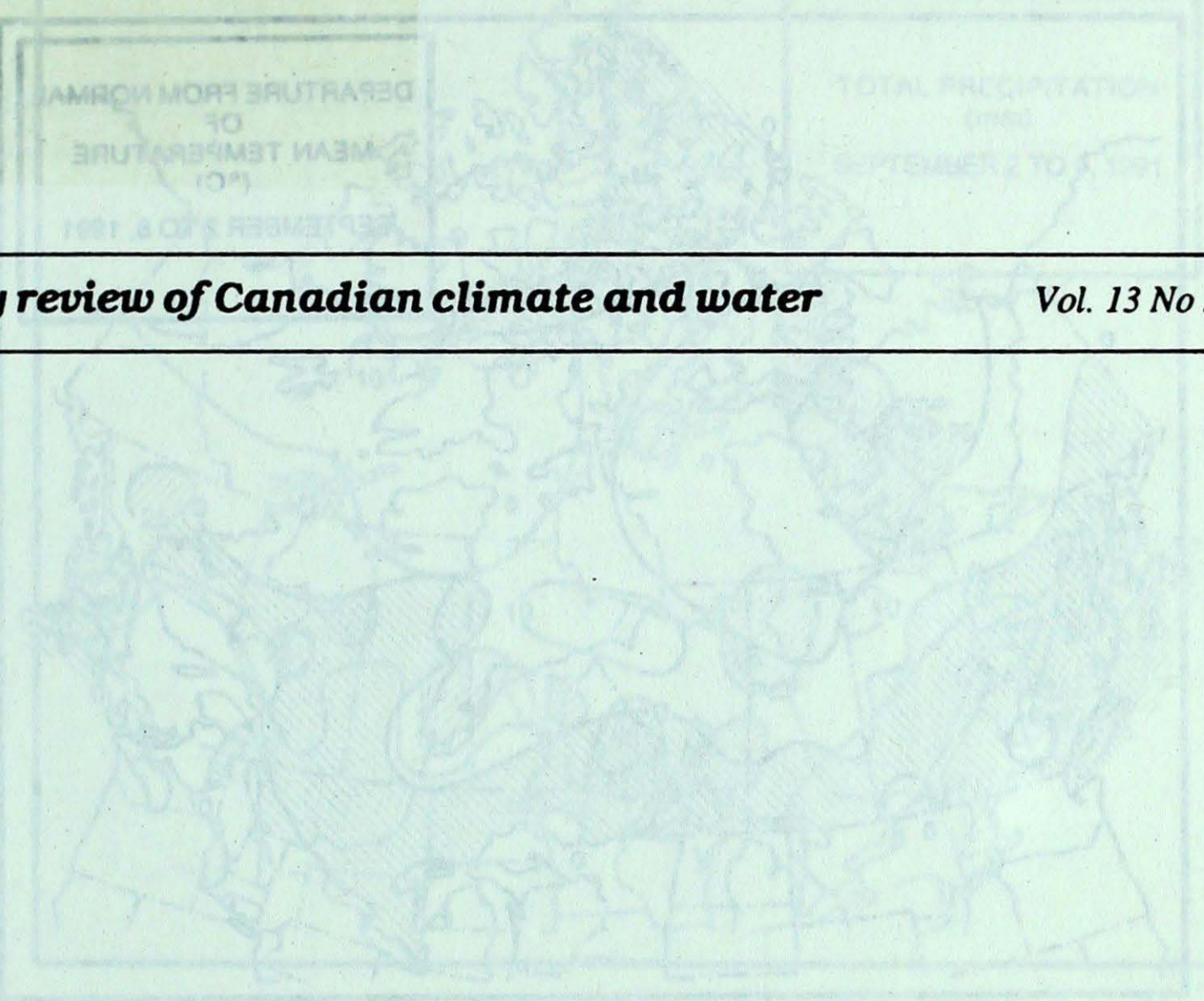


CLIMATIC PERSPECTIVES
VOLUME 13
Weekly Normal
Temperatures (°C)

DEPARTURE FROM NORMAL
OF
MEAN TEMPERATURE
(°C)
SEPTEMBER 2 TO 8, 1991



September 2 to 8, 1991

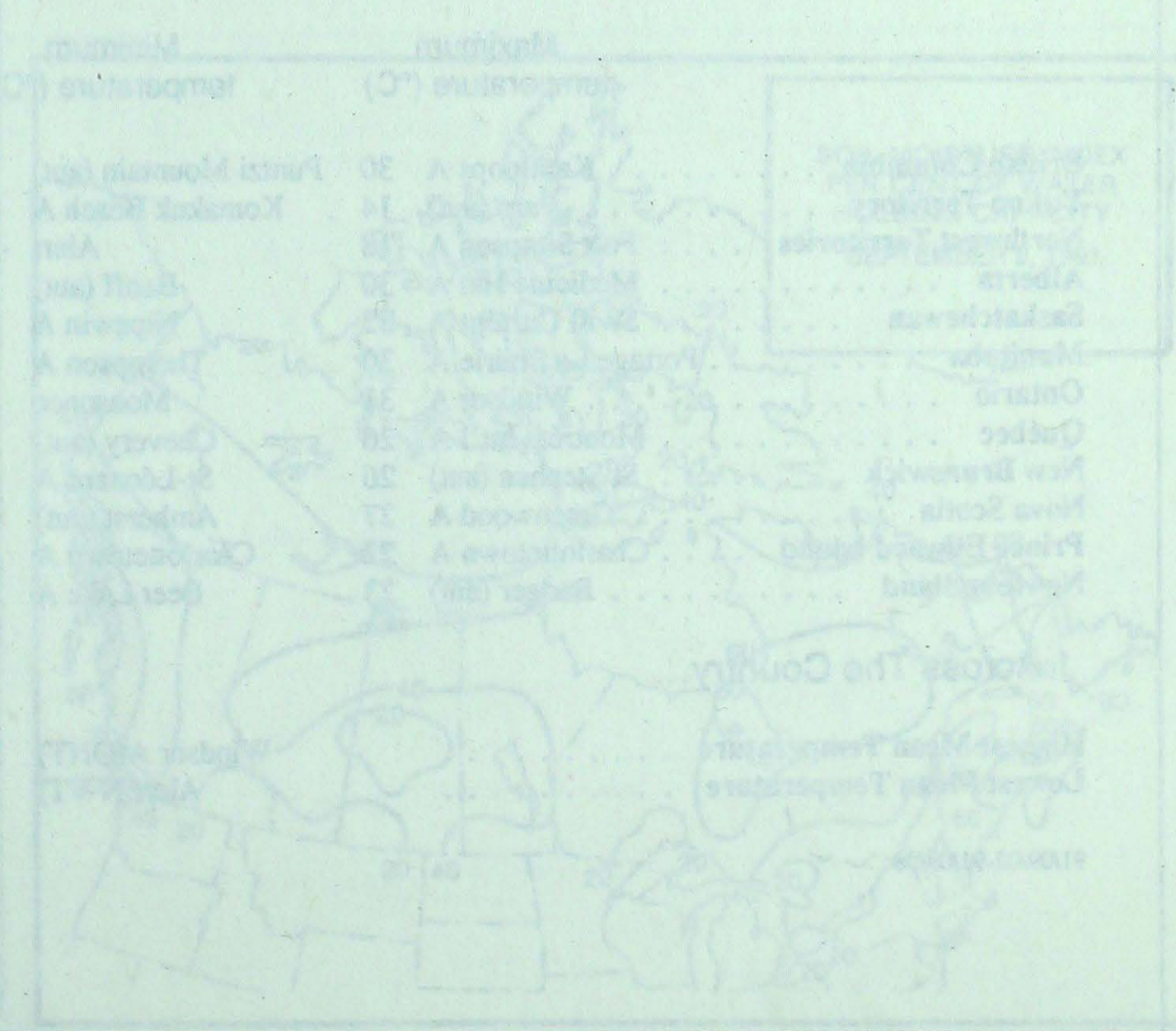
A weekly review of Canadian climate and water

