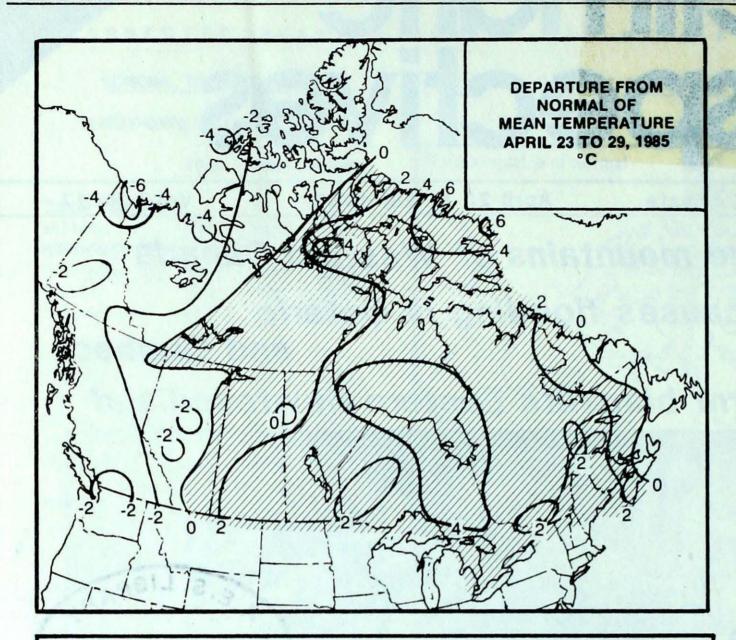


This NOAA 6 satellite image of April 25, 1985 shows Newfoundland in the eye of a cyclone. For more detail see page 3.





#### WEEKLY TEMPERATURE EXTREMES (\*C)

#### MAXIMUM

1. 2 7 1.

MINIMUM

-26.2 Komakuk Beach -33.5 Eureka -10.7 Puntzi Mountain -9.0 Fort Chipewyan -10.9 Uranium City -12.0 Churchill -12.4 Landsdowne House -18.2 Quaqtaq -6.0 St. Stephen

## ACROSS THE COUNTRY ...

#### Yukon and Northwest Territories

A series of weather systems gave substantial amounts of new snow to some districts. Snowfalls generally ranged between 5 and 10 cm, but as much as 10 to 30 cm of new snow fell in the southern Yukon and on Baffin island, further increasing the already deep snow pack. Travellers advisories were issued for the Dempster Highway due to blowing and drifting snow. The Alaska Highway was impassable between Teslin and Burwash, because of a 30 cm snowfall. In a 2-day period, Whitehorse received more snow than the normal snowfall for the whole month of April. Daytime temperatures at several locations on Baffin Island climbed above freezing this week.

#### British Columbia

Recurring Pacific weather systems gave frequently cloudy and cool weather conditions. Heavy rains fell along the coast. On April 27, Hope was deluged with more than 95 mm of rain, and in addition tallied a weekly total of more than 200 mm. Heavy snowfalls were reported at higher elevations. Several mountain passes were closed. Crews were kept busy controlling avalanches. Concern has been expressed about the well above normal snow-pack in the mountains and subsequent heavy mountain runoff.

### Prairies

Temperatures in Alberta were on the cool side, but readings in Saskatchewan and Manitoba reached the mid to high twenties by the end of the week. At Winnipeg, the mercury soared to 32°C on April 28. Several low temperature records were broken in the north. During the first half of the week, heavy wet snow fell in the foothills and southern portions of Alberta. The Jasper and Edson districts received 15 to 20 cm of new snow, while snowfalls in the south ranged between 10-20 cm over a 2-day period. Even though field work was delayed, the precipitation was beneficial and welcomed. Spring seeding has started in southern areas of Saskatchewan and Manitoba.

