

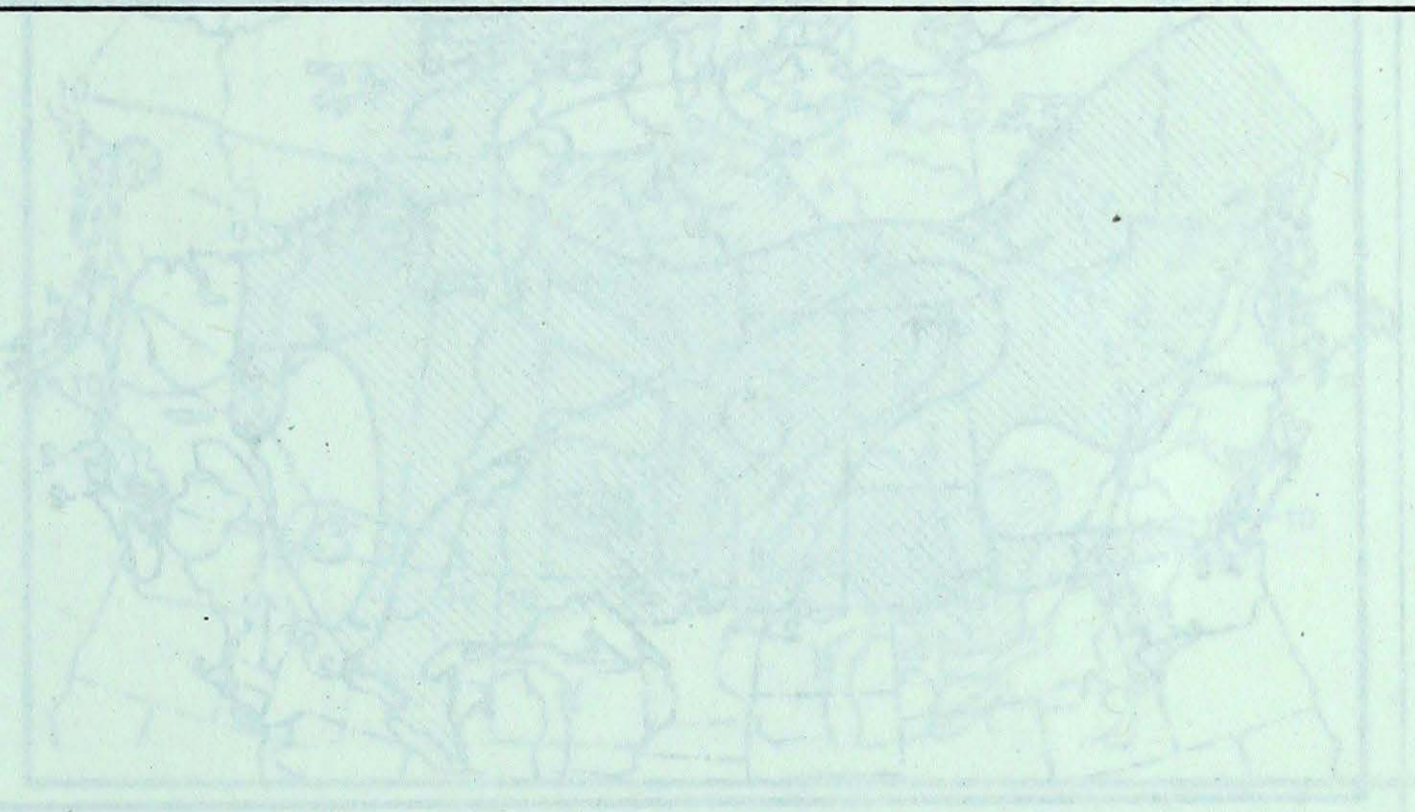
OTM

ARCHIVES

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REF 1

September 9 to 15, 1991 A weekly review of Canadian climate and water

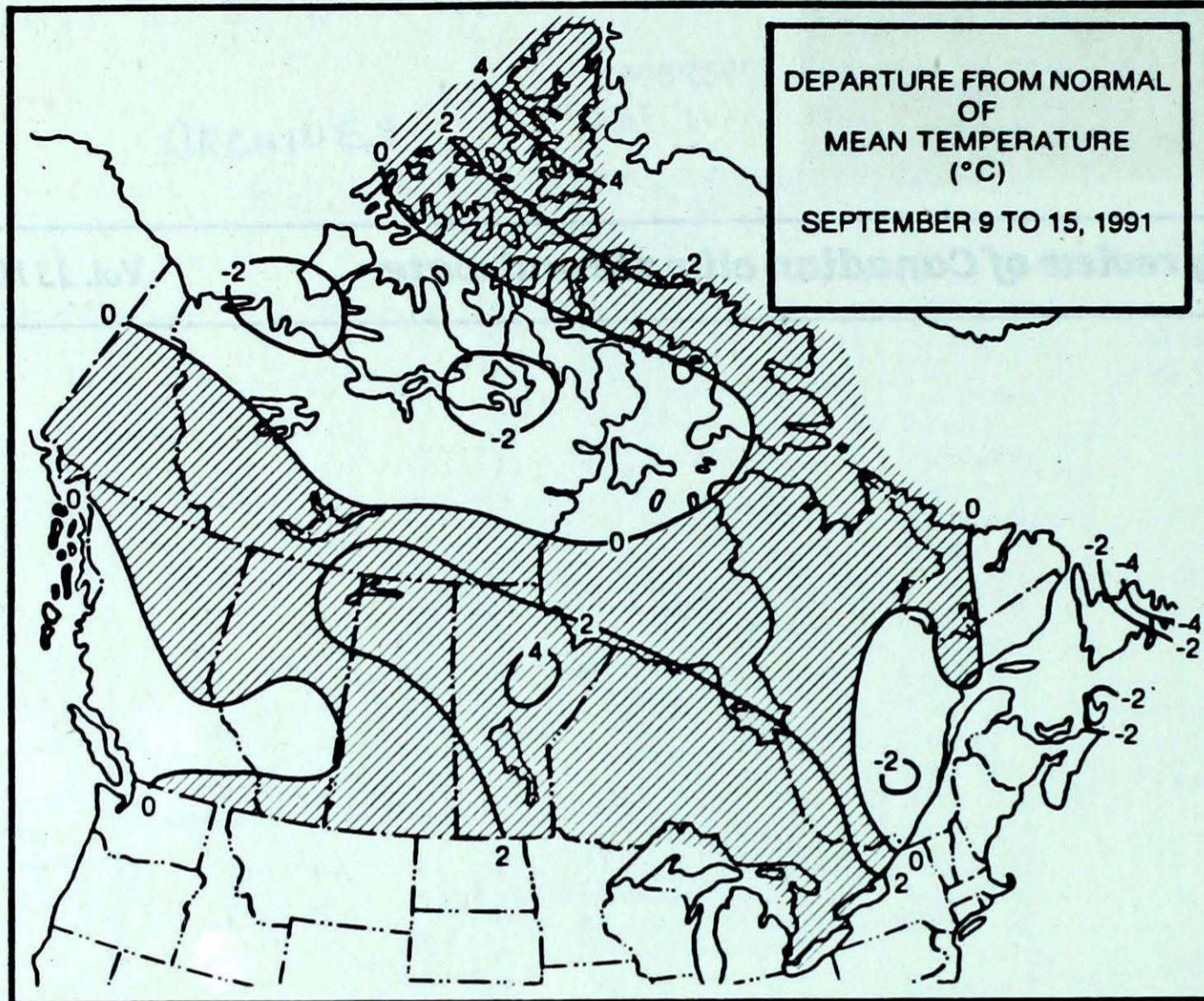
Vol. 13 No 37



Station	Temp (C)	Precip (mm)
St. John's	12.1	1.0
Halifax	11.5	0.5
Moncton	10.8	0.2
Quebec	10.2	0.1
Ottawa	9.5	0.1
Windsor	8.8	0.1
London	8.2	0.1
Edmonton	7.5	0.1
Calgary	6.8	0.1
Winnipeg	6.2	0.1
Saskatoon	5.5	0.1
Regina	4.8	0.1
Victoria	11.2	0.5
Vancouver	10.5	0.2
Seattle	9.8	0.1
Portland	9.2	0.1
San Francisco	8.5	0.1
Los Angeles	7.8	0.1
Phoenix	7.2	0.1
Denver	6.5	0.1
Chicago	5.8	0.1
New York	5.2	0.1
Washington	4.5	0.1
Atlanta	3.8	0.1
Phoenix	3.2	0.1
Los Angeles	2.5	0.1
San Francisco	1.8	0.1
Portland	1.2	0.1
Seattle	0.5	0.1
Vancouver	-0.2	0.1
Victoria	-0.8	0.1

Weekly temperature and precipitation extremes

Station	Max Temp (C)	Min Temp (C)	Precip (mm)
St. John's	15.2	2.1	1.5
Halifax	14.5	1.5	1.0
Moncton	13.8	0.8	0.5
Quebec	13.2	0.2	0.2
Ottawa	12.5	-0.5	0.2
Windsor	11.8	-1.2	0.2
London	11.2	-1.8	0.2