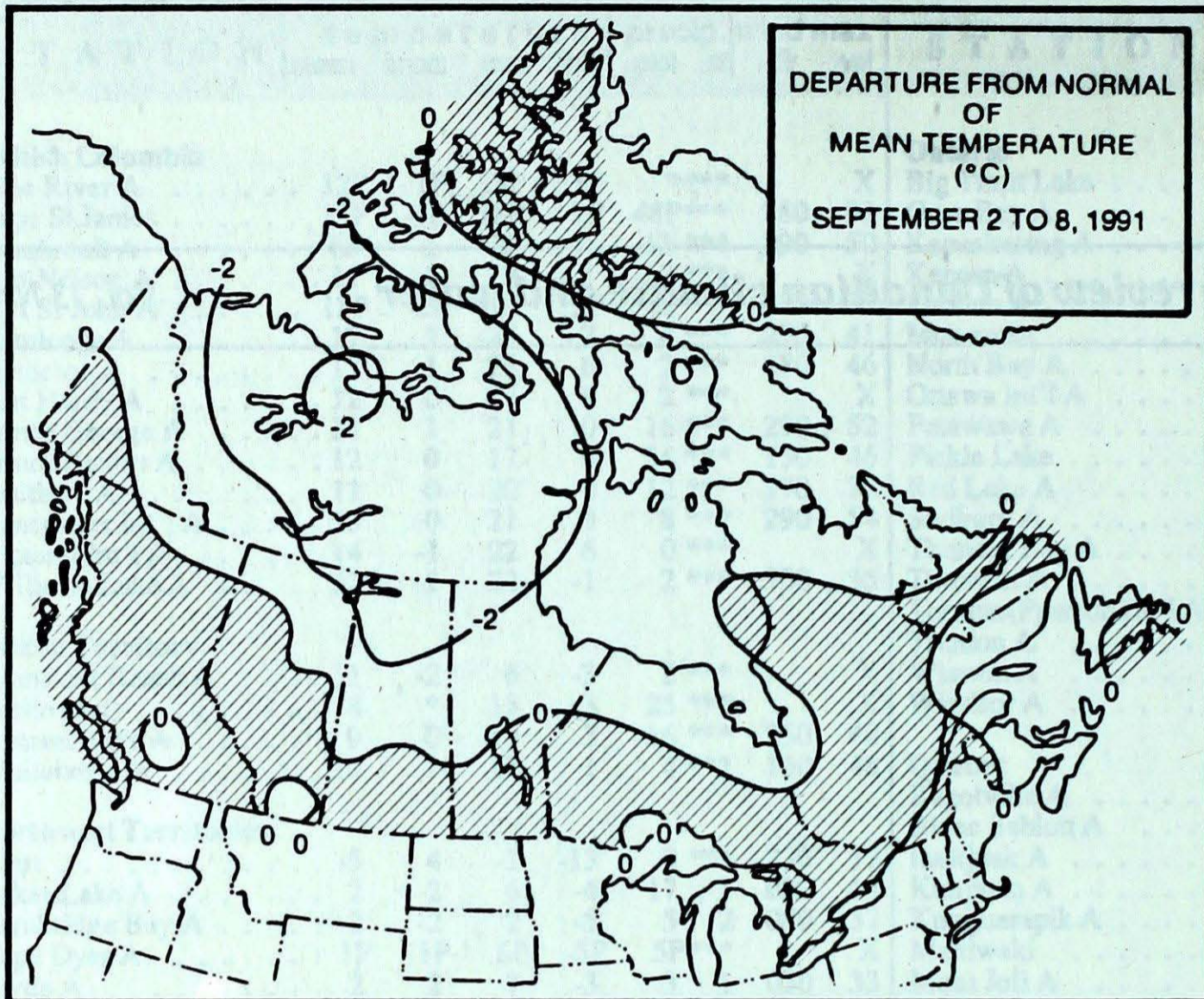
Vol. 13 No 36

Table with 2 columns: Station Name and Temperature (°C). Lists various Canadian weather stations and their recorded temperatures for the week.

Weekly temperature and precipitation extremes

Table with 2 columns: Station Name and Temperature (°C). Lists weather stations and their weekly temperature extremes.





Weekly normal temperatures (°C)

	max.	min.
Whitehorse A	13.7	3.5
Iqaluit A	7.7	1.6
Yellowknife A	12.5	5.4
Vancouver Int'l A	19.7	11.0
Victoria Int'l A	20.3	9.5
Calgary Int'l A	19.3	5.1
Edmonton Int'l A	17.8	4.9
Regina A	21.4	7.0
Saskatoon A	20.1	7.0
Winnipeg Int'l A	21.1	9.1
Ottawa Int'l A	22.5	11.6
Toronto (Pearson) A	24.2	11.8
Montréal Int'l A	22.4	12.0
Québec A	20.3	9.6
Fredericton A	21.5	9.3
Saint John A	19.5	9.8
Halifax (Shearwater)	20.5	12.0
Charlottetown A	19.5	11.2
Goose A	16.3	6.6
St John's A	16.9	8.7

Weekly temperature and precipitation extremes

	Maximum temperature (°C)	Minimum temperature (°C)	Heaviest precipitation (mm)
British Columbia	Kamloops A 30	Puntzi Mountain (aut) -3	Prince Rupert A 51
Yukon Territory	Faro (aut) 14	Komakuk Beach A -4	Whitehorse A 28
Northwest Territories	Fort Simpson A 18	Alert -13	Iqaluit A 35
Alberta	Medicine Hat A 30	Banff (aut) -1	Edson A 33
Saskatchewan	Swift Current A 32	Nipawin A -2	Wynyard 33
Manitoba	Portage La Prairie A 30	Thompson A -5	The Pas A 35
Ontario	Windsor A 31	Moosonee -2	Sioux Lookout A 58
Québec	Montréal Int'l A 26	Chevery (aut) -1	Schefferville A 34
New Brunswick	St Stephen (aut) 26	St-Léonard A 1	Saint John A 14
Nova Scotia	Greenwood A 27	Amherst (aut) 4	Sable Island 87
Prince Edward Island	Charlottetown A 22	Charlottetown A 7	East Point (aut) 37
Newfoundland	Badger (aut) 23	Deer Lake A 0	Stephenville A 63

Across The Country...