# YUKON TERRITORY

ALBERTA SASKATCHEWAN

MANITOBA ONTARIO

QUÉBEC

NEW BRUNSWICK NOVA SCOTIA 10.4 Dawson 11.7 Fort Smith 19.5 Penticton

22.2 Medicine Hat 28.9 Estevan

31.6 Winnipeg 29.2 Windsor

21.6 Maniwaki

22.8 Fredericton 18.6 Greenwood 2

PRINCE EDWARD ISLAND NEWFOUNDLAND

Truro 16.9 Summerside 15.8 Stephenville

-2.3 Charlottetown -12.0 Wabush Lake

-4.9 Greenwood

#### ACROSS THE NATION

Warmest mean temperature Coolest mean temperature 14.6 Windsor, ONT -24.2 Eureka, NWT Ontario

high temperature Many NEW records were established during the early part of the week. In the south, under mainly sunny skies, maximum temperatures reached 25 to 30 degrees. The record heat wave rapidly melted the remaining snowpack in central and northern Ontario, causing rivers and streams to swell. Rivers in Muskoka were at an all-time peak levels. Haliburton was one of several communities covered by flood waters. In northern Ontario, where plenty of snow still remains in the bush, rivers were still on the rise. The Albany river rose more than one metre, forcing the helicopter evacuation of several Indian communities near James Bay. Communities near Sudbury, North Bay and Sault Ste. Marie were also hard hit because of flash flooding.

#### Québec

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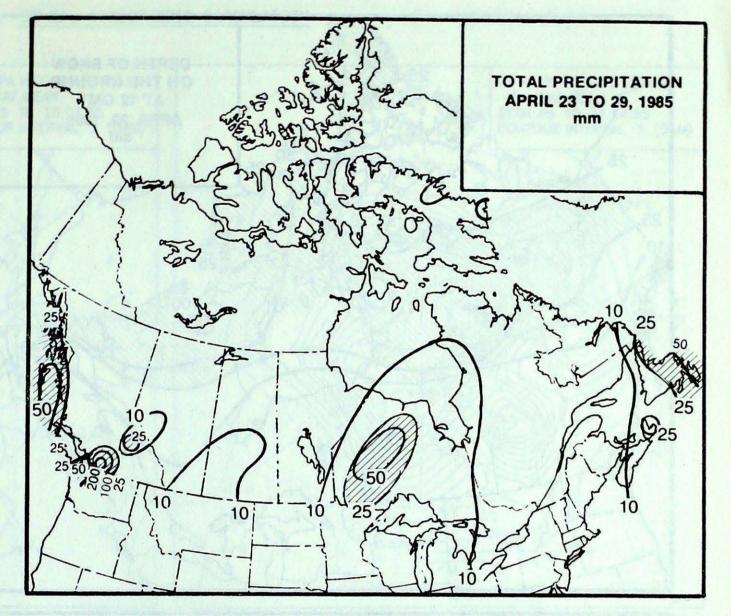
them

oba

Some flooding was experienced near rivers and streams as mild temperatures and sunny days caused rapid snow melt, and resulted in a heavy run off. The Ottawa river overflowed its banks in the lower valley and near Montreal. By the end of the week most of southern Quebec was snow-free. Precipitation was light, mainly in the form of showers around mid-week. Only parts of western Quebec received more than 10 mm rain, while the Gaspé and the lower north coast received no measurable precipitation.

#### Atlantic Provinces

The Maritimes were predominantly sunny and dry, but parts of Nova Scotia did receive much needed rain, up to 36 mm, the last two days of the period. Newfoundland was unsettled and wet as two major storms affected the Island. On April 24 and 25, 15 to 30 cm of fresh snow blanketed the eastern half of the province. St. John's and Bonavista received 22 and 33 cm of snow, respectively. In addition, at Cape Race, northerly winds were clocked gusting over 100 km/h. During the last two days of the period, a second weather system gave an additional 10 to 25 mm of rain.



