Environment Canada Environnement Canada

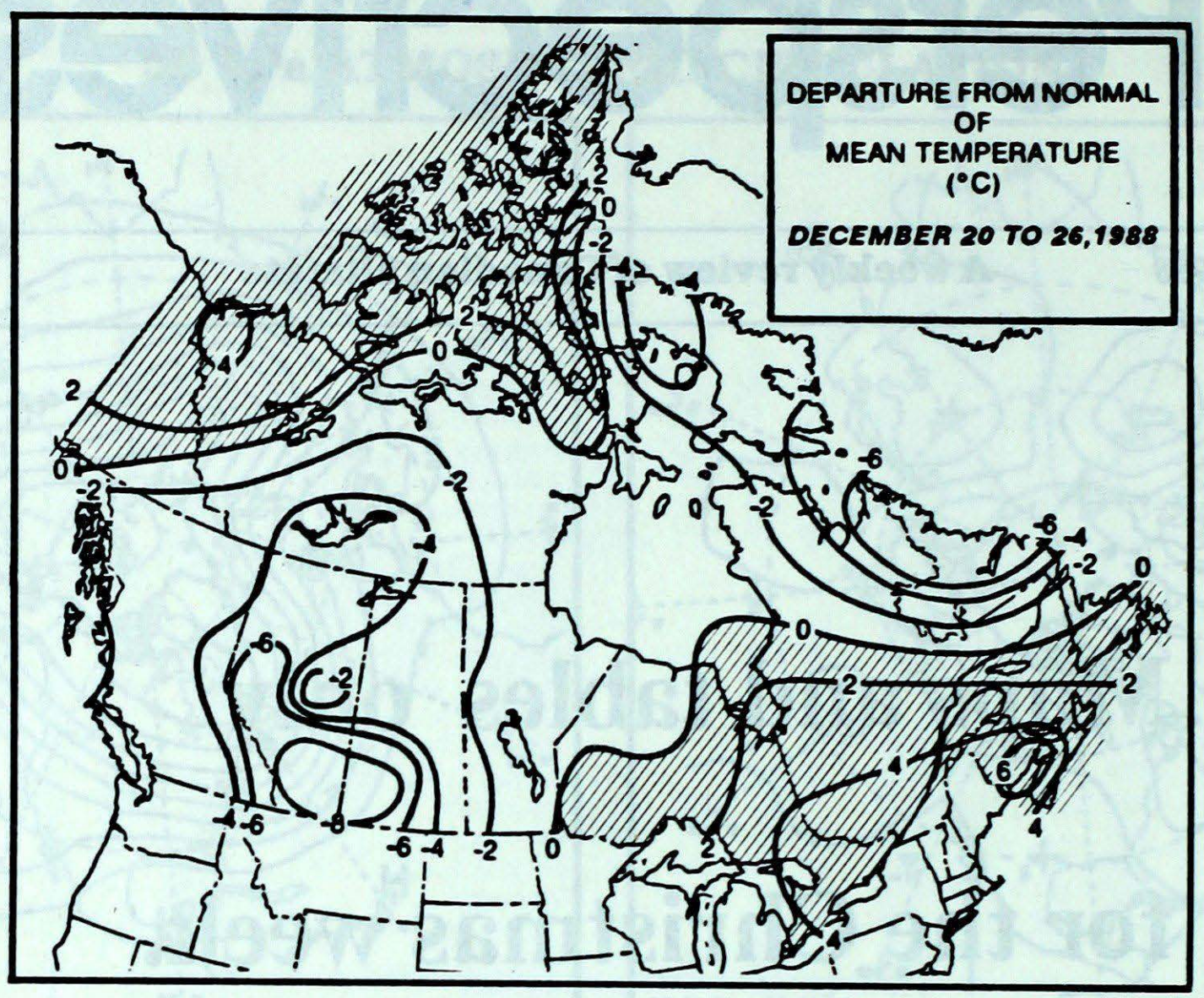
Climatic Perspectives

December 20 to 26, 1988 | A weekly review of Canadian climate | Vol. 10 No. 52

Maps and tables only

for the Christmas week.