Highest Mean Temperature	Windsor A(ONT) 21
Lowest Mean Temperature	Alert(NWT) -7

CLIMATIC PERSPECTIVES
VOLUME 13

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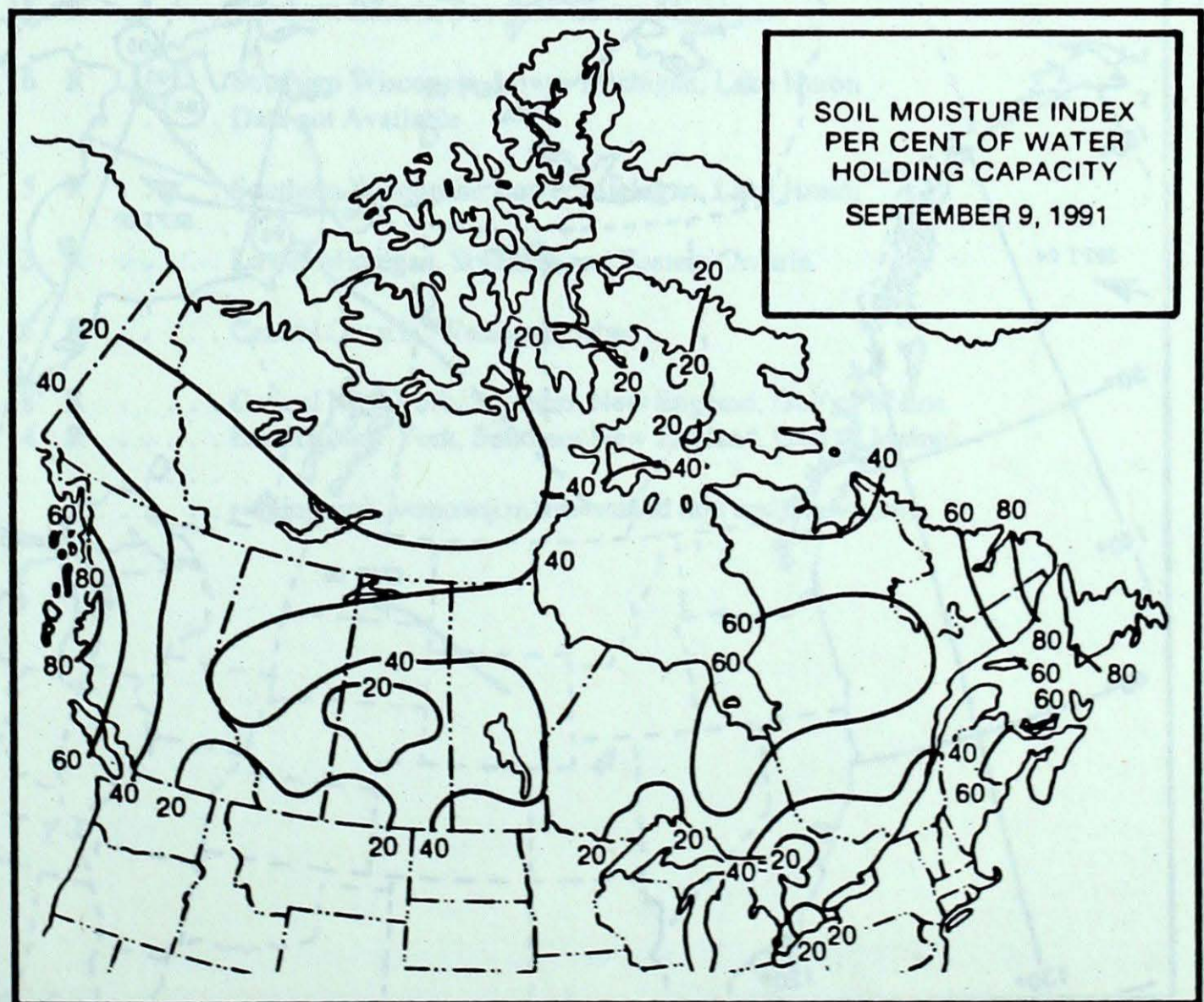