Edmonton	10.5	-2.5	0.2
Calgary	9.8	-3.2	0.2
Winnipeg	9.2	-3.8	0.2
Saskatoon	8.5	-4.5	0.2
Regina	7.8	-5.2	0.2
Victoria	14.8	1.5	1.0
Vancouver	14.2	0.8	0.5
Seattle	13.5	0.2	0.2
Portland	12.8	-0.5	0.2
San Francisco	12.2	-1.2	0.2
Los Angeles	11.5	-1.8	0.2
Phoenix	10.8	-2.5	0.2
Denver	10.2	-3.2	0.2
Chicago	9.5	-3.8	0.2
New York	8.8	-4.5	0.2
Washington	8.2	-5.2	0.2
Atlanta	7.5	-5.8	0.2
Phoenix	6.8	-6.5	0.2
Los Angeles	6.2	-7.2	0.2
San Francisco	5.5	-7.8	0.2
Portland	4.8	-8.5	0.2
Seattle	4.2	-9.2	0.2
Vancouver	3.5	-9.8	0.2
Victoria	2.8	-10.5	0.2



Weekly normal temperatures (°C)

	max.	min.
Whitehorse A	13.9	3.6
Iqaluit A	5.8	0.5
Yellowknife A	10.9	4.3
Vancouver Int'l A	19.1	10.4
Victoria Int'l A	20.0	9.0
Calgary Int'l A	17.9	4.4
Edmonton Int'l A	16.6	3.5
Regina A	19.7	5.6
Saskatoon A	18.7	5.5
Winnipeg Int'l A	18.9	6.8
Ottawa Int'l A	20.3	9.3
Toronto (Pearson Int'l A)	22.3	9.9
Montréal Int'l A	20.4	9.9
Québec A	18.4	7.4
Fredericton A	19.8	6.9
Saint John A	17.7	7.5
Halifax (Shearwater)	19.1	10.2
Charlottetown A	18.3	9.2
Goose A	13.8	5.0
St John's A	15.9	8.2