#### HEAVIEST WEEKLY PRECIPITATION (mm)

YUKON TERRITORY NORTHWEST TERRITORIES BRITISH COLUMBIA ALBERTA

SASKATCHEWAN MANITOBA ONTARIO QUÉBEC

3

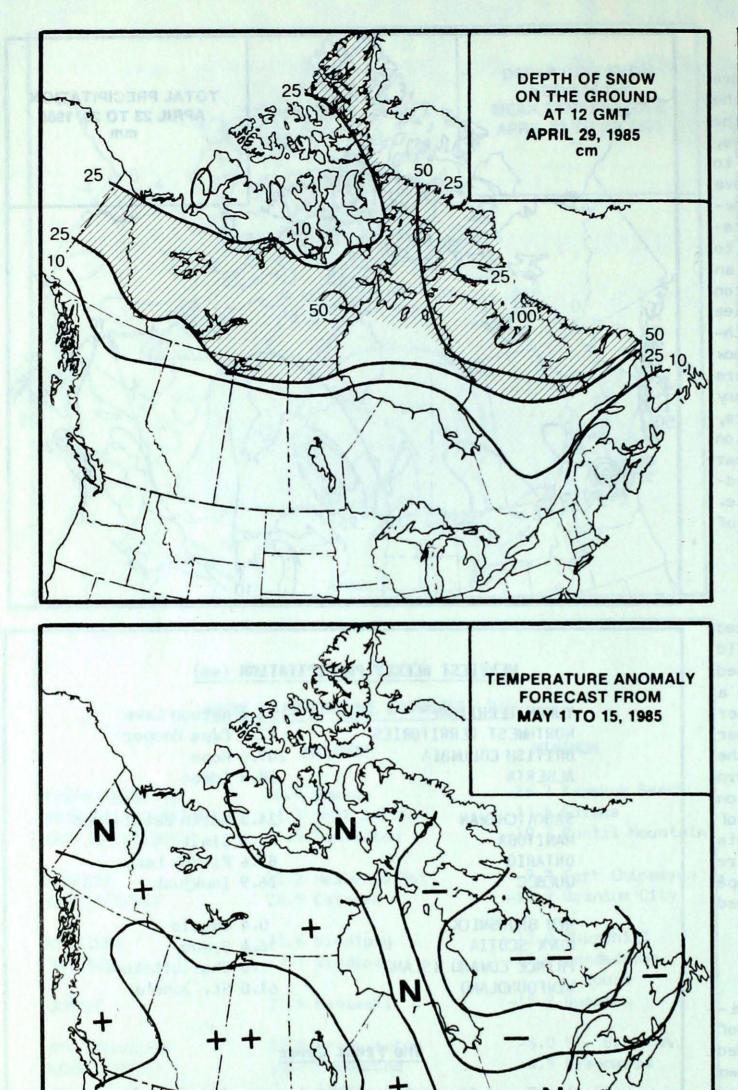
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND 11.2 Watson Lake 22.2 Cape Hooper 209.6 Hope 18.8 Edson

24.8 North Battleford 7.8 Gimli 87.6 Pickle Lake 16.9 Inukjuak

0.4 Charlo 36.4 Sydney 1.6 Charlottetown 61.0 St. John's

The Front Cover

"Cyclone" is the meteorological name for the large scale slowly rotating storms that are very frequent at Canada's latitude. This NOAA 6 satellite image of April 25, 1985 shows such a storm in its final stage, and with its spiral arms enfolding Newfoundland. During this final phase of their life, these storms usually become very slow moving. By virtue of this fact, they can prolong periods of inclement weather in a particular area. In this case, unsettled weather affected Newfoundland for a week, with snow falling during the three day period from April 24-26.



#### CLIMATIC PERSPECTIVES VOLUME 7

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It began in 1978 and in 1983 was expanded to include a monthly supplement (formerly known as the Canadian Weather Review). The purpose of the publication is to make topical information available to the public concerning the Canadian Climate and its socioeconomic impact.

Unsolicited articles are welcome but should be at maximum about 1500 words in length. They will be subject to editorial change without notice due to publishing time constraints. Black and white photographs can be used, but not colour. The contents may be reprinted freely with proper credit.

