

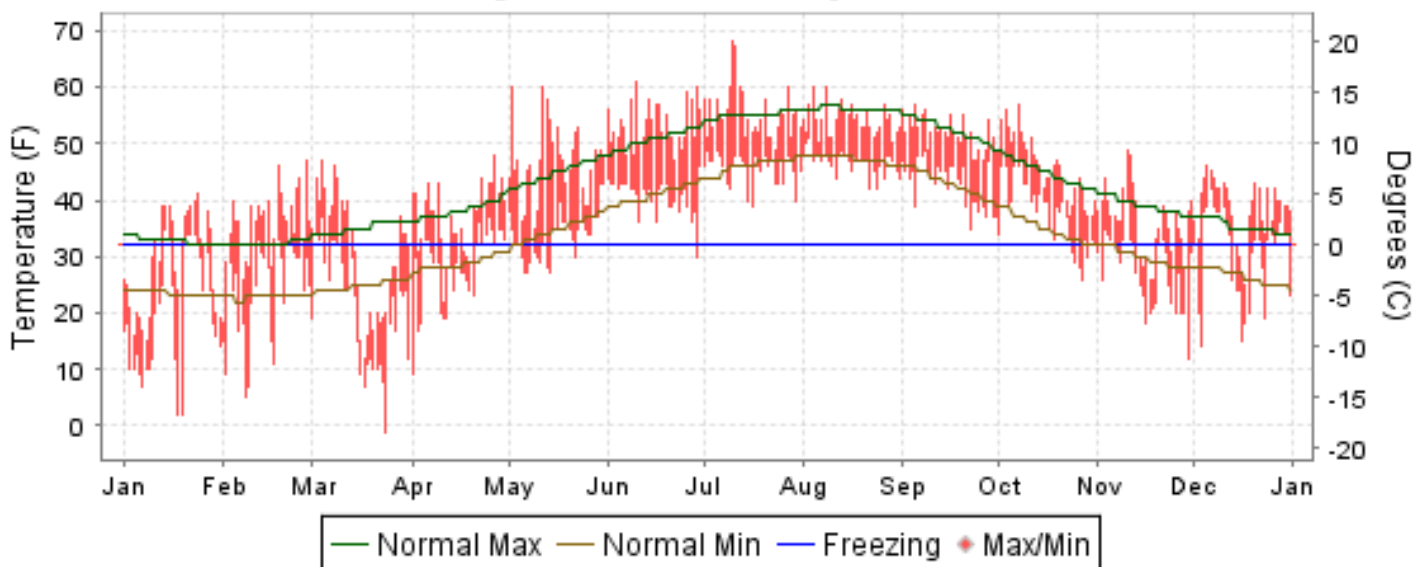


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

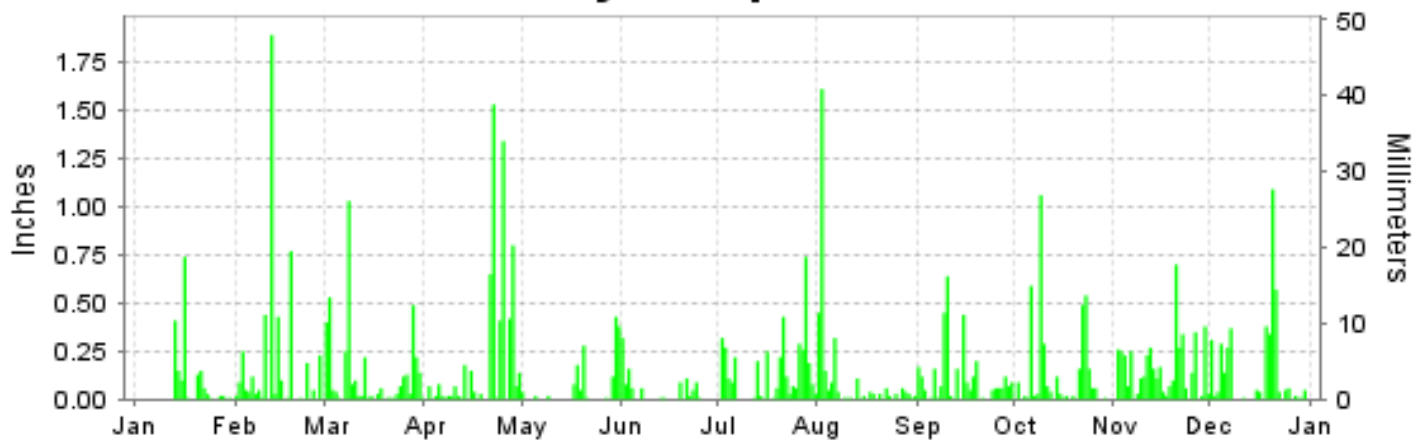
ISSN 0197-968X

COLD BAY, ALASKA (PACD)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2009

COLD BAY (PACD)

LATITUDE: 55° 12'N **LONGITUDE:** -162° 43'W **ELEVATION (FT):** GRND: 78 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	29.1	35.8	30.9	37.3	46.8	53.4	55.5	54.2	51.9	45.9	36.4	38.6	43.0	
	HIGHEST DAILY MAXIMUM	41	47	47	48	60	61	68	60	57	57	49	46	68	
	DATE OF OCCURRENCE	24	27	04	27	12+	10	10	08+	05	07	10	05	JUL 10	
	MEAN DAILY MINIMUM	19.9	23.8	20.6	27.9	33.6	40.6	45.5	46.7	43.0	37.6	27.3	30.3	33.1	
	LOWEST DAILY MINIMUM	2	5	-1	9	27	30	39	42	35	26	12	14	-1	
	DATE OF OCCURRENCE	19+	08	24	01	14+	29	16	24+	22	27	29	03	MAR 24	
	AVERAGE DRY BULB	24.5	29.8	25.8	32.6	40.2	47.0	50.5	50.5	47.5	41.8	31.9	34.5	38.1	
	MEAN WET BULB	23.9	28.4	24.4	31.3	37.6	44.1	48.9	48.4	46.1	40.1	30.2	33.4	36.4	
	MEAN DEW POINT	20.8	25.4	21.3	29.2	34.8	41.1	47.5	47.1	44.3	37.9	26.7	31.3	34.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM <= 32°	17	6	15	6	0	0	0	0	0	0	7	4	55	
	MINIMUM <= 32°	25	26	26	21	13	1	0	0	0	6	23	14	155	
MINIMUM <= 0°	0	0	1	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1247	979	1208	965	764	532	443	445	518	713	985	939	9738	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
RH	MEAN (PERCENT)	84	84	83	88	84	83	91	91	89	87	81	87	86	
	HOUR 03 LST	84	85	85	91	92	93	95	94	93	90	82	88	89	
	HOUR 09 LST	85	88	85	90	89	86	93	94	92	91	81	87	88	
	HOUR 15 LST	82	80	80	83	73	73	85	83	82	81	79	87	81	
	HOUR 21 LST	83	85	85	90	84	81	92	91	91	88	83	87	87	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	4	5	2	4	0	1	0	3	0	2	1	24	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