Canada



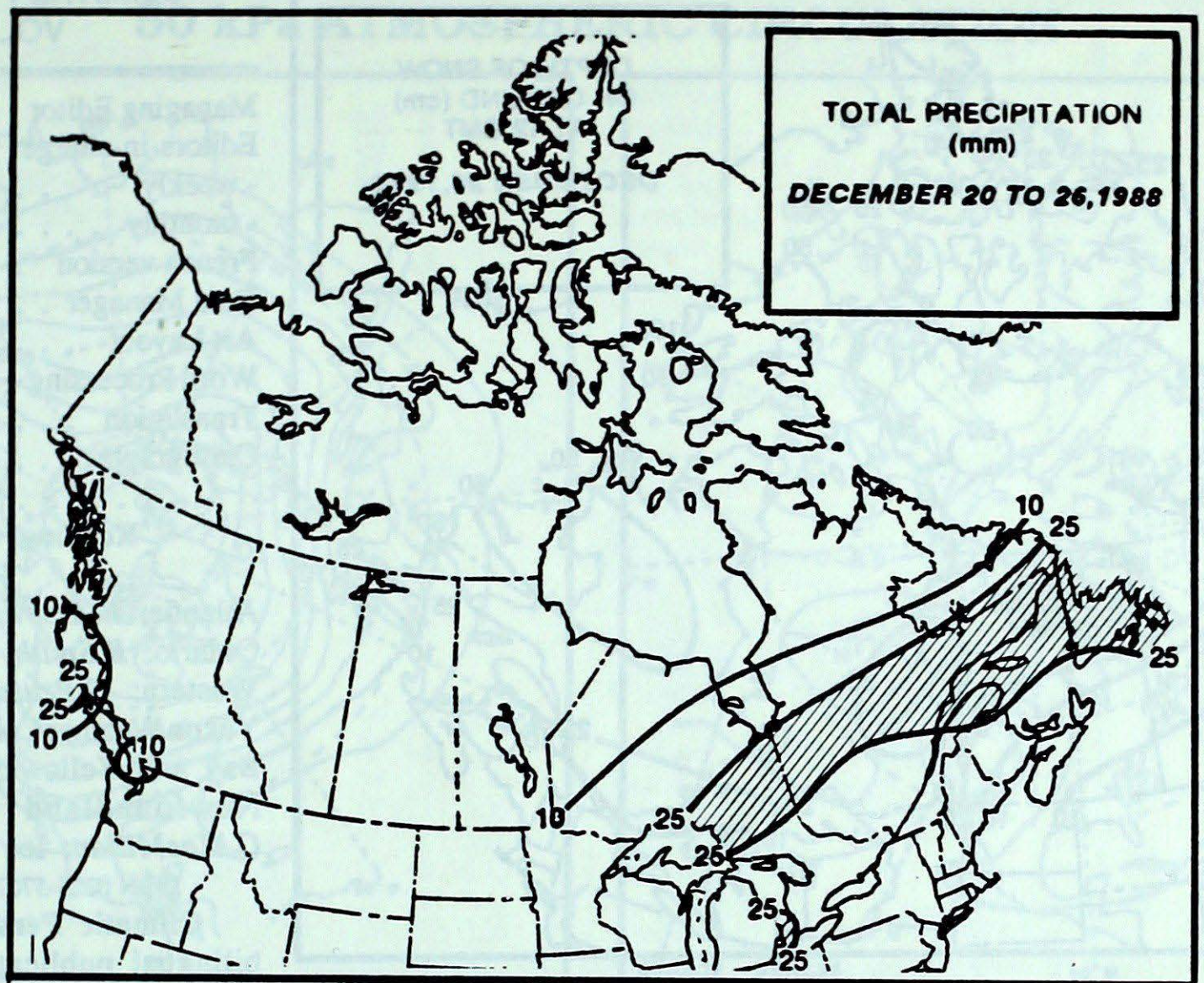
Weekly Temperature extremes (°C)

		Maximum temperature		Minimum temperature	
British Columbia	Kindakun Point	7		Dease Lake	-33
	Victoria Int'l			Fort Nelson	
Yukon Territory	Whitehorse	-8		Watson Lake	-39
Northwest Territories	Cape Hooper	-10		Mould Bay	-42
Alberta	Lethbridge	0		High Level	-36
Saskatchewan	Elbow	-4		Kindersley	-35
Manitoba	Winnipeg Int'l	-1		Thompson	-35
Ontario	Trenton	11		Armstrong	-32
Québec	Sherbrooke	8		Schefferville	-38
New Brunswick	St Stephen	10		Charlo	-19
Nova Scotia	Greenwood	11		Amherst	-14
Prince Edward Island	East Point	6		Summerside	-12
Newfoundland	St John's	8		Wabush Lake	-32

Across The Country...

