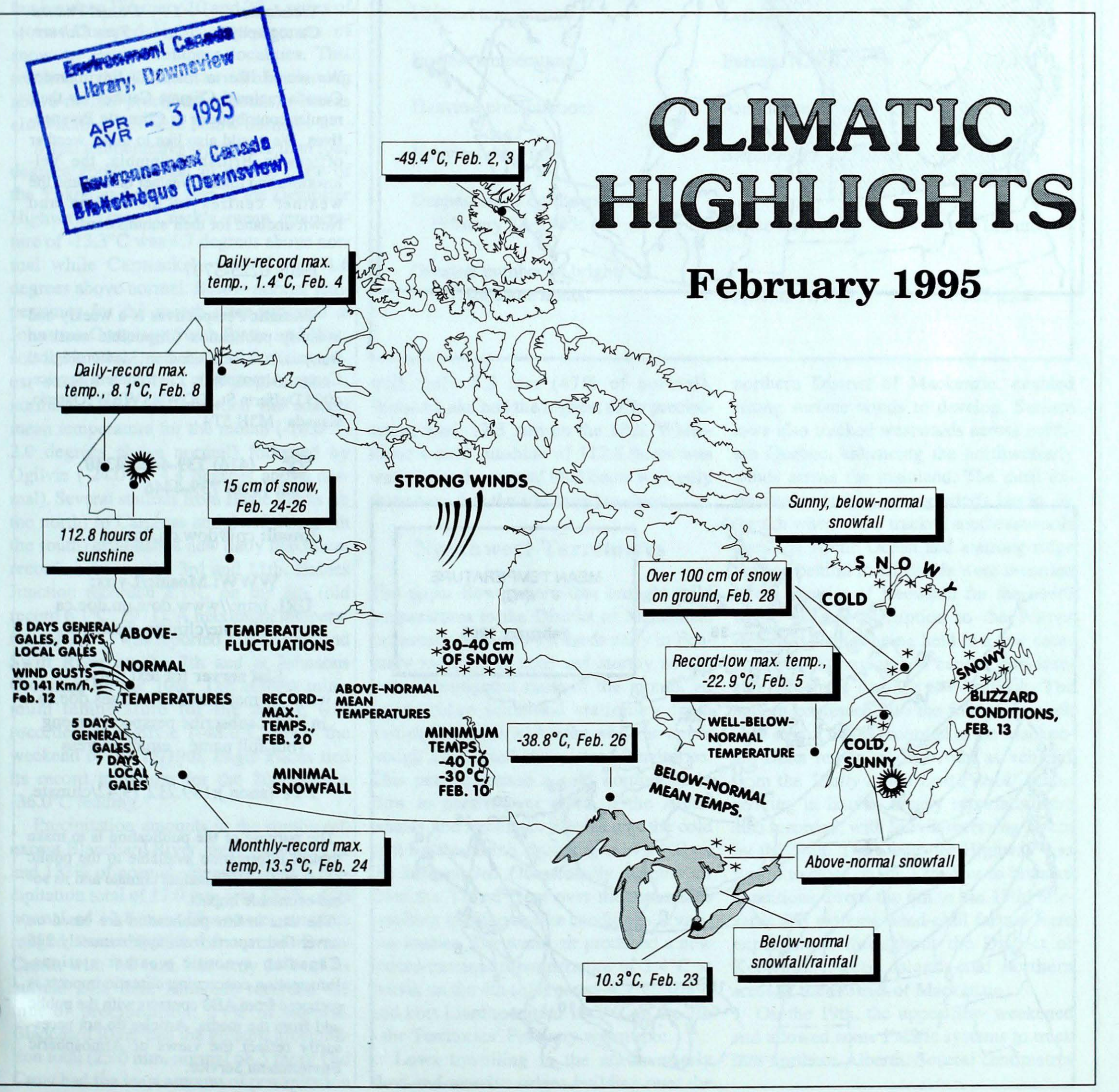
Climatic Perspectives

February 1995 — ***Monthly review of Canadian climate and water*** — *vol. 17*

CLIMATIC HIGHLIGHTS

February 1995



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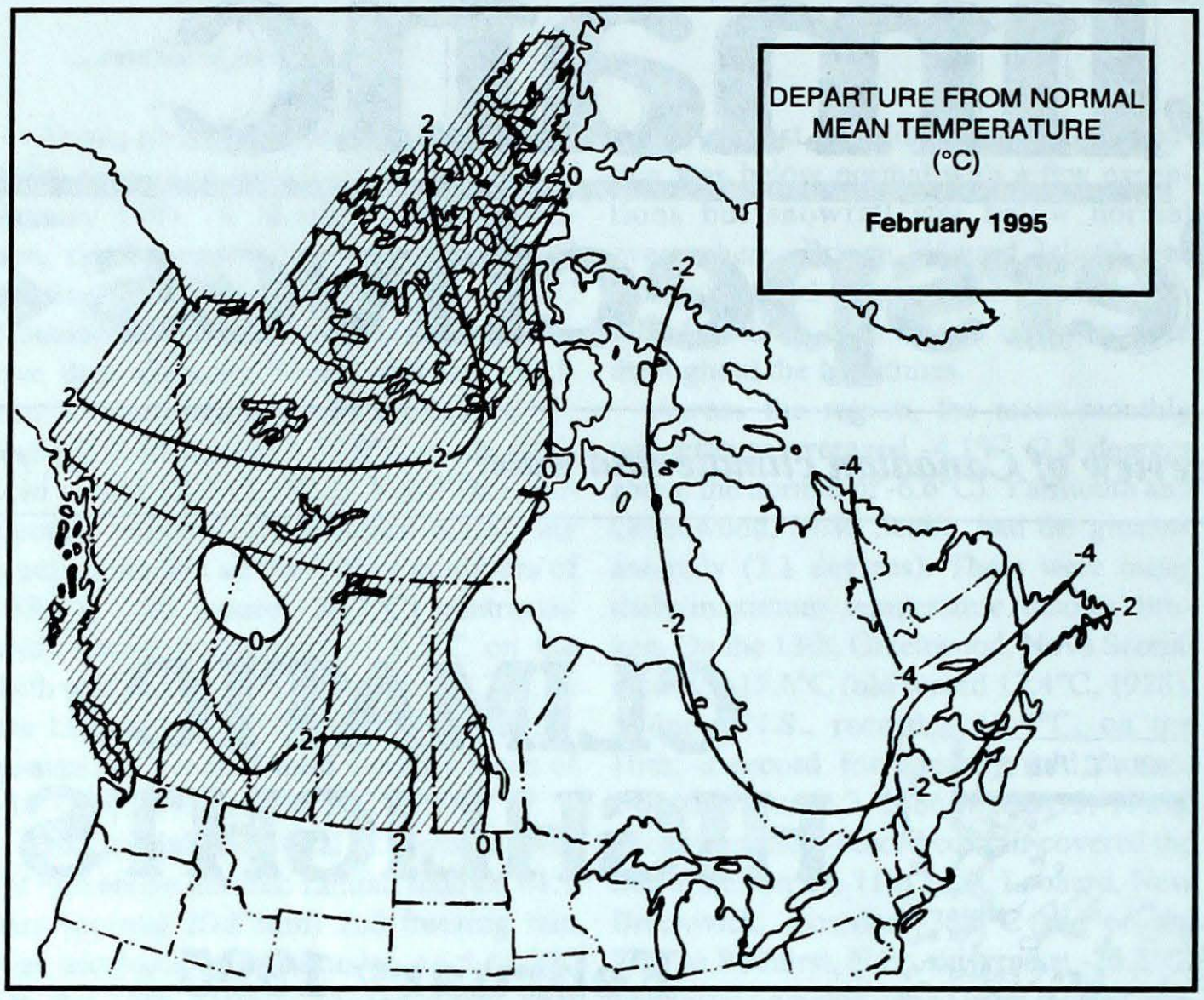

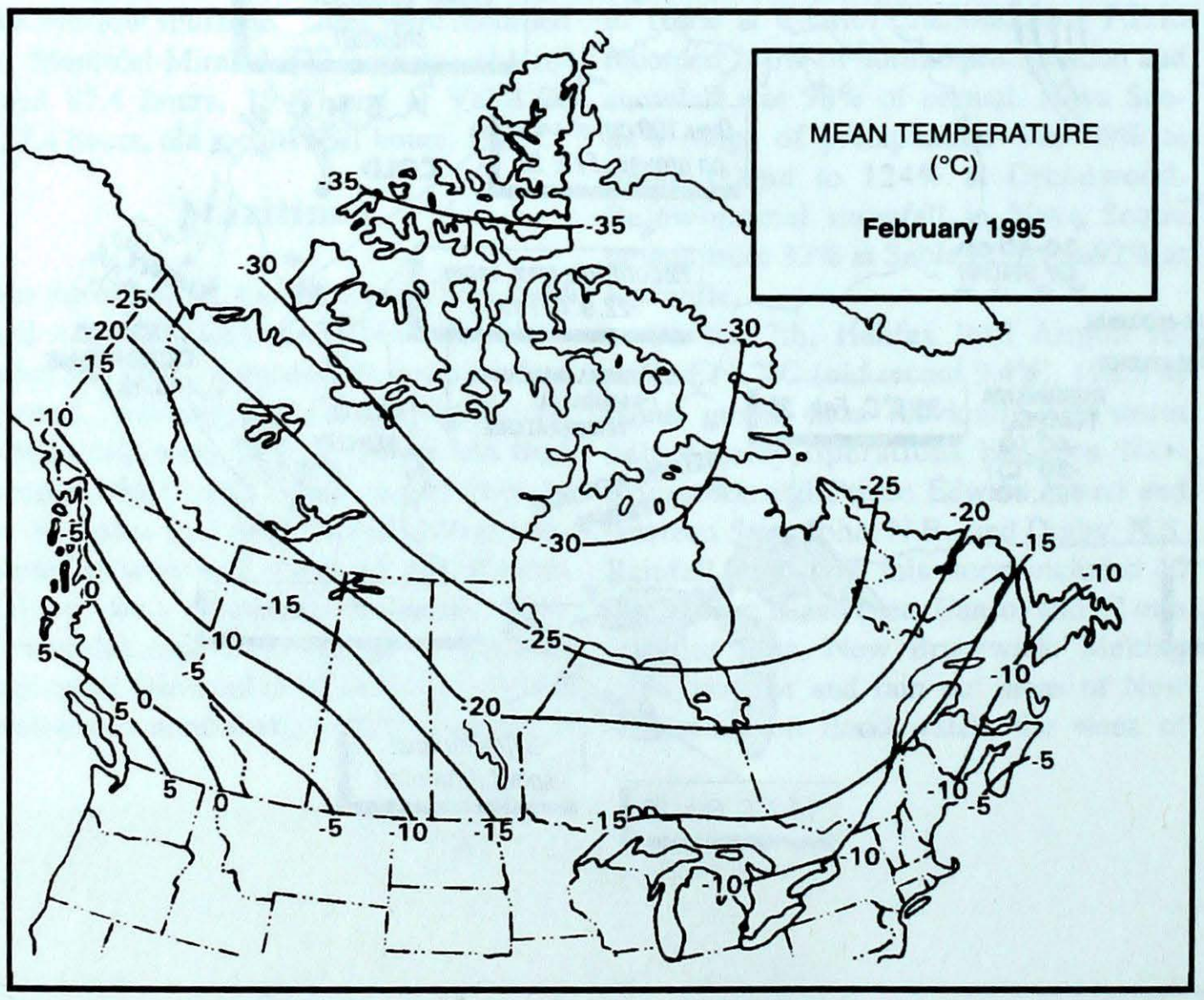

CLIMATIC PERSPECTIVES
VOLUME 17

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The purpose of the publication is to make topical information available to the public concerning the Canadian climate and its socio-economic impact.

The data in this publication are based on unverified reports from approximately 225 Canadian synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles do not necessarily reflect the views of Atmospheric Environment Service.

Across the country

Yukon

The month began with temperatures well above normal except the north being near normal. By mid-month, temperatures fell below normal and fluctuated above and below normal for the remainder of the month. It was dry at the start and end of the month but between February 10 and 20, a series of storms dumped significant amounts of snow on several southern localities. This resulted in the southwestern Yukon having above-normal precipitation totals, whereas elsewhere, totals were below normal.

Mean temperatures were more than four degrees above normal in central parts of the Yukon and along part of the Dempster Highway. Drury Creek's mean temperature of -13.3°C was 4.7 degrees above normal while Carmacks' -14.4°C was 4.6 degrees above normal. Below-normal temperatures for the month were reported at Johnsons Crossing, Swift River and Watson Lake. Blanchard River was the warmest station (-11.1°C, 0.3 degree above normal). Old Crow recorded the coldest mean temperature for the month (-26.6°C, 2.0 degrees above normal) followed by Ogilvie (-24.0°C, 4.4 degrees above normal). Several stations from Eagle Plains (in the north) to Carcross and Swift River (in the south) established new daily maximum records between the 3rd and 11th. Haines Junction recorded 8.1°C on the 8th (old record 6.1°C, 1971). A maximum temperature of 7.0°C was reported at Carcross and Swift River on the 7th and at Johnsons Crossing, on the 10th. The coldest minimum temperature for the month was recorded at Ogilvie (-48.0°C) over the weekend of the 18/19th. Eagle Plains tied its record minimum for the 20th with a -36.0°C reading.