CLOUDNESS	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.)	29.49	29.85	29.76	29.78	29.91	29.70	29.77	29.79	29.56	29.53	29.32	29.36	29.65	
	MEAN SEA-LEVEL PRESS. (IN.)	29.59	29.97	29.88	29.89	30.02	29.82	29.89	29.91	29.68	29.63	29.44	29.51	29.77	
WINDS	RESULTANT SPEED (MPH)	3.9	5.5	4.1	6.0	4.2	6.2	8.1	3.1	6.7	1.5	9.8	9.7	1.5	
	RES. DIR. (TENS OF DEGS.)	03	19	29	15	31	16	16	24	30	34	28	12	21	
	MEAN SPEED (MPH)	14.3	18.0	19.8	18.5	12.3	13.2	16.1	14.8	13.3	13.8	18.2	17.9	15.9	
	PREVAIL.DIR.(TENS OF DEGS.)	02	14	14	15	30	14	15	14	31	14	31	14	15	
	MAXIMUM 2-MINUTE WIND SPEED (MPH)	52	59	58	52	39	40	48	43	39	46	51	58	59	
	DIR. (TENS OF DEGS.)	27	21	17	14	15	16	15	15	26	14	13	13	21	
	DATE OF OCCURRENCE	16	25	29	09	30	05	03	02	29	06	29	04	FEB 25	
	MAXIMUM 3-SECOND WIND: SPEED (MPH)	60	76	68	64	47	49	58	52	47	59	66	76	76	
	DIR. (TENS OF DEGS.)	26	21	15	12	13	16	15	15	26	15	29	12	12	
DATE OF OCCURRENCE	16	25	07	30	31	05	03	02	30	06	05	04	DEC 04		
PRECIPITATION	WATER EQUIVALENT: TOTAL (IN.)	1.84	4.81	4.14	6.11	1.62	1.07	4.08	3.24	3.28	3.90	4.78	4.16	43.03	
	GREATEST 24-HOUR (IN.)	0.74	1.90	1.20	1.90	0.61	0.40	0.93	2.01	1.02	1.08	0.72	1.56	2.01	
	DATE OF OCCURRENCE	16	12-13	07-08	21-22	30-31	01-02	28-29	01-02	09-10	09-10	20-21	20-21	AUG 01-02	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	13	20	28	23	12	13	23	23	24	22	26	21	248	
	PRECIPITATION 0.10	6	9	11	9	5	3	13	5	10	8	18	9	106	
PRECIPITATION 1.00	0	1	1	2	0	0	0	1	0	1	0	1	7		
SNOWFALL	SNOW,ICE PELLETS,HAIL TOTAL (IN.)	9.1	12.1	21.3	4.7	0.3	0.0	0.0	0.0	T	2.6	24.7	6.3	81.1	
	GREATEST 24-HOUR (IN.)	6.3	3.5	4.9	1.5	0.2	0.0	0.0	0.0	T	1.4	3.8	2.4	6.3	
	DATE OF OCCURRENCE	16	10	28	15	09	0	0	0	25+	24	29	01	JAN 16	
	MAXIMUM SNOW DEPTH (IN.)	6	4	4	1	0	0	0	0	0	0	5	3	6	
	DATE OF OCCURRENCE	16	10	29	01						25+	27+	02+	JAN 16	
	NUMBER OF DAYS WITH: SNOWFALL >= 1.0	2	5	8	1	0	0	0	0	0	1	8	2	27	

