



Climatic Perspectives

December 17 to 30, 1990 *A weekly review of Canadian climate and water*

Vol.12 No.51

Record cold wave sweeps western Canada

Cold Arctic outbreaks and blizzards are common to the Canadian prairies at this time of year, but below freezing daytime temperatures and heavy snowfalls on B.C.'s lower mainland are not. It is the intensity and extent of this cold wave that will be remembered for a long time.

Western Canada was plunged into a deep freeze twice during the latter half of December, as record-cold Arctic air spilled southwards out of Alaska. The bitter cold was accompanied by snow and blizzards, which paralysed many western communities and towns.

The first cold wave began on the 19th, the week before Christmas. The temperatures plummeted to as low as -47°C on the Prairies, while snow and ice knocked out power to thousands of homes in southern B.C. Snowfalls were reported in both Vancouver and Victoria, and winds through the interior valleys reached 100 km/h.

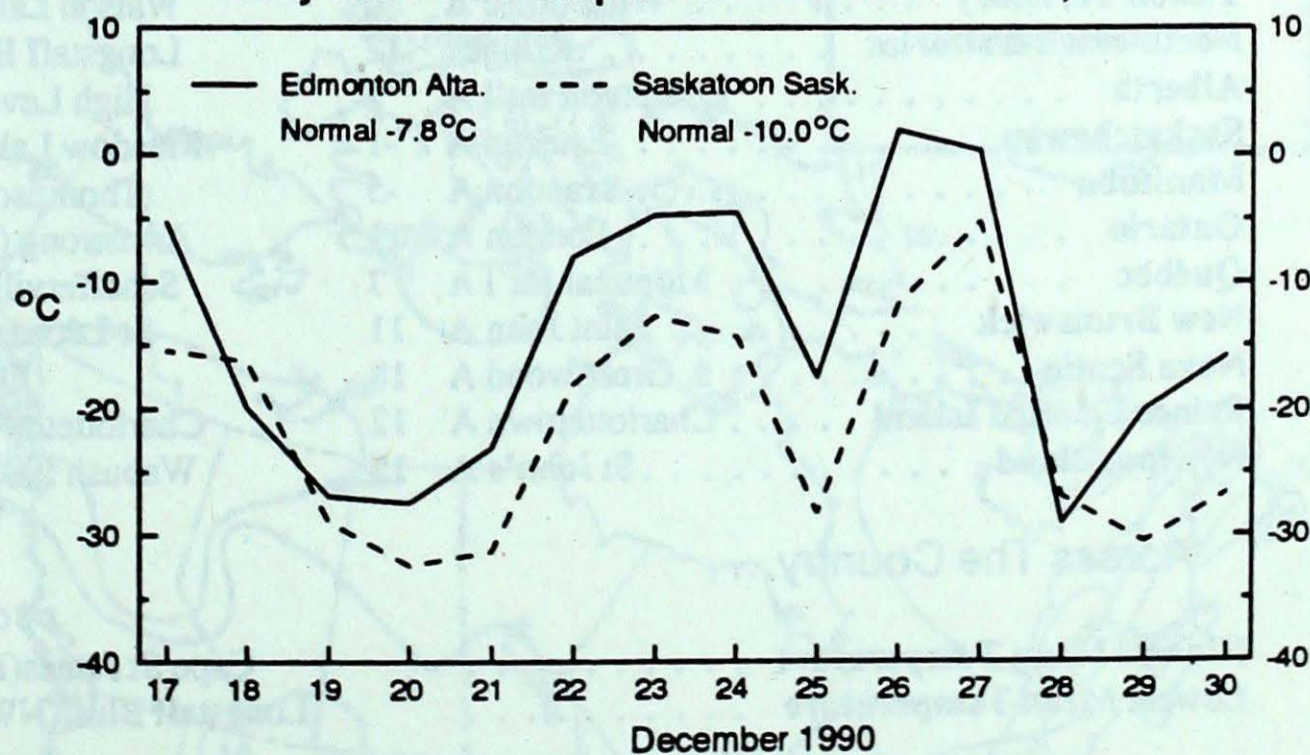
During Christmas there was a brief reprieve, as relatively milder air moved in and let temperatures recover, but by the 28th, the mercury had plunged downward again. The approaching dome of cold Arctic air produced howling winds and blizzards on the prairies. Blowing and drifting snow resulted in zero visibility and road closures in many areas. The combination of strong winds and temperatures, in the minus thirties and forties, produced dangerous wind chills. The cold

air spilled westwards across the Rockies and eventually covered all of British Columbia. The Okanagan fruit belt experienced temperatures in the minus twenties and had snowfalls of 10 to 20 centimetres. On December 28 and 29, the temperature at Vancouver failed to climb above freezing. Thirty centimetres of snow fell on Vancouver International Airport on December 30 - the worst storm in 20 years and a new record for the day almost equalling the all time record of 32 cm set in 1968. This was the second major storm to hit the province this month. In B.C. the cold snap consumed a record amount of natural gas for heating, nearly 65 percent of the utilities reserves.

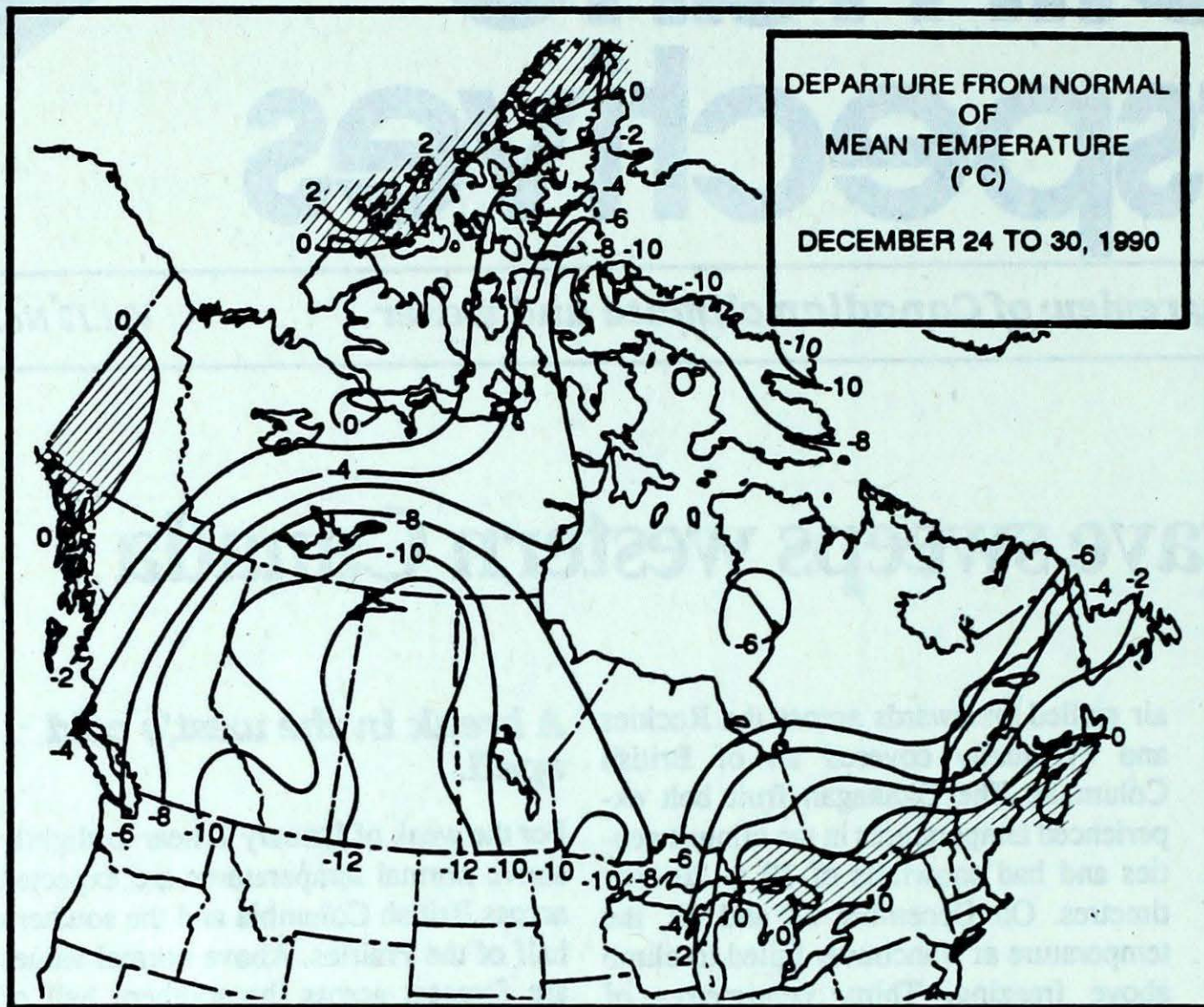
A break in the west's cold spell.

For the week of January 7, near to slightly above normal temperatures are expected across British Columbia and the southern half of the Prairies. Above normal values are forecast across the southern half of Ontario, southwestern Quebec, and the Atlantic region. Near to slightly below normal temperatures are expected across the northern Prairies, the Yukon, and the Northwest Territories. However, Baffin Island can expect below normal temperatures.

Daily maximum temperature December 17-30, 1990



Cold Arctic air plunged western Canada into a deep freeze on two separate occasions during the last two weeks in December.



Weekly normal temperatures (°C)

	max.	min.
Whitehorse A	-11.9	-20.7
Iqaluit A	-18.0	-26.7
Yellowknife A	-21.1	-29.5
Vancouver Int'l A	5.7	0.4
Victoria Int'l A	6.4	0.7
Calgary Int'l A	-2.1	-13.7
Edmonton Int'l A	-8.0	-18.8
Regina A	-8.7	-19.0
Saskatoon A	-10.1	-20.2
Winnipeg Int'l A	-10.6	-20.6
Ottawa Int'l A	-5.3	-13.7
Toronto (Pearson Int'l A)	-1.0	-8.8
Montréal Int'l A	-4.5	-12.9
Québec A	-6.0	-14.8
Fredericton A	-2.5	-12.5
Saint John A	-0.7	-10.4
Halifax (Shearwater)	1.8	-6.3
Charlottetown A	-1.2	-9.0
Goose A	-9.5	-18.8
St John's A	1.1	-5.4

Weekly temperature and precipitation extremes

	Maximum temperature (°C)	Minimum temperature (°C)	Heaviest precipitation (mm)
British Columbia	Sandspit A 8	Puntzi Mountain (aut) -43	Prince Rupert A 112
Yukon Territory	Whitehorse A 0	Watson Lake A -42	Watson Lake A 19
Northwest Territories	Killinek -12	Longstaff Bluff -45	Norman Wells A 7
Alberta	Edmonton Int'l A 2	High Level A -45	Grande Prairie A 18
Saskatchewan	Estevan A -1	Meadow Lake A -44	Swift Current A 12
Manitoba	Brandon A -5	Thompson A -42	Brandon A 9
Ontario	London A 11	Armstrong (aut) -44	Warton A 60
Québec	Montréal Int'l A 7	Schefferville A -39	Montréal Int'l A 51
New Brunswick	Saint John A 11	St-Léonard A -29	Saint John A 57
Nova Scotia	Greenwood A 18	Truro -18	Greenwood A 33
Prince Edward Island	Charlottetown A 12	Charlottetown A -16	Summerside A 53
Newfoundland	St John's A 15	Wabush Lake A -38	Daniels Harbour 51

Across The Country...