Precipitation amounts in the southwest, except Blanchard River, were between 122 and 133% of normal. Beaver Creek's precipitation total of 17.0 mm was 133% of its normal of 12.8 mm. Elsewhere, amounts ranged from 28-98% of normal. Drury Creek, with 7.0 mm, had only 28% of its normal 24.8 mm. Klondike recorded 7.8 mm of precipitation, 29% of normal. Blanchard River had the greatest precipitation total (25.0 mm, normal 68.5 mm). Old Crow had the least amount of precipitation with only 5.3 mm (47% of normal). Watson Lake had the highest daily precipitation total, 12.3 mm on the 18th. Whitehorse's total sunshine of 112.8 hours was well above the normal 98.3 hours with only three days that the sun failed to shine.

CLIMATIC EXTREMES IN CANADA - FEBRUARY 1995

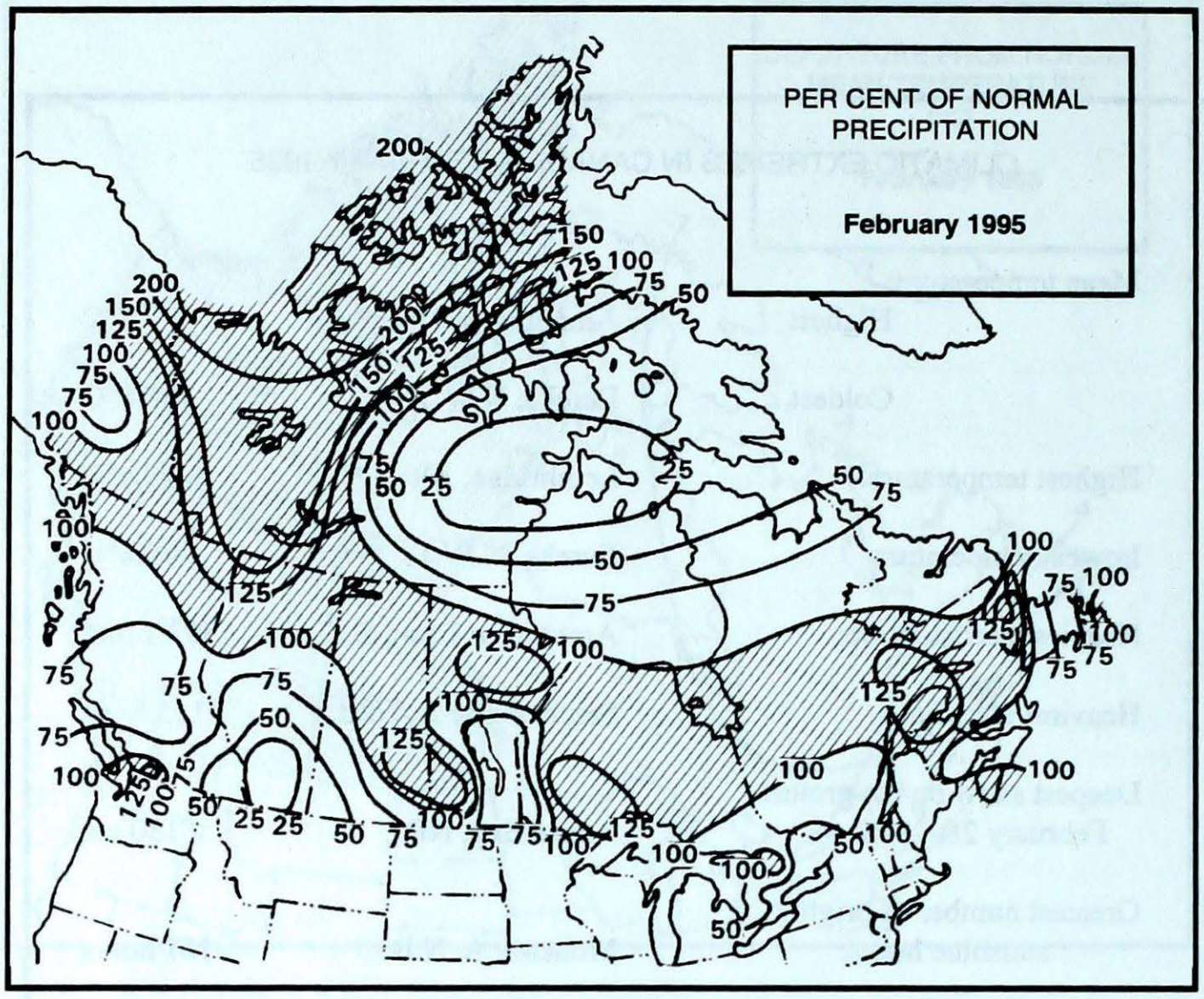
Mean temperature:		
Highest	Amphitrite Point, B.C.	7.3°C
Coldest	Eureka, N.W.T.	-38.8°C
Highest temperature:	Lethbridge, Alta.	19.4°C
Lowest temperature:	Eureka, N.W.T.	-49.4°C
Heaviest precipitation:	Amphitrite Point, B.C.	353.1 mm
Heaviest snowfall:	Stephenville A, Nfld.	125.8 cm
Deepest snow on the ground February 28, 1995:	Goose Bay, Nfld.	180 cm
Greatest number of bright sunshine hours:	Moncton A, N.B.	167 hours

Northwest Territories

The upper-flow pattern that brought mild temperatures to the District of Mackenzie in January, shifted westwards early in February resulting in cold and stormy conditions. Throughout most of the month, an upper ridge remained stationary from British Columbia to Alaska while an upper trough dominated the eastern Territories. This pattern caused a cold northwesterly flow to persist over most of the Arctic islands and mainland. Eureka was the cold spot for the month, dropping to -49.4°C on the 2nd and 3rd. Occasionally, warmer air from the Yukon crept over the mountains resulting in chinook-like conditions at various locales. The warm air produced a new record-maximum temperature of 1.4°C at Inuvik on the 4th (old record -4.7°C, 1989) and Fort Liard recorded 10.3°C on the 7th - the Territories' February warm spot.

Lows travelling in the northwesterly flow and massive ridges building over the northern District of Mackenzie, enabled strong surface winds to develop. Surface lows also tracked westwards across northern Quebec, enhancing the northwesterly winds across the mainland. The most extensive period of strong winds began on the 6th when a low tracked southeastwards from the Arctic Ocean and a strong ridge built in behind it. Blizzards were recorded in the District of Keewatin for the entire week, causing disruption to the Winter Regional Games being held in a few communities. Strong winds caused considerable structural damage at Nanisivik. The pattern continued into the following week with strong winds recorded in the Mackenzie Delta region on the 16th, as vehicles from the *"Rally of the Lost Patrol"* began arriving in Inuvik. Heavy snowfalls were also recorded, with Inuvik receiving 20 cm by the 16th. The Dempster Highway was forced to close on the 17th, due to blizzard conditions. From the 6th to the 19th, blizzards and extreme wind-chill factors were experienced throughout the District of Keewatin, Arctic islands and northern areas of the District of Mackenzie.

On the 19th, the upper flow weakened and allowed some Pacific systems to track into northern Alberta. Several centimetres



of snow fell over southern sections of the District of Mackenzie, February 19-21 and February 24-25. The latter storm brought 15 cm of snow to Fort Liard.

By the 22nd, the upper ridge strengthened again over northwestern areas of the District of Mackenzie. Meanwhile, a trough over Davis Strait and a low over Labrador deepened, producing a northwesterly flow across most of the Northwest Territories. Blizzards and extreme windchill factors extended from the High Arctic to the District of Keewatin and to northern Baffin Island.

British Columbia

February began mild and wet with temperatures six degrees above normal in some areas. An Arctic outbreak covered most of the province by the 11th, bringing cool and dry conditions before returning to mild and wet in the third week. A second outbreak of modified Arctic air covered the entire province by the 27th, producing cool and dry conditions to end the month.

Most of the province reported temperatures near one degree above normal, rising to three degrees above normal in most of the southern interior. Cranbrook's temperature of 13.5°C on the 24th was an all-time maximum for the month of February (old record 12.0°C, 1986). The only area that recorded below-normal temperatures (but only near one degree below normal), was a small area in the far north.

Precipitation was above normal in the northern half of the province with the largest departures reported in central sections west of Williston Lake (155% of normal). Coastal sections of the extreme southern regions recorded 90-120% of normal. Central sections of the province, as far south as Southern Cariboo, reported totals 50-75% of normal. The southern interior reported 60-90% of normal in central regions, falling to just under 50% in the Kootenays and near average in the Columbia/North Thompson regions.

Snowfall was above average in the northern half of the province. Amounts ranged from near normal in the Fort St. John area to 120-150% of normal in the remainder of the north. In the southern half of the interior, snowfall was near zero in some southern valleys but in general, ranged from 20-50% of normal. Coastal regions had extremely variable snowfalls. The Arctic outbreak around the 11th, produced minimal snow in coastal regions but 10 to 15 cm fell just to the west of Victoria. The Arctic air retreated from coastal regions on the evening of the 14th and many areas reported heavy snowfalls overnight on the 14th and into the morning of the 15th. Snowfall varied from a few flurries on southern Vancouver Island to 20-40 cm in other coastal sections. Interior mountains received some heavy snow and when temperatures turned mild, precipitation was in the form of rain. This resulted in avalanche conditions in many mountain passes.

Sunshine hours were above normal throughout the province. However, the southern Peace River area and Coast Mountains around Whistler reported sunshine values 90% of normal. The northern two-thirds of the province received 110 to 120% of normal sunshine. The southern interior reported values 120-140% of normal, except North Thompson, near 165%.

The two Arctic outbreaks during the month contributed to a high incidence of gale-force winds in coastal regions, particularly the mainland inlets. These inlets tend to funnel and increase the northeasterly winds. Cathedral Point, located in Burke Channel west of Bella Coola, reported northeast winds of 113 km/h gusting to 141 km/h in the early morning hours of the 12th. The north coast reported eight days with general gales and another eight with local gales. The south coast had five days with general gales and seven days with local gales.

Alberta

Temperatures averaged above normal for most of Alberta. Throughout the month, the Arctic front moved its way across the province, producing temperature variations. Southwestern Alberta received minimal snowfall amounts.

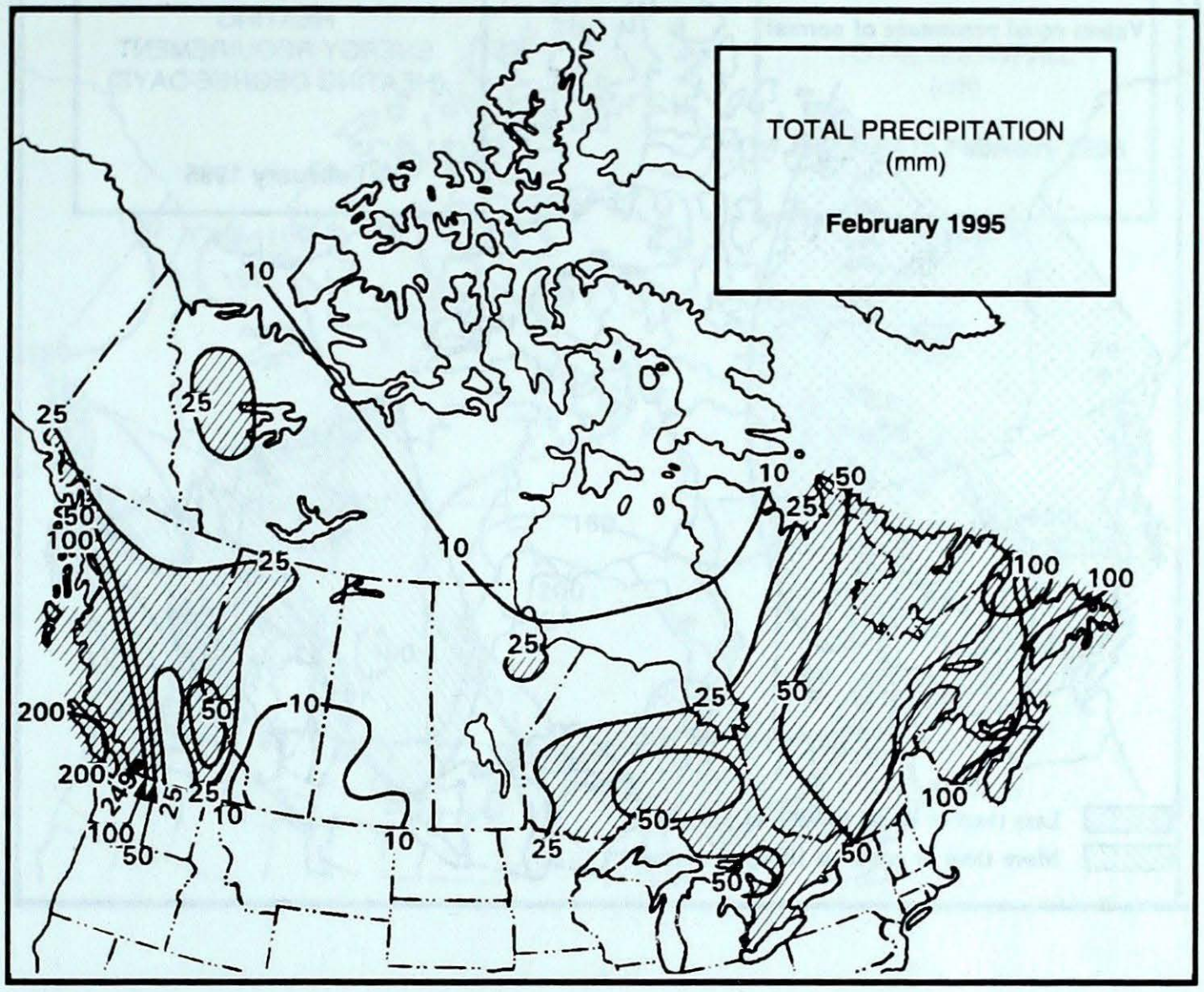
A westerly flow of mild Pacific air produced gusty winds in southern regions and above-normal temperatures, except the extreme north, during the first week. Fast-tracking systems moved eastwards out of B.C., producing patchy freezing precipitation, on the 1st and 3rd, in central Alberta and scattered flurries in the north. Generally sunny and warm conditions continued until the 6th. An upper disturbance then moved southeastwards from the Peace Country, developing an area of freezing rain and two to four centimetres of snow with amounts up to 20 cm, at higher elevations. An upper ridge building over B.C., on the 7th, produced a mild westerly flow, returning sunshine and above-normal tem-