HEATING DEGREE DAYS (base 65°F) 2009 COLD BAY (PACD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2003-04	422	356	494	713	829	1096	1212	934	1116	907	667	501	9247
2004-05	374	320	476	685	873	1036	945	903	963	921	707	507	8710
2005-06	385	343	464	745	1043	952	1320	987	1034	973	767	583	9596
2006-07	419	431	528	725	946	1224	1174	874	1426	901	833	624	10105
2007-08	437	348	447	777	892	1060	1190	1228	1231	970	786	586	9952
2008-09	503	438	523	826	1044	1009	1247	979	1208	965	764	532	10038
2009-	443	445	518	713	985	939							

WBAN : 25624

COOLING DEGREE DAYS (base 65°F) 2009 COLD BAY (PACD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2005	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0

SNOWFALL (inches) 2009 COLD BAY (PACD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2003-04	0.0	0.0	T	2.9	12.1	23.8	30.9	7.1	20.3	4.5	0.0	0.0	101.6
2004-05	0.0	0.0	0.0	1.2	9.3	21.9	1.5	6.1	11.4	5.2	0.5	0.0	57.1
2005-06	0.0	0.0	T	0.4	16.8	3.0	16.2	15.1	4.0	12.6	3.7	0.0	71.8
2006-07	0.0	0.0	0.0	0.6	7.7	22.1	22.4	3.7	21.0	2.9	4.7	0.0	85.1
2007-08	0.0	0.0	0.0	2.5	10.6	7.7		7.4	11.7	2.6	0.4	0.2	
2008-09	0.0	0.0	0.0	3.0	11.7	9.7	9.1	12.1	21.3	4.7	0.3	0.0	71.9
2009-	0.0	0.0	T	2.6	24.7	6.3							
POR= 59 YRS	0.0	T	T	3.0	8.2	11.6	12.0	11.5	11.3	6.2	1.7	T	65.5

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. 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.</p>	<p>GENERAL CONTINUED: 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2009 COLD BAY ALASKA (PACD)

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.

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