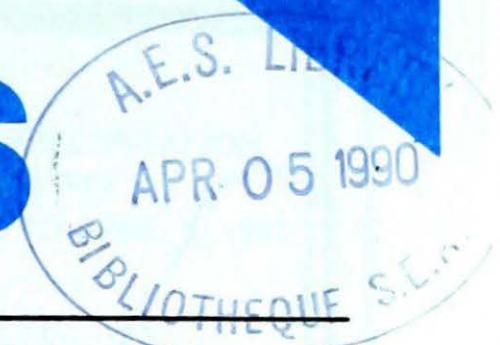


Climatic Perspectives

March 26 to April 1, 1990

A weekly review of Canadian climate

Vol. 12 No. 13



Abnormally warm in western Canada but winter hangs on in the East

Above-normal mean weekly temperatures have been evident in Canada's northwest for five successive weeks, while Newfoundland residents have had to endure below normal mean weekly temperatures for the last 15 consecutive weeks.

Winter operations wind down in the Northwest

Temperatures in northern B.C. and the southern Mackenzie District have soared to the mid-teens this week, rapidly melting the snow pack. Fort Nelson has just recorded its 2nd warmest March ever. The oil and forestry industry is now concerned about getting their equipment out of the field before the ground thaws. In the Mackenzie District, a number of "winter roads" leading into isolated posts have been closed. There was minor flooding on the southern portions of the Dempster highway. Some airlines are starting to limit the use of ski planes out of Yellowknife.

Heavy ice on the East Coast

Usually by the first week of April there is an open water route into the Gulf of St. Lawrence, but this certainly is not the case this year. Although ice conditions have improved significantly in the western portions of the Gulf, predominantly westerly winds have been funnelling the pack ice eastwards towards Cabot Strait. Heavy ice congestion between Newfoundland and Cape Breton Island has kept the Coast Guard very busy trying to keep the ship-

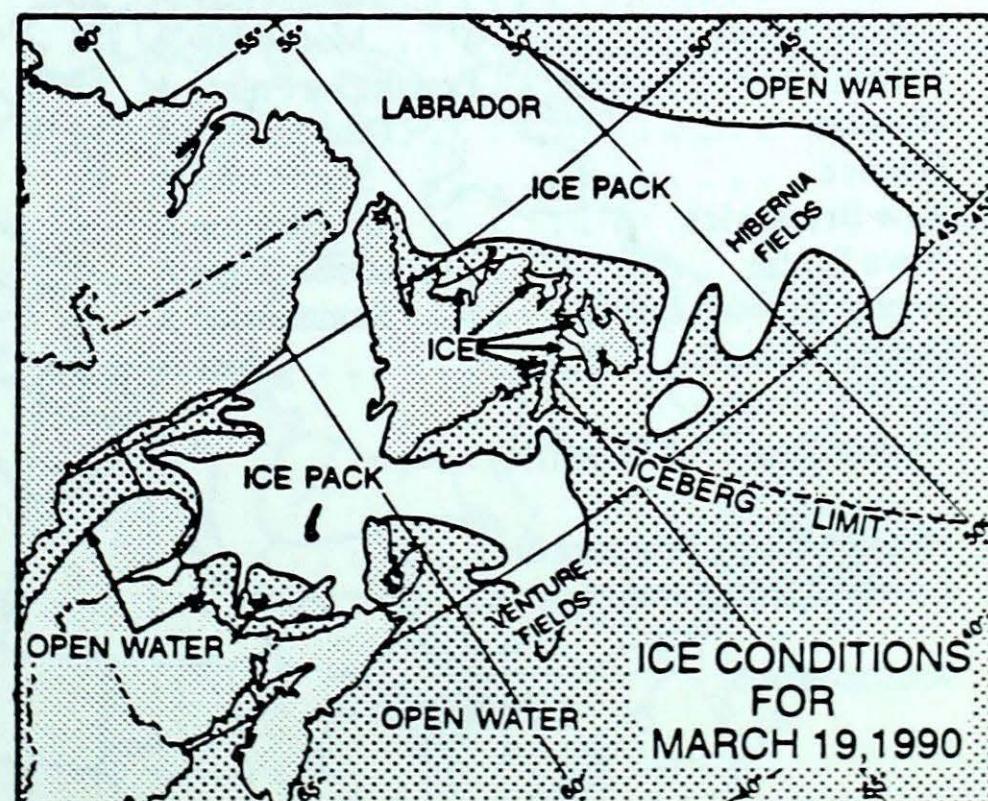
ping route from the Atlantic open, where there are currently 21 ships stuck in the heavy outflow of ice. Although a few leads have opened up, ships are still finding it very difficult to reach ports along Newfoundland's west coast. The Coast Guard has started the routine chore of breaking up the ice in many of the coastal harbours.