Highest Mean Temperature	Cape St James(BC)	4
Lowest Mean Temperature	Longstaff Bluff(NWT)	-45

90/12/24-90/12/30

CLIMATIC PERSPECTIVES
VOLUME 12

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- weekly/monthly Andy Radomski
French version Alain Caillet
Data Manager M. Skarpathiotakis
Computer support Tommy Jang
Art Set-up K. Czaja
Translation D. Pokorn
Cartography T. Chivers

ISBN 0225-5707 UDC 551.506.1(71)

Climatic Perspectives is a weekly publication (disponible aussi en français) of the Canadian Climate Centre, Atmospheric Environment Service, 4905 Dufferin St., Downsview, Ontario, Canada M3H 5T4

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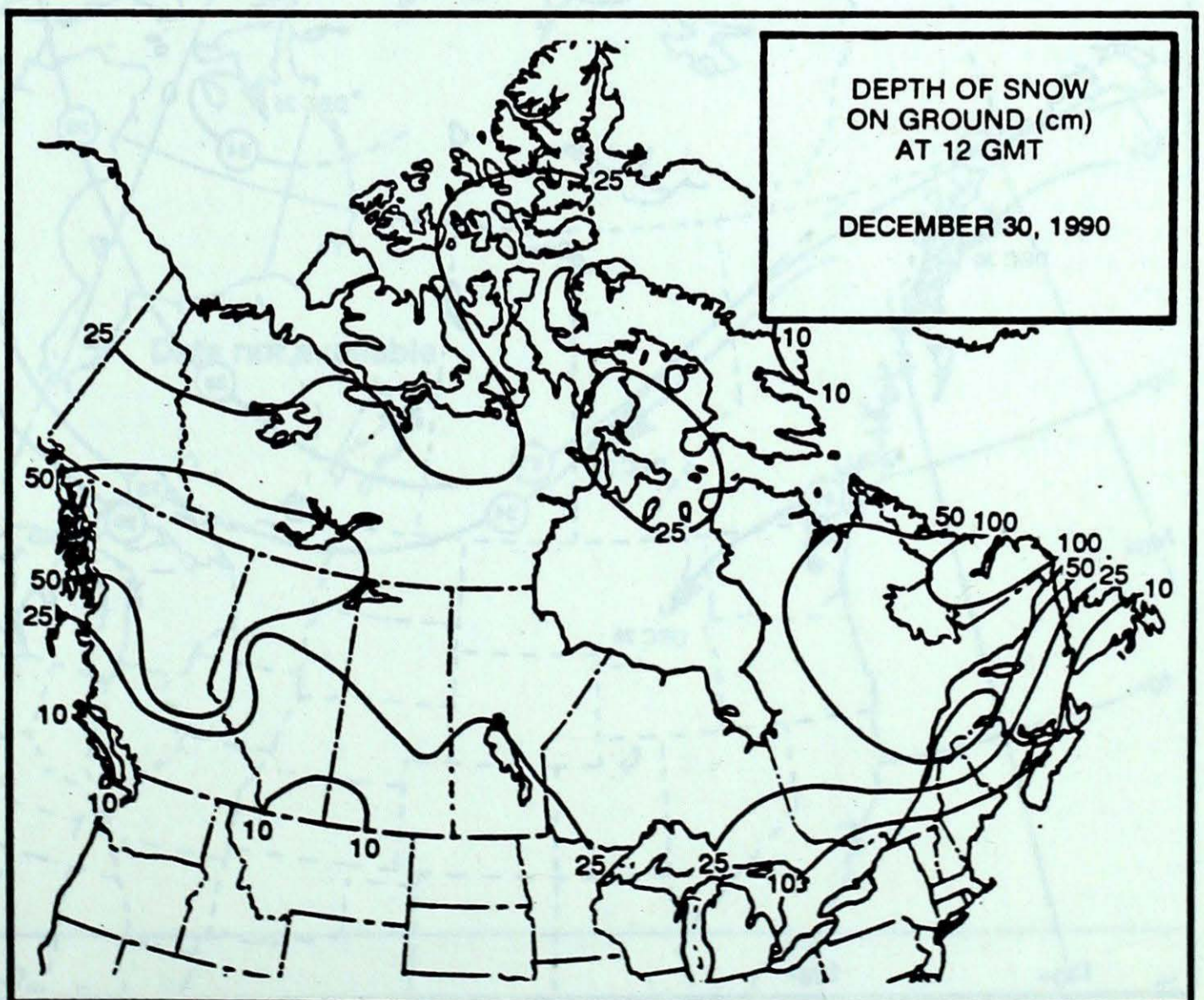
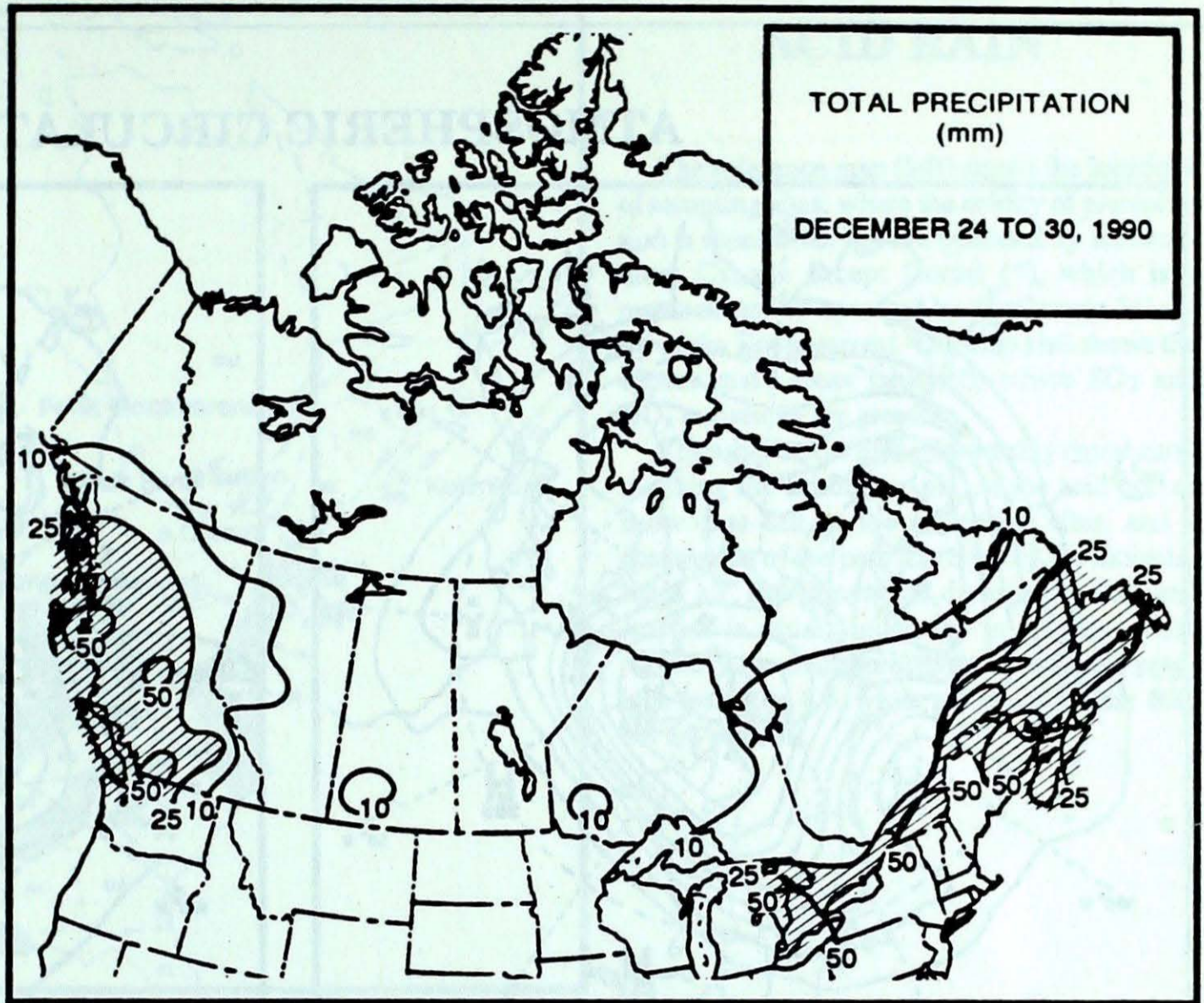
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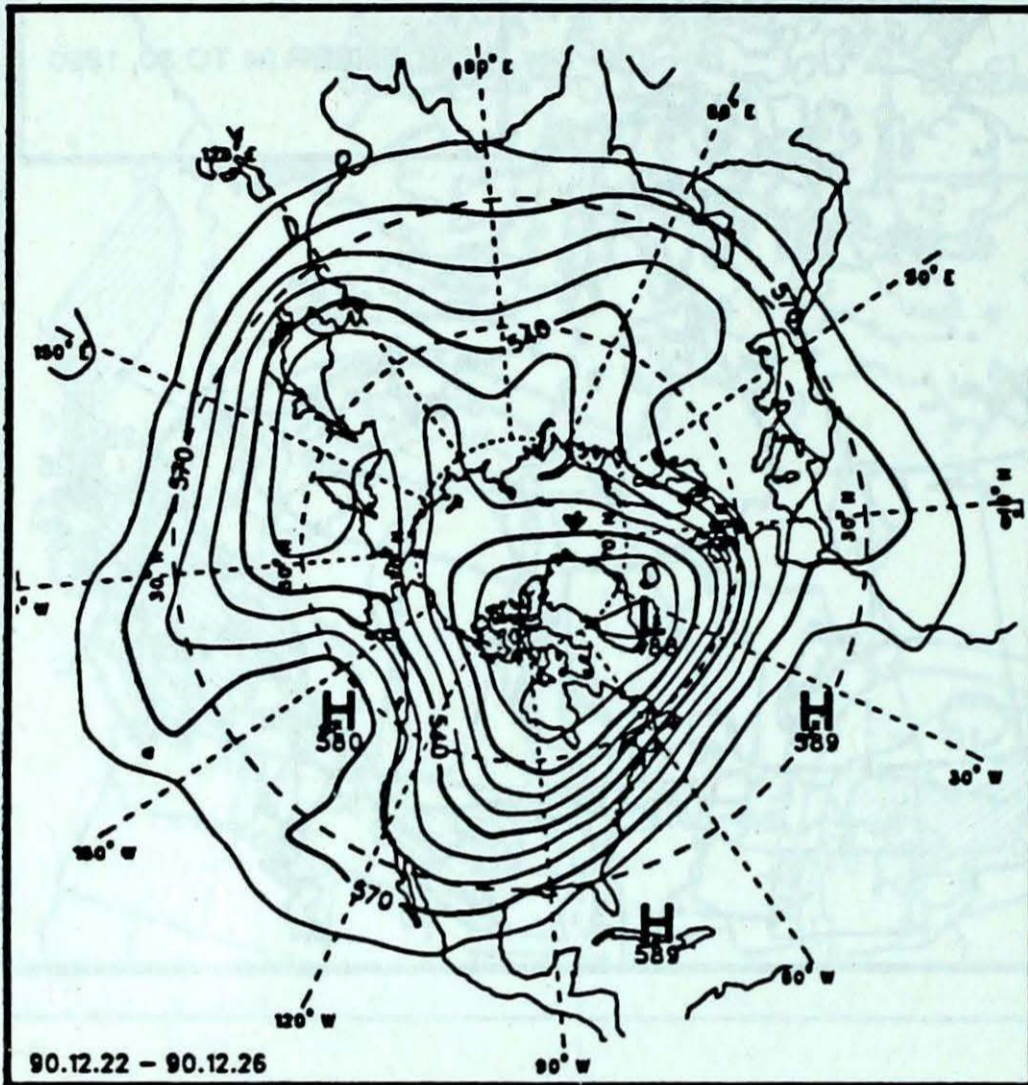
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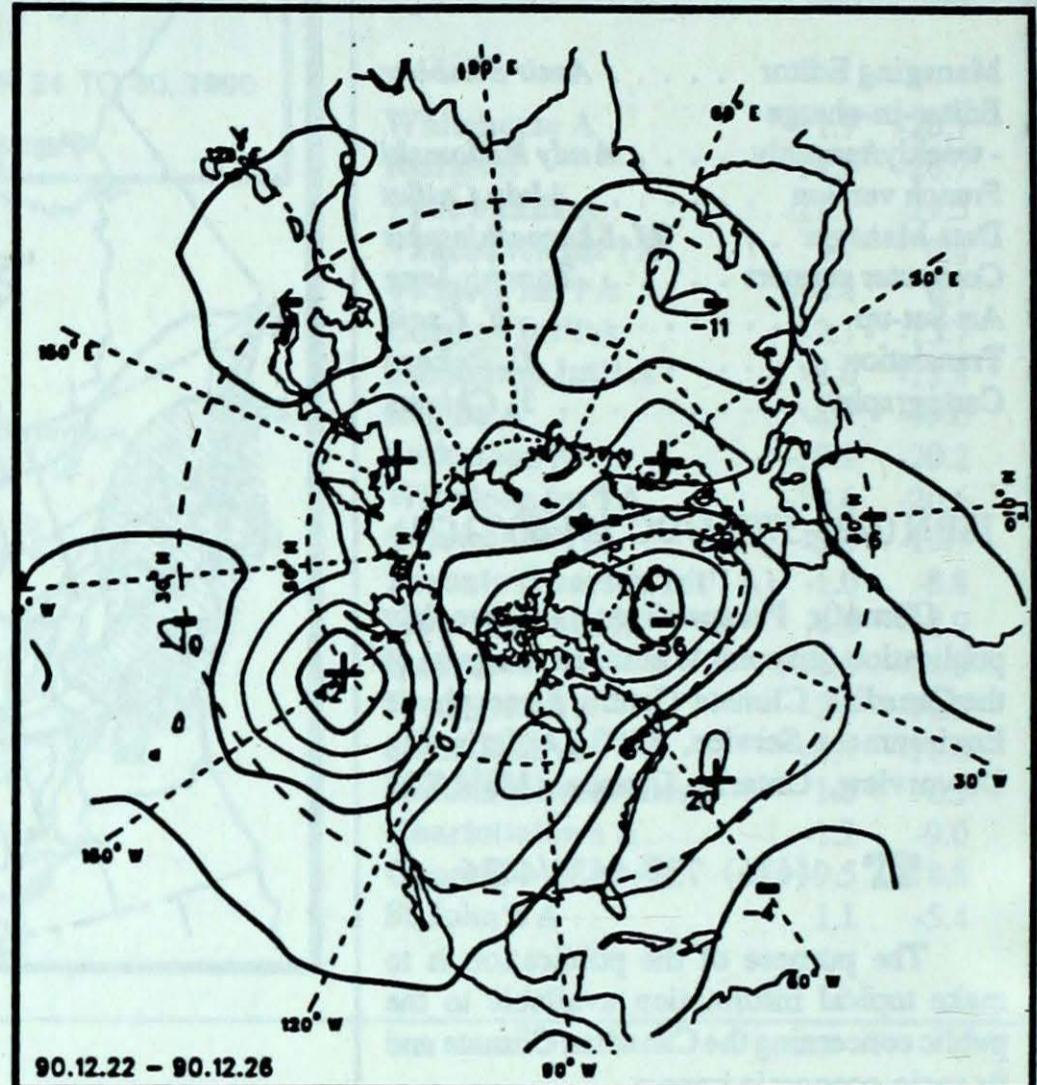
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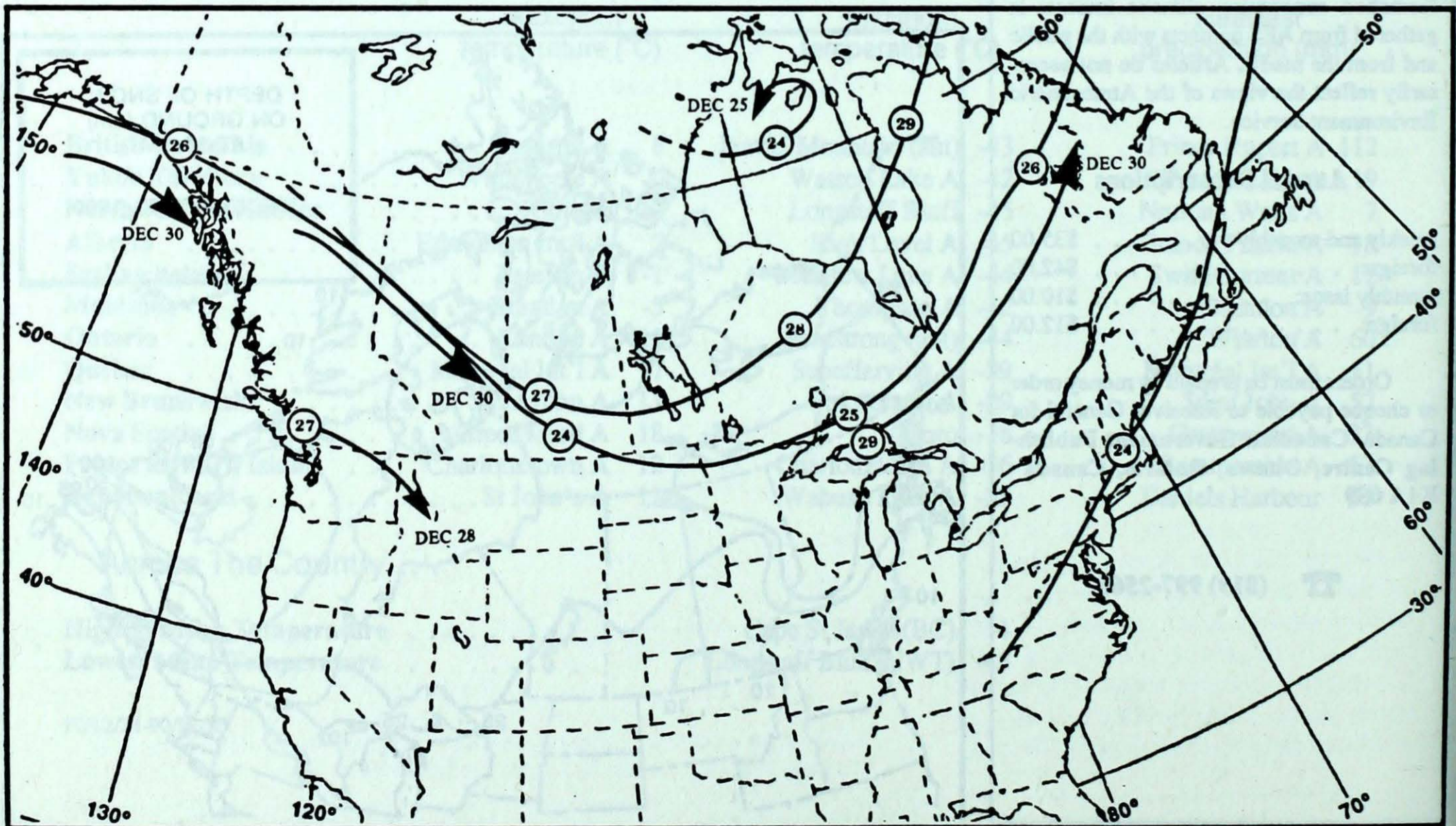
ATMOSPHERIC CIRCULATION



Mean geopotential height
50-kPa level (10-decametre intervals)



Mean geopotential height anomaly
50-kPa level (10-decametre intervals)