peratures to all regions. However, clouds and flurries lingered across eastern locales.

By the 8th, the Arctic front started a southward track, producing gusty north winds. These winds, combined with cold temperatures, created high wind-chill factors for the next few days. Temperatures on the 12th recovered slightly in the north to -12.0°C while daytime maximums in the south could only climb to -17.0°C. A weak upper disturbance brought increasing clouds and scattered flurries on the 13th to the north and into the south on the 14th. Snowfalls of up to three centimetres were reported in central Alberta. A further one to two centimetres of snow were recorded on the 16th in the Edson and Edmonton regions. In the early morning hours of the 17th, chinook winds developed in the south and the temperature at Lethbridge rose from -15.0 to 1.0°C in less than two hours.

The Arctic front began a northward retreat on the 18th, allowing the south to enjoy daytime highs of 10.0°C. North of the front, temperatures ranged from -10.0°C in Edmonton to -22.0°C in Fort Chipewyan. On the 19th, gusty westerly winds brought daytime highs of 10.0°C to central regions. The following day, as the front was forced towards the Northwest Territories, an hour of freezing rain was reported in the Peace Country with snow further north. Elsewhere, sunshine and gusty west winds provided the necessary daytime heating for numerous record-maximum temperatures to be recorded - Rocky Mountain House (15.5°C), Edson (13.5°C), Lethbridge (19.4°C), Medicine Hat (18.4°C) and Calgary (17.6°C). Extensive shower activity during the early morning of the 21st, made roadways extremely hazardous as overnight temperatures remained below the freezing point in central regions. Above-normal temperatures and sunshine returned on the 22nd, except the north, where clouds, scattered flurries and cool temperatures prevailed.

The Arctic front began a southward push on the 24th. Daytime highs in the north were -18.0°C compared to 20.0°C in the south. A disturbance moving southeastwards from the Peace Country on the 25th, spread 10 to 20 cm of snow from High Level to Fort Chipewyan. Arctic air engulfed the province by the 26th, dropping daytime highs across the south by 5 to 15 degrees.



Saskatchewan and Manitoba

Temperatures averaged above normal in most of Saskatchewan and near- to slightly-below normal in Manitoba. Short-lived outbreaks of arctic air brought temperatures down to between -40 and -30°C in some regions. Within a few days following the outbreak, temperatures recovered to above-normal values.

Precipitation was unevenly distributed. Heavy snowfalls occurred in northern and eastern areas. Between 30 and 40 cm of snow fell in parts of Manitoba. Southwestern Saskatchewan received minimal snowfall amounts, totalling less than five centimetres in most areas.

Ontario

Ontario's five-month stretch of milder-than normal temperatures, September to January, came to an end in February. Monthly mean temperatures ranged from one to three degrees below normal. Some of the season's coldest temperatures were recorded either side of February 5. Temperatures fell to the -20's in the south and -30's in the north and combined with wind to produce high wind-chill factors. Despite the cold, February 1995 still managed to be milder than the frigid Februaries of 1993 and 1994. The coldest temperature recorded was -38.8°C, on the 26th, at Geraldton, while the maximum was 10.3°C at Windsor, on the 23rd.

Snowfall was generally lighter than normal across most of southern and central Ontario. Sarnia's 10 cm (normal 29 cm) was the province's least total with other locales recording 15 to 35 cm (50-75% of normal). In contrast, snowfall in the Georgian Bay snowbelt was 115-160% of normal. From February 8-12, 20 to 40 cm of snow fell in the Lake Huron/Georgian Bay area, closing many roads. Ten to twenty centimetres of snow fell, February 15-16, from Wawa eastwards to Timmins. For the month, Wiarton recorded 85 cm of snow (normal 71 cm) - the snowiest location in Ontario. Heavy snowfall totals were also recorded north of Sault Ste. Marie, in the Lake Superior snowbelt and west to Thunder Bay and Sioux Lookout. Thunder Bay's 51 cm (normal 29 cm) resulted in its snowiest February since 1979.

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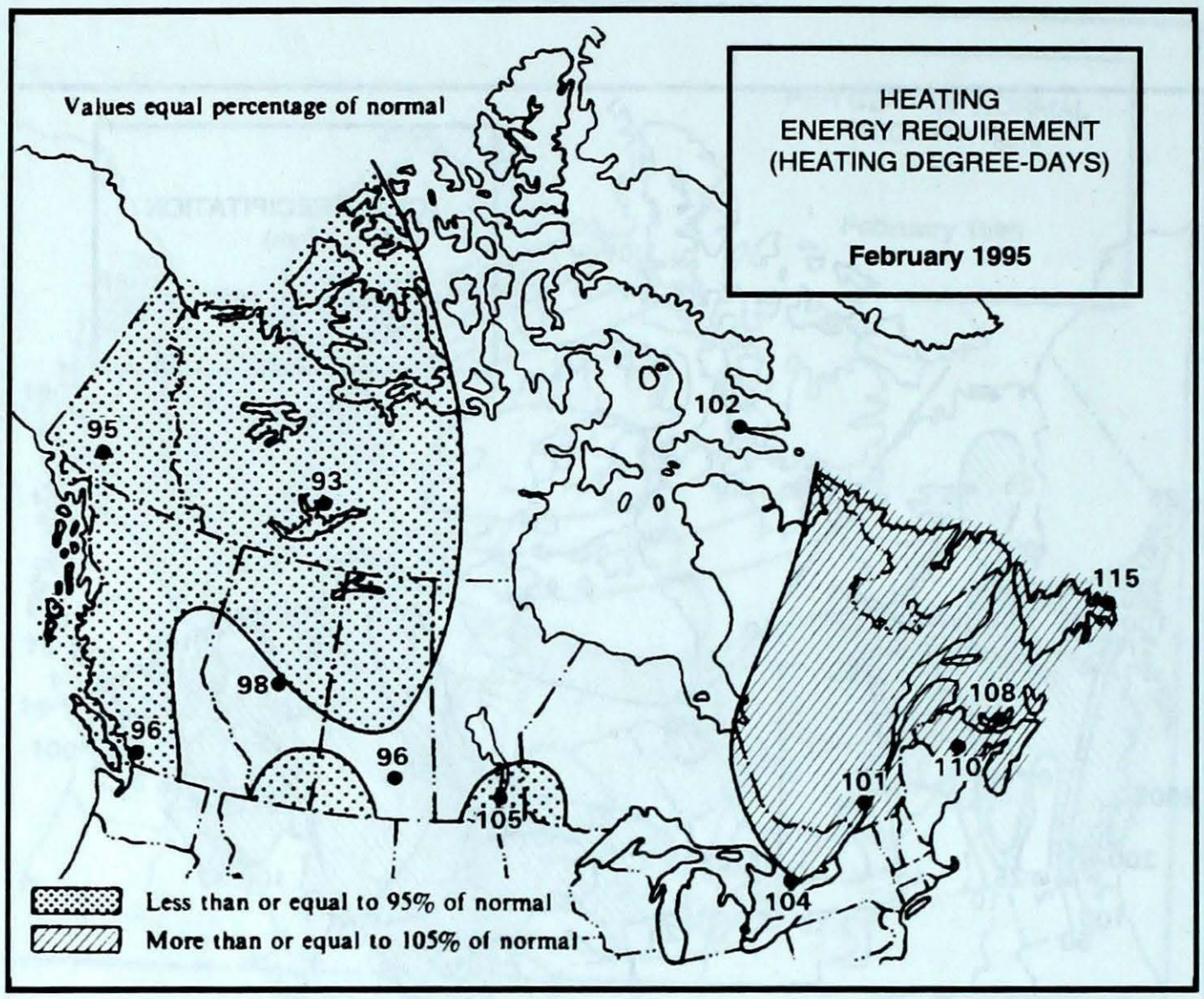
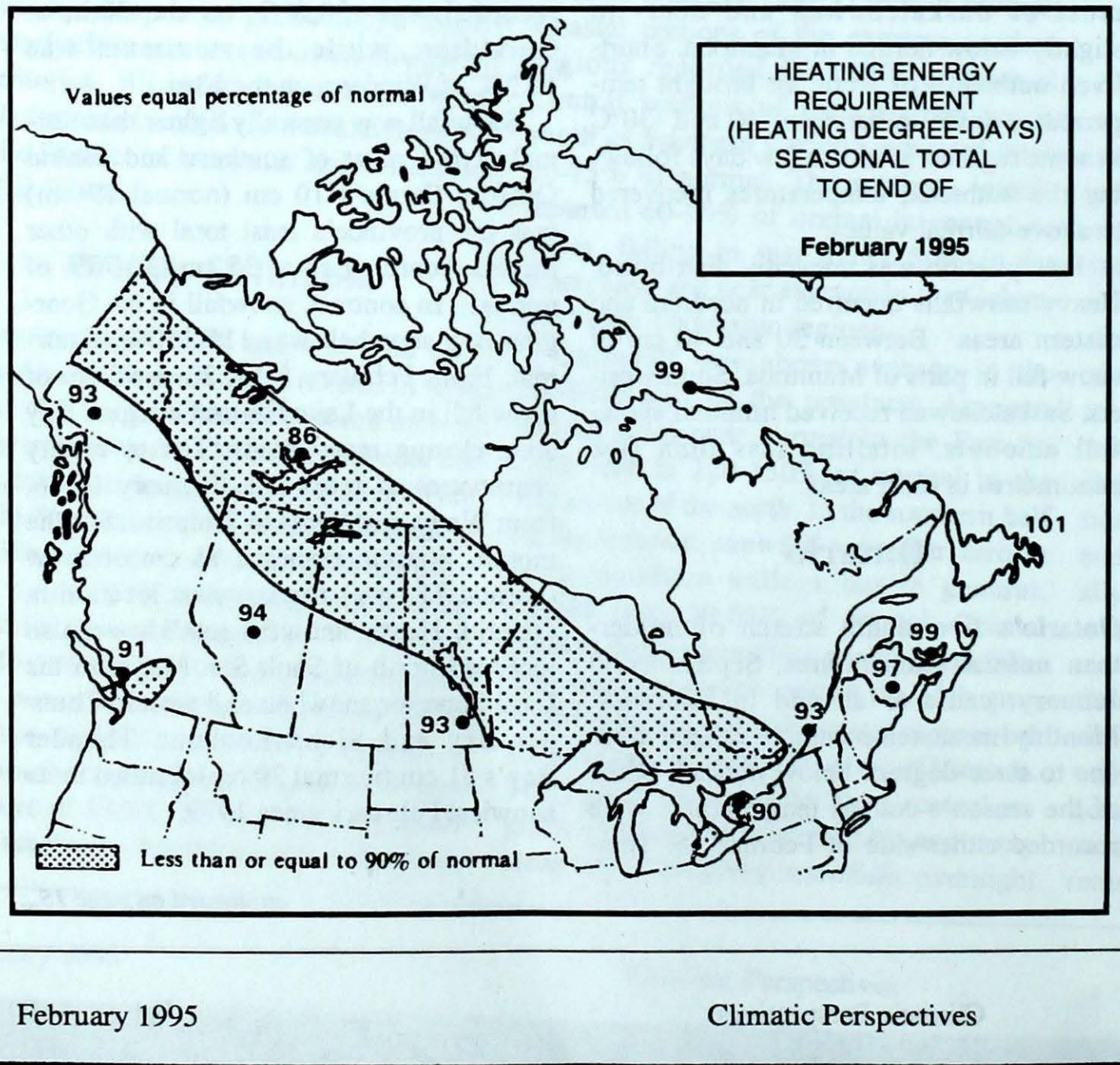