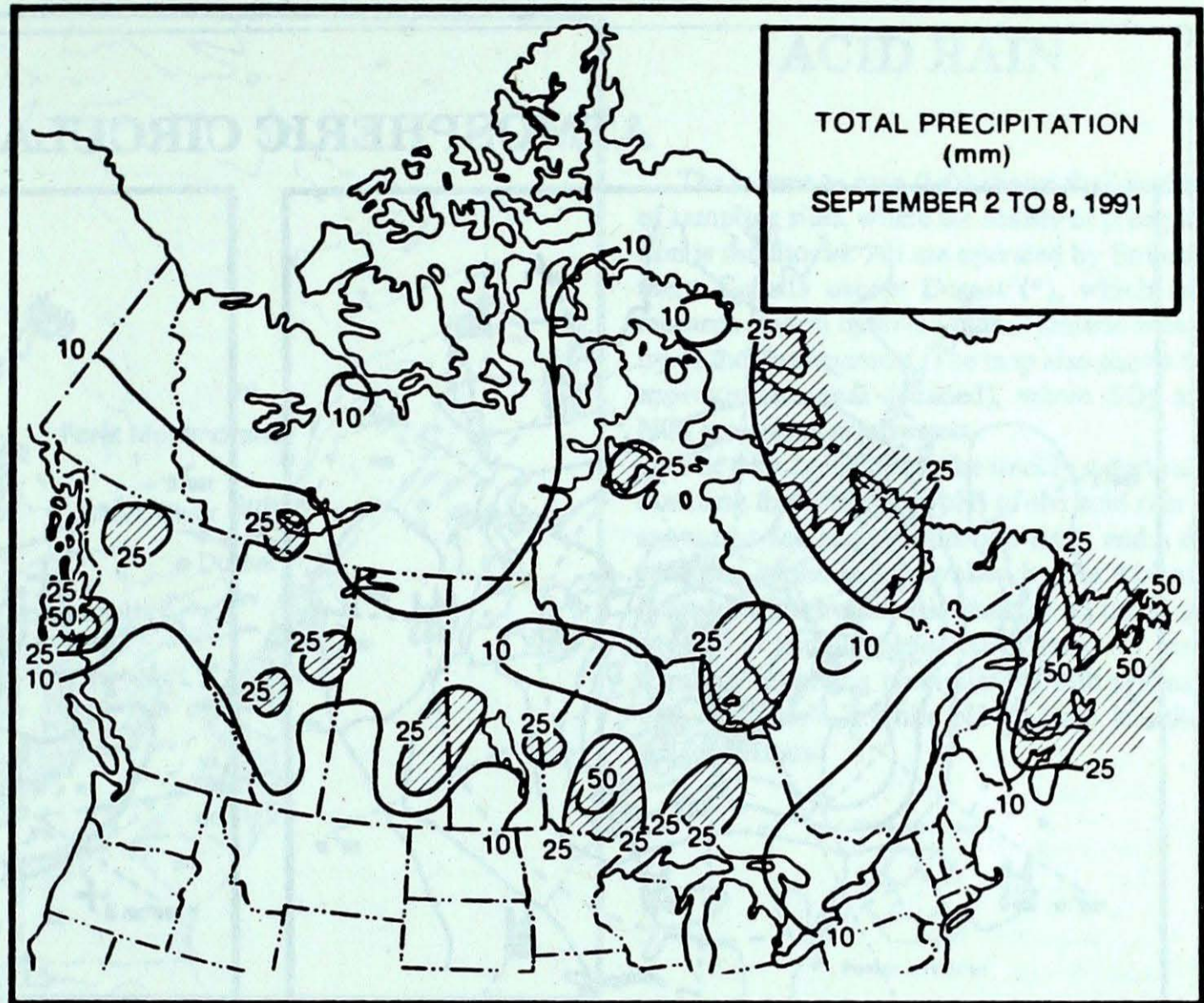
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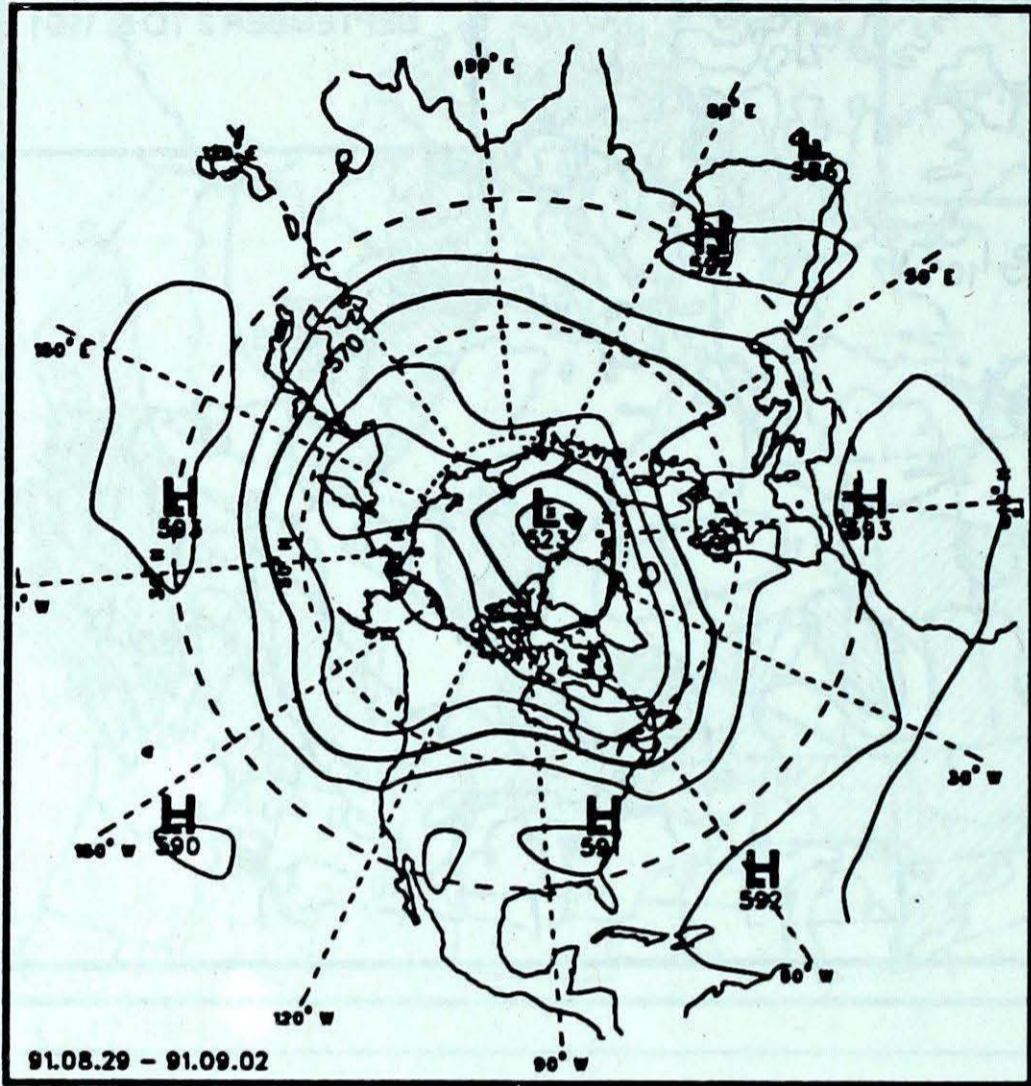
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