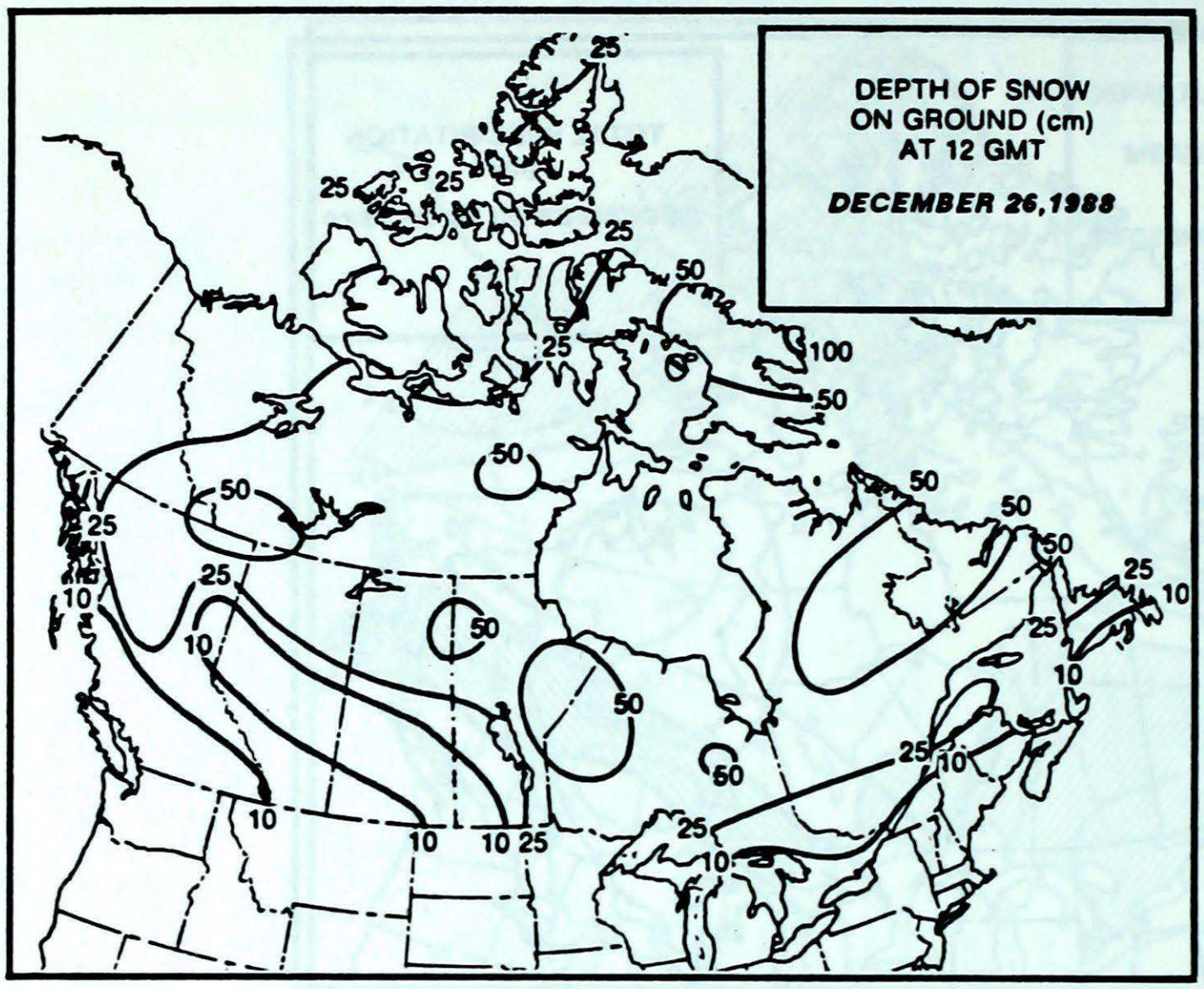
Warmest Mean Temperature	Kindakun Point (BC)	4
Coolest Mean Temperature	Gladman Point A (NWT)	-31
	Pond Inlet (NWT)	