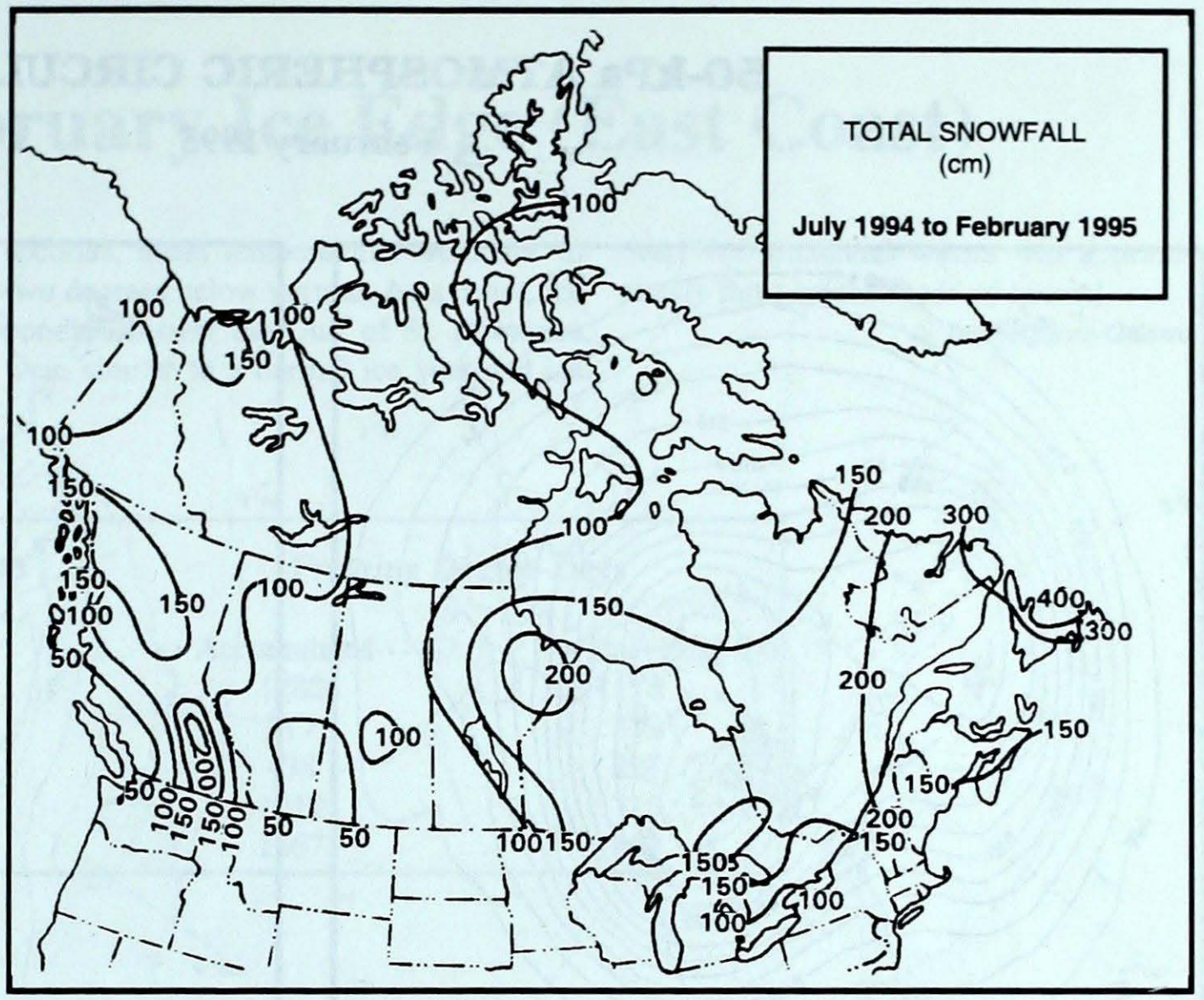


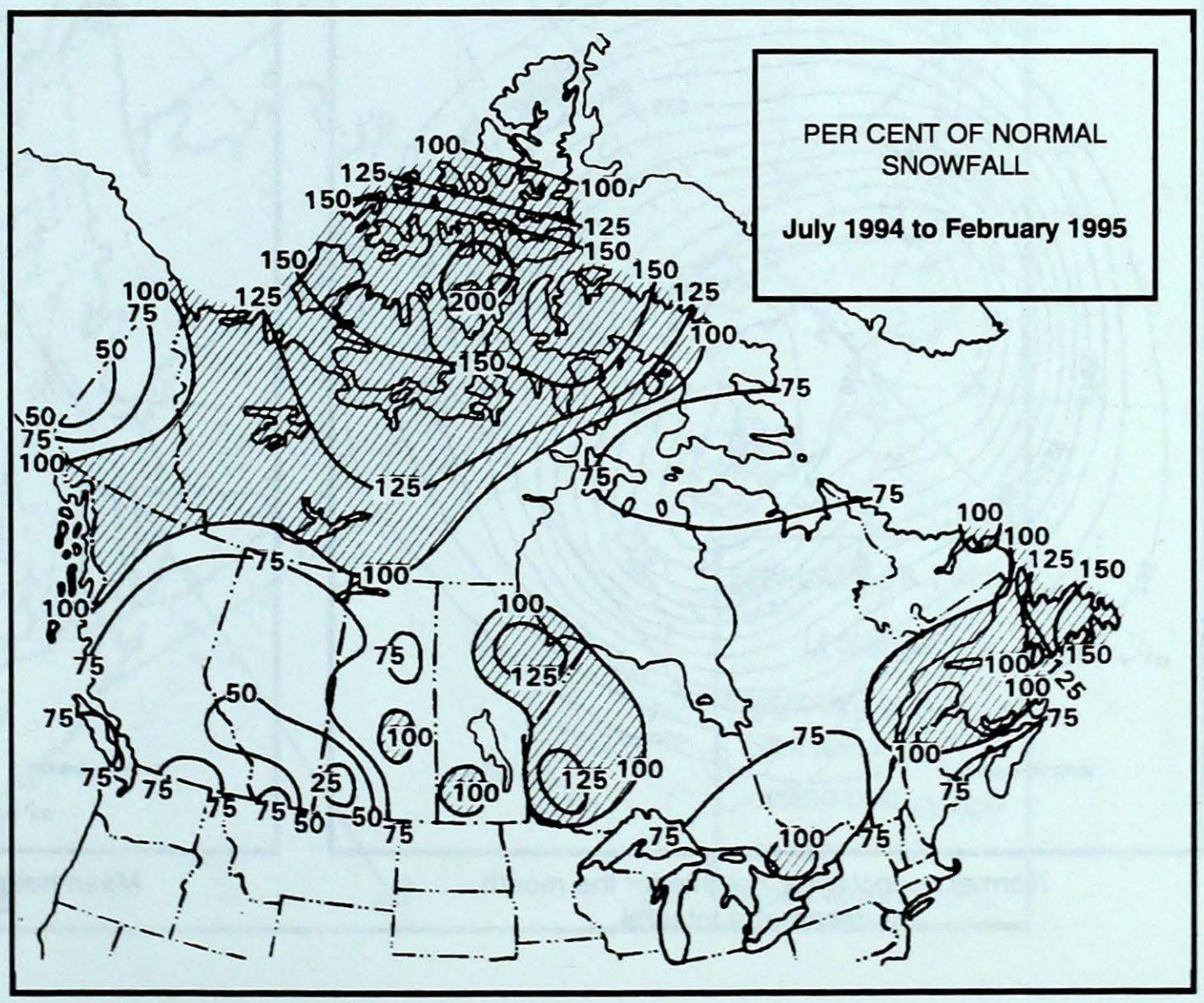
SEASONAL TOTAL OF HEATING DEGREE-DAYS TO END OF FEBRUARY

	1995	1994	NORMAL
BRITISH COLUMBIA			
Kamloops	2515	2586	2820
Penticton	2361	2423	2545
Port Hardy	2262	2404	2456
Vancouver	1885	1941	2974
Victoria	1890	1986	2117
YUKON TERRITORY			
Whitehorse	4760	4765	5099
NORTHWEST TERRITORIES			
Iqaluit	6594	6901	6591
Inuvik	6401	6499	6975
Yellowknife	5279	6247	6040
ALBERTA			
Calgary	3470	3816	3797
Edmonton Mun.	3730	4034	3990
Grande Prairie	4357	4393	4487
SASKATCHEWAN			
Estevan	3820	4584	3987
Regina	3831	4571	4254
Saskatoon	4116	4781	4417
MANITOBA			
Brandon	4146	4922	4447
Churchill	5595	6679	6170
Dauphin	4091	5314	4904
Winnipeg	3985	4667	4306
ONTARIO			
Kapuskasing	4070	4991	4558
London	2651	3161	2898
Ottawa	3075	3723	3387
Sudbury	3502	4327	3845
Thunder Bay	3682	4551	4078
Toronto	2625	3210	2899
Windsor	2785	2851	2593
QUEBEC			
Baie Comeau	3971	4461	4175
Montréal	3038	3595	3270
Québec	3420	4025	3663
Sept-Îles	4233	4668	4273
Sherbrooke	3373	3887	3726
Val-d'Or	4000	4887	4361
NEW BRUNSWICK			
Fredericton	3215	3559	3317
Moncton	3204	3551	3236
NOVA SCOTIA			
Yarmouth	2488	2779	2686
PRINCE EDWARD ISLAND			
Charlottetown	3065	3421	3093
NEWFOUNDLAND AND LABRADOR			
Gander	3371	3674	3296
St. John's	3062	3362	3053