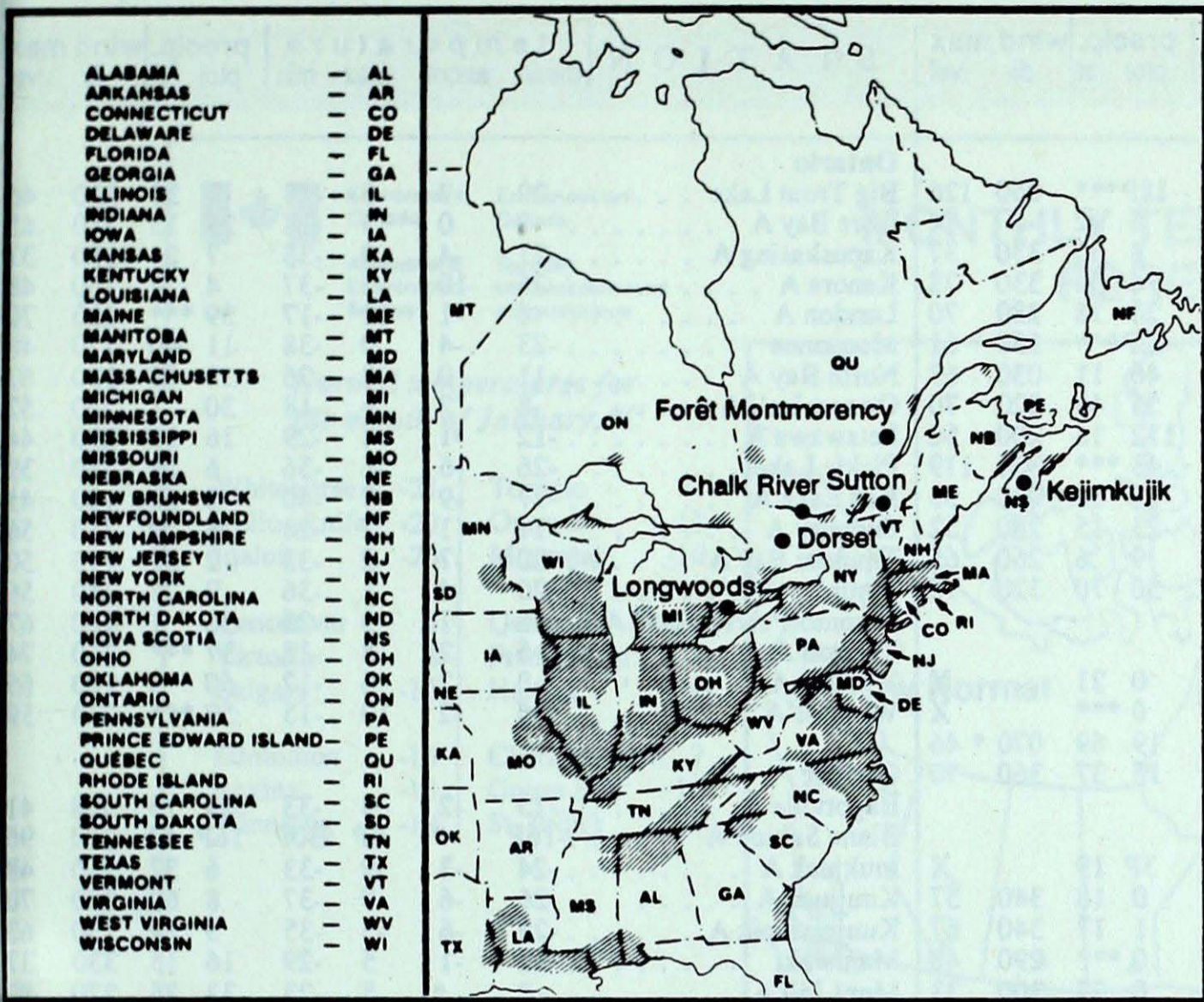


Tracks of low pressure centres at 12:00 U.T. each day during the period.

ACID RAIN

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 SO₂ 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.



Site day pH amount air path to site

Data not available

STATION	temperature				precip.		wind max		STATION	temperature				precip.		wind max	
	mean	anom	max	min	ptot	st	dir	vel		mean	anom	max	min	ptot	st	dir	vel
British Columbia								Ontario									
Cape St James	4P	-1P	7P	-6P	18P***		050	126	Big Trout Lake	-29	-7	-8	-38	3	35	310	46
Cranbrook A	-20	-12	-10	-34	6	12		X	Gore Bay A	-8	0	3	-18	26	15	210	65
Fort Nelson A	-26	-4	-14	-36	8	50	330	37	Kapuskasing A	-21	-4	0	-36	7	24	170	37
Fort St John A	-23	-10	2	-35	14	54	330	78	Kenora A	-26	-10	-5	-37	4	24	160	48
Kamloops A	-15	-10	-3	-31	20	18	280	70	London A	-6	-1	11	-17	59	***	220	70
Penticton A	-16P	-14P	-6P	-26P	2P***		150	61	Moosonee	-23	-4	0	-38	11	40	170	48
Port Hardy A	1	-3	7	-8	46	11	030	63	North Bay A	-11	0	3	-26	13	13	190	67
Prince George A	-17	-8	-1	-41	55	45	020	70	Ottawa Int'l A	-8	2	6	-18	30	1	240	52
Prince Rupert A	0	-1	6	-13	112	16	200	56	Petawawa A	-12	-1	4	-29	16	16	290	44
Revelstoke A	-15	-9	-6	-25	43	***	350	119	Pickle Lake	-26	-6	-6	-36	6	23	180	39
Smithers A	-13	-4	5	-31	22	35	030	59	Red Lake A	-27	-9	-7	-40	5	29	160	41
Vancouver Int'l A	-3	-6	6	-14	23	15	280	52	Sudbury A	-11	1	2	-24	6	9	250	56
Victoria Int'l A	-1	-4	8	-12	9	6	260	65	Thunder Bay A	-20	-7	-2	-33	2	31	190	50
Williams Lake A	-17	-8	-3	-40	50	70	320	70	Timmins A	-20	-4	1	-36	9	28	280	56
Yukon Territory								Toronto (Pearson Int'l A)									
Komakuk Beach A	-26	-2	-18	-35	0	21		X	Trenton A	-5	2	8	-18	37	***	230	74
Teslin (aut)	-18	*	0	-31	0	***		X	Warton A	-3	2	6	-12	60	3	260	65
Watson Lake A	-24	-1	-10	-42	19	69	070	46	Windsor A	-5	-2	10	-15	59	***	230	59
Whitehorse A	-15	1	0	-28	15	37	360	70	Québec								
Northwest Territories								Bagotville A									
Alert	-29P	1P	-21P	-42P	3P	19		X	Blanc Sablon A	-16P	*	0P	-30P	16P	47	060	96
Baker Lake A	-35	-5	-29	-41	0	18	340	57	Inukjuak A	-24	-3	-9	-33	6	32	260	48
Cambridge Bay A	-32	0	-26	-38	1	17	340	67	Kuujuuaq A	-26	-6	-9	-37	8	60	250	70
Cape Dyer A	-33	-13	-24	-40	0	***	290	48	Kuujuuarapik A	-25	-6	-5	-35	5	19	150	63
Clyde A	-33	-8	-29	-37	0	27	300	33	Maniwaki	-12	-1	5	-29	16	15	330	37
Coppermine A	-28	0	-20	-35	4	37	320	65	Mont Joli A	*	*	5	-23	33	35	270	82
Coral Harbour A	-33	-6	-21	-40	3	20	020	37	Montréal Int'l A	-6	3	7	-17	51	3	240	65
Eureka	-38	-3	-31	-44	0	7		X	Natashquan A	-14	-4	0	-30	32	62	300	46
Fort Smith A	-33	-10	-22	-42	3	55	300	37	Québec A	-11	0	4	-25	39	38	230	54
Hall Beach A	-36	-8	-28	-41	0	30	300	33	Schefferville A	-25P	-5P	-7P	-39P	5P	73	300	67
Inuvik A	-28	0	-19	-40	2	***	330	54	Sept-Îles A	-18	-7	0	-34	21	65	270	63
Iqaluit A	-32P	-10P	-26P	-40P	1P	25		X	Sherbrooke A	-8	3	6	-23	51	6	270	56
Mould Bay A	-30	3	-16	-41	2	23	270	78	Val-d'Or A	-17	-2	2	-33	11	21	170	50
Norman Wells A	-27	0	-16	-39	7	24	310	82	New Brunswick								
Resolute A	-33	-3	-25	-39	4	34	340	67	Charlo A	-13	-3	3	-25	28	63	250	50
Yellowknife A	-34	-9	-24	-43	1	42	320	46	Chatham A	-10	-2	5	-26	31	8	040	74
Alberta								Fredericton A									
Calgary Int'l A	-16	-8	1	-34	2	***	350	91	Moncton A	-6	1	7	-18	53	***	250	74
Cold Lake A	-28	-13	-9	-41	10	24	350	54	Saint John A	-4	2	11	-16	57	***	200	74
Edmonton Namao A	-20	-8	2	-35	8	16	320	82	Nova Scotia								
Fort McMurray A	-30	-12	-13	-41	4	25	340	48	Greenwood A	-2	2	18	-13	33	***	210	100
High Level A	-33	-14	-17	-45	11	53	350	74	Shearwater A	-2	0	12	-13	17	***	200	93
Jasper	-20	-10	-5	-40	7	37		X	Sydney A	-3	-1	13	-14	17	***	220	106
Lethbridge A	-17	-11	0	-35	7	9	250	106	Yarmouth A	0	1	12	-10	16	***	180	72
Medicine Hat A	-19	-11	-1	-36	6	8	340	83	Prince Edward Island								
Peace River A	-27	-11	-2	-40	8	22	341	39	Charlottetown A	-4	1	12	-16	35	1	180	59
Saskatchewan								Summerside A									
Cree Lake	-32	-13	-18	-43	4	51	350	59	-5	0	6	-16	53	***	280	72	
Estevan A	-25	-13	-1	-39	6	10	310	85	Newfoundland								
La Ronge A	-30	-13	-15	-44	6	41	330	52	Cartwright	-18	-8	-1	-31	17	102	250	72
Regina A	-27	-13	-4	-39	3	10	320	83	Churchill Falls A	-24	-6	-4	-38	7	95	270	56
Saskatoon A	-27	-12	-5	-39	3	7	350	52	Gander Int'l A	-6	-2	11	-21	29	1	290	78
Swift Current A	-23	-13	-3	-37	12	23	330	59	Goose A	-21	-6	-1	-33	9	77	270	70
Yorkton A	-28	-12	-8	-39	5	17	310	56	Port Aux Basques	-4	-2	8	-13	47	5	300	89
Manitoba								St John's A									
Brandon A	-27	-11	-5	-40	9	26	300	67	-3	-1	15	-16	14	1	220	91	
Churchill A	-31	-7	-20	-37	6	30	340	70	St Lawrence	-3	-2	9	-13	23	***		X
Lynn Lake A	-33	-11	-23	-41	6	30	340	59	Wabush Lake A	-25	-5	-4	-38	9	60	280	56
The Pas A	-29	-9	-16	-38	2	14	320	59	90/12/24-90/12/30								
Thompson A	-33	-11	-21	-42	6	60	300	50									
Winnipeg Int'l A	-25	-9	-5	-35	5	15	170	80									