Weekly temperature and precipitation extremes

	Maximum temperature (°C)	Minimum temperature (°C)	Heaviest precipitation (mm)
British Columbia	Penticton A 28	Puntzi Mountain (aut) -4	Prince Rupert A 54
Yukon Territory	Watson Lake A 17	Komakuk Beach A -3	Teslin (aut) 25
Northwest Territories	Fort Simpson A 21	Alert -13	Rankin Inlet A 79
Alberta	Lethbridge A 28	Edmonton Int'l A -2	Peace River A 20
Saskatchewan	Moose Jaw A 31	Prince Albert A -1	Broadview 31
Manitoba	Dauphin A 28	Grand Rapids (aut) -2	Gimli 64
Ontario	Windsor A 33	Armstrong (aut) -1	Sioux Lookout A 62
Québec	Sherbrooke A 25	Chibougamau Chapais a -2	Kuujuarapik A 47
New Brunswick	St Stephen (aut) 26	St-Léonard A 0	St-Léonard A 14
Nova Scotia	Greenwood A 26	Truro 4	Greenwood A 24
Prince Edward Island	Charlottetown A 20	Charlottetown A 7	East Point (aut) 22
Newfoundland	Burgeo 18	Nain A -2	Cartwright 38

Across The Country...

Highest Mean Temperature	Windsor A(ONT)	22
Lowest Mean Temperature	Alert(NWT)	-5

CLIMATIC PERSPECTIVES
VOLUME 13

Managing Editor **Bruce Findlay**
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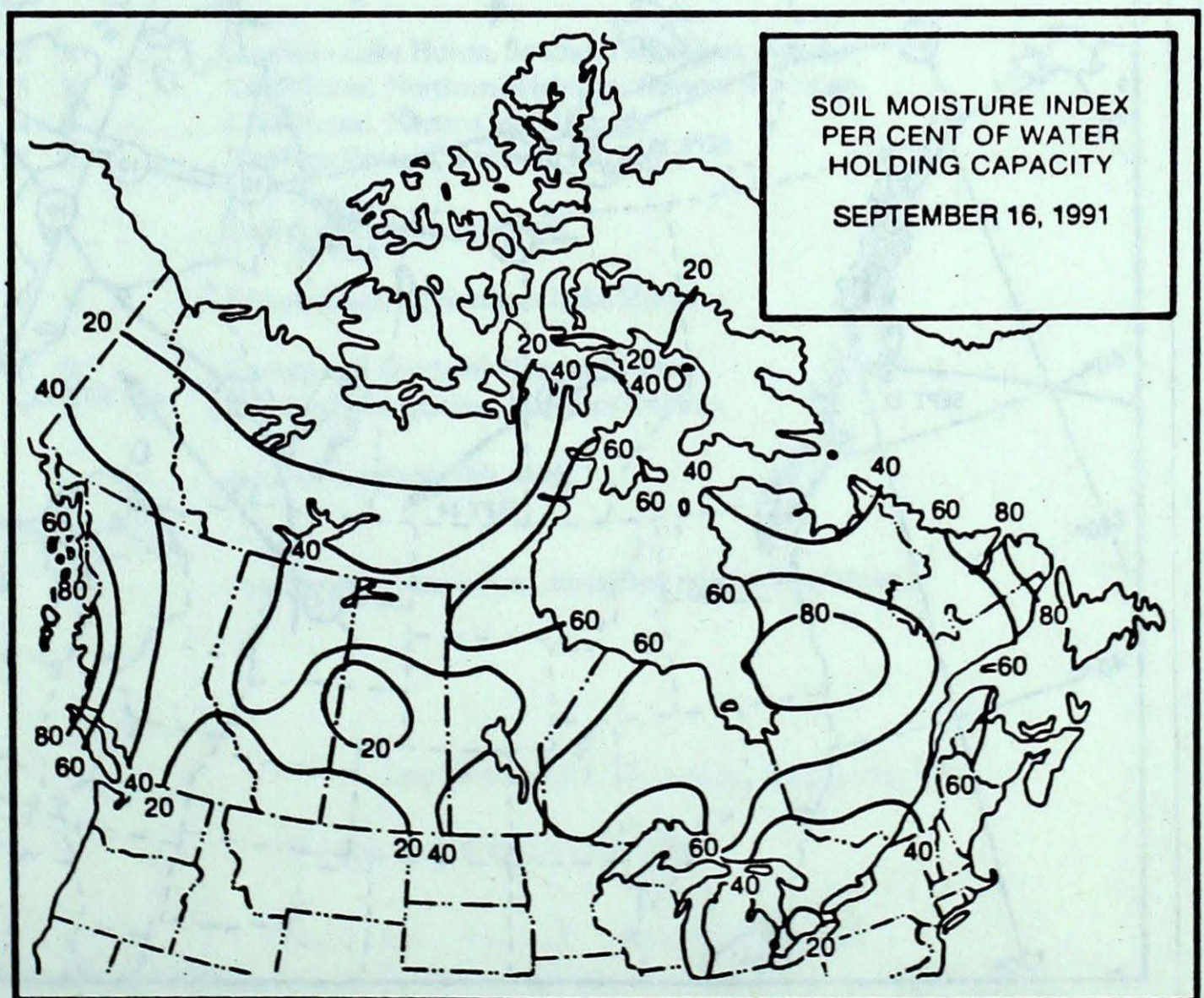