SEASONAL SNOWFALL TOTALS (cm) TO END OF FEBRUARY

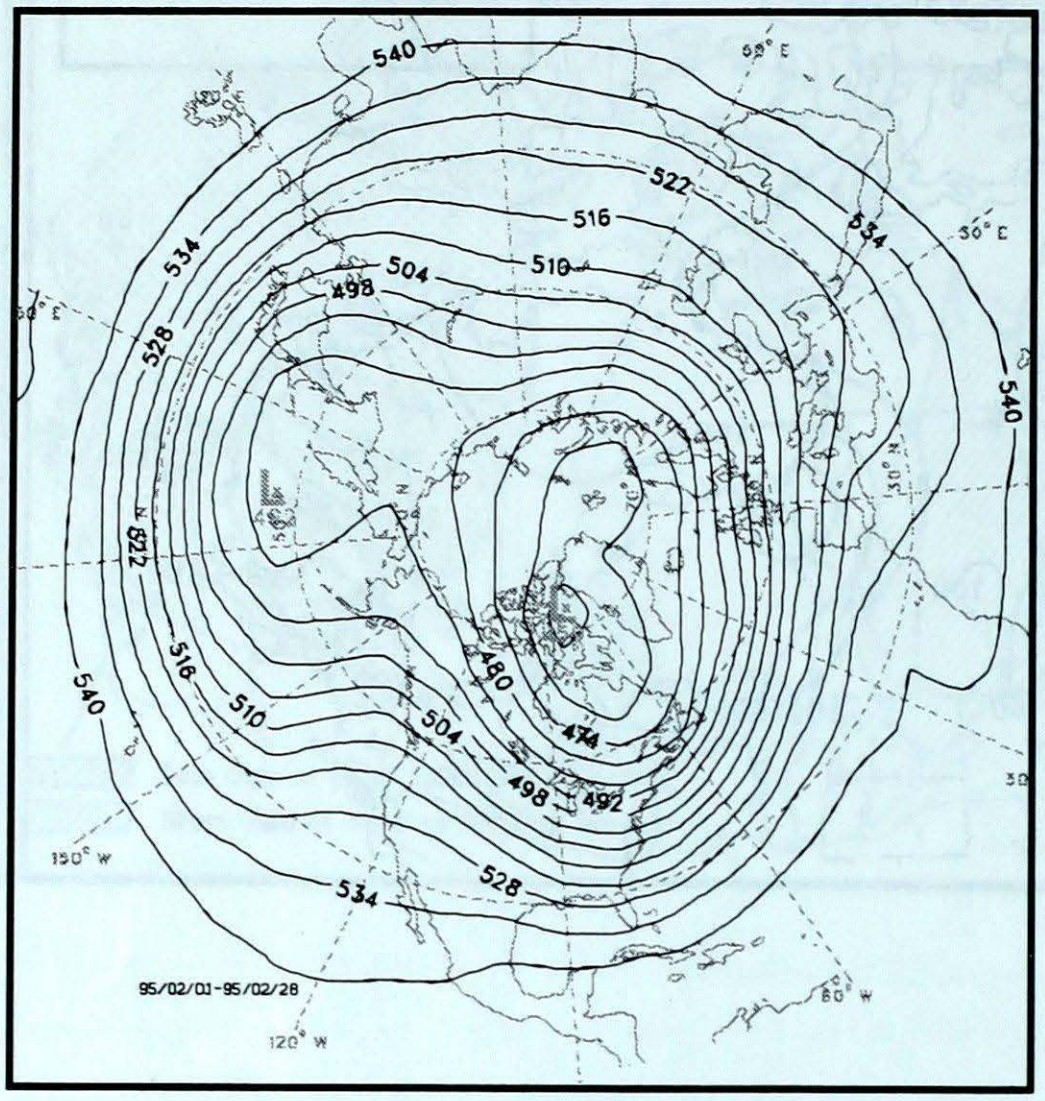
	1995	1994	NORMAL
BRITISH COLUMBIA			
Kamloops	31	41	87
Port Hardy	48	37	60
Prince George	144	228	200
Vancouver	25	12	54
Victoria	6	19	44
YUKON TERRITORY			
Whitehorse	116	142	106
NORTHWEST TERRITORIES			
Iqaluit	106	130	168
Inuvik	152	116	130
Yellowknife	123	111	107
ALBERTA			
Calgary	50	59	96
Edmonton Mun.	76	134	100
Grande Prairie	116	195	141
SASKATCHEWAN			
Estevan	69	153	81
Regina	67	101	83
Saskatoon	55	***	83
MANITOBA			
Brandon	95	63	84
The Pas	90	97	117
Winnipeg	74	69	90
ONTARIO			
Kapuskasing	193	175	237
London	128	96	172
Ottawa	138	202	182
Sudbury	107	189	194
Thunder Bay	150	103	158
Toronto	76	76	101
Windsor	82	111	93
QUEBEC			
Baie Comeau	285	233	277
Montréal	158	210	188
Québec	248	360	272
Sept-Îles	333	294	318
Sherbrooke	193	313	236
Val-d'Or	***	218	237
NEW BRUNSWICK			
Fredericton	216	171	219
Moncton	254	228	243
NOVA SCOTIA			
Sydney	197	258	223
Yarmouth	114	255	168
PRINCE EDWARD ISLAND			
Charlottetown	247	272	240
NEWFOUNDLAND AND LABRADOR			
Gander	418	376	270
St. John's	376	260	247



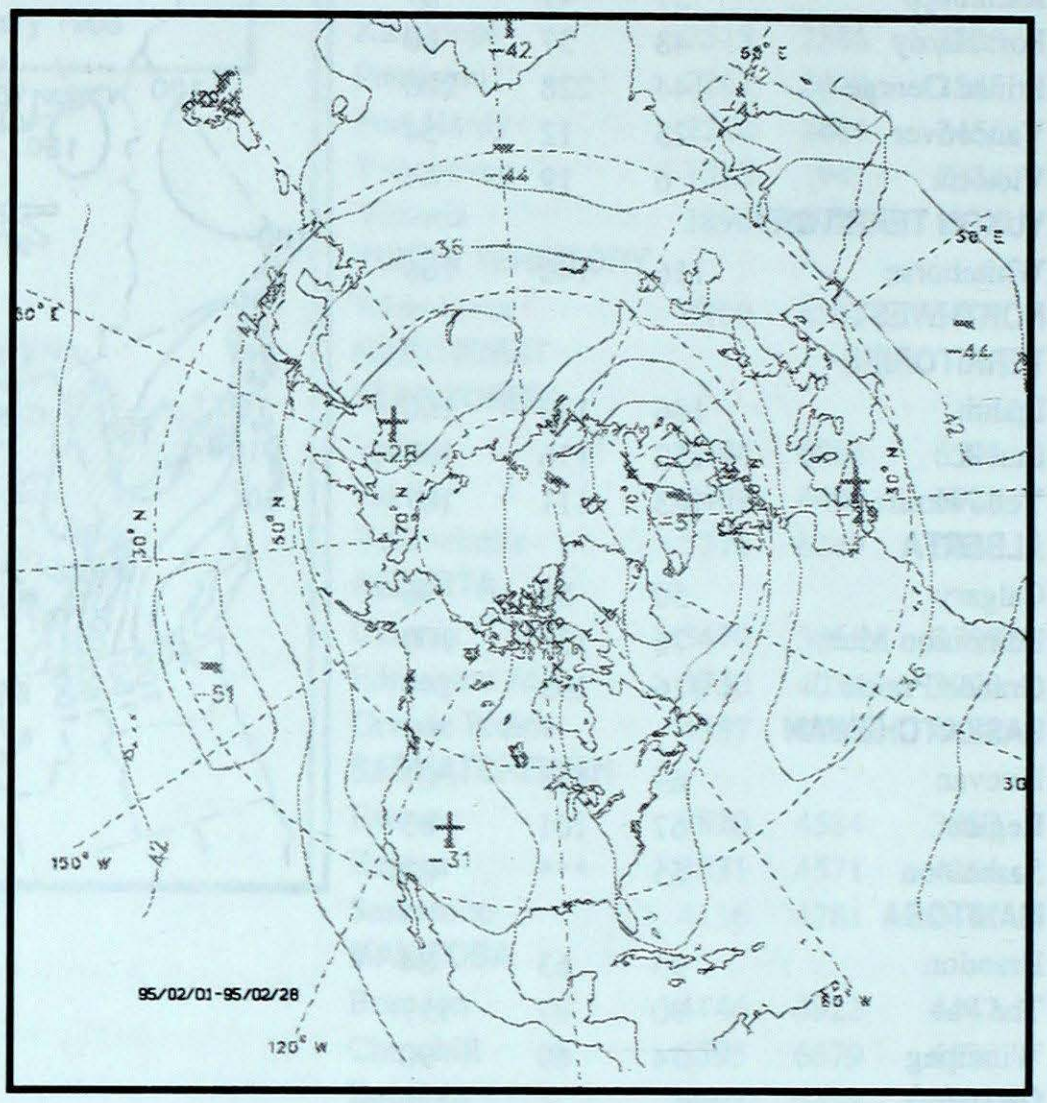


50-kPa ATMOSPHERIC CIRCULATION

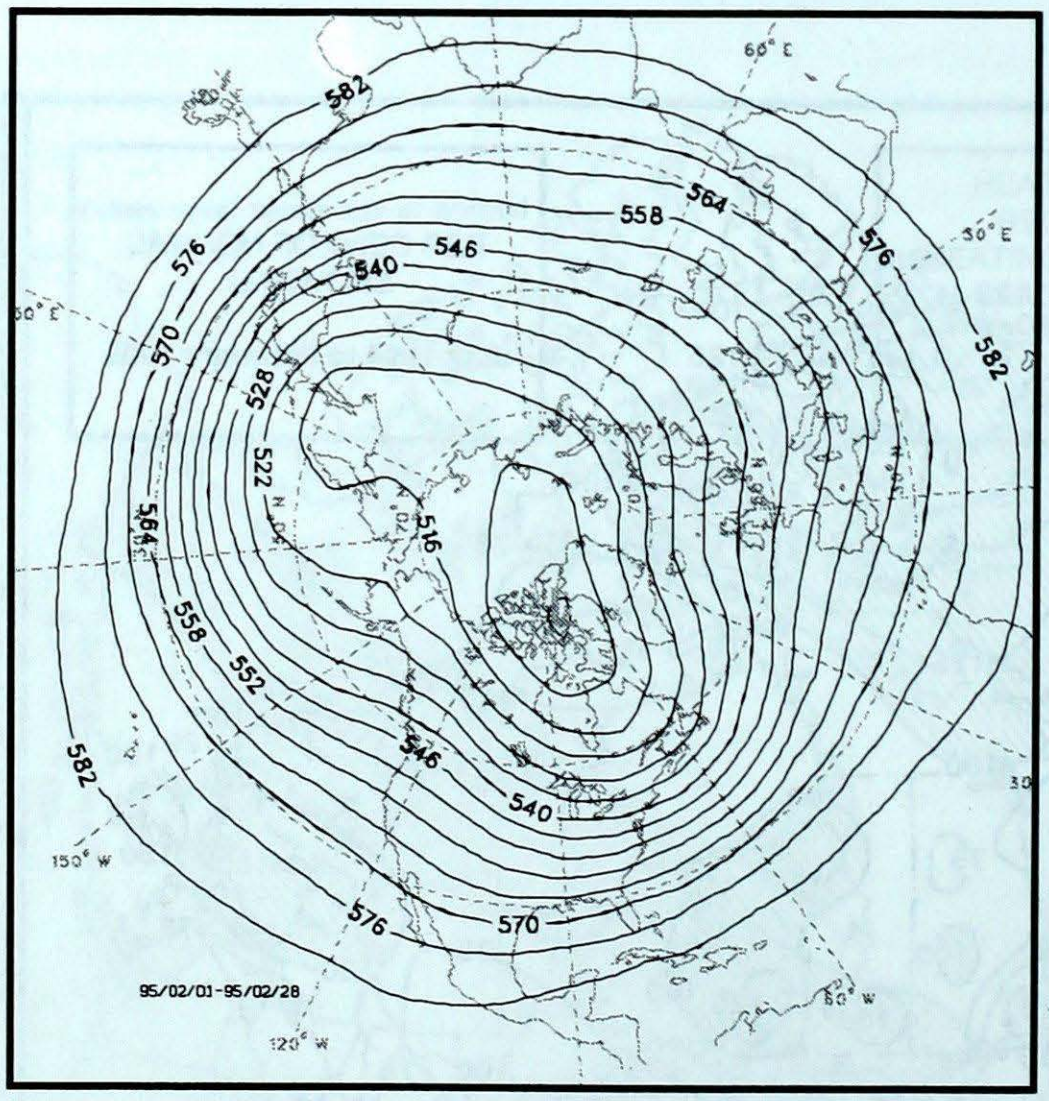
February 1995



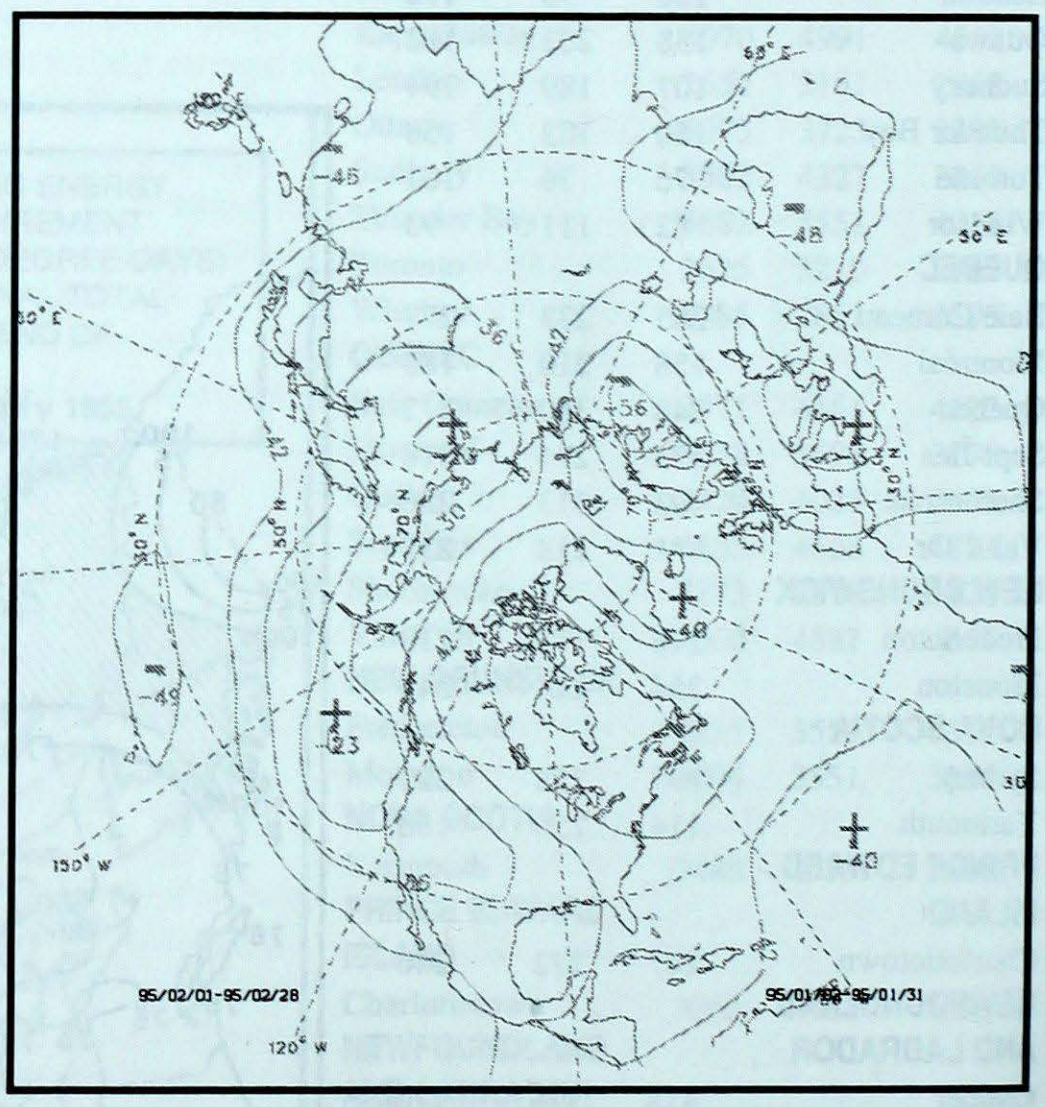
Mean geopotential heights
6-decametre interval