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.
 vel = wind speed in km/h

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

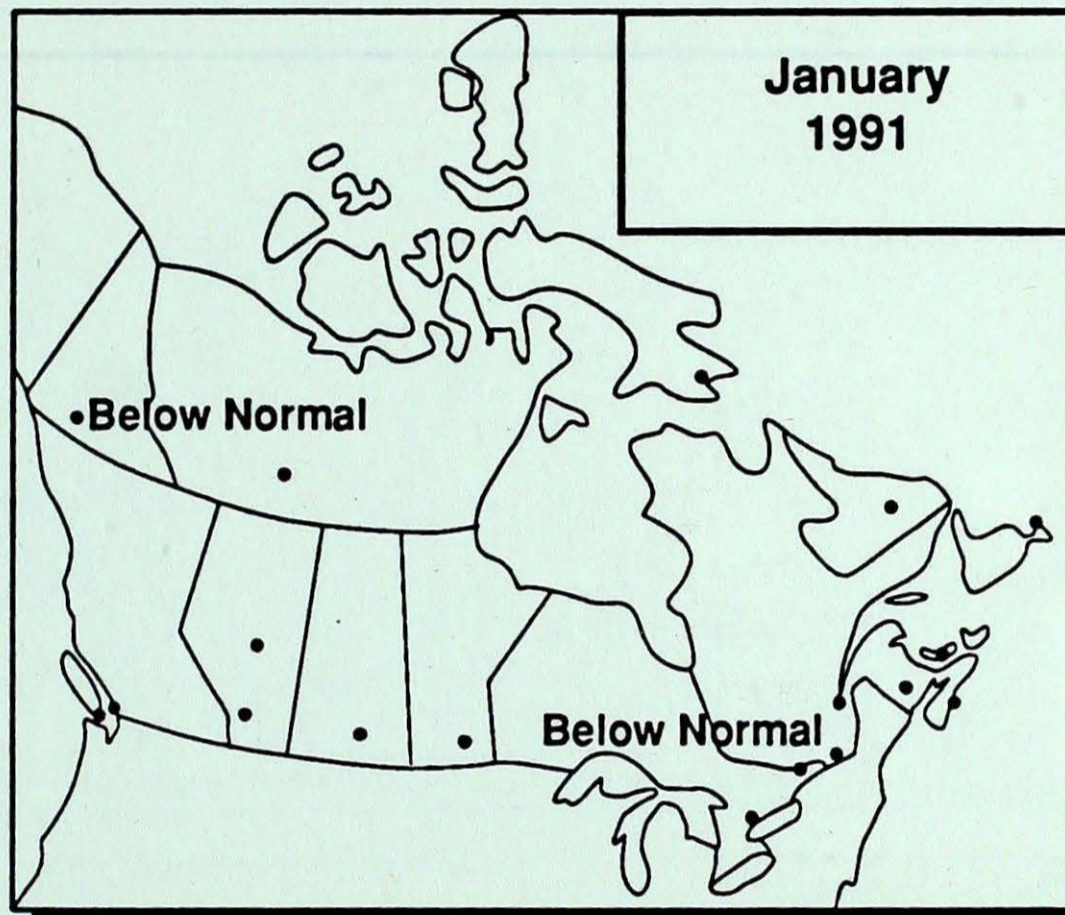


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MONTHLY TEMPERATURE FORECAST

Normal temperatures for the month of January, °C

Whitehorse	-21	Toronto	-7
Yellowknife	-29	Ottawa	-11
Iqaluit	-26	Montréal	-10
Vancouver	3	Québec	-12
Victoria	3	Fredericton	-9
Calgary	-12	Halifax	-4
Edmonton	-16	Charlottetown	-7
Regina	-18	Goose Bay	-16
Winnipeg	-19	St. John's	-4



Canada

Maps and tables only
for the Christmas week.

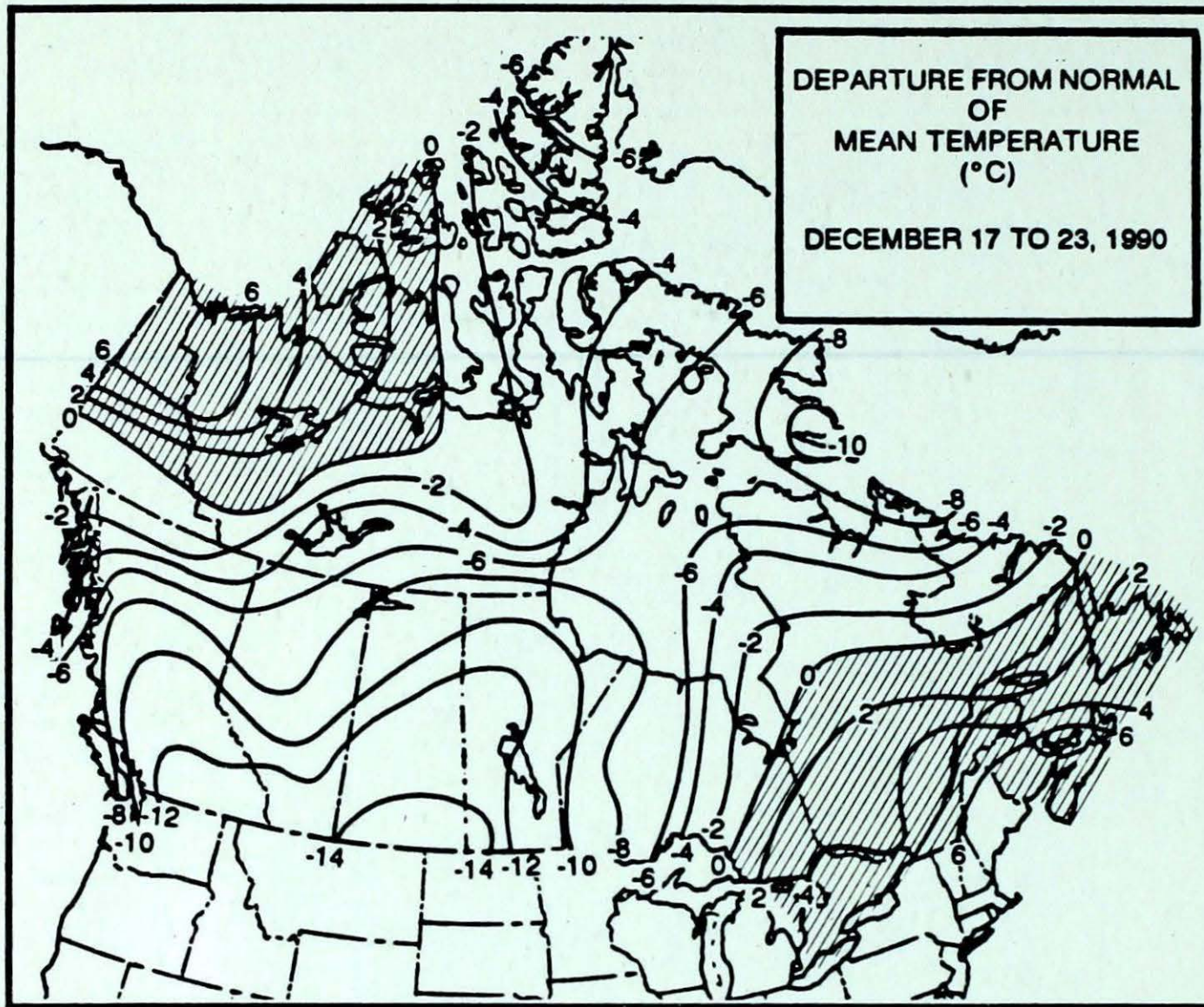
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Weekly temperature and precipitation
DEPARTURE FROM NORMAL
OF
MEAN TEMPERATURE
(°F)
DECEMBER 17 TO 23, 1960

**Maps and tables only
for the Christmas week.**



Weekly normal temperatures (°C)

	max.	min.
Whitehorse A	-13.1	-21.7
Iqaluit A	-18.0	-26.4
Yellowknife A	-20.6	-28.8
Vancouver Int'l A	6.5	1.5
Victoria Int'l A	7.2	1.6
Calgary Int'l A	-2.5	-14.3
Edmonton Int'l A	-8.3	-19.2
Regina A	-8.4	-18.2
Saskatoon A	-9.9	-19.4
Winnipeg Int'l A	-9.9	-19.0
Ottawa Int'l A	-5.6	-13.6
Toronto (Pearson Int'l A)	-0.7	-8.7
Montréal Int'l A	-4.9	-12.7
Québec A	-6.9	-15.3
Fredericton A	-2.9	-13.6
Saint John A	-1.9	-11.7
Halifax (Shearwater)	0.9	-7.2
Charlottetown A	-1.7	-9.7
Goose A	-9.5	-18.1
St John's A	0.8	-5.8

Weekly temperature and precipitation extremes

	Maximum temperature (°C)	Minimum temperature (°C)	Heaviest precipitation (mm)
British Columbia	Hope A 11	Puntzi Mountain (aut) -48	Hope A 53
Yukon Territory	Komakuk Beach A 0	Watson Lake A -38	Watson Lake A 4
Northwest Territories	Norman Wells A 1	Shepherd Bay A -47	Norman Wells A 11
Alberta	Lethbridge A 4	Grande Prairie A -47	Grande Prairie A 22
Saskatchewan	Eastend Cypress (aut) -3	Meadow Lake A -47	Cree Lake 6
Manitoba	Dauphin A -14	Thompson A -48	Churchill A 7
Ontario	Toronto Int'l A 14	Big Trout Lake -37	Trenton A 42
Québec	Sherbrooke A 12	Schefferville A -38	Montréal Int'l A 39
New Brunswick	Moncton A 16	Charlo A -19	Moncton A 54
Nova Scotia	Greenwood A 18	Truro -12	Sydney A 44
Prince Edward Island	Charlottetown A 15	Charlottetown A -12	Charlottetown A 66
Newfoundland	St John's A 12	Nain A -42	Burgeo 91

Across The Country...