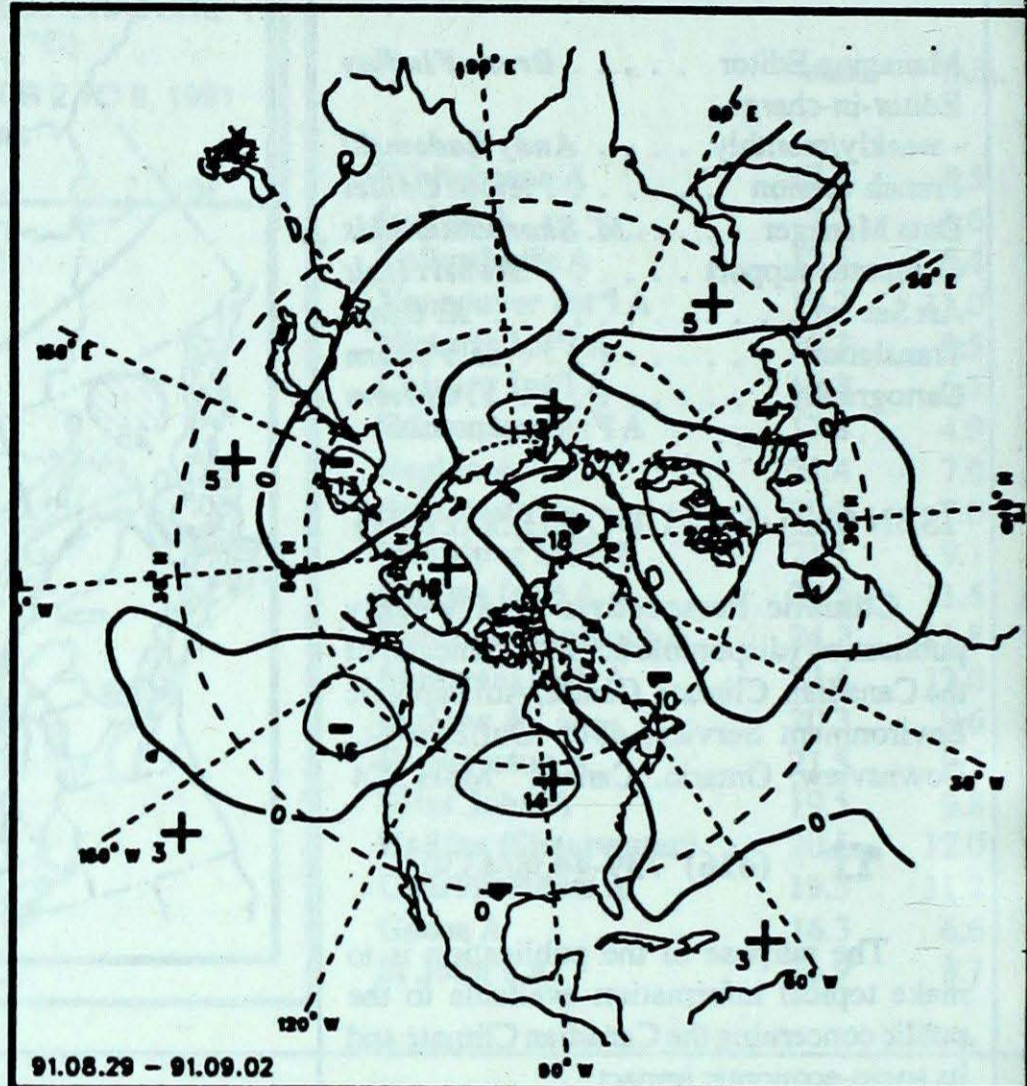
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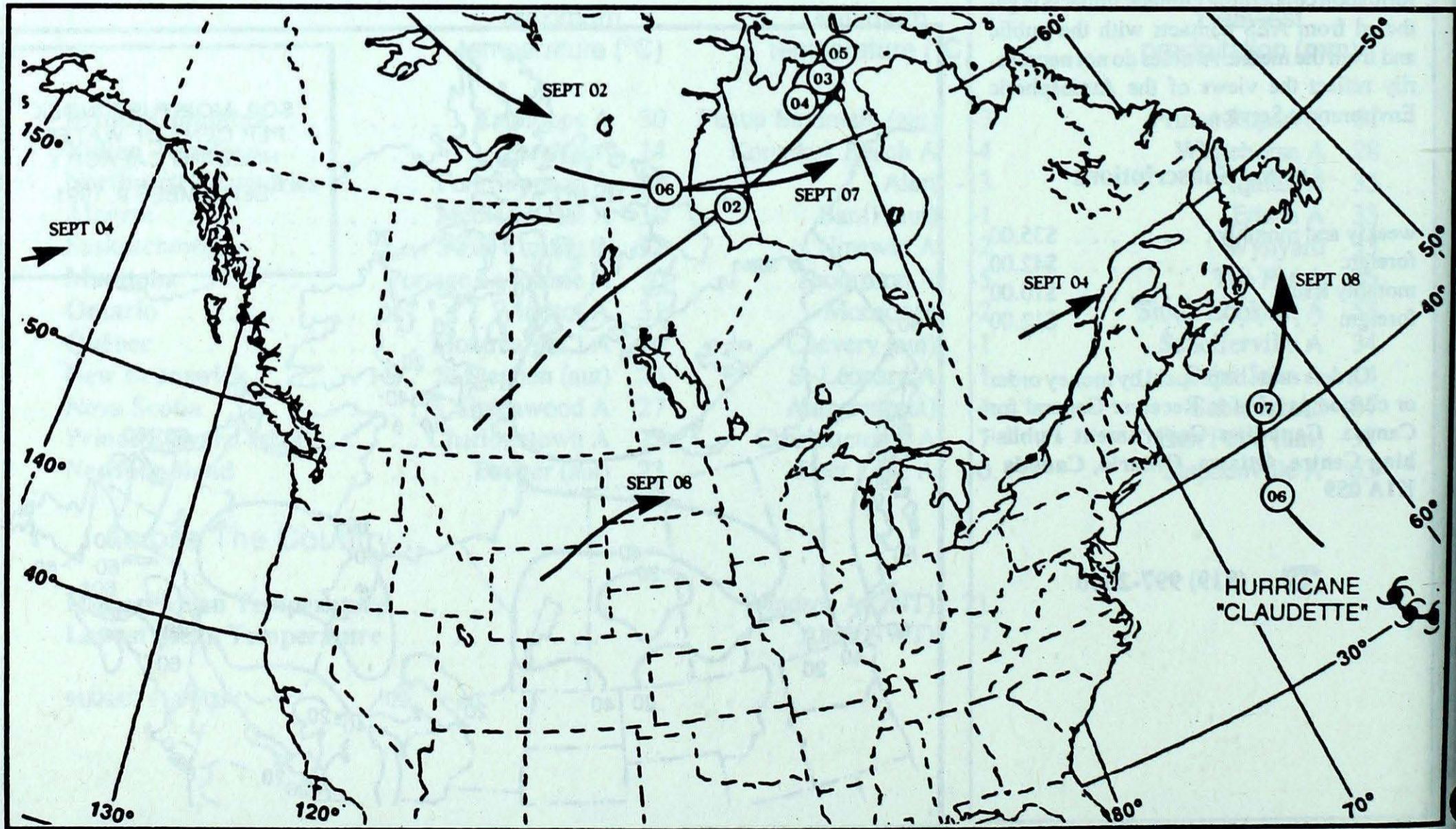
ATMOSPHERIC CIRCULATION