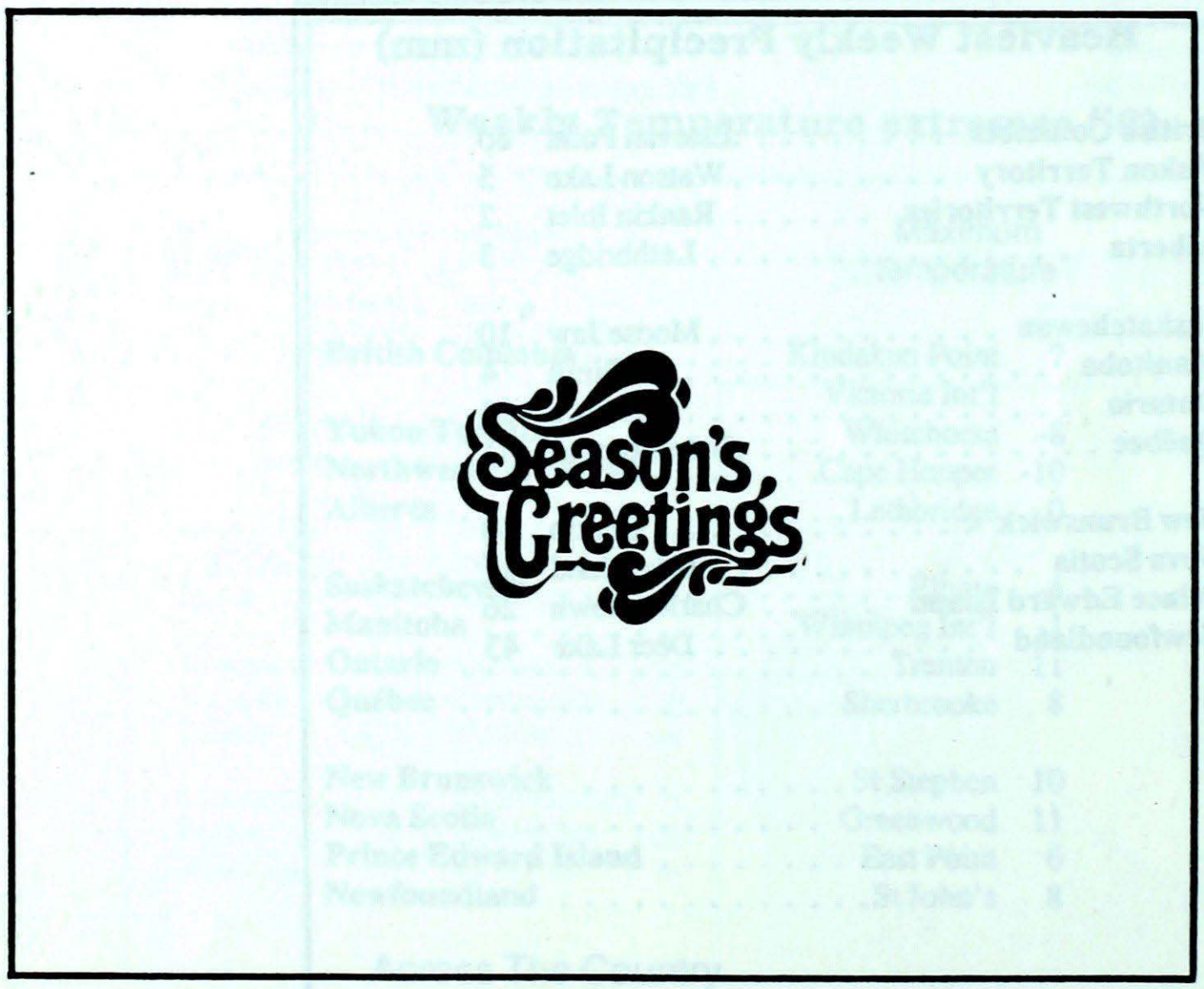
88/12/20-88/12/26



Heaviest Weekly Precipitation (mm)

British Columbia	Estevan Point	66
Yukon Territory	Watson Lake	5
Northwest Territories	Rankin Inlet	2
Alberta	Lethbridge	3
Saskatchewan	Moose Jaw	10
Manitoba	Gimli	4
Ontario	Wawa	38
Québec	Baie Comeau	41
New Brunswick	Charlo	30
Nova Scotia	Sable Island	17
Prince Edward Island	Charlottetown	26
Newfoundland	Deer Lake	43





Temperature Anomaly Forecast

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.

+ +	much above normal
+	above normal
N	normal
-	below normal
- -	much below normal

CLIMATIC PERSPECTIVES
VOLUME 10

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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.

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. The contents may be reprinted freely with proper credit.

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 the Atmospheric Environment Service.