Highest Mean Temperature	Sable Island (NS) 19
Lowest Mean Temperature	Eureka(NWT) -42

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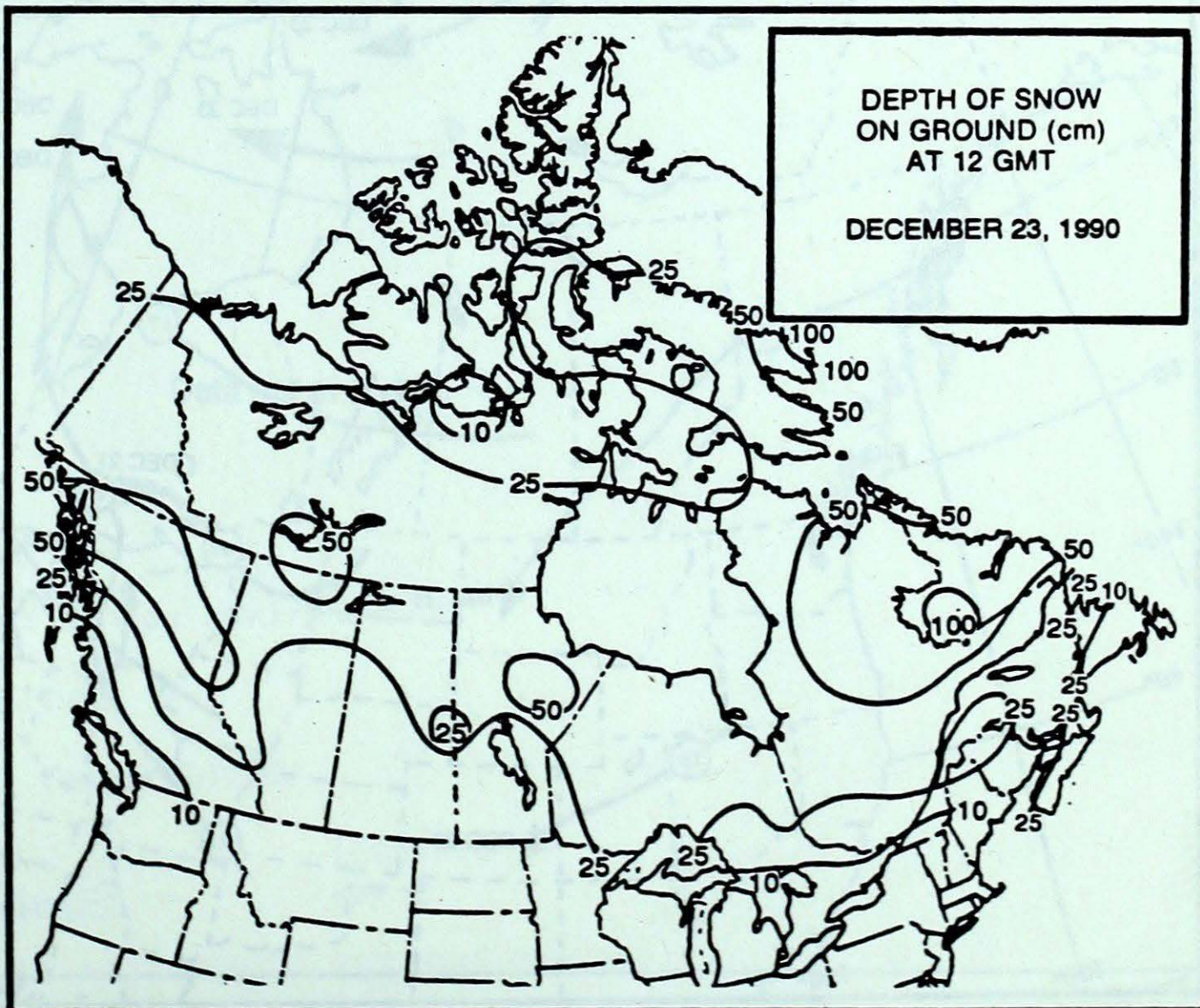
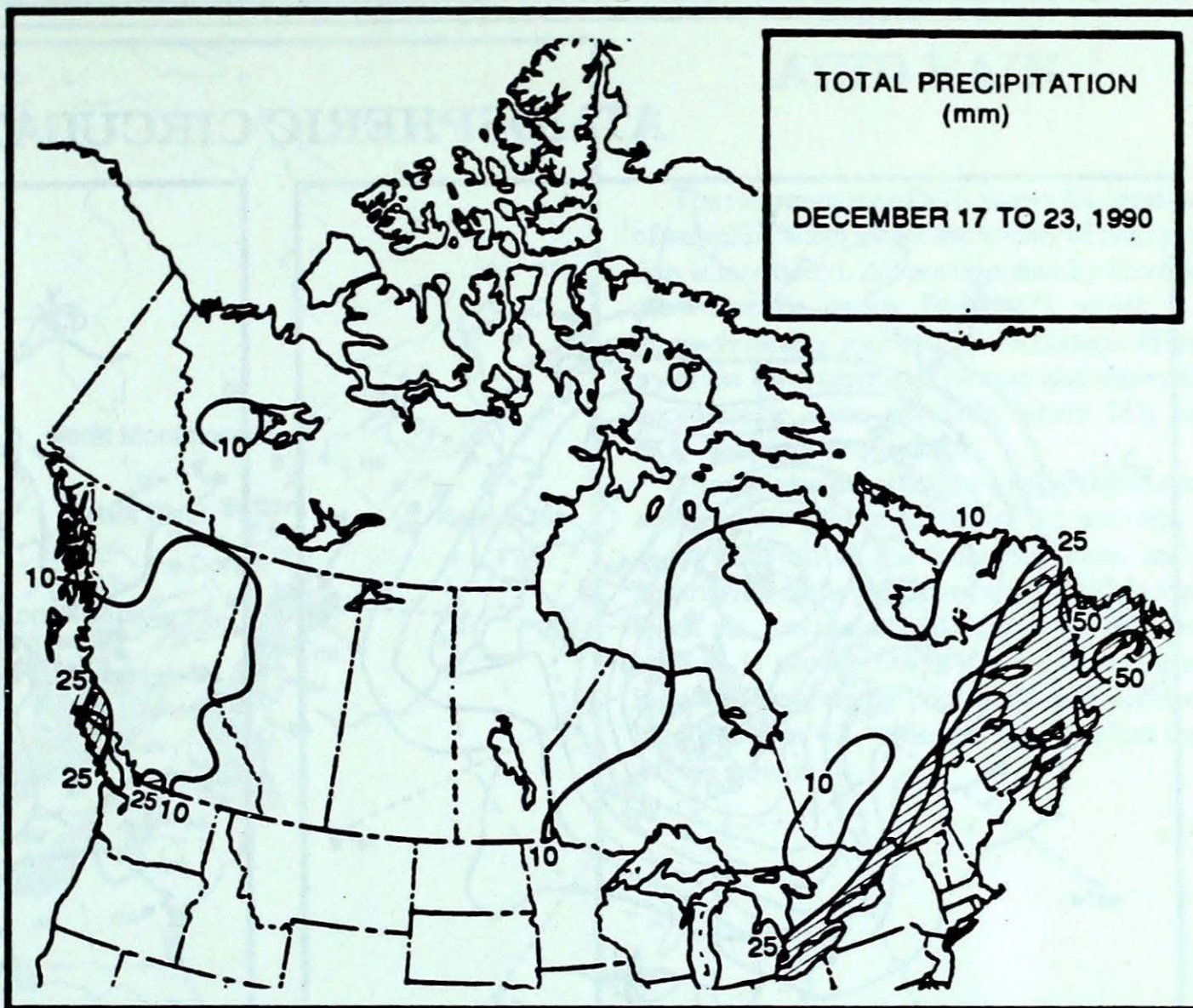
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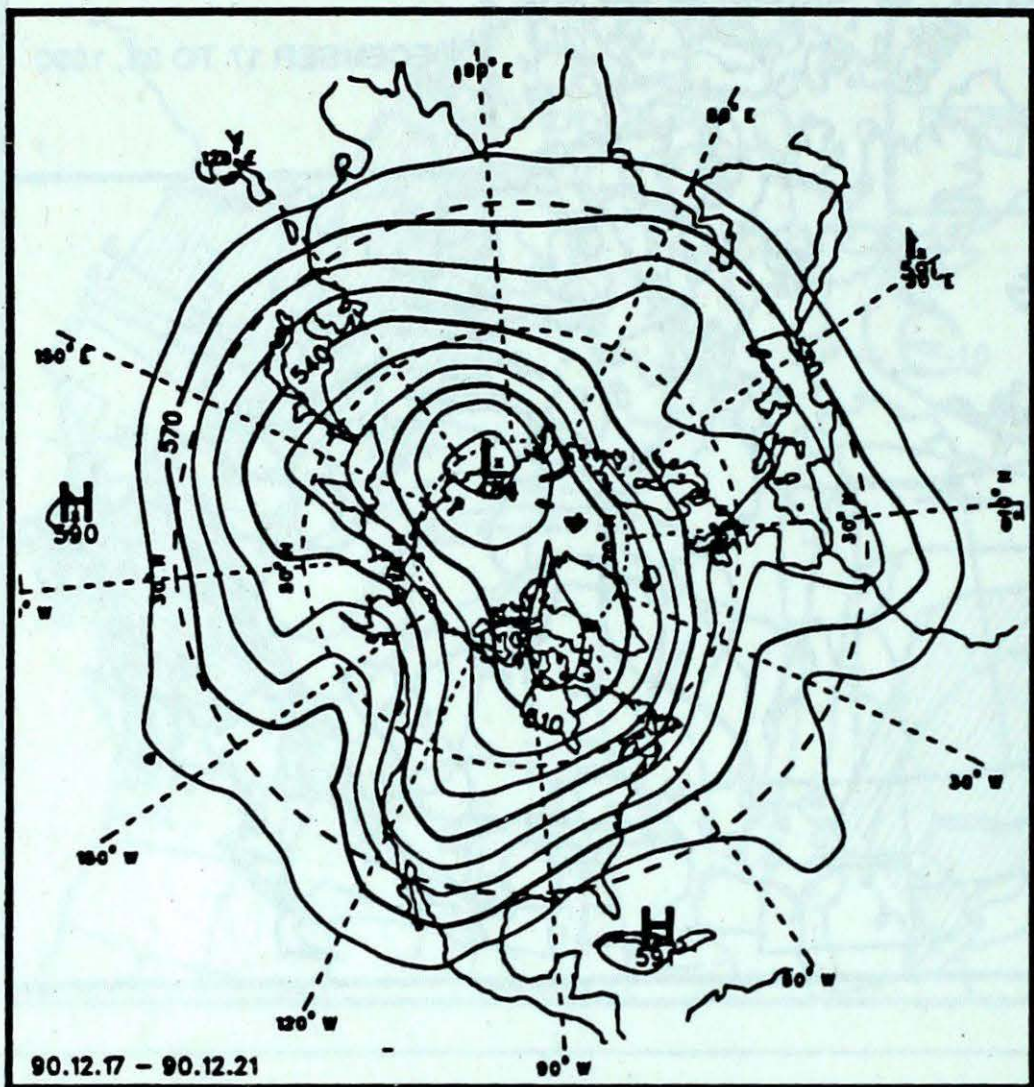