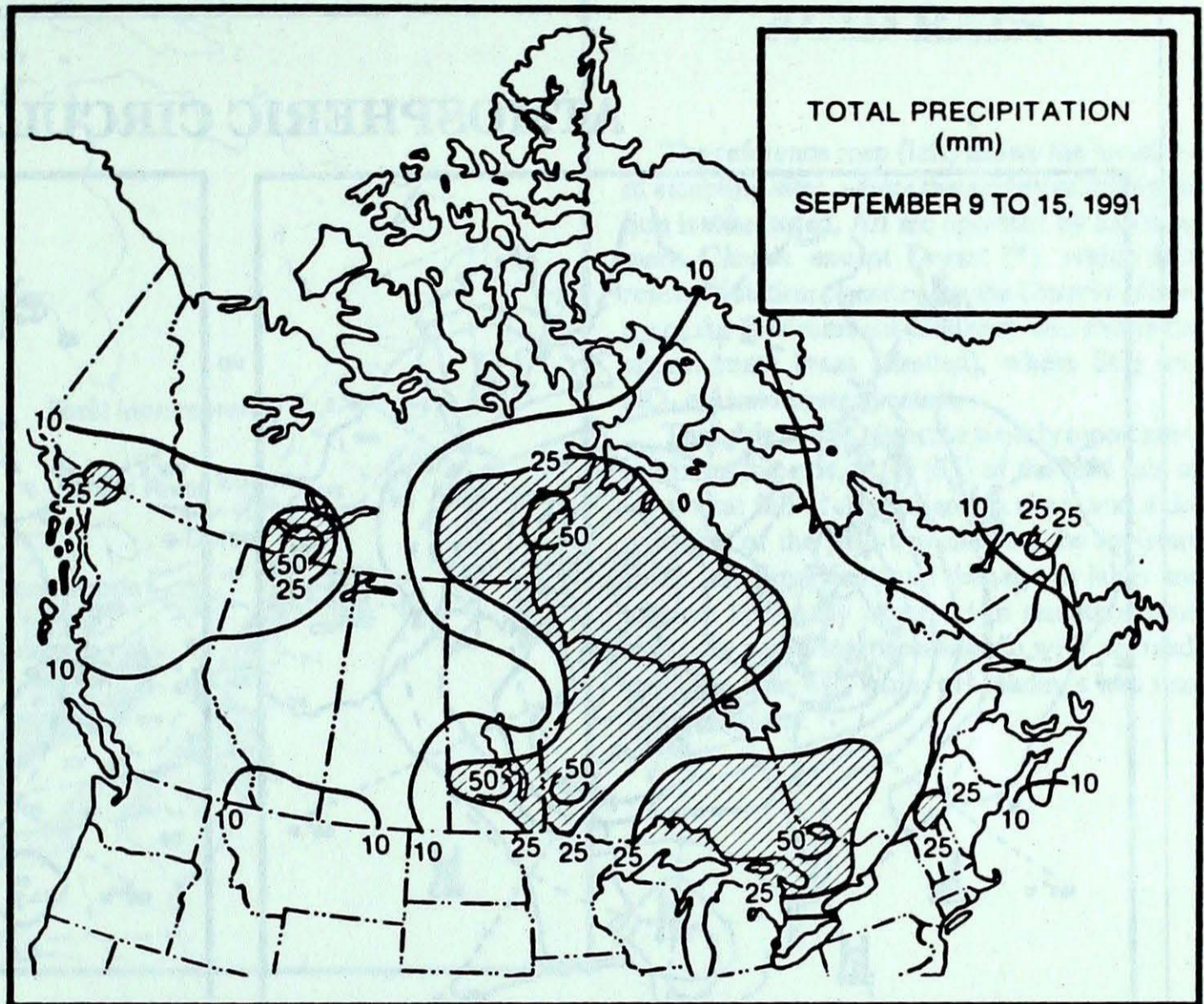
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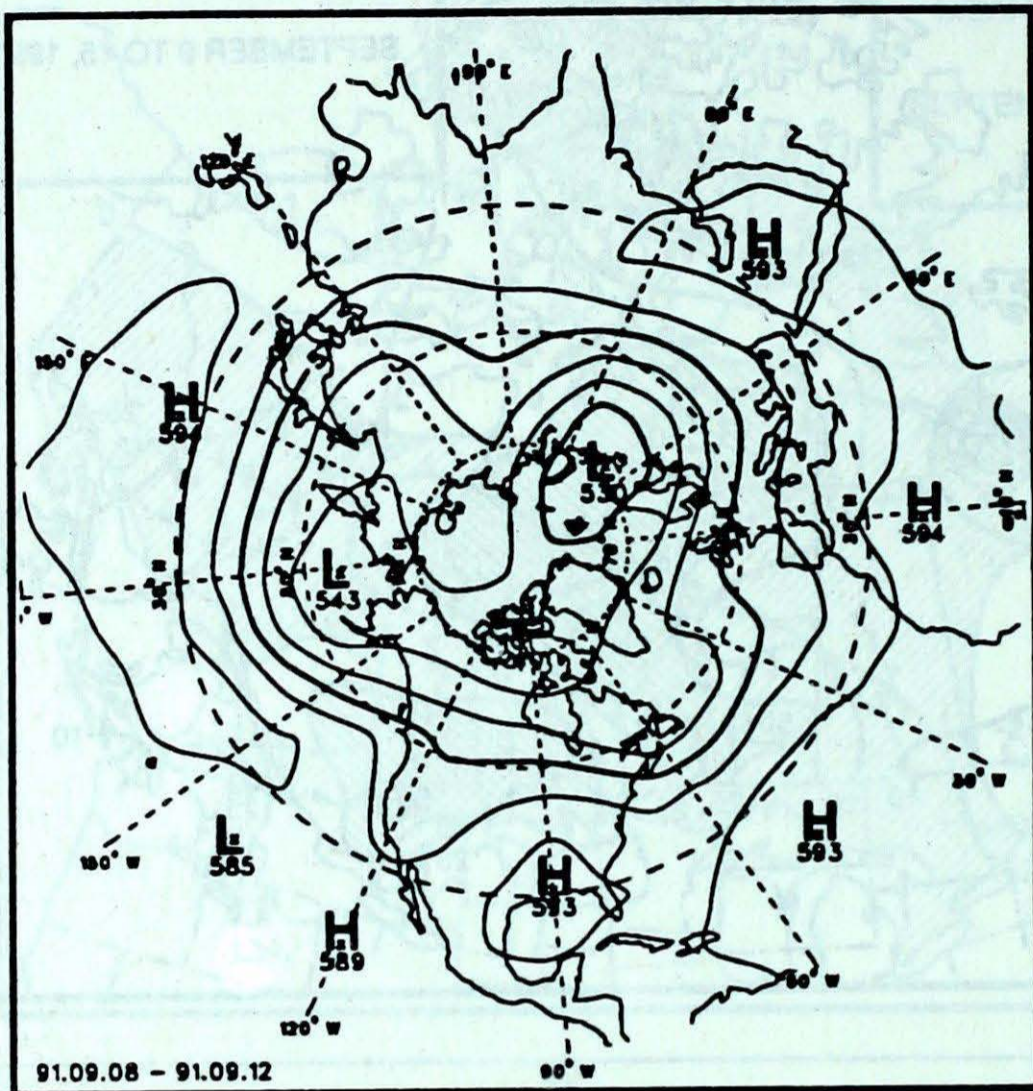
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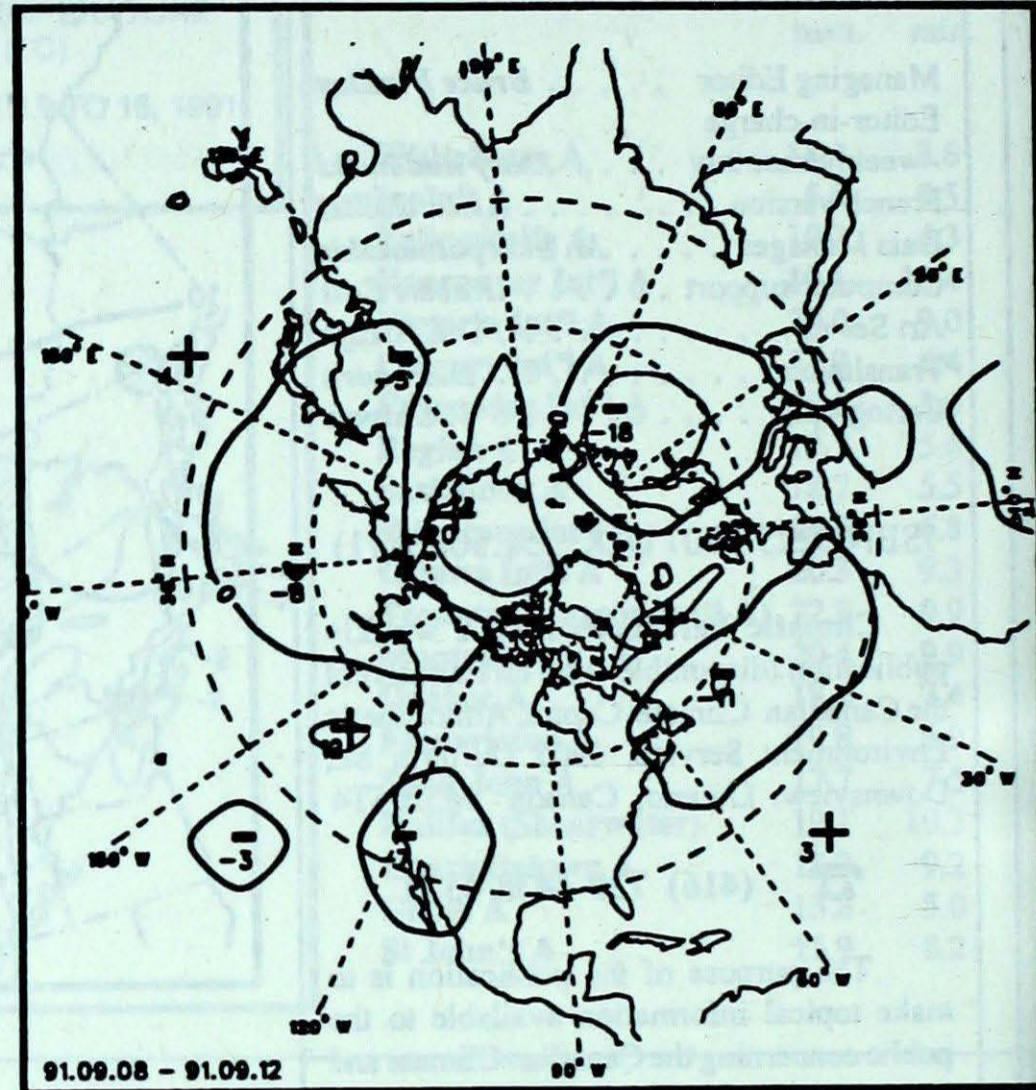
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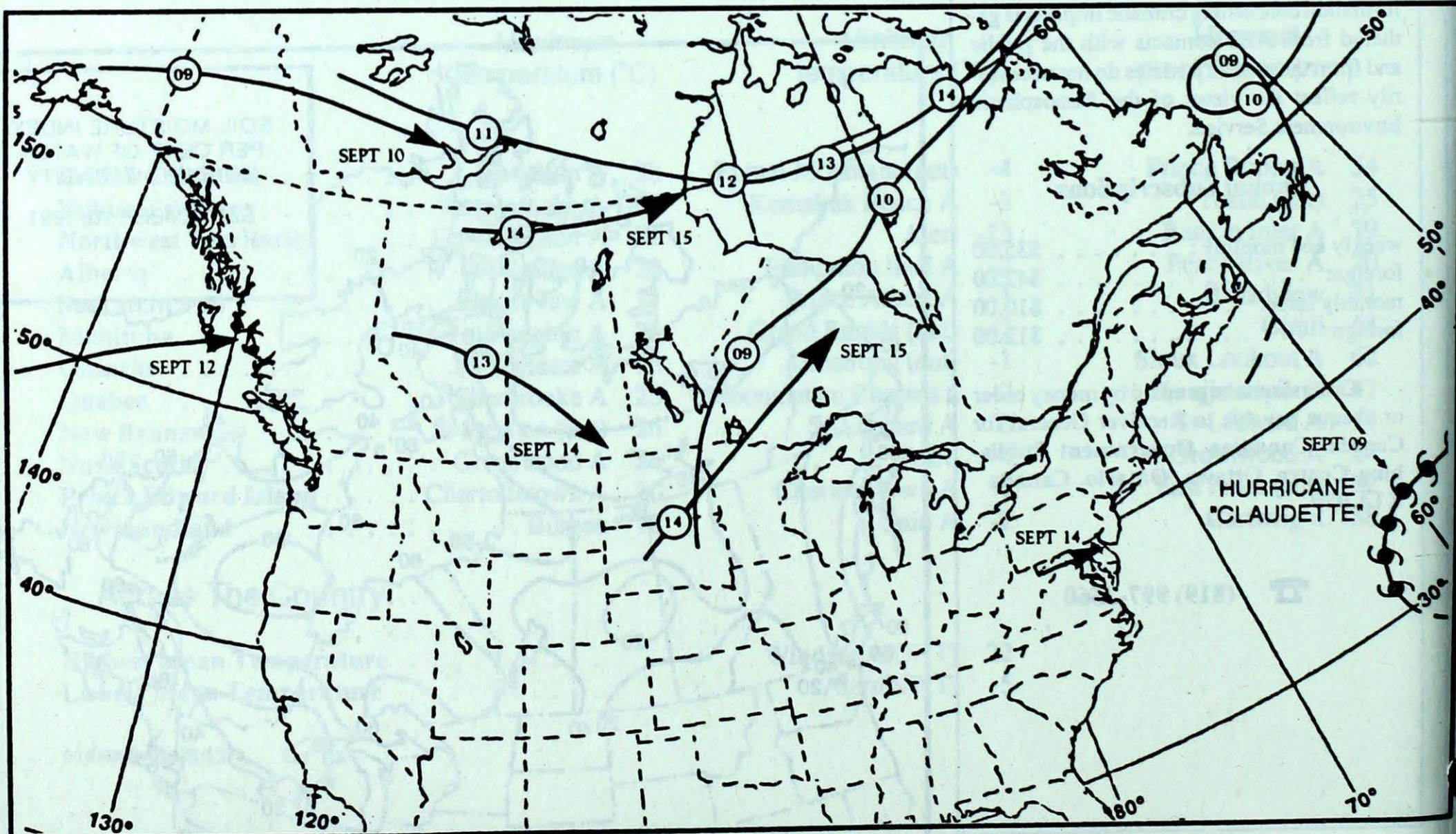
ATMOSPHERIC CIRCULATION