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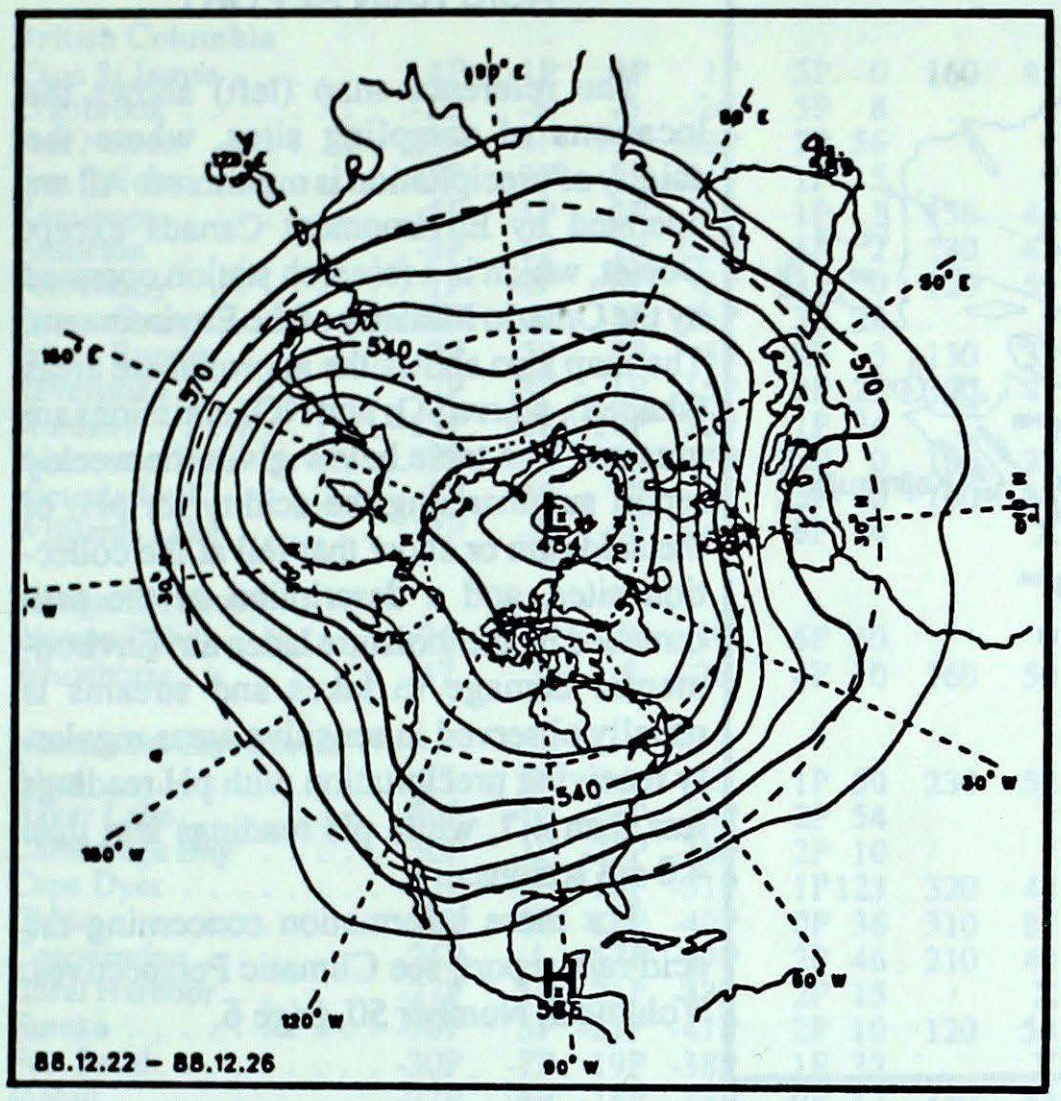
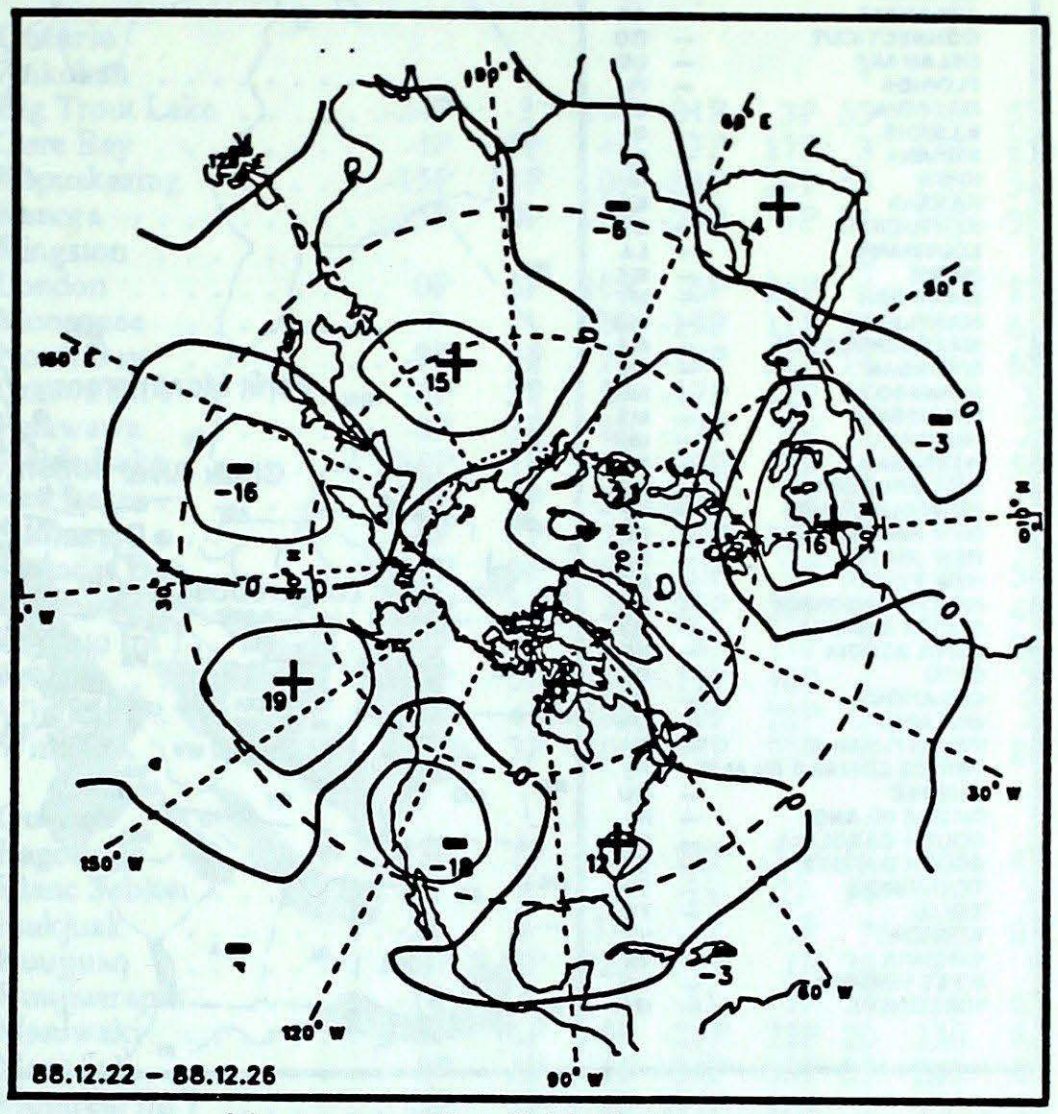
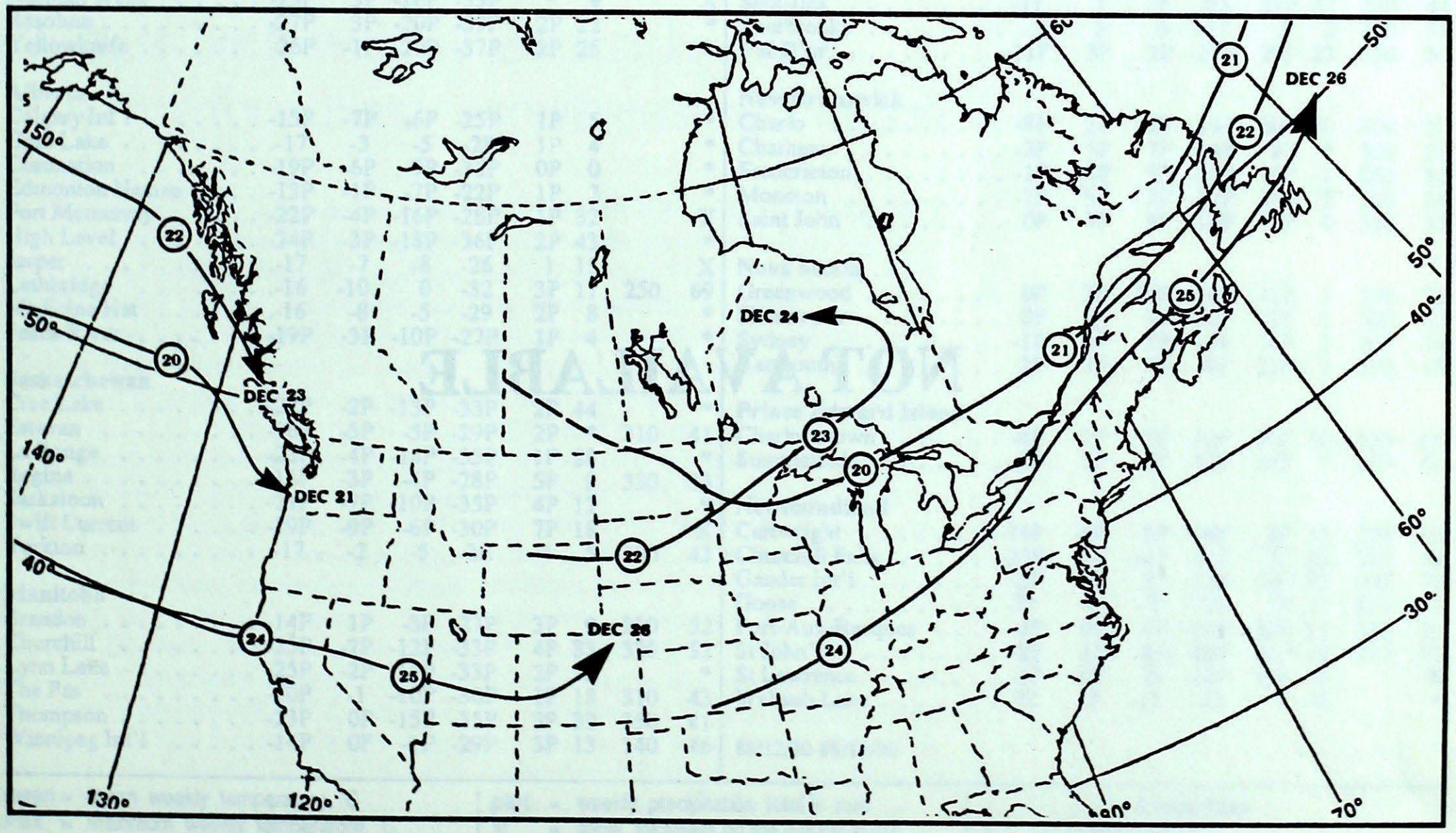
50 kPa ATMOSPHERIC CIRCULATION