The data shown 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



### Temperature Anomaly Forecast

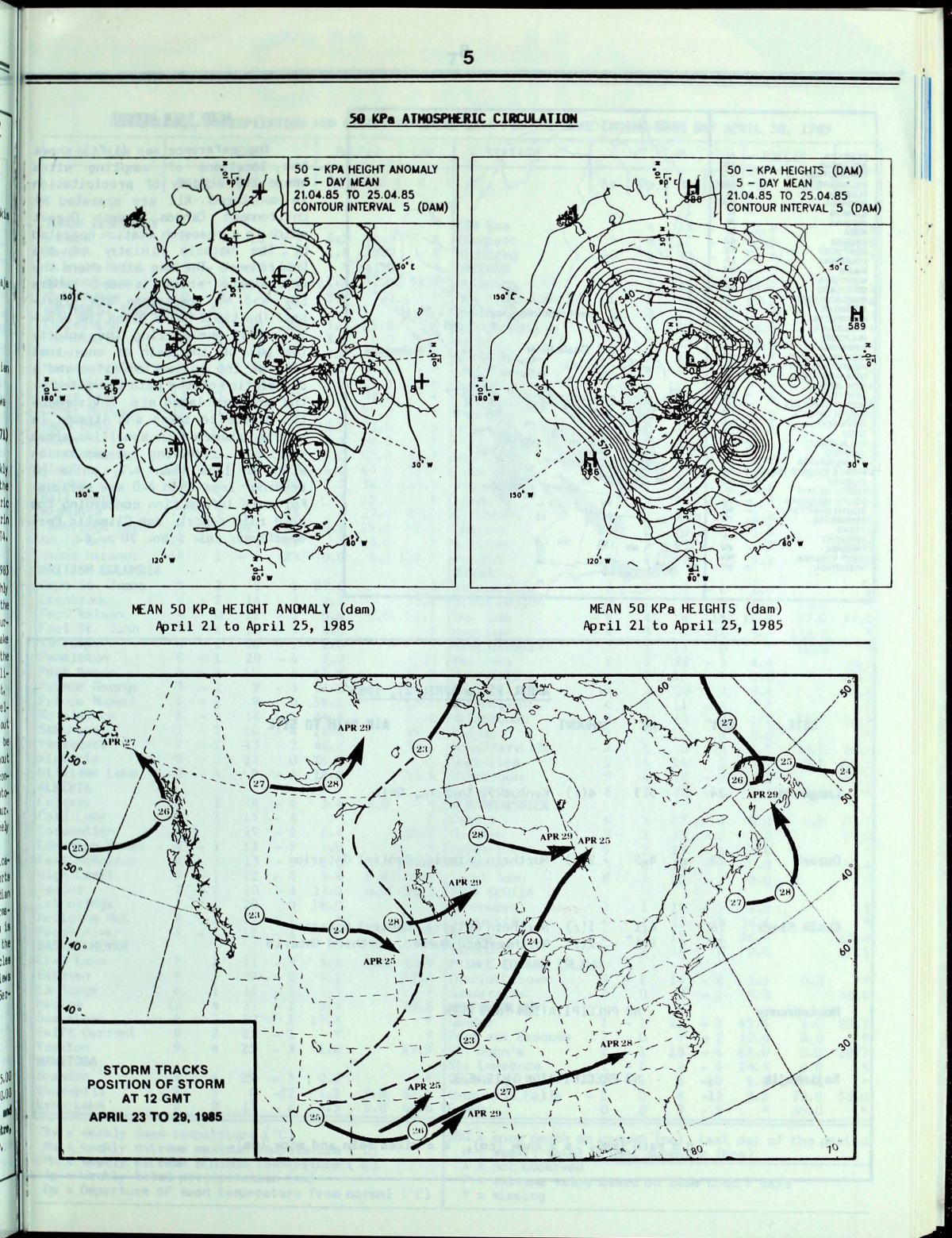
- much above normal above normal
- normal
- below normal
- much below normal