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



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

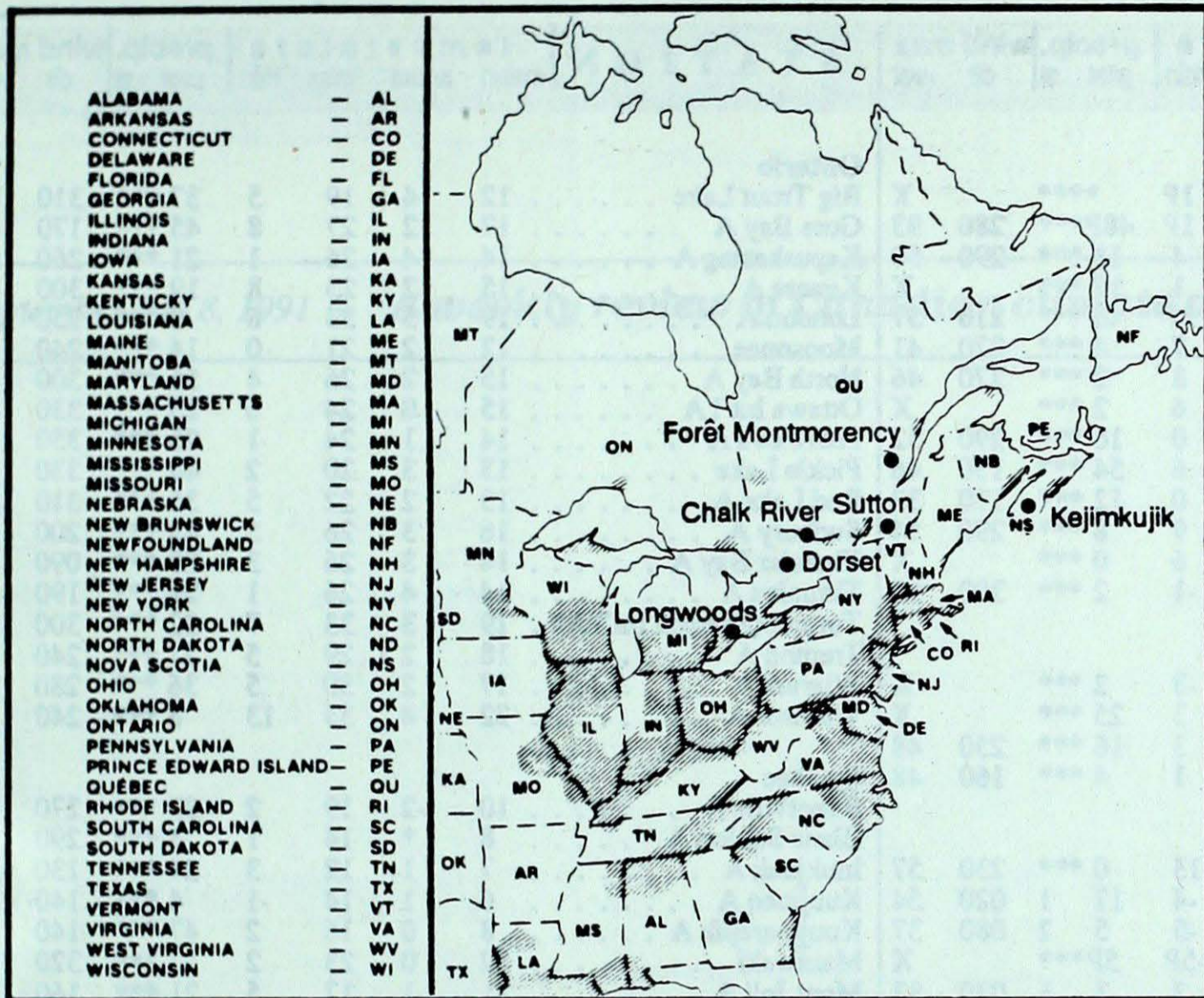


Tracks of low pressure centres at 12:00 U.T. each day during the period.

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.



- ALABAMA -- AL
- ARKANSAS -- AR
- CONNECTICUT -- CO
- DELAWARE -- DE
- FLORIDA -- FL
- GEORGIA -- GA
- ILLINOIS -- IL
- INDIANA -- IN
- IOWA -- IA
- KANSAS -- KA
- KENTUCKY -- KY
- LOUISIANA -- LA
- MAINE -- ME
- MANITOBA -- MT
- MARYLAND -- MD
- MASSACHUSETTS -- MA
- MICHIGAN -- MI
- MINNESOTA -- MN
- MISSISSIPPI -- MS
- MISSOURI -- MO
- NEBRASKA -- NE
- NEW BRUNSWICK -- NB
- NEWFOUNDLAND -- NF
- NEW HAMPSHIRE -- NH
- NEW JERSEY -- NJ
- NEW YORK -- NY
- NORTH CAROLINA -- NC
- NORTH DAKOTA -- ND
- NOVA SCOTIA -- NS
- OHIO -- OH
- OKLAHOMA -- OK
- ONTARIO -- ON
- PENNSYLVANIA -- PA
- PRINCE EDWARD ISLAND -- PE
- QUÉBEC -- QU
- RHODE ISLAND -- RI
- SOUTH CAROLINA -- SC
- SOUTH DAKOTA -- SD
- TENNESSEE -- TN
- TEXAS -- TX
- VERMONT -- VT
- VIRGINIA -- VA
- WEST VIRGINIA -- WV
- WISCONSIN -- WI

Site day pH amount air path to site

September 8 to 14, 1991

Longwoods

Dorset* 09 4.2 3 R Southern Lake Huron, Southern Michigan, Indiana
 10 4.5 5 R Lake Huron, Northern Michigan, Eastern Wisconsin
 13 3.9 4 R Lake Huron, Northern Michigan
 14 4.3 28 R Southern Ontario, Southern Michigan

Chalk River Data not available this week

Sutton 10 4.6 20 R Eastern Ontario, Northern Lake Huron

Montmorency 09 4.1 10 R Eastern and Southern Western Quebec
 10 4.5 11 R Northwestern Quebec, Northern Ontario

Kejimikujik Data not available this week

r=rain(mm), s=snow(cm), m=mixed rain and snow(mm)