Mean geopotential height anomaly
6-decametre interval



Normal geopotential heights for the month
6-decametre interval



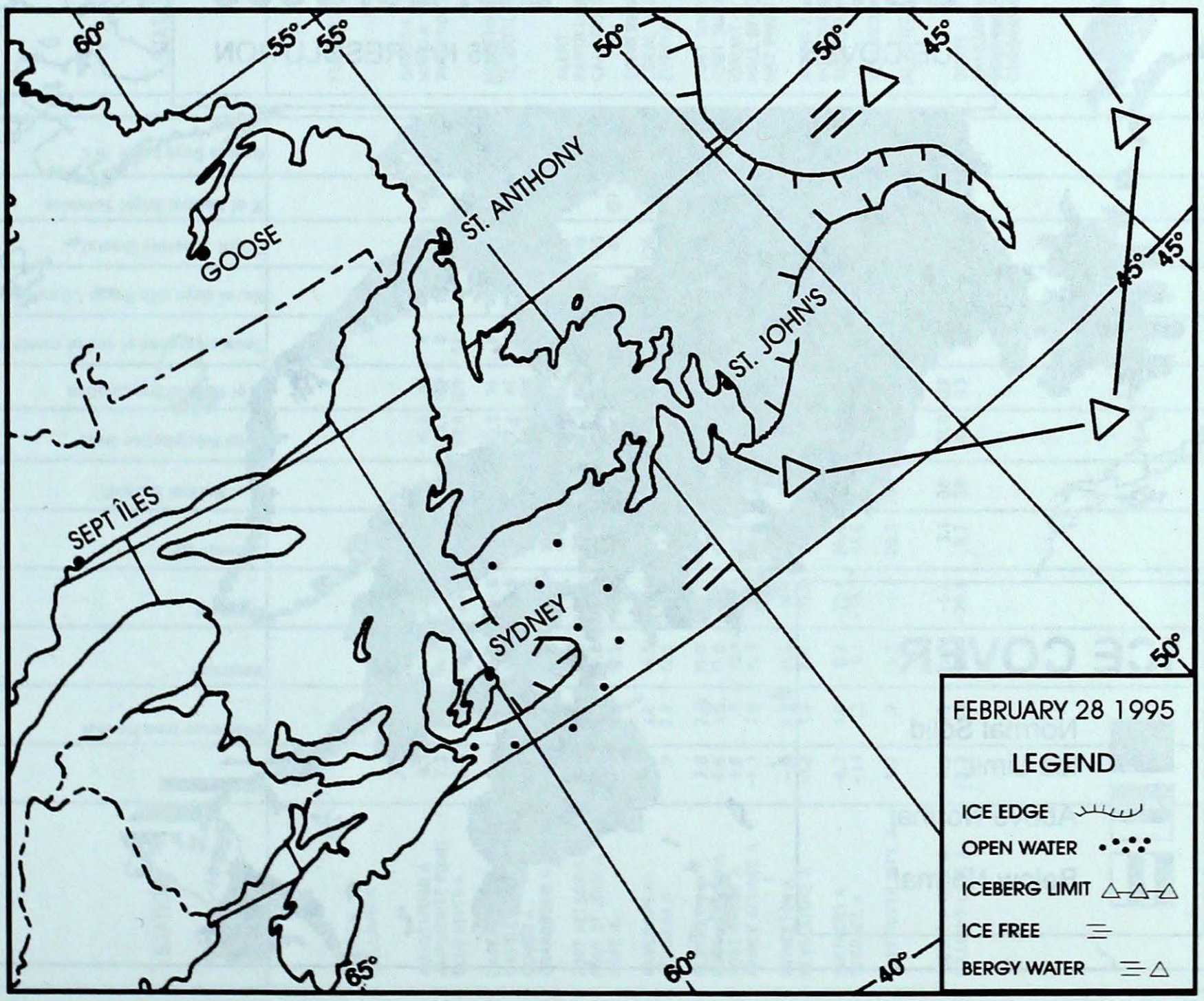
Mean height difference w/r to previous month
6-decametre interval

End-of-February Ice Edge (East Coast)

Mean air temperatures averaged five Celsius degrees below normal over northern Newfoundland waters and the northern Gulf of St. Lawrence. Over the southern sections, mean temperatures were one to two degrees below normal. As a result, ice conditions over the Gulf of St. Lawrence were similar to a normal ice year and ice over Newfoundland waters was approximately three weeks ahead of normal.

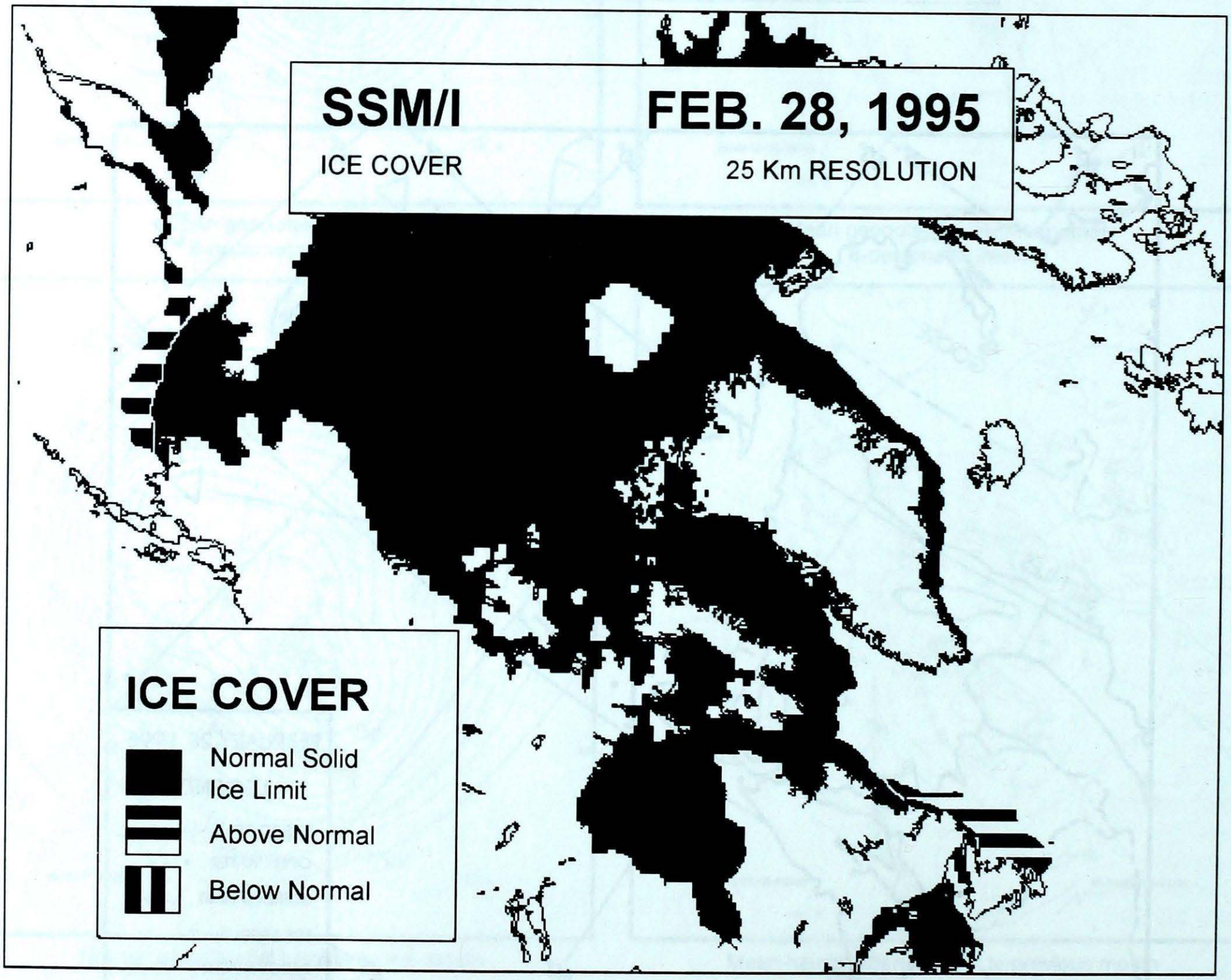
Ice Services-Ottawa

February 1995	Freezing Degree-Days	
	Accumulated	Normal (1962-87)
Sept-Îles	1282	1178
Sydney	317	339
St. John's	438	227
St. Anthony	1012	710
Goose	1667	1397



End-of-February Ice Image

Arvids Silis
Climate Processes and Earth Oberservation Branch



FEBRUARY 1995

STATION	Temperature C Mean	Difference from Normal	Maximum	Minimum	Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
BRITISH COLUMBIA													
ABBOTSFORD A	6.1	1.7	17.5	-3.5	11.8	99	16.4	10	*	12	92	119	332.9
AMPHITRITE POINT	7.3	1.2	14.0	-3.3	8.4	271	353.1	102	0	14	*	*	300.2
BLUE RIVER A	-2.8	1.9	10.0	-23.8	34.8	57	69.4	109	54	11	95	164	*
CAPE SCOTT	6.4	1.3	14.0	-.9	8.7	91	183.6	74	0	14	*	*	326.4
CASTLEGAR A	1.4	2.0	11.6	-16.9	8.2	19	27.4	47	0	7	104	154	466.1
COMOX A	4.9	.9	14.8	-5.8	17.8	123	100.2	80	0	12	108	*	367.9
CRANBROOK A	-1.7	2.1	13.5	-23.3	3.2	12	10.4	48	0	4	130	126	551.4
FORT NELSON A	-17.1	-.2	5.3	-32.4	32.1	138	22.1	113	56	5	118	*	981.5
FORT ST JOHN A	-10.6	.8	7.6	-27.5	30.1	99	28.1	103	28	8	108	*	799.9
HOPE A	4.9	1.5	13.5	-8.2	19.0	61	249.4	128	0	13	61	127	367.0
KAMLOOPS A	1.7	3.0	14.5	-12.4	.2	2	11.2	70	0	1	130	139	455.3
KELOWNA A	.9	2.9	12.5	-14.8	1.6	11	21.0	86	0	6	105	152	477.9
PENTICTON A	2.8	2.2	15.0	-13.6	2.4	21	12.4	63	0	3	115	153	427.6
PORT ALBERNI A	4.4	1.0	12.8	-8.3	40.2	156	244.8	98	0	13	*	*	*
PORT HARDY A	4.6	.7	13.1	-6.1	23.2	221	118.0	74	0	15	96	128	373.9
PRINCE GEORGE A	-4.3	1.8	11.3	-20.9	21.6	61	22.8	58	0	9	94	108	625.3
PRINCETON A	-.7	2.3	11.0	-19.0	3.6	15	27.6	93	0	5	99	*	*
REVELSTOKE A	-1.2	1.6	8.4	-17.0	47.0	61	81.6	94	28	11	84	150	537.4
SMITHERS A	-4.3	1.0	8.2	-22.4	26.4	86	23.0	70	24	7	88	105	625.8
TERRACE A	-1.1	.3	6.1	-12.3	51.6	72	118.1	96	2	10	86	119	534.4
VANCOUVER INT'L A	5.3	.7	13.3	-5.7	20.2	269	140.1	122	0	12	93	107	356.1
VICTORIA INT'L A	6.3	1.5	15.3	-5.6	3.1	38	121.0	122	0	12	102	120	327.8
WILLIAMS LAKE A	-3.3	.9	12.2	-20.8	9.7	38	10.4	43	0	4	115	106	596.4