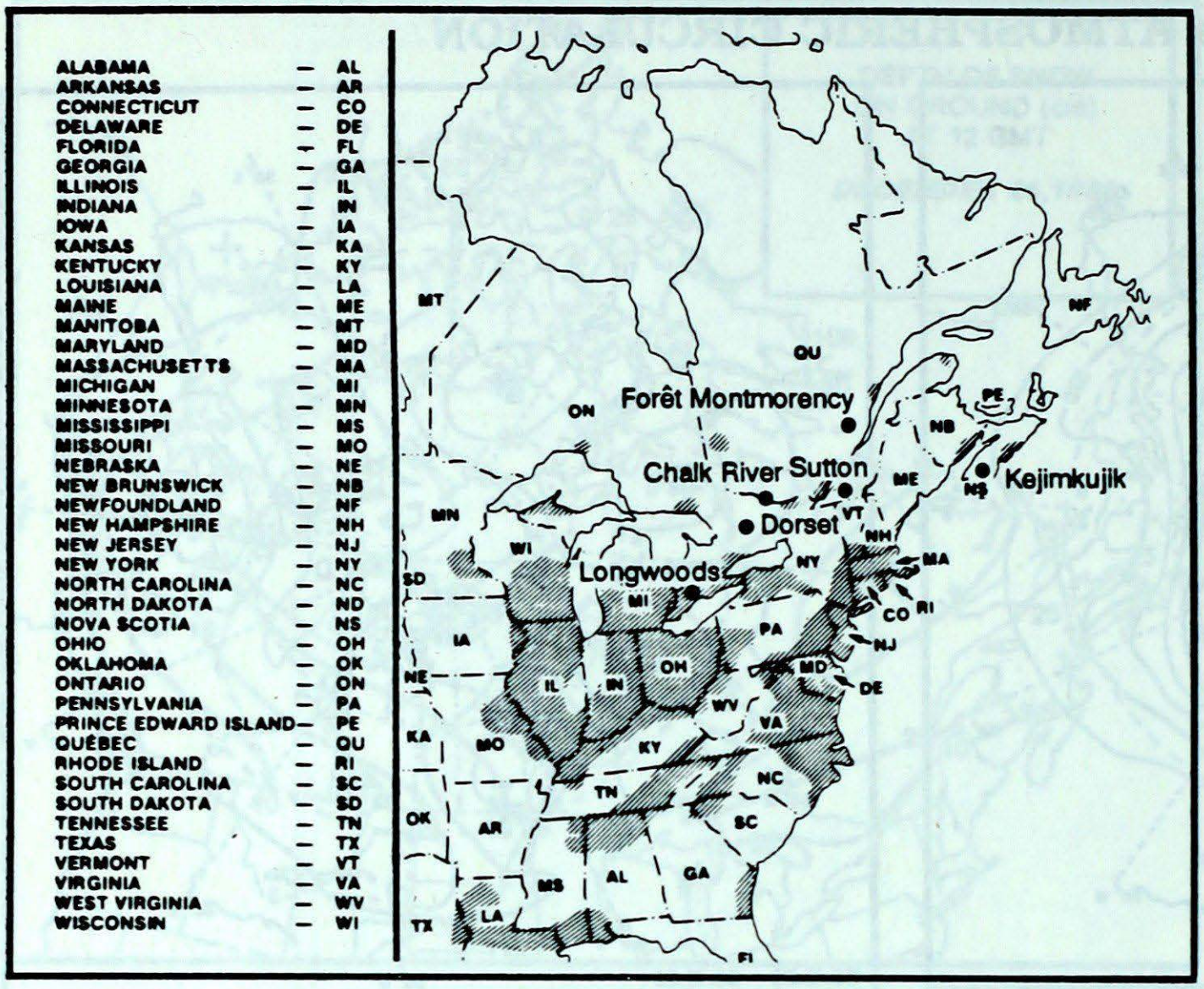
Mean geopotentiial height
50 kPa level (10 decameter intervals)