Environment Canada Environnement

CLIMATIC PERSPECTIVES

Vol: 13 No: 38 Date: 910916

OTM

ARCHIVES

1005959D
REF 1

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							
Blue River A	12P	1P	23P	1P	****		X	Big Trout Lake	12	4	19	5	37 ***	310	70
Cape St James	13P	-1P	18P	1P	48P***	280	93	Gore Bay A	17	2	27	8	45 ***	170	44
Cranbrook A	13	1	26	4	13 ***	290	50	Kapuskasing A	14	4	26	1	21 ***	260	56
Fort Nelson A	11	1	22	1	17 ***		X	Kenora A	15	2	23	8	19 ***	300	41
Fort St John A	13P	2P	20P	3P	0P***	210	37	London A	19	3	33	6	0 ***	250	48
Kamloops A	17	1	27	7	4 ***	270	41	Moosonee	12	2	21	0	14 ***	240	48
Penticton A	17	1	28	8	2 ***	270	46	North Bay A	15	2	26	4	56 ***	300	44
Port Hardy A	12	0	17	6	2 ***		X	Ottawa Int'l A	15	0	24	6	23 ***	330	46
Prince George A	11	1	21	0	16 ***	290	52	Petawawa A	14	1	24	1	25 ***	350	41
Prince Rupert A	12	0	17	6	54 ***	150	46	Pickle Lake	13	3	20	2	44 ***	330	46
Smithers A	11	0	20	0	12 ***	170	32	Red Lake A	13	2	22	5	35 ***	310	39
Vancouver Int'l A	15	0	21	9	8 ***	290	54	Sudbury A	16	3	26	5	43 ***	200	41
Victoria Int'l A	14	-1	22	6	0 ***		X	Thunder Bay A	14	3	26	3	25 ***	090	43
Williams Lake A	12	1	22	-1	2 ***	300	35	Timmins A	14	4	26	1	29 ***	190	46
Yukon Territory								Toronto (Pearson Int'l A)							
Komakuk Beach A	1	-2	6	-3	2 ***		X	Trenton A	18	2	29	5	27 ***	240	50
Teslin (aut)	8	*	15	3	25 ***		X	Warton A	17	2	30	5	36 ***	280	37
Watson Lake A	9	0	17	3	16 ***	250	48	Windsor A	22	4	33	13	6 ***	240	46
Whitehorse A	10	1	17	1	4 ***	160	48	Québec							
Northwest Territories								Bagotville A							
Alert	-5	4	-1	-13	0 ***	230	57	Blanc Sablon A	8	*	14	1	3 ***	290	61
Baker Lake A	2	-2	6	-4	17 1	020	54	Inukjuak A	7	1	12	3	24 ***	130	63
Cambridge Bay A	-2	-2	2	-5	5 2	080	37	Kuujuuaq A	6	1	14	-1	4 ***	140	46
Cape Dyer A	1P	1P	6P	-5P	5P***		X	Kuujuuarapik A	8	0	16	2	47 ***	140	82
Clyde A	2	2	7	-3	3 1	030	33	Maniwaki	12	0	23	2	17 ***	320	32
Coppermine A	3	-1	8	-1	9 1	020	46	Mont Joli A	11	-1	17	5	21 ***	160	39
Coral Harbour A	1	-1	5	-2	24 1	080	63	Montréal Int'l A	14	-1	24	5	17 ***	250	43
Eureka	-2	5	0	-5	4 1		X	Natashquan A	10	0	15	5	1 ***	310	44
Fort Smith A	11P	3P	19P	3P	15P***	320	39	Québec A	12	-1	21	2	22 ***	350	44
Hall Beach A	1	0	3	-2	9 ***	310	46	Schefferville A	6	0	14	-1	13 ***	330	56
Inuvik A	4	0	11	-1	8 ***	050	35	Sept-Îles A	11	1	18	3	14 ***	330	52
Iqaluit A	3	0	12	-1	13 ***	330	48	Sherbrooke A	11	-1	25	-1	31 ***	320	37
Mould Bay A	-5	0	-1	-9	1 1		X	Val-d'Or A	11	0	20	0	25 ***	320	61
Norman Wells A	8	1	19	2	9 ***	110	44	New Brunswick							
Resolute A	-3	1	0	-5	9 6	310	41	Chatham A	11P	-2P	19P	4P	8P***		X
Yellowknife A	7	0	13	3	6 ***	020	43	Fredericton A	12	-2	26	3	12 ***	330	48
Alberta								Miscou Island (aut)							
Calgary Int'l A	11	0	25	0	6 ***	330	56	Moncton A	12	-1	23	4	8 ***	210	37
Cold Lake A	12	2	23	2	3 ***	320	39	Saint John A	12	-1	20	4	1 ***	210	48
Edmonton Namao A	11	0	22	1	2 ***	280	46	Nova Scotia							
Fort McMurray A	12	2	20	2	4 ***	250	33	Greenwood A	14	0	26	5	24 ***	230	46
High Level A	9	-1	19	-1	8 ***	340	33	Shearwater A	13	-1	20	8	12 ***	290	39
Jasper	12	1	22	-1	2 ***		X	Sydney A	12	-2	18	5	19 ***	290	56
Lethbridge A	13	0	28	2	20 ***	320	59	Yarmouth A	13	-1	19	6	5 ***	230	48
Medicine Hat A	14	0	27	2	5 ***	330	43	Prince Edward Island							
Peace River A	11	1	19	2	20 ***	270	39	Charlottetown A	12	-2	20	7	17 ***	340	41
Saskatchewan								East Point (auto)							
Cree Lake	10	3	19	4	10 ***	220	41	12	*	18	8	22 ***			
Estevan A	14	1	26	6	11 ***	140	61	Newfoundland							
La Ronge A	11	1	23	0	3 ***	320	41	Cartwright	6	-3	9	2	38 ***	290	85
Regina A	13	0	28	3	1 ***	330	54	Churchill Falls A	8	1	16	3	6 ***	310	67
Saskatoon A	14	2	29	3	2 ***	300	37	Gander Int'l A	8	-4	13	4	10 ***	310	67
Swift Current A	13	1	28	1	7 ***	200	46	Goose A	9	-1	15	5	7 ***	290	59
Yorkton A	13	1	27	1	15 ***	290	63	Port Aux Basques	10	-2	16	5	24 ***	280	69
Manitoba								St John's A							
Brandon A	14	2	26	6	21 ***	310	43	8	-4	16	3	13 ***	290	80	
Churchill A	7	1	17	3	30 ***	310	70	St Lawrence	10	-1	17	5	25 ***		X
Lynn Lake A	11	4	22	0	18 ***	340	46	Wabush Lake A	6	0	16	-1	11 ***	360	46
The Pas A	13	3	24	1	7 ***	330	56	91/09/09-91/09/15							
Thompson A	13	5	23	3	8 ***	330	44								
Winnipeg Int'l A	15	2	26	6	7 ***	320	65								

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.