STATION	Temperature C Mean	Difference from Normal	Maximum	Minimum	Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
YUKON TERRITORY													
DAWSON A	-19.5	*	2.4	-26.3	22.2	*	13.2	*	*	*	*	*	*
MAYO A	-17.0	2.9	3.5	-39.4	9.8	55	6.2	38	33	*	*	*	*
WHITEHORSE A	-12.0	1.2	6.9	-34.7	26.9	177	15.0	113	21	3	113	124	894.1
NORTHWEST TERRITORIES													
ALERT	-33.8	-0.2	-22.5	-43.0	*	*	1.8	35	*	*	*	*	*
BAKER LAKE A	-31.1	1.5	-14.8	-39.8	.8	15	.6	12	*	*	*	*	1374.7
CAMBRIDGE BAY A	-32.2	2.2	-14.7	-42.9	4.2	91	4.0	100	29	2	82	159	1406.5
COPPERMINE A	-27.3	3.8	-9.6	-43.0	14.2	222	9.5	153	57	5	90	117	1249.7
CORAL HARBOUR A	-30.8	-1.4	-11.9	-41.2	1.6	17	1.6	18	8	1	153	134	1365.9
EUREKA	-38.8	-.8	-19.2	-49.4	3.7	142	3.7	154	9	*	3	*	1591.3
FORT SIMPSON A	-21.7	.8	-3.1	-37.0	29.4	156	22.5	140	57	5	111	115	1111.1
FORT SMITH A	-20.6	1.2	-1.1	-35.0	25.6	139	17.6	111	49	5	***	898	1079.8
IQALUIT	-28.8	-2.9	-5.5	-39.5	7.0	29	6.2	27	22	3	107	112	1309.3
HALL BEACH A	-32.5	-.4	-13.7	-42.7	5.0	59	3.6	43	36	1	*	*	1416.0
HAY RIVER A	-20.7	1.0	1.3	-35.9	26.0	134	23.2	129	72	6	*	*	1083.6
INUVIK A	-26.0	2.9	1.4	-44.2	28.5	226	23.2	221	54	5	91	139	1231.6
NORMAN WELLS A	-23.2	3.0	-4.3	-39.8	37.0	214	27.6	171	34	7	66	87	1151.6
RESOLUTE A	-33.3	-.1	-20.4	-45.0	11.0	355	9.5	317	49	1	9	48	1435.6
YELLOWKNIFE A	-23.7	1.4	-6.2	-36.4	18.8	144	14.5	129	32	5	127	125	1167.9
ALBERTA													
BANFF	-6.0	.3	*	*	*	*	19.7	71	*	*	*	*	*
CALGARY INT'L A	-5.2	2.1	17.6	-25.0	2.5	13	2.1	14	1	1	154	120	649.1
COLD LAKE A	-12.0	1.6	8.0	-29.5	15.5	86	13.8	87	30	4	131	105	840.0
CORONATION A	-8.3	3.4	6.8	-27.5	*	*	*	*	*	*	*	*	*

FEBRUARY 1995

STATION	Temperature C Mean	Difference from Normal	Maximum	Minimum	Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
EDMONTON INT'L A	-10.5	.9	9.5	-28.3	8.0	37	10.6	60	11	0	146	122	797.7
EDMONTON MUNICIPAL	-8.3	1.3	8.6	-23.5	7.7	*	10.9	58	6	14	148	128	735.6
EDSON A	-8.7	1.6	*	*	*	*	7.6	46	*	*	*	*	*
FORT MCMURRAY A	-13.9	1.5	6.8	-32.6	26.5	121	18.9	101	28	6	127	98	893.8
GRANDE PRAIRIE A	-10.6	1.5	6.0	-29.1	27.1	102	26.1	110	32	10	117	*	801.0
HIGH LEVEL A	-18.0	.3	6.3	-37.7	33.3	162	28.2	175	44	7	117	93	1008.0
JASPER	-5.3	1.2	10.4	-26.0	9.6	44	30.8	150	*	8	114	*	652.6
LETHBRIDGE A	-3.6	1.8	18.7	-28.3	4.8	22	3.6	19	3	2	138	112	604.6
MEDICINE HAT A	-4.5	3.2	18.4	-25.1	10.8	59	6.8	41	7	2	136	111	629.6
PEACE RIVER A	-13.8	-0.3	5.9	-33.0	19.9	77	20.4	97	29	5	*	*	889.2
RED DEER A	-8.6	2.1	12.5	-27.0	5.0	26	4.8	27	3	2	*	*	744.2
ROCKY MTN HOUSE A	-7.1	.3	15.5	-28.0	*	*	11.9	61	*	*	*	*	*
WHITECOURT A	-8.7	1.5	10.8	-27.2	20.2	76	16.5	69	24	7	*	*	748.5
SASKATCHEWAN													
ESTEVAN A	-10.9	1.1	5.3	-28.9	12.2	69	13.8	81	5	6	136	100	809.9
KINDERSLEY	-9.7	2.8	8.3	-27.2	2.0	13	1.2	7	0	0	158	*	773.8
LA RONGE A	-16.1	1.5	8.8	-37.0	22.2	95	18.2	117	40	5	*	*	954.6
MEADOW LAKE A	-14.0	*	6.4	-34.3	13.8	*	11.0	*	24	5	118	*	895.5
MOOSE JAW A	-7.6	3.9	11.1	-24.2	2.2	12	3.1	20	0	1	164	131	715.8
NIPAWIN A	-15.1	*	8.4	-35.2	23.6	*	16.4	*	35	4	118	*	926.6
NORTH BATTLEFORD A	-12.9	1.2	8.0	-31.4	8.4	54	7.4	51	7	3	*	*	865.3
PRINCE ALBERT A	-14.1	2.4	8.5	-34.0	25.6	155	23.0	154	29	6	132	108	900.1
REGINA A	-11.2	2.4	5.2	-27.5	9.8	54	8.0	50	3	4	149	123	816.6
SASKATOON A	-12.9	1.7	5.4	-29.3	14.2	77	12.9	79	130	5	140	*	866.4
SWIFT CURRENT A	-7.7	2.6	*	*	*	*	12.3	72	*	*	*	*	*
WYNYARD	-13.6	1.6	*	*	*	*	17.2	112	*	*	*	*	*
YORKTON A	-13.9	1.6	4.7	-29.4	31.2	163	30.4	169	49	7	136	105	894.3
MANITOBA													
BRANDON A	-14.9	.8	3.7	-31.7	28.8	146	25.2	135	31	4	120	*	919.5
CHURCHILL A	-26.8	-.9	*	*	*	*	8.4	64	*	*	*	*	*
DAUPHIN A	-14.4	1.2	*	*	*	*	21.8	125	*	*	*	*	*
GILLAM A	-25.1	-1.8	-8.8	-40.3	41.0	184	35.8	198	67	11	*	*	1205.8
ISLAND LAKE	-22.1	-2.2	-3.7	-38.9	26.0	123	12.0	76	35	5	*	*	1117.0
LYNN LAKE A	-22.3	-.6	-5.6	-38.2	20.0	132	15.6	104	33	5	133	101	1128.8
NORWAY HOUSE A	-20.1	*	-3.2	-36.3	21.0	*	14.6	*	37	4	*	*	1066.6

STATION	Temperature C Mean	Difference from Normal	Maximum	Minimum	Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
PORTAGE LA PRAIRIE	-13.6	1.0	*	*	*	*	12.0	56	*	*	*	*	*
THE PAS A	-16.8	1.2	6.3	-32.8	19.0	92	11.8	77	32	3	120	90	973.6
THOMPSON A	-22.8	-1.0	-5.7	-41.4	23.1	206	17.5	156	46	6	147	102	114.1
WINNIPEG INT'L A	-16.2	-.6	3.8	-31.4	12.2	65	9.6	55	21	3	109	76	956.5
ONTARIO													
EARLTON A	-15.8	-1.7	2.4	-33.3	39.5	84	37.2	79	45	9	*	*	948.1
GERALDTON A	-18.7	*	-1.5	-38.8	57.4	*	53.2	*	64	11	*	*	1028.7
HAMILTON RBG	-5.7	*	9.0	-19.5	18.0	*	20.3	*	7	8	113	*	*
HAMILTON A	-7.3	-1.0	7.4	-19.8	31.8	106	20.8	43	*	*	*	*	*
KAPUSKASING A	-18.1	-1.9	-3.0	-37.2	52.0	118	51.3	119	76	9	*	*	1010.5
KENORA A	-15.6	-1.2	5.2	-32.7	16.6	65	15.6	68	49	6	*	*	938.9
KINGSTON A	-8.4	-.5	5.4	-26.8	32.6	91	35.8	63	8	9	119	92	739.0
LONDON A	-7.6	-1.5	4.6	-2.0	51.4	132	50.6	84	5	10	86	88	716.0
MUSKOKA A	-11.2	-1.6	6.7	-28.3	84.2	164	73.4	118	31	11	*	*	816.5
NORTH BAY A	-13.4	-2.1	4.5	-33.6	49.8	98	33.2	59	21	9	117	94	879.9
OTTAWA INT'L A	-10.4	-.9	5.3	-28.9	38.4	76	30.1	50	17	9	132	110	796.2
PETAWAWA A	-13.2	-1.1	5.4	-30.2	20.3	45	16.6	32	6	6	*	*	873.6
PETERBOROUGH A	-9.9	-1.1	6.3	-28.0	25.2	80	23.0	48	6	5	*	*	782.6
PICKLE LAKE	-19.2	-.5	-3.0	-34.9	27.2	100	26.0	102	52	7	*	*	1045.9
RED LAKE A	-18.5	-1.7	4.0	-38.7	38.3	167	24.6	123	62	9	121	*	1023.4
ST CATHARINES A	-5.7	-.7	8.9	-17.6	24.2	107	31.0	68	4	10	99	*	664.8
SARNIA A	-5.8	.1	8.5	-20.1	10.4	44	22.6	52	2	5	110	104	665.5
SAULT STE MARIE A	-11.8	-.3	4.0	-30.2	38.0	60	36.4	66	12	8	118	105	833.1
SIOUX LOOKOUT A	-17.0	-1.3	3.7	-37.8	38.4	137	38.4	139	76	12	*	*	989.1
SUDBURY A	-13.9	-1.4	2.2	-31.9	34.0	76	28.3	60	34	8	139	105	893.8
THUNDER BAY A	-13.2	-.2	5.3	-30.3	51.2	167	41.3	146	34	11	152	104	874.6
TIMMINS A	-17.2	-1.6	.3	-36.9	58.8	111	50.4	111	62	10	*	*	986.6
TORONTO	-5.4	*	8.8	-21.2	14.2	*	23.0	*	3	5	*	*	653.7
TORONTO INT'L A	-7.3	-1.2	7.8	-22.8	14.4	54	20.8	45	4	5	*	*	709.5
TORONTO ISLAND A	*	*	*	*	*	*	*	*	*	*	*	*	*
TRENTON A	-8.3	-1.8	5.4	-25.4	28.8	81	29.5	52	4	5	*	*	789.3
WATERLOO WELLINGTON	-8.3	-.4	5.8	-21.7	15.2	49	26.0	51	5	8	*	*	735.3
WAWA A	-14.6	*	.1	-32.8	83.4	*	44.0	*	50	12	*	*	914.0
WIARTON A	-8.9	-1.4	5.2	-23.1	85.2	141	49.9	78	14	13	103	100	746.1
WINDSOR A	-4.6	-.8	10.3	-19.1	17.6	77	22.4	45	1	6	*	*	633.0

