	29.49	29.74
WINDS	MEAN SPEED (MPH)	31	17.5	17.8	17.5	17.3	16.5	15.6	15.3	16.0	16.1	16.9	17.4	17.5	16.8
	PREVAIL. DIR (TENS OF DEGS)	23	14	14	14	14	14	14	14	14	14	33	14	14	14
	MAXIMUM 2-MINUTE: SPEED (MPH)	5	66	71	62	53	51	51	53	47	47	54	66	60	71
	DIR. (TENS OF DEGS)		15	13	15	13	11	13	14	14	26	11	12	12	13
	YEAR OF OCCURRENCE		2001	2000	2003	1999	2001	2000	2001	2000	2000	2003	2000	2000	FEB 2000
	MAXIMUM 5-SECOND: SPEED (MPH)	5	78	79	75	63	59	58	60	60	55	67	81	75	81
	DIR. (TENS OF DEGS)		13	13	15	13	11	14	14	14	26	12	12	13	12
YEAR OF OCCURRENCE		2001	2000	2003	1999	2001	2000	2001	2000	2000	2003	2000	2000	NOV 2000	
PRECIPITATION	NORMAL (IN)	30	3.08	2.59	2.48	2.30	2.65	2.89	2.53	3.59	4.51	4.54	4.79	4.33	40.28
	MAXIMUM MONTHLY (IN)	58	8.46	7.87	5.56	6.55	6.84	8.35	6.13	9.97	9.79	10.17	12.22	13.94	13.94
	YEAR OF OCCURRENCE		1948	1944	2000	1979	2002	2000	1982	1951	1965	2000	2000	2000	DEC 2000
	MINIMUM MONTHLY (IN)	58	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)	58	3.18	2.95	2.35	2.19	2.30	3.20	1.77	2.17	3.43	4.90	3.78	3.63	4.90
	YEAR OF OCCURRENCE		1999	1996	2002	1993	2000	1996	1986	1951	1965	1968	2000	2000	OCT 1968
	NORMAL NO. DAYS WITH: PRECIPITATION ≥ 0.01	30	20.8	18.4	19.6	19.1	18.7	18.0	17.9	20.8	21.7	23.4	23.1	22.9	244.4
	PRECIPITATION ≥ 1.00	30	0.3	0.2	0.1	0.1	0.3	0.3	0.2	0.5	0.6	0.5	0.6	0.6	4.3
SNOWFALL	NORMAL (IN)	30	13.9	13.3	12.9	7.0	1.7	0.*	0.*	0.0	0.*	3.0	9.9	12.6	74.3
	MAXIMUM MONTHLY (IN)	53	57.1	54.3	44.6	19.5	9.3	0.5	T	T	0.2	15.6	27.4	30.0	57.1
	YEAR OF OCCURRENCE		2000	1984	1999	1976	1971	1971	1976	1998	1972	1968	1983	1997	JAN 2000
	MAXIMUM IN 24 HOURS (IN)	53	18.0	17.7	10.1	9.0	4.0	2.6	T	T	0.2	11.4	21.4	9.4	21.4
	YEAR OF OCCURRENCE		1982	1984	1994	2001	1986	1971	1976	1998	1972	1968	1983	1975	NOV 1983
	MAXIMUM SNOW DEPTH (IN)	47	46	35	32	28	3	0	0	0	0	13	12	23	46
	YEAR OF OCCURRENCE		2000	2000	1999	1999	1971					1968	1975	1997	JAN 2000
	NORMAL NO. DAYS WITH: SNOWFALL ≥ 1.0	30	4.2	3.9	4.2	2.1	0.4	0.0	0.0	0.0	0.0	1.0	2.9	4.6	23.3