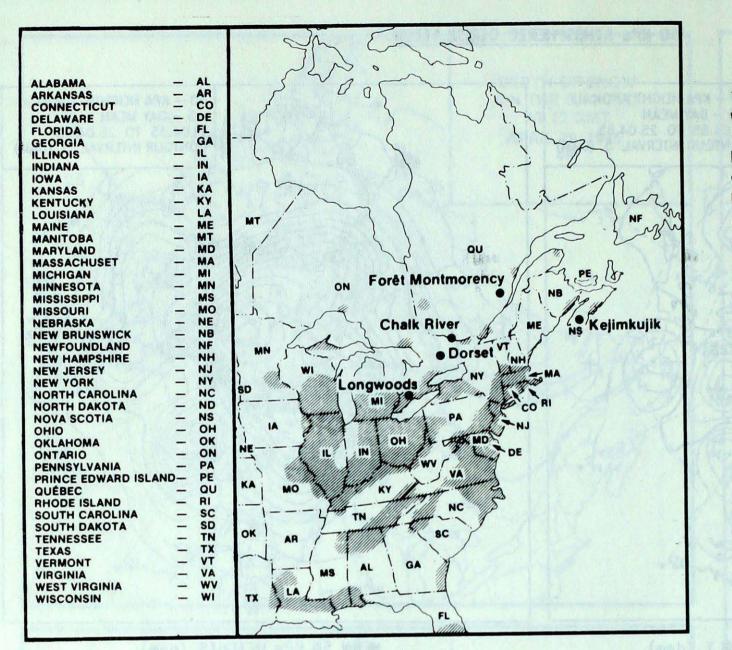
This forecast is prepared by searching historical weather maps to find cases similar to the present. The historical outcome during the 15 days subsequent to the chosen analogues is assumed to be a forecast for the next 15 days from now.

do not necessarily reflect the views of the Atmospheric Environment Service.

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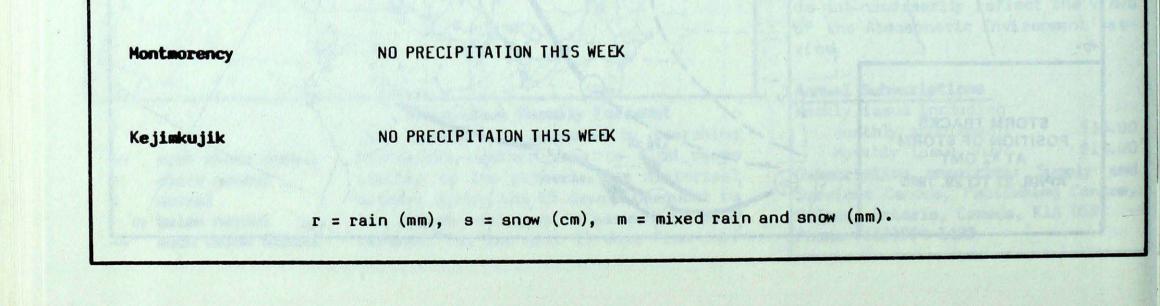




#### ACID RAIN REPORT

The reference map (left) shows the locations of sampling sites where the acidity of precipitation is monitored All are operated by Environment Canada except Dorset which is a research station operated by the Ontario Ministry of the Environment. The map also shows the approximate areas (shaded) where SO<sub>2</sub> and NO<sub>4</sub> emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the rain or snow that fell at the collection sites and a description of the path travelled by the moisture laden air. Environmental damage to lakes and streams is usually observed in sensitive areas regularly receiving precipitation with pH less than 4.7, while pH readings less than 4.0 are serious. For more information concerning the acid rain report, see Climatic Perspectives, Vol. 5 No. 50 p. 6.