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STATION	Temperature C				Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
	Mean	Difference from Normal	Maximum	Minimum									
QUEBEC													
BAGOTVILLE A	-15.8	-2.0	2.5	-30.7	99.7	163	67.7	121	72	13	*	*	946.1
BAIE COMEAU A	-15.4	-2.3	.9	-29.5	97.0	133	88.8	125	60	11	127	106	934.4
BLANC SABLON A	-15.3	-4.6	4.0	-28.9	87.6	86	94.6	92	32	17	140	*	934.2
CHIBOUGAMAU CHAPAIS	-20.2	*	-1.9	-36.1	*	*	52.3	*	*	17	*	*	1069.0
GASPE A	-14.7	*	5.4	-30.9	92.3	*	92.1	*	182	7	136	*	914.8
KUUJJUAQ A	-25.9	-3.5	-3.1	-39.9	25.0	74	24.2	73	*	7	142	132	1229.8
KUUJJUARAPIK A	-25.5	-2.9	-10.1	-40.0	22.8	94	21.0	89	26	8	137	110	1218.0
LA GRANDE IV A	-25.1	*	-8.7	-41.8	37.8	*	31.2	*	46	13	118	*	1208.2
LA GRANDE RIVIERE A	-23.5	*	-10.6	-38.4	13.4	*	13.4	*	45	7	141	*	1160.9
MONT JOLI A	-13.5	-3.0	2.7	-25.1	112.4	149	106.6	143	70	130	***	***	*
MONTREAL INT'L A	-9.9	-0.9	5.0	-27.5	53.6	104	58.0	89	10	12	142	*	781.8
MONTREAL MIRABEL I/	-11.6	*	3.5	-28.5	51.8	*	56.4	*	19	12	*	*	829.9
NATASHQUAN A	-16.0	-4.7	3.3	-31.6	72.8	130	71.0	90	108	12	135	103	*
QUEBEC A	-12.8	-2.0	1.7	-28.3	95.0	135	74.2	95	85	11	120	106	862.1
ROBERVAL A	-16.2	-1.5	3.0	-29.5	52.3	87	51.7	87	2	9	122	*	958.6
SEPT-ILES A	-17.1	-4.6	-1.3	-34.4	111.4	151	112.0	141	62	11	125	91	*
SHERBROOKE A	-12.0	-.5	7.1	-30.7	96.4	171	93.4	155	30	13	100	*	841.0
ST HUBERT A	-10.1	-1.1	5.2	-26.9	43.8	*	43.8	61	12	12	138	*	785.7
VAL D'OR A	-17.8	-2.9	.5	-35.4	48.4	97	38.4	76	30	11	110	82	1001.6
NEW BRUNSWICK													
CHARLO A	-13.5	-2.1	3.3	-28.6	106.1	144	91.8	143	*	*	140	103	893.5
FREDERICTON A	-10.9	-2.5	5.7	-30.3	88.6	140	84.0	94	43	110	*	*	808.0
MONCTON A	-10.2	-2.5	6.9	-28.8	83.4	122	92.3	93	22	13	167	135	791.4
SAINT JOHN A	-9.3	-1.8	6.8	-27.2	64.9	103	113.9	98	15	11	*	*	765.4

STATION	Temperature C				Snowfall (cm)	% of Normal Snowfall	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	% of Normal Bright Sunshine	Degree Days below 18 C
	Mean	Difference from Normal	Maximum	Minimum									
NOVA SCOTIA													
GREENWOOD A	-6.6	-1.2	10.9	-23.0	61.4	98	105.6	117	6	16	*	*	688.0
HALIFAX INT'L A	-6.7	-.6	8.7	-21.7	32.4	49	112.8	84	*	*	*	*	*
SABLE ISLAND	-1.4	-.4	8.0	-10.0	10.4	33	94.8	80	0	11	73	100	543.5
SHEARWATER A	-5.5	-1.0	9.1	-19.9	20.3	39	133.0	109	3	9	157	121	659.4
SYDNEY A	-7.2	-1.3	7.0	-19.4	81.5	119	110.5	89	20	13	130	118	705.4
YARMOUTH A	-3.8	-.6	7.3	-16.9	45.2	84	134.6	118	0	18	117	126	610.0
PRINCE EDWARD ISLAND													
CHARLOTTETOWN A	-9.3	-1.8	6.6	-25.5	79.0	120	82.6	85	26	14	*	*	762.5
NEWFOUNDLAND													
BONAVISTA	-6.9	-1.7	7.5	-16.5	72.6	161	85.4	99	109	14	*	*	695.4
BURGEO	-7.2	-1.5	5.0	-18.9	98.5	194	114.4	88	9	16	*	*	706.6
CARTWRIGHT	-16.5	-3.9	4.4	-30.8	83.0	127	83.4	123	161	13	145	137	965.3
COMFORT COVE	-10.3	-2.6	7.4	-22.4	46.4	63	56.6	69	96	12	*	*	793.7
DANIELS HARBOUR	-11.5	-3.8	8.1	109.2	*	*	113.1	139	45	15	119	158	821.8
DEER LAKE A	-13.3	-4.1	7.5	-38.3	88.9	136	79.3	114	119	13	*	*	876.5
GANDER INT'L A	-10.0	-3.2	7.8	-22.3	71.6	94	69.6	70	103	13	106	107	782.9
GOOSE A	-19.3	-4.8	-.1	-32.2	30.0	50	24.2	40	180	6	163	140	1043.4
MARY'S HARBOUR	-15.3	-5.2	3.6	-29.4	57.8	91	58.0	74	116	10	*	*	*
ST ANTHONY	-13.6	-2.4	3.0	-26.3	114.7	189	109.3	133	162	13	*	*	884.8
ST JOHN'S A	-6.6	-2.1	7.5	-16.2	101.7	136	140.8	100	85	14	103	*	688.1
ST LAWRENCE	-5.7	-1.2	8.4	-17.4	77.1	159	158.1	146	47	17	*	*	662.3
STEPHENVILLE A	-9.4	-3.2	6.6	23.5	125.8	166	134.0	149	109	21	87	*	762.6
WABUSH LAKE A	-24.2	-3.4	-6.7	-39.6	67.7	*	59.3	123	97	11	121	*	1182.3

AGROCLIMATOLOGICAL STATIONS — FEBRUARY 1995

STATION	Temperature C				Snowfall (cm)	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	Degree days above 5 C	
	Mean	Difference from Normal	Maximum	Minimum							This month	Since jan. 1st
BRITISH COLUMBIA												
AGASSIZ	6.0	1.5	16.0	-5.5	10.6	191.9	108	0	13	88	55.8	92.1
SUMMERLAND	2.0	1.9	15.5	-13.5	.9	10.4	55	0	3	111	10.4	10.4
ALBERTA												
BEAVERLODGE	-9.4	.8	7.0	-27.5	24.0	27.1	107	26	11	113	.0	.0
LACOMBE	-9.1	1.4	10.0	-28.0	2.8	2.8	16	4	2	••	.0	.0
SASKATCHWAN												
INDIAN HEAD	-11.5	2.3	6.0	-29.0	13.9	14.1	79	27	3	••	.0	.0
MELFORT	-14.3	2.0	5.0	-30.0	21.0	21.0	130	56	6	116	.0	.0
SCOTT	-13.2	1.2	4.0	-39.0	1.0	6.4	49	1	3	129	.0	.0
SWIFT CURRENT	-7.3	3.1	8.8	-26.0	8.6	6.0	40	0	2	170	.1	.1
MANITOBA												
BRANDON	-14.4	.8	5.1	-32.3	27.2	27.2	136	42	6	••	.0	.0
MORDEN	-12.5	0.9	6.0	-26.0	25.2	25.6	94	16	5	128	.0	.0
GLENLEA	-16.3	-0.1	3.5	-33.0	6.2	6.2	32	32	3	122	.0	.0
ONTARIO												
DELHI	-6.5	-1.1	6.5	-20.0	20.1	27.3	48	0	7	••	.0	17.2
ELORA	-9.2	-1.9	5.0	-23.5	20.9	27.1	55	7	7	••	.0	3.5
HARROW	-5.0	-1.2	8.5	-20.0	3.0	2.6	5	•••	1	115	5.7	12.7
KAPUSKASING	-18.5	-2.2	-3.0	-39.5	49.1	43.8	106	41	9	103	.0	.0
OTTAWA	-9.7	-.2	5.9	-28.7	22.9	23.7	43	9	7	132	.0	1.1
SMITHFIELD	-7.3	-.7	9.6	-25.6	39.8	36.6	51	7	5	••	8.2	9.1

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Courtesy of Agriculture Canada

STATION	Temperature C				Snowfall (cm)	Total Precipitation (mm)	% of Normal Precipitation	Snow on ground at end of month (cm)	No. of days with Precip 1.0 mm or more	Bright Sunshine (hours)	Degree days above 5 C	
	Mean	Difference from Normal	Maximum	Minimum							This month	Since jan. 1st
QUEBEC												
LA POCATIERE	-12.3	-2.1	1.0	-25.5	64.0	46.0	65	40	8	132	.0	.0
L'ASSOMPTION	-11.2	-.6	3.3	-28.6	19.7	53.6	87	5	15	137	.0	.6
NORMANDIN	-18.7	-2.6	2.7	-37.2	•.•	41.6	77	36	12	111	.0	.0
NEW BRUNSWICK												
FREDERICTON	-10.6	-2.3	6.0	-31.5	52.8	64.8	74	19	8	163	2.3	2.5
NOVA SCOTIA												
KENTVILLE	-6.3	-1.1	9.5	-22.0	55.9	107.4	101	6	14	122	1.0	17.6
NAPPAN	-8.1	-1.2	9.0	-27.0	62.5	87.6	99	30	11	131	.0	3.8
PRINCE EDWARD ISLAND												
CHARLOTTETWN	•.•	•.•	•.•	•.•	•.•	•.•	••	•••	•••	••	•.•	•.•
NEWFOUNDLAND												
ST.JOHN'S WEST	-5.7	-1.4	8.0	-17.0	103.2	147.5	89	116	14	95	.0	.0

Courtesy of Agriculture Canada

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Rainfall was minimal with two freezing-rain events in southern Ontario contributing to the bulk of the less than 10 mm of rain for the month. As a result, all of southern Ontario and central Ontario, except Muskoka, were much drier than usual with 40-80% of normal. Toronto recorded 23 mm of total precipitation (normal 53 mm) and it was the city's driest February since 1980.

After a near-record cloudy January, a sunny February was a welcome sight. The sunniest location was Thunder Bay (152 hours, normal 136 hours). St. Catharines was the cloudiest site, with 99 hours of sunshine (four hours below normal).

Quebec

Temperatures throughout the province were well below normal. Mean monthly temperatures ranged from 0.9 degree below normal at Maniwaki to 4.9 degrees below normal at Gaspé. Saguenay/Lac St-Jean recorded a record-low maximum of -22.9°C on the 5th (old record -22.8°C, 1972). Precipitation totals were variable, from 52% of normal at Maniwaki to 174% of normal at Mont Joli. Natashquan and Gaspé had over 100 cm of snow on the ground at month's end. Sunshine values were slightly below to above normal. Blanc Sablon recorded 140.2 hours of sunshine, 157% of the normal 89.2 hours. Winds exceeded 90 km/h, February 4-5, piling snow as high as the rooftops on the Gaspé Peninsula. During the two days, Gaspé recorded 63 cm of snow and Sept-Îles, 55 cm.

Maritimes

The month was cold with varying amounts of precipitation. Sunshine values were above normal throughout the region, except Sable Island being slightly below. Charlottetown, Prince Edward Island, recorded 153 hours of sunshine, 37.2 hours more than normal. New Brunswick totals were 7.7 to 45.5 hours above normal while Nova Scotia ranged from 1.2 hours less to 26.9 hours above normal. Snowfall totals in New Brunswick and Prince Edward Island were well above normal. In Nova Scotia, snowfall was significantly less than normal along the Atlantic Coast of the mainland while the remainder of the province was near- or slightly-above normal.

Across the region, the mean-monthly temperature was -7.9°C (1.2 degrees below the normal -6.7°C). On the 7th, Chatham, New Brunswick, recorded -30.7°C (old record -30.0°C, 1890) and Summerside, P.E.I., -25.0°C (old record -22.2°C, 1905). In New Brunswick, mean-monthly temperatures varied from 3.1 degrees below normal at Charlo to 2.1 degrees below normal at Moncton. Charlottetown, P.E.I., had a mean-monthly temperature 1.3 degrees below normal. Mean-monthly temperatures in Nova Scotia ranged from 0.9 degree below normal at Greenwood to 0.1 degree below normal at Sable Island.

Precipitation totals varied from 84 to 151% of normal with large inconsistencies across the region. New Brunswick's total precipitation ranged from 96-151% of normal with snowfall totals from 64% of normal at Saint John to 185% of normal at St. Leonard. Charlottetown, P.E.I., recorded 90% of normal precipitation and 121% of normal snowfall. The range in precipitation totals for Nova Scotia was 84 to 126% of normal with snowfall totals from 35% of normal at Sable Island to 116% at Greenwood.

Newfoundland and Labrador

Heavy snowfalls continued into February, in Newfoundland. Stephenville recorded 126 cm (normal 76 cm), Burgeo, 99 cm (normal 50.8 cm) and St. Johns 102 cm (normal 74 cm). Several disturbances contributed to the high snowfall amounts. A severe storm on the 13th brought blizzard conditions that disrupted transportation, caused power outages, closed schools and some businesses. A disturbance between the 21st and 22nd, dropped 32 cm of snow in the Port aux Basques area. The south coast and the Avalon Peninsula received 20-25 cm of snow on the 28th. At month's end, many locations had over 100 cm of snow on the ground. Winds were a major contention in Port aux Basques - 155 km/h on the 5th and 159 km/h, on the 13th.

Temperatures were significantly colder than normal - Deer Lake 4.2 degrees below normal and St. Anthony, 4.8 degrees below normal. Other regions ranged from one to three degrees below normal.

Conditions in Labrador were clear and cold. Mean temperatures were well below normal, including Nain -21.5°C (normal -15.4°C) and Mary's Harbour -15.3°C (normal -10.4°C). Goose Bay's snowfall total was below normal while Nain, Cartwright and Wabush all recorded above-normal snowfall totals. Sunshine values were above normal - Goose Bay recorded 46.4 hours above the normal 117 hours.