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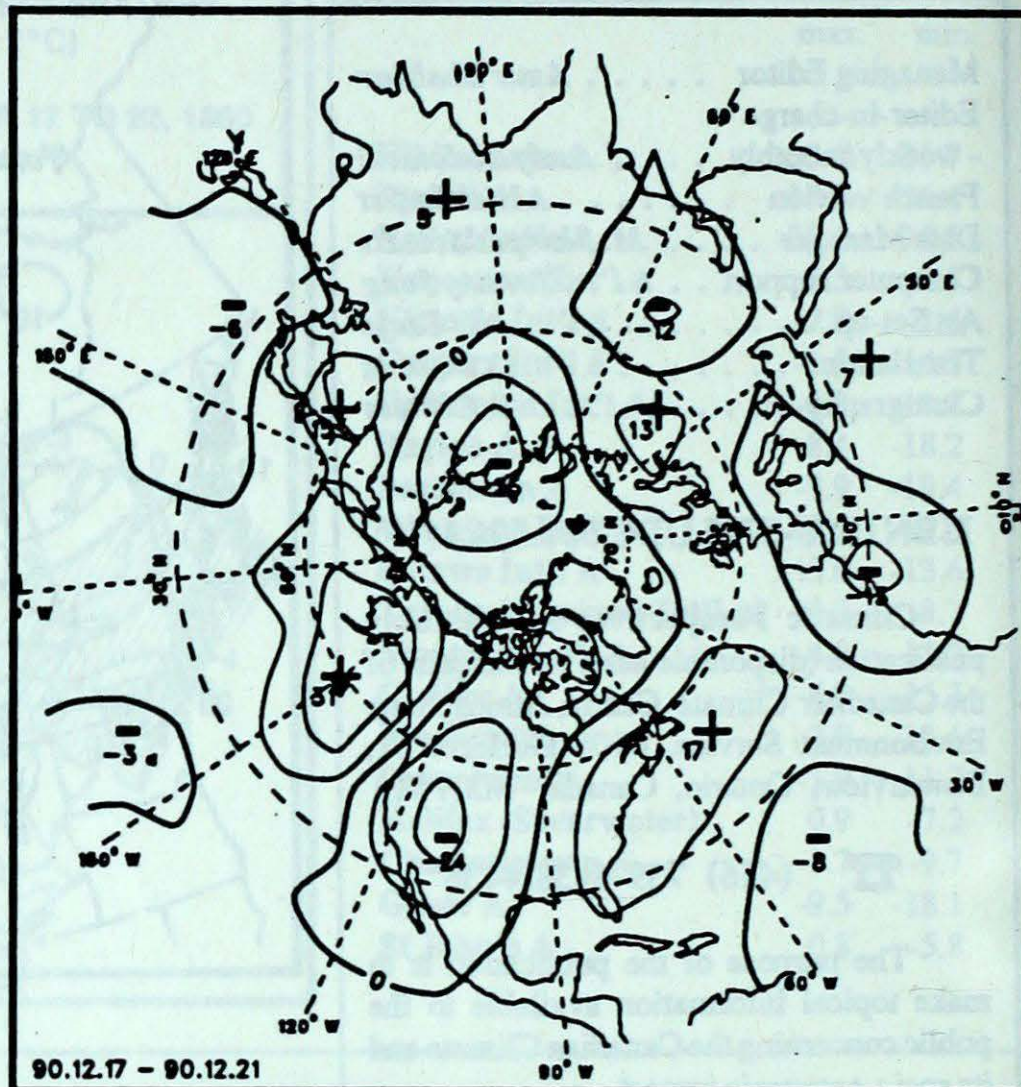
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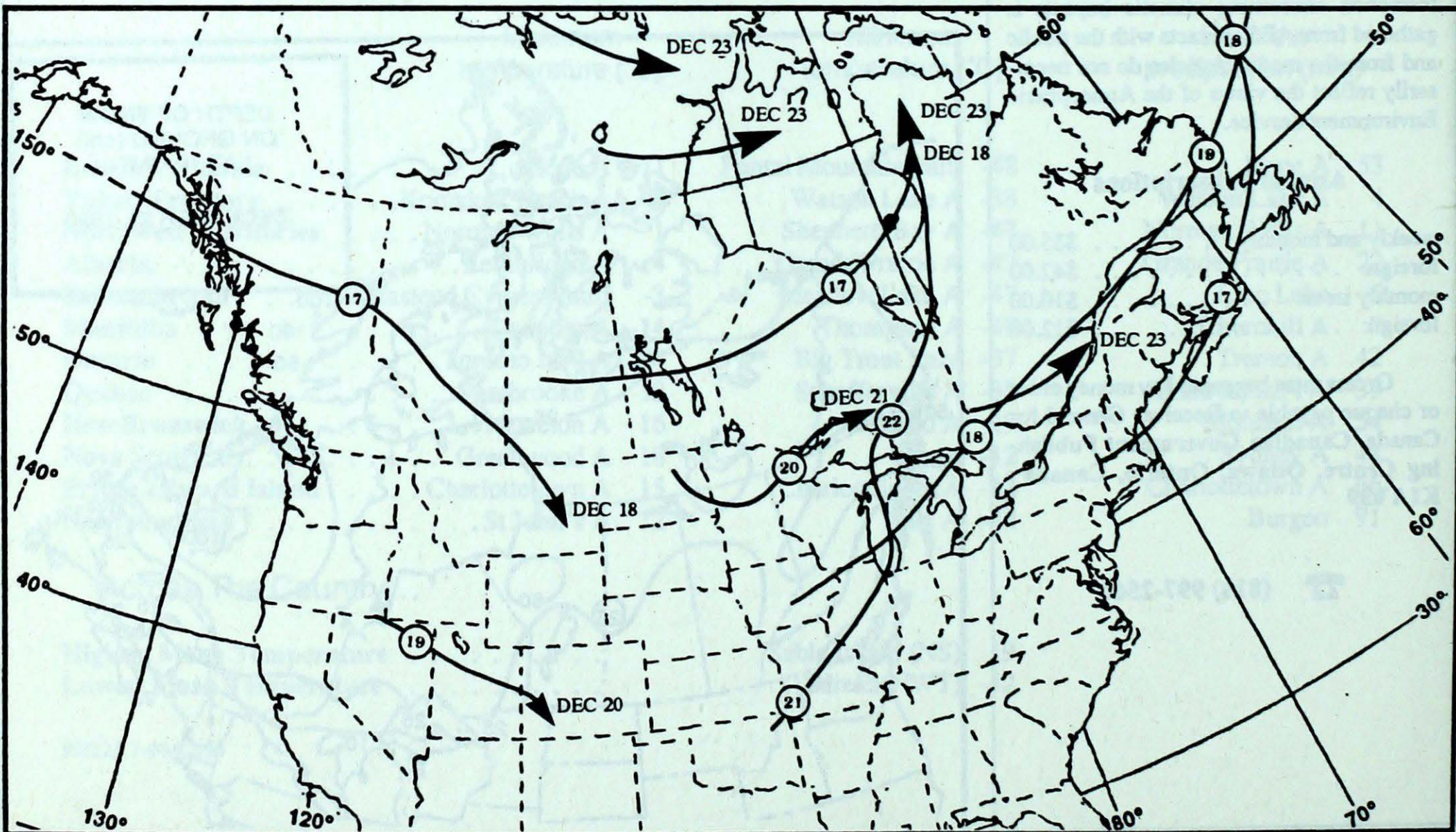
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Mean geopotential height
50-kPa level (10-decametre intervals)