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				A CARLES IN A COMPANY A COMPANY AND A COMPANY AND INCLUDED
				APRIL 21 to APRIL 27, 1985
SITE	DAY	pH	AMOUNT	AIR PATH TO SITE
Longwoods	24	3.3	4(r)	Kentucky, Indiana, Ohio
Dorset	27	4.5	2(r)	Northern Ontario, Central Ontario
Chalk River	<b>r</b> 26 27	4.1 5.1	1(r) 2(r)	Northern Ontario, Central Ontario Northwestern Quebec, Northern Ontario



STATION		Т	EMP		PRE	PRECIP		STATION		Т	EMP	0	PRECIP		SUN
	Av	Dp	Mx	Mn	Тр	SOG	н	The second second	Av	Dp	Mx	Mn	Тр	SOG	Н
								and a second				241	265	1	
YUKON TERRITORY	,							The Pas	7	4	18	- 4	4.9		56.9
Dawson	0	- 2	10	- 9	6.5	41.1	X	Thompson	5	3	17	- 5	0.0		64.8
Mayo A	2	0	9	- 3	1.4	10.0	X	Winnipeg	10	4	32	- 3	*		*
Shingle Point Watson Lake	-17 0	- 6	-10 8	-25	+	41.0	* 58.3	ONTARIO Atikokan	7	3	25	- 3	44.0		35.2
Whitehorse	Ő	- 2	7	- 7	8.4	7.0	*	Big Trout Lake	í		13	- 8	29.2	2.0	22.4
NORTHMEST TERRI	TORIE	S			3 mil			Earlton	9	23	25	- 3	*		X
Coppermine	-17	- 4	-10	-28	3.0	25.0	*	Kapuskasing	8 7	4	28	- 4	10.0		*
Fort Smith Inuvik	-15	- 6	12	- 7 -25	3.8	0.0	*	Kenora Kingston	10	23	25 24	- 2	16.4		*
Norman Wells	- 6	- 3	- 4	-17	8.0	27.0	*	London	13	4	28	i	6.4		57.8
Yellowknife	- 2	1	6	- 9	5.2	22.0	26.8	Moosonee	6	5	24	- 5	*	2.0	*
Baker Lake	-13	1	- 5	-23	1.4	79.0	*	Muskoka	11	3	28	- 3	*		)
Coral Harbour	-12	1 6	- 1	-21	* 10.0	25.0	×	North Bay Ottawa	10 10	42	27 19	- 3 2	1.2		55.3
Cape Dyer Clyde	-12	3	- 6	-17	1.4	58.0	*	Pickle Lake	3	2	22	- 8	87.6	0.0	X
Frobisher Bay	- 8	2	1	-18	3.0	22.0	28.7	Red Lake	6	1	25	- 4	27.8	0.0	43.5
Alert	-22	- 2	-18	-27	4.6		112.4	Sudbury	10	5	27	- 3	11.4	0.0	*
Eureka	-24	- 2 3	-18	-33	0.2	34.0	149.5 X	Thunder Bay Timmins	79	25	25 28	- 5	8.6	23.0	39.6 X
Hall Beach Resolute	-15	- 1	-13	-26	*	17.0	87.0	Toronto	11	2	22	- 4	2.4	23.0	x
Cambridge Bay	-19	- 1	-11	-28	0.2	29.0	81.8	Trenton	11	2	26	0	1.8		X
Mould Bay	-23	- 4	-16	-29	*	14.0	*	Wiarton	10	3	23	0	15.7		60.9
Sachs Harbour	-14	1	- 8	-23	0.0	8.0	115.7	Windsor	15	4	29	3	5.2		X
BRITISH COLUMBI Cape St. James	A 5	- 2	8	1	27.8		36.6	<b>QUEBEC</b> Bagotville	7	3	19	- 4	2.6		,
Cranbrook	6	- 2	16	- 3	2.2		53.8	Blanc-Sablon	ó	- 1	6	- 3	8.0	10.0	*
Fort Nelson	4	Ō	12	- 5	0.8	0.0	56.1	Inuk juak	- 4	4	4	-14	16.9	57.0	37.2