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

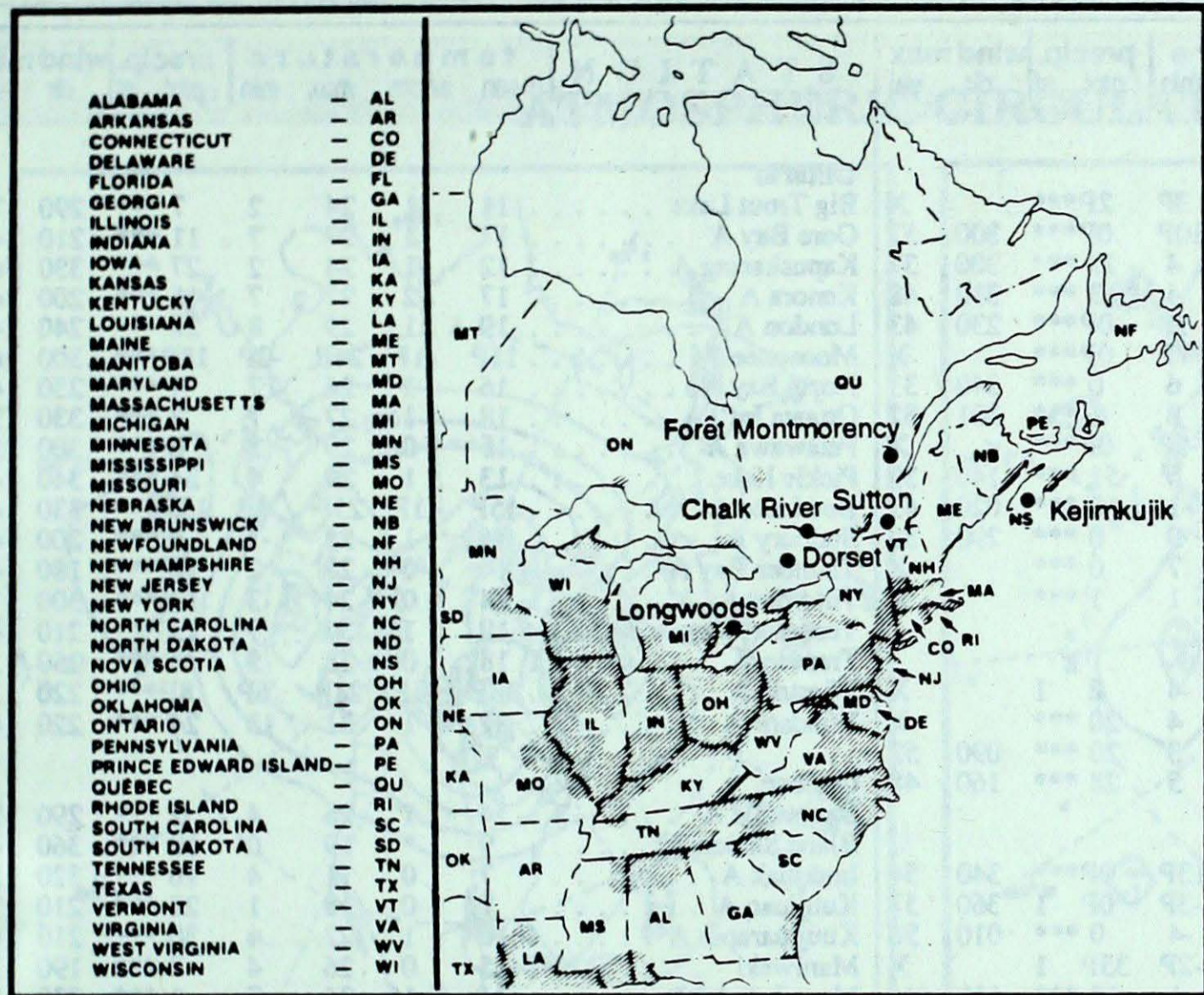


Mean geopotential height anomaly
50-kPa level (10-decametre intervals)



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
------	-----	----	--------	------------------

September 1 to 7, 1991

Longwoods	03	3.9	18 R	Northern Illinois, Southern Lower Michigan
Dorset*	03	4.4	16 R	Southern Wisconsin, Lower Michigan, Lake Huron
	06			Data not Available
Chalk River	03	4.3	5 R	Southern Wisconsin, Lower Michigan, Lake Huron
Sutton	04	4.3	3 R	Lower Michigan, Southern and Eastern Ontario
Montmorency	03	4.3	5 R	Central Ontario, Western Quebec
Kejimikujik	04	3.9	8 R	Central New York, Southern New England, Gulf of Maine
	05	3.8	4 R	Eastern New York, Southern New England, Gulf of Maine