Mean geopotential height anomaly
50 kPa level (10 decameter intervals)



Storm track - Position of storm at 12 GMT each day during the period.



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_2 and NO_x emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the acid 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 readings less than 4.7, while pH readings less than 4.0 are serious.

For more information concerning the acid rain report, see Climatic Perspectives, Volume 5, Number 50, page 6.

NOT AVAILABLE

STATION	temperature mean	anom	max	min	precip. ptot	st	wind max dir	vit
British Columbia								
Cape St.James	4P	-1P	7P	1P	5P	0	160	81
Cranbrook	-12	-6	-6	-24	5P	8		*
Fort Nelson	-25P	-4P	-19P	-33P	2P	56		*
Fort St.John	-17P	-3P	-7P	-24P	1P	5		*
Kamloops	-5P	-1P	2P	-16P	1P	1	150	46
Penticton	-3P	-3P	1P	-13P	5P	2	180	43
Port Hardy	1P	-2P	6P	-3P	31P	0	120	59
Prince George	-14P	-4	-7P	-26P	3P	28		*
Prince Rupert	-2P	-2P	3P	-8P	8P	3	130	33
Revelstoke	-7P	-3P	-1P	-15P	2P	22	320	41
Smithers	-15P	-6P	-10P	-22P	1P	24		*
Vancouver Int'l	2P	-1P	7P	-3P	23P	0	160	33
Victoria Int'l	2P	-2P	7P	-4P	23P	0	100	37
Williams Lake	-12P	-3	-6P	-24P	6P	14		X
Yukon Territory								
Watson Lake	-26	-1	-18	-39	5P	40		*
Whitehorse	-17	1	-8	-26	4P	10	160	50
Northwest Territories								
Alert	-27	2	-18	-35	1P	50	230	52
Baker Lake	-30P	-1P	-20P	-36P	2P	54		*
Cambridge Bay	-30P	1P	-22P	-38P	2P	10		*
Cape Dyer	-22P	-3P	-13P	-31P	1P	123	320	44
Clyde	-26P	-1P	-14P	-40P	0P	36	310	87
Coppermine	-26P	1	-17P	-37P	2P	46	210	43
Coral Harbour	-27P	-1P	-21P	-33P	2P	15		X
Eureka	-30P	5P	-21P	-41P	2P	10	120	54
Fort Smith	-30P	-7P	-19P	-38P	1P	32		X
Iqaluit	-27P	-4P	-18P	-33P	0P	12	340	43
Hall Beach	-31P	-4P	-25P	-36P	2P	42	310	37
Inuvik	-21P	6P	-14P	-35P	1P	36		X
Mould Bay	-30P	2P	-19P	-42P	2P	27		X
Norman Wells	-23P	3P	-16P	-33P	*	9		X
Resolute	-27P	3P	-20P	-39P	2P	22		*
Yellowknife	-26P	-1P	-20P	-37P	2P	25		*
Alberta								
Calgary Int'l	-15P	-7P	-6P	-25P	1P	5		*
Cold Lake	-17	-3	-5	-28	1P	4		*
Coronation	-19P	-6P	-9P	-32P	0P	0		*
Edmonton Namao	-13P	-1P	-7P	-22P	1P	2		*
Fort Mcmurray	-22P	-4P	-16P	-28P	1P	32		X
High Level	-24P	-3P	-18P	-36P	2P	43		*
Jasper	-17	-7	-8	-26	1	15		X
Lethbridge	-16	-10	0	-32	3P	11	250	69
Medicine Hat	-16	-8	-5	-29	2P	8		*
Peace River	-19P	-3P	-10P	-27P	1P	4		*
Saskatchewan								
Cree Lake	-22P	-2P	-13P	-33P	2P	44		*
Estevan	-16P	-5P	-5P	-29P	2P	*	310	41
La Ronge	-23P	-4P	-14P	-35P	1P	28		*
Regina	-16P	-3P	-4P	-28P	5P	9	330	33
Saskatoon	-21P	-7P	-10P	-35P	4P	12		*
Swift Current	-19P	-9P	-6P	-30P	7P	18		X
Yorkton	-17	-2	-5	-30	4	5	300	43
Manitoba								
Brandon	-14P	1P	-3P	-27P	3P	9	290	52
Churchill	-25P	-2P	-12P	-33P	4P	33	330	52
Lynn Lake	-25P	-2P	-18P	-33P	2P	52		*
The Pas	-20P	-1	-10P	-30P	1P	18	310	43
Thompson	-23P	0P	-15P	-35P	3P	39	350	41
Winnipeg Int'l	-14P	0P	-1P	-29P	3P	13	140	46