Fort St. John	4	- 1	10	- 4	4.0		X	Kuuj juaq	- 4	3	9	-16	4.6	118.0	*
Kamloops	8	- 2 - 1	18 20	- 1	2.8		45.0	Kuujjuarapik Maniwaki	2 9	53	13 22	- 8	* 4.4	10.0	54.7
Penticton Port Hardy	5	- 2	10	- 1	61.9		26.8	Mont-Joli	5	2	16	- 5	0.0		62.7
Prince George	3	- 2	9	- 3	21.2		51.5	Montréal	10	2	20	2	8.6		67.0
Prince Rupert	4	- 1	9	0	58.1		20.1	Natashquan	4	3	11	- 4	*		*
Revelstoke	6	- 3	16	- 2	44.8		32.4	Nitchequon Québec	09	4 3	11 19	- 8	1.2	33.0	61.9
Smithers Vancouver	7	- 2	10	- 4 2	12.2		36.8	Schefferville	- 3	1	6	-16	1.7	31.0	56.1
Victoria	8	- 2	13	ō	26.0		*	Sept-Iles	5	4	14	- 2	3.4	0.0	64.5
Williams Lake	2	- 4	9	- 6	14.8		31.6	Sherbrocke	9	4	20	- 2	7.2		66.9
ALBERTA			10		7.4	0.0	*	Val-d'Or	6	2	20	- 5	3.6	0.0	*
Calgary Cold Lake	5	1 2	18 13	- 4	3.4	0.0	*	NEW BRUNSWICK Charlo	6	3	17	- 4	0.4	0.0	70.7
Coronation	6	ĩ	19	- 2	6.4		58.7	Chatham	7	2	19	- 2	0.0		75.2
Edmonton Namao	4	- 1	13	- 5	1.0		*	Fredericton	8	2	23	- 4	0.0		*
Fort McMurray	4	1	13	- 8	1.8	0.0	79.2	Moncton	5	03	19 20	- 5	0.0		75.8
High Level Jasper	2	- 1	12 10	- 4	3.8	0.0	40.8 35.7	Saint John NOVA SCOTIA	0	,	20	- )	0.0		
Lethbridge	7	ī	20	0	18.0	0.0	*	Greenwood	7	1	19	- 5	2.6		>
Medicine Hat	8	1	22	- 1	*		*	Shearwater	6	1	15	- 2	16.6		*
Peace River	3	- 1	12	- 6	*		X	Sydney	2	- 2	11 18	- 3	36.4		25.0
SASKATCHEWAN Cree Lake	2	x	11	- 9	3.4	5.0	70.9	Yarmouth PRINCE EDWARD ISL	AND	2	10	U	0.0		33.2
Estevan	9	ŝ	29	- 2	9.2	2.0	57.2	Charlottetown	3	- 1	16	- 2	1.6	0.0	*
La Ronge	6	1	16	- 5	1.3		*	Summerside	4	0	17	- 1	0.0		50.8
Regina	10	4	27	- 1	3.2		59.8	NEWFOUNDLAND		1	11	- 3	40 (	2.0	23.7
Saskatoon Swift Current	8	22	20 23	- 2	17.4		*	Gander Port aux Basques	12	- 1	11 9	- 2	49.6	0.0	23.1
Yorkton	9	4	25	- 3	1.0		67.9	St. John's	2	- 1	10		61.0	0.0	28.7
MANITOBA	2.							St. Lawrence	1	- 1	8	- 4	24.3	0.0	X
Brandon	9	4	29	- 3	0.0		*	Cartwright	- 2	- 1	3	-10	4.6	98.0	*
Churchill Lynn Lake	- 2	5	8	-12	1.2	8.0	67.1	Churchill Falls	- 2	0	67	-12	2.2	76.0	55.0
Av = weekly me		mpera	ture	(°C)			5510	SOG = snow depth	on gr	ound		last	day o		erioc
Mx = weekly ex Mn = weekly ex Tp = weekly to	treme	mini	mum t	emper	ature			H = weekly tota X = not observe P = extreme val	d						