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

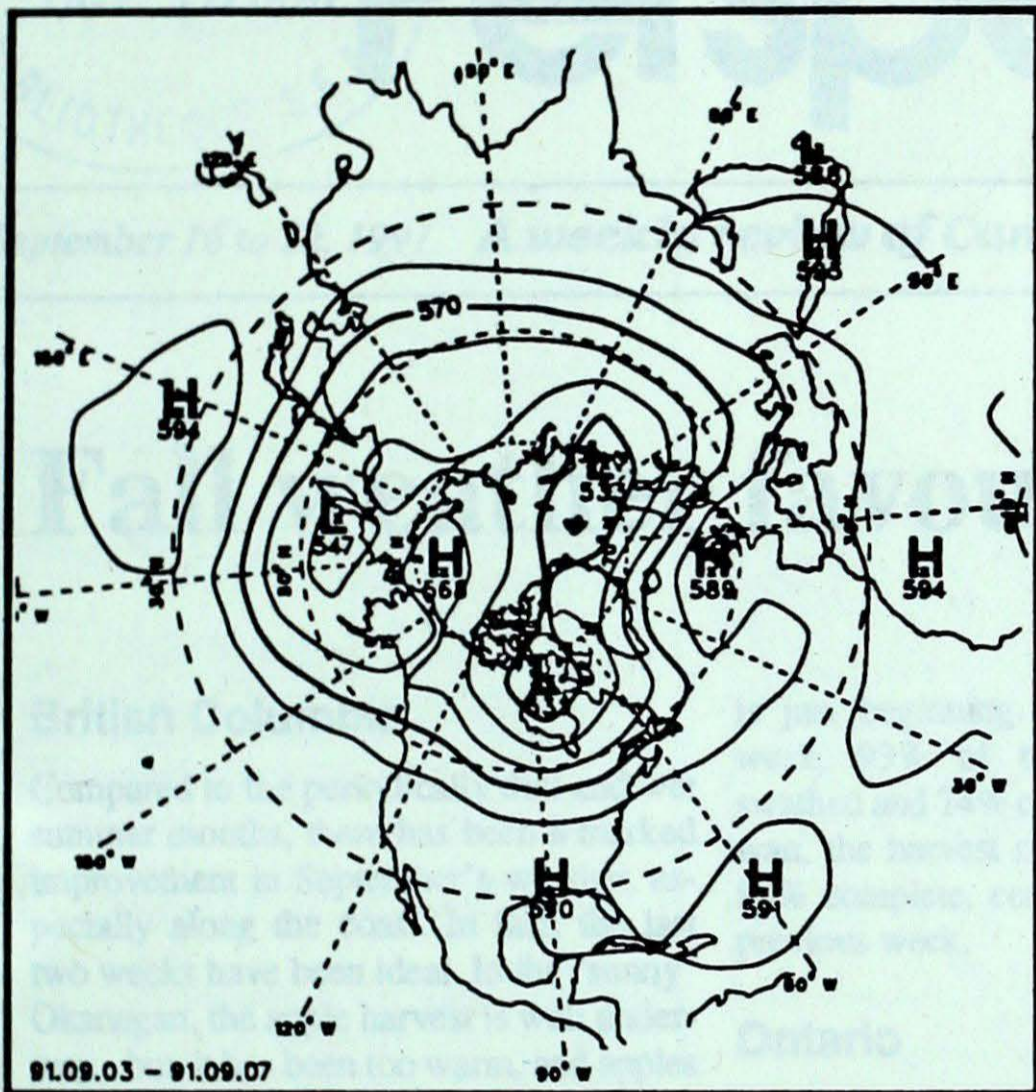
STATION	temperature				precip.		wind max		STATION	temperature				precip.		wind max	
	mean	anom	max	min	ptot	st	dir	vel		mean	anom	max	min	ptot	st	dir	vel
British Columbia									Ontario								
Blue River A	14P	2P	27P	3P	2P***		X	Big Trout Lake	11	-1	24	2	7 ***	290	70		
Cape St James	15P	2P	20P	10P	0P***	300	57	Gore Bay A	17	1	27	7	11 ***	210	46		
Cranbrook A	16	1	29	4	13 ***	300	37	Kapuskasing A	12	-1	24	2	27 ***	330	65		
Fort Nelson A	9	-1	18	4	13 ***	310	48	Kenora A	17	2	27	7	15 ***	200	46		
Fort St John A	11P	1P	17P	9P	0P***	230	43	London A	19	1	29	8	22 ***	240	48		
Kamloops A	18P	1P	30P	7P	0P***		X	Moosonee	11P	-1P	24P	-2P	18P***	300	67		
Penticton A	17	1	27	6	0 ***	340	33	North Bay A	16	1	26	7	4 ***	230	44		
Port Hardy A	13	1	19	8	1 ***	301	52	Ottawa Int'l A	18	1	27	7	7 ***	330	39		
Prince George A	12P	1P	24P	-1P	0P***		X	Petawawa A	15	0	29	3	6 ***	300	56		
Prince Rupert A	13	1	21	5	51 ***	140	39	Pickle Lake	13	1	29	4	34 ***	340	48		
Smithers A	12	1	24	-1	0 ***	020	43	Red Lake A	15P	1P	25P	4P	15P***	330	44		
Vancouver Int'l A	16	0	22	9	0 ***	290	39	Sudbury A	16	1	25	7	6 ***	200	41		
Victoria Int'l A	16	1	25	7	0 ***		X	Thunder Bay A	14	0	25	2	18 ***	180	41		
Williams Lake A	12	1	24	1	1 ***		X	Timmins A	14	0	24	3	12 ***	300	76		
Yukon Territory									Toronto (Pearson Int'l A)								
Komakuk Beach A	2	-1	11	-4	2 1		X	Trenton A	18	0	28	5	4 ***	250	33		
Teslin (aut)	9	*	14	4	20 ***		X	Warton A	18P	1P	28P	6P	8P***	220	33		
Watson Lake A	8	-1	14	3	20 ***	090	52	Windsor A	21	1	31	13	24 ***	220	44		
Whitehorse A	10	1	13	5	28 ***	160	48	Québec									
Northwest Territories									Bagotville A	14	1	26	4	2 ***	290	56	
Alert	-7P	-1P	1P	-13P	0P***	340	54	Blanc Sablon A	9	*	19	0	10 ***	360	44		
Baker Lake A	3P	-3P	8P	-3P	0P 1	360	57	Inukjuak A	7	0	11	4	16 ***	320	57		
Cambridge Bay A	0	-3	4	-4	0 ***	010	56	Kuujuuaq A	8	0	18	1	28 ***	210	72		
Cape Dyer A	1P	-1P	5P	-2P	35P 1		X	Kuujuuarapik A	10	1	22	4	30 ***	210	67		
Clyde A	3	1	7	-1	18 ***	110	44	Maniwaki	15	0	26	4	7 ***	190	33		
Coppermine A	3	-1	9	-1	10 ***	030	78	Mont Joli A	14	1	24	7	1 ***	230	56		
Coral Harbour A	2	-1	8	-3	30 ***	050	74	Montréal Int'l A	18	1	26	8	1 ***	260	41		
Eureka	-1	1	1	-5	2 ***		X	Natashquan A	11	0	19	1	3 ***	250	48		
Fort Smith A	7	-2	16	-2	7 ***	310	52	Québec A	15	0	24	4	4 ***	260	33		
Hall Beach A	1	-1	4	-1	21 ***	040	50	Schefferville A	8	0	20	1	34 ***	330	69		
Inuvik A	4	-1	16	-4	0 ***	070	46	Sept-Îles A	11	-1	19	3	4 ***	280	63		
Iqaluit A	4	-1	10	1	35 ***	130	91	Sherbrooke A	14	0	25	2	4 ***		X		
Mould Bay A	-4	-1	0	-8	0 1		X	Val-d'Or A	14	1	24	6	13 ***	330	74		
Norman Wells A	5	-3	15	-1	5 ***	280	56	New Brunswick									
Resolute A	0	2	3	-3	0 ***	030	67	Chatham A	15	0	25	4	0 ***	300	46		
Yellowknife A	6	-3	12	0	6 ***	010	65	Fredericton A	15	0	26	1	0 ***	240	46		
Alberta									Miscou Island (aut)	*	*	*	*	***			
Calgary Int'l A	12	0	26	1	15 ***	260	67	Moncton A	15	0	25	2	13 ***	260	54		
Cold Lake A	11	-1	19	0	11 ***	280	46	Saint John A	14	0	25	3	14 ***	210	50		
Edmonton Namao A	12	1	24	3	9 ***	270	54	Nova Scotia									
Fort McMurray A	10	-1	18	4	25 ***	300	57	Greenwood A	16	0	27	5	38 ***	250	54		
High Level A	8	-2	17	1	10 ***	320	44	Shearwater A	16	0	25	7	19 ***	340	35		
Jasper	11	0	25	-1	9 ***		X	Sydney A	15	0	25	6	28 ***	270	46		
Lethbridge A	15	0	29	2	2 ***	290	48	Yarmouth A	15	0	22	7	9 ***	230	56		
Medicine Hat A	17P	1P	30P	4P	0P***	350	48	Prince Edward Island									
Peace River A	11	0	20	4	11 ***	270	35	Charlottetown A	16	0	22	7	22 ***	230	56		
Saskatchewan									East Point (auto)	15P	*P	18P	11P	37P***			
Cree Lake	8	-2	16	2	12 ***	290	67	Newfoundland									
Estevan A	16	1	29	3	7 ***	360	52	Cartwright	10	1	22	0	9 ***	240	63		
La Ronge A	10	-2	19	-2	9 ***	290	65	Churchill Falls A	9	1	20	0	19 ***	280	82		
Regina A	15	1	28	2	29 ***	280	82	Gander Int'l A	12	-1	22	2	33 ***	320	39		
Saskatoon A	14	0	29	0	6 ***	300	44	Goose A	12	0	21	2	12 ***	260	76		
Swift Current A	15	1	32	0	0 ***	290	46	Port Aux Basques	12	-1	20	4	26 ***	290	59		
Yorkton A	14P	1P	28P	5P	18P***	300	59	St John's A	13	0	21	4	32 ***	170	69		
Manitoba									St Lawrence	13	1	19	2	54 ***		X	
Brandon A	15	1	27	2	10 ***	280	56	Wabush Lake A	9	0	22	1	23 ***	260	56		
Churchill A	6	-2	12	2	12 ***	330	102	91/09/02-91/09/08									
Lynn Lake A	7	-2	17	-3	18 ***	280	63										
The Pas A	12	0	19	2	35 ***	330	63										
Thompson A	9	-1	22	-5	7 ***	290	74										
Winnipeg Int'l A	17	1	30	5	3 ***	170	69										