PRECIPITATION (inches) 2003 COLD BAY, AK (CDB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	5.52	1.37	3.91	3.02	1.88	3.13	1.90	6.27	2.34	4.49	4.73	2.19	40.75
2000	4.23	7.54	5.56	4.43	4.42	8.35	4.66	6.11	2.69	10.17	12.22	13.94	84.32
2001	5.09	3.97	3.48	4.61	0.92	3.96	3.47	2.28	3.86	7.54	3.61	2.93	45.72
2002	6.25	3.31	5.32	1.92	6.84	1.88	1.34	3.58	4.23	8.65	5.92	5.11	54.35
2003	2.47	4.35	2.23	1.76	2.03	2.44	2.45	4.43	3.62	4.56	3.86	5.67	39.87
POR= 58 YRS	2.95	2.72	2.32	2.03	2.46	2.50	2.41	3.75	4.23	4.56	4.43	3.60	37.96

WBAN : 25624

AVERAGE TEMPERATURE (°F) 2003 COLD BAY, AK (CDB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
1999	27.3	19.9	25.2	32.3	37.7	44.9	50.4	49.7	46.8	36.6	32.5	21.2	35.4
2000	19.4	33.0	31.6	33.4	38.6	46.9	49.3	51.8	47.1	40.3	36.8	35.6	38.7
2001	29.5	32.7	30.2	35.9	37.0	47.1	51.8	53.1	47.3	39.2	34.1	26.6	38.7
2002	31.0	26.3	33.4	36.7	43.0	48.4	52.2	52.9	49.2	44.0	38.7	30.8	40.6
2003	33.2	36.7	29.6	37.2	42.7	48.1	51.2	53.3	48.4	41.8	37.1	29.4	40.7
POR= 59 YRS	28.4	28.3	29.5	33.6	39.9	45.7	50.3	51.5	47.4	39.8	34.5	30.0	38.2

HEATING DEGREE DAYS (base 65°F) 2003 COLD BAY, AK (CDB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1998-99	422	417	546	785	911	1135	1165	1255	1224	973	837	595	10265
1999-00	445	468	539	875	971	1354	1410	920	1028	943	810	540	10303
2000-01	481	402	529	760	838	905	1093	899	1073	865	860	528	9233
2001-02	403	360	522	793	921	1187	1047	1079	973	844	676	490	9295
2002-03	393	371	468	643	784	1054	976	785	1091	825	685	501	8576
2003-	422	356	494	713	829	1096							

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COOLING DEGREE DAYS (base 65°F) 2003 COLD BAY, AK (CDB)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
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

SNOWFALL (inches) 2003 COLD BAY, AK (CDB)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1998-99	0.0	T	0.0	8.2	20.4	12.3	23.8	30.1	44.6	11.3	3.7	0.0	154.4
1999-00	0.0	0.0	0.0	14.2	8.4	28.0	57.1	28.1	15.0	14.9	1.6	0.0	167.3
2000-01	0.0	0.0	0.0	1.1	4.6	7.5	20.6	11.3	13.4	17.9	3.2	0.0	79.6
2001-02	0.0	0.0	T	8.0	6.6	28.2	10.1	28.3	1.6	0.9	T	0.0	83.7
2002-03	0.0	0.0	0.0	T	2.7	11.1	9.5	2.8	6.4	2.5	0.8	0.0	35.8
2003-	0.0	0.0	T	2.9	12.1	23.8							
POR= 52 YRS	T	0.0	0.0	3.2	8.1	11.3	11.7	11.7	10.7	6.0	1.7	0.0	64.4

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 (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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2003
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										AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
						GROUND											
						SEA LEVEL	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	WEIGHING	8 INCH	HYGROMETER	TEMPERATURE		
*NOTE:																	
<u>AIRPORT</u>																	
Cold Bay Airport	8/4/55	4/21/61	0.25 mi. N	55°12'	162°43'	90	28 a88	6	6					4		WB station established. a. Anemometer raised, wind vane at 35' effective 3/6/56.	
IFSS Building #400 Cold Bay Airport	4/21/61	07/01/98	2000 ft. SSE	55°12'	162°43'	94 b84 f96	85 c21	6 b6 d6 g	6 b6 d5 h Unk			4 d5 i5	4 d4 i4	e4 j4		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.	
Cold Bay Airport	07/01/98	Present	NA	55°12'	162°43'	k95									S	ASOS Commissioned 07/01/98 k. Ground Elevation	

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* NOTES: For earlier station history see previous editions.