Mean geopotential height anomaly
50-kPa level (10-decametre intervals)

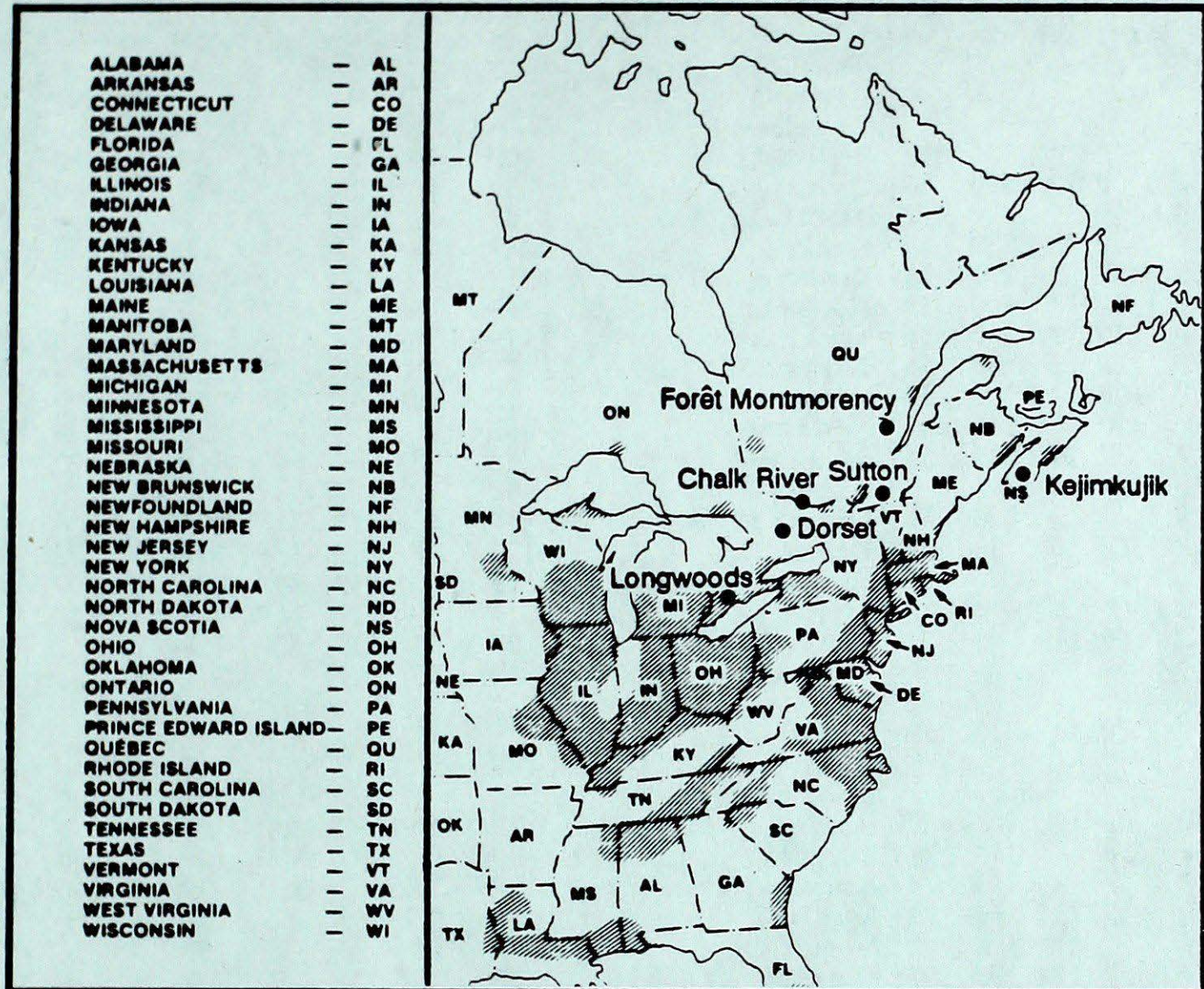


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Site	day	pH	amount	air path to site
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Data not available.

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CLIMATIC PERSPECTIVES

Vol: 12 No: 51 Date: 901230

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REF 2

STATION	temperature				precip. ptot st	wind max		STATION	temperature				precip. ptot st	wind max			
	mean	anom	max	min		dir	vel		mean	anom	max	min		dir	vel		
British Columbia								Ontario									
Cape St James	3P	-2P	9P	-5P	1P***	030	128	Big Trout Lake	-29P	-7P	-12P	-37P	6P	33	310	44	
Cranbrook A	-21P	-16P	-1P	-30P	0P***	050	50	Gore Bay A	-3P	4P	7P	-16P	13P***	240	44		
Fort Nelson A	-24P	-1P	-6P	-35P	15P	39	X	Kapusking A	-16P	0P	2P	-30P	12P	20	210	33	
Fort St John A	-20P	-6P	-5P	-37P	16P	45	330	65	Kenora A	-24P	-10P	-17P	-31P	14P	21	020	41
Kamloops A	-15P	-12P	4P	-25P	4P	3	290	54	London A	1P	6P	12P	-6P	35P	3	100	54
Penticton A	-15P	-14P	3P	-19P	1P***	300	59	Moosonee	-19P	-1P	1P	-29P	17P	32	250	52	
Port Hardy A	-2P	-6P	8P	-10P	47P	1	290	56	North Bay A	-7P	5P	7P	-22P	6P	15	240	52
Prince George A	-22P	-13P	0P	-37P	12P	13	260	56	Ottawa Int'l A	-6P	4P	4P	-18P	35P	1	X	
Prince Rupert A	-3P	-4P	7P	-13P	19P	1	300	56	Petawawa A	-9P	3P	4P	-28P	7P	13	320	33
Revelstoke A	-14P	-11P	1P	-22P	16P	10	330	72	Pickle Lake	-26P	-7P	-5P	-34P	12P	22	040	39
Smithers A	-19P	-11P	3P	-31P	3P	19	010	56	Red Lake A	-25P	-9P	-10P	-34P	11P	24	020	37
Vancouver Int'l A	-6P	-10P	7P	-12P	12P	1			Sudbury A	-8P	4P	5P	-21P	8P	10	240	41
Victoria Int'l A	-4P	-8P	8P	-11P	4P	4	260	69	Thunder Bay A	-15P	-4P	1P	-32P	22P	31	290	52
Williams Lake A	-20P	-12P	2P	-36P	11P	36	280	98	Timmins A	-12P	3P	3P	-31P	19P	25	300	46
Yukon Territory								Toronto(Pearson Int'l A)									
Komakuk Beach A	-18P	6P	0P	-34P	0P	21	X	Trenton A	-1P	5P	10P	-14P	42P***	320	43		
Teslin (aut)	-22P	*	-6P	-34P	0P***		X	Warton A	0P	5P	12P	-10P	12P	2	160	41	
Watson Lake A	-26P	0P	-13P	-38P	4P	43	X	Windsor A	2P	5P	11P	-8P	37P	5	260	35	
Whitehorse A	-18P	0P	-5P	-33P	1P	27	320	35	Québec								
Northwest Territories								Bagotville A									
Alert	-39P	-9P	-33P	-44P	0P	17	X	Blanc Sablon A	-9P	*	2P	-21P	34P	30	100	93	
Baker Lake A	-30P	-2P	-18P	-40P	3P	18	340	78	Inukjuak A	-23P	-3P	-5P	-30P	17P	26	070	46
Cambridge Bay A	-30P	0P	-17P	-38P	5P	18	340	78	Kuujuuaq A	-25P	-6P	-8P	-34P	10P	62	250	59
Cape Dyer A	-28P	-8P	-18P	-37P	4P	131	270	96	Kuujuarapik A	-20P	-2P	-2P	-33P	7P	18	210	69
Clyde A	-30P	-5P	-22P	-36P	0P	27	310	72	Maniwaki	-8P	4P	6P	-27P	13P	16	X	
Coppermine A	-24P	2P	-6P	-37P	2P	31	300	102	Mont Joli A	-7P	4P	2P	-19P	26P	34	070	57
Coral Harbour A	-33P	-7P	-21P	-42P	3P	16	320	44	Montréal Int'l A	-5P	4P	3P	-15P	39P	2	260	32
Eureka	-42P	-7P	-37P	-44P	0P	7	X	Natashquan A	-10P	0P	2P	-22P	25P	53	030	65	
Fort Smith A	-29P	-6P	-9P	-44P	2P	51	320	46	Québec A	-6P	5P	8P	-20P	29P	25	070	33
Hall Beach A	-32P	-5P	-23P	-40P	0P	30	340	41	Schefferville A	-24P	-3P	-5P	-38P	5P	78	240	70
Inuvik A	-22P	6P	-2P	-38P	4P	36	320	70	Sept-Îles A	-12P	1P	0P	-22P	17P	43	340	50
Iqaluit A	-33P	-11P	-25P	-40P	1P	25	320	57	Sherbrooke A	-3P	7P	12P	-19P	37P	1	270	35
Mould Bay A	-31P	1P	-14P	-40P	3P	22	310	56	Val-d'Or A	-12P	4P	5P	-31P	2P	18	220	39
Norman Wells A	-21P	6P	1P	-36P	11P	28	290	52	New Brunswick								
Resolute A	-32P	-2P	-23P	-38P	0P	33	170	54	Charlo A	-7P	4P	2P	-19P	20P	46	330	50
Yellowknife A	-30P	-5P	-6P	-45P	3P	43	330	70	Chatham A	-3P	6P	8P	-14P	45P	2	350	63
Alberta								Fredericton A									
Calgary Int'l A	-18P	-10P	4P	-32P	2P	4	360	87	Moncton A	0P	7P	16P	-12P	54P***	230	83	
Cold Lake A	-26P	-12P	-11P	-42P	6P	18	X	Saint John A	1P	8P	11P	-13P	48P***	320	69		
Edmonton Namao A	-22P	-9P	-5P	-36P	6P	15	340	54	Nova Scotia								
Fort McMurray A	-26P	-8P	-10P	-40P	7P	19	340	39	Greenwood A	4P	8P	18P	-12P	30P***	250	95	
High Level A	-26P	-4P	-8P	-46P	6P	42	360	52	Shearwater A	3P	6P	11P	-10P	20P***	200	74	
Jasper	-23P	-13P	-2P	-40P	7P	35	X	Sydney A	3P	6P	13P	-10P	44P***	220	83		
Lethbridge A	-20P	-14P	4P	-37P	5P	13	261	93	Yarmouth A	4P	6P	11P	-9P	5P***	180	70	
Medicine Hat A	-24P	-16P	2P	-35P	1P	9	360	72	Prince Edward Island								
Peace River A	-23P	-7P	-5P	-40P	6P	18	360	52	Charlottetown A	1P	6P	15P	-12P	66P***	250	93	
Saskatchewan								Summerside A									
Cree Lake	-29P	-8P	-14P	-44P	6P***	340	57	0P	6P	11P	-10P	60P***	010	124			
Estevan A	-27P	-16P	-10P	-39P	5P	11	070	46	Newfoundland								
La Ronge A	-30P	-12P	-14P	-44P	2P	37	X	Cartwright	-11P	-2P	0P	-22P	23P	89	310	65	
Regina A	-28P	-15P	-11P	-40P	3P	11	360	48	Churchill Falls A	-21P	-2P	-4P	-34P	10P	100	260	52
Saskatoon A	-28P	-14P	-13P	-39P	2P	8	360	44	Gander Int'l A	0P	5P	10P	-12P	23P	3	190	78
Swift Current A	-26P	-15P	-5P	-39P	3P	15	340	44	Goose A	-17P	-3P	-3P	-25P	19P	69	270	59
Yorkton A	-29P	-14P	-15P	-42P	2P	16	X	Port Aux Basques	0P	3P	7P	-10P	45P	3	180	87	
Manitoba								St John's A									
Brandon A	-27P	-13P	-15P	-35P	4P	19	040	54	1P	4P	12P	-9P	39P	3	240	91	
Churchill A	-32P	-9P	-18P	-40P	7P	30	320	74	St Lawrence	2P	3P	9P	-10P	87P***	X		
Lynn Lake A	-32P	-10P	-16P	-43P	2P	44	310	67	Wabush Lake A	-21P	-1P	-4P	-35P	8P	49	250	37
The Pas A	-31P	-13P	-15P	-40P	0P	14	310	48	90/12/17-90/12/23								
Thompson A	-35P	-13P	-18P	-48P	1P	55	X										
Winnipeg Int'l A	-25P	-11P	-16P	-32P	7P	13	010	54									

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.
 vel = wind speed in km/h
Annotations
 X = no observation
 P = less than 7 days of data
 * = missing data when going to printing.

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