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

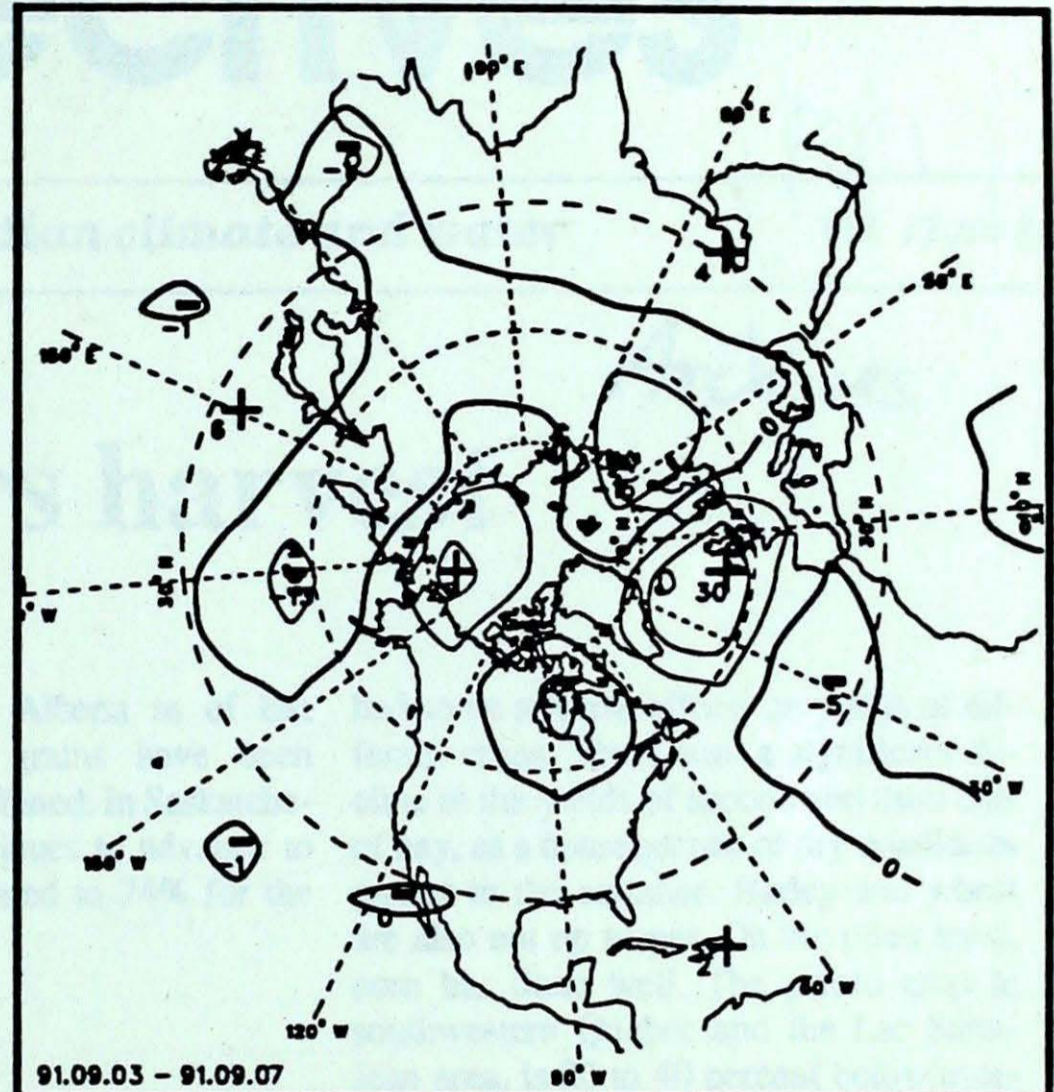
ptot = weekly precipitation total in mm
 st = snow thickness on the ground in cm
 dir = direction of max wind, deg. from north.
 vel = wind speed in km/h

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

ATMOSPHERIC CIRCULATION



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



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



Environment
Canada

Environnement
Canada

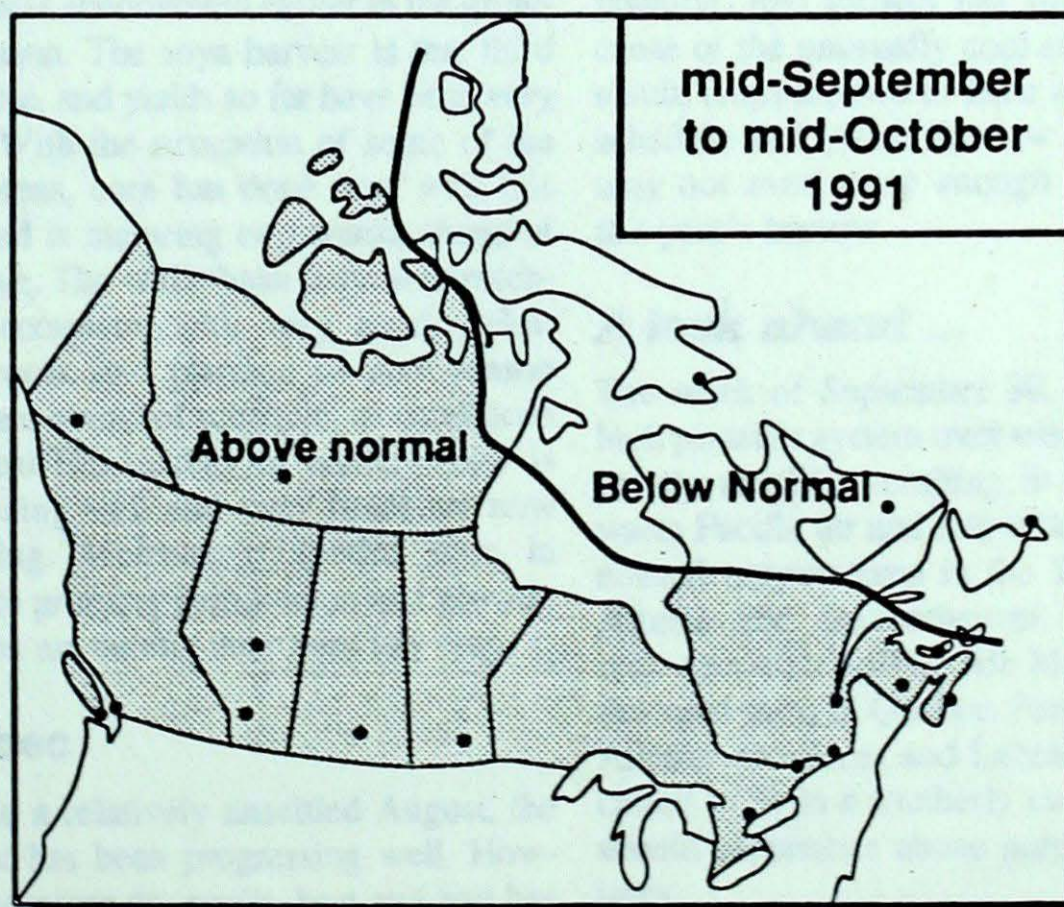
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Service

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de l'environnement
atmosphérique

MONTHLY TEMPERATURE FORECAST

*Normal temperatures from
mid-September to mid-October, °C*

Whitehorse	4	Toronto	12
Yellowknife	3	Ottawa	11
Iqaluit	-1	Montréal	12
Vancouver	12	Québec	10
Victoria	12	Fredericton	10
Calgary	8	Halifax	12
Edmonton	8	Charlottetown	11
Regina	8	Goose Bay	6
Winnipeg	9	St. John's	9



Canada