STATION	temperature mean	anom	max	min	precip. ptot	st	wind max dir	vit
Ontario								
Atikokan						*		
Big Trout Lake	-24P	-3	-14P	-31P	3P	55	330	57
Gore Bay	-4P	3P	4P	-11P	17P	3	130	65
Kapuskasing	-15P	1P	0P	-31P	29P	55	130	54
Kenora	-15P	0P	-2P	-25P	7P	31	140	39
Kingston						2		
London	0P	5P	10P	-6P	26P	4	240	87
Moosonee	*	*	-3P	-19P	11P	39	110	65
North Bay	-8P	3P	2P	-18P	21P	14	150	63
Ottawa Int'l	-6P	3P	5P	-17P	12P	8		X
Petawawa	-8P	3P	8P	-22P	3P	8		X
Pickle Lake	-18P	1P	-5P	-30P	8P	62	320	50
Red Lake	-16P	2P	-2P	-29P	5P	64	130	35
Sudbury	-8P	4P	2P	-18P	16P	8		X
Thunder Bay	-11P	0P	2P	-20P	7P	30	100	54
Timmins	-10P	6P	2P	-25P	32P	30	360	46
Toronto Int'l	-1P	4P	8P	-8P	11P	2	250	80
Trenton	-1P	5P	11P	-11P	10P	1		X
Wiarton	-1P	4P	10P	-9P	28P	5		X
Windsor	1P	3P	10P	-7P	27P	0	240	80
Québec								
Bagotville	-13P	1P	-1P	-28P	28P	40	270	43
Blanc Sablon	-11	*	0	-19	27	18		X
Inukjuak	-21	-1	-14	-32	1P	*	080	67
Kuujjuaq	-28P	-9P	-22P	-34P	1P	28		*
Kuujjuarapik	-18	0	-9	-31	1P	13	100	65
Maniwaki	-5P	6P	6P	-23P	22P	20	130	44
Mont Joli	-8P	1P	-1P	-24P	35P	33	290	48
Montréal Int'l	-5P	3P	4P	-14P	10P	1	150	56
Natashquan	-12	-1	-1	-22	26	19	060	61
Québec	-8P	3P	3P	-17P	19P	13	070	52
Schefferville	-27	-7	-17	-38	3P	34		*
Sept-Iles	-11	1	-3	-23	39P	27	340	44
Sherbrooke	-5	5	8	-17	9	2	260	74
Val D'or	-11P	3P	2P	-27P	29P	22	150	54
New Brunswick								
Charlo	-8P	3P	0P	-19P	30P	30	300	50
Chatham	-3P	5P	7P	-14P	8P	*	300	50
Fredericton	-1P	6P	9P	-18P	10P	1	260	56
Moncton	-2P	5P	8P	-17P	18P	2	260	54
Saint John	0P	7P	9P	-14P	16P	0	310	57
Nova Scotia								
Greenwood	0P	3P	11P	-14P	12P	1	240	76
Shearwater	0P	2P	9P	-12P	12P	1	300	67
Sydney	-1P	2P	8P	-8P	16P	1	260	74
Yarmouth	2P	3P	9P	-9P	21P	1	310	63
Prince Edward Island								
Charlottetown	-4P	2P	3P	-12P	26P	10	320	56
Summerside	-3P	3P	5P	-12P	14P	*	240	63
Newfoundland								
Cartwright	-16P	-6P	-5P	-28P	8P	33	320	65
Churchill Falls	-23P	-3P	-14P	-31P	5P	62	300	39
Gander Int'l	-5P	-1P	2P	-12P	39P	43	100	72
Goose	-21	-6	-7	-29	3P	31	320	31
Port-Aux-Basques	-2P	0P	4P	-10P	16P	10	320	74
St John's	-2P	1P	8P	-10P	26P	8	250	91
St Lawrence	-1P	0P	7P	-10P	20P	9		X
Wabush Lake	-22	-3	-15	-32	7	40		*

88/12/20-88/12/26

mean = mean weekly temperature, °C
max = maximum weekly temperature, °C
min = minimum weekly temperature, °C
anom = mean temperature anomaly, °C

ptot = weekly precipitation total in mm
st = snow thickness on the ground in cm
dir = direction of max wind, deg. from north.
vit = wind speed in km/h

- Annotations -
X = no observation
P = less than 7 days of data.
* = missing data when going to printing.