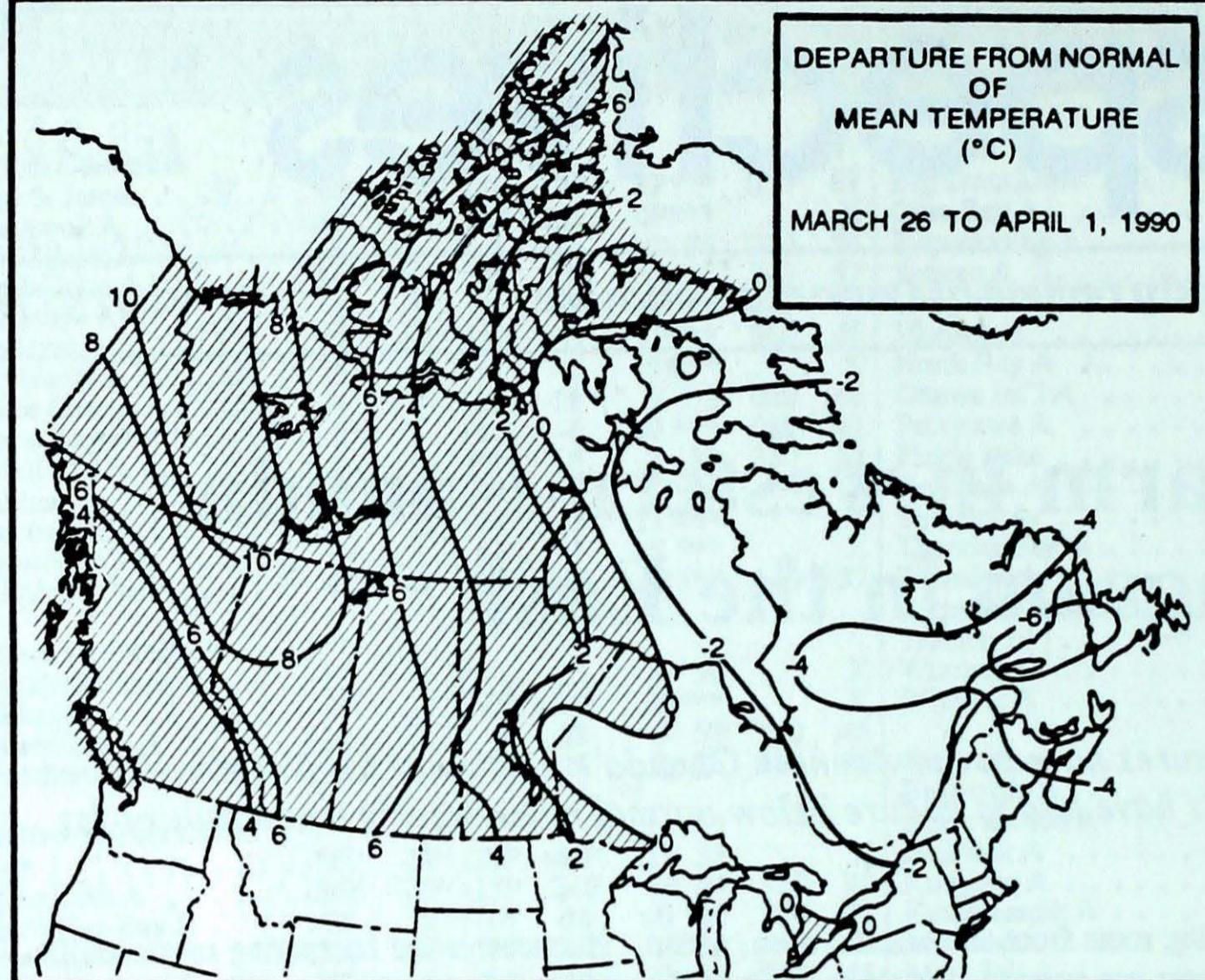
The overall distribution of the Labrador ice pack that extends down the east coast of Newfoundland is now close to the climatological maximum. The southern limit extends to the warmer waters of the Gulf Stream, where rapid ice-melt occurs. Because of the predominantly off-shore winds this season, the ice pack has remained well off Newfoundland's east coast, and so far it has been a fairly routine season for the Coast Guard. One area of concern has been Placentia Bay, where because of the unusually cold winter, there

is extensive ice hampering tanker traffic to and from the Come-by-Chance refinery. Ice has also been threatening the Hibernia oil fields, where drilling has been suspended since February.

Warm in the West, cold in the East

For the week of April 9, mild temperatures are expected west of Manitoba, with readings 3 to 7° C above normal. From Manitoba and eastwards temperatures are expected to be 2 to 5° C below normal.





Weekly normal temperatures (°C)

max. min.

Whitehorse A	1.7	-9.7
Iqaluit A	-14.5	-24.4
Yellowknife A	-8.2	-20.6
Vancouver Int'l A	10.8	3.3
Victoria Int'l A	11.0	2.7
Calgary Int'l A	4.8	-6.3
Edmonton Int'l A	2.2	-8.9
Regina A	1.9	-8.6
Saskatoon A	1.3	-9.1
Winnipeg Int'l A	1.5	-8.3
Ottawa Int'l A	4.6	-4.5
Toronto (Pearson Int'l A)	6.4	-2.9
Montréal Int'l A	4.9	-3.7
Québec A	2.5	-6.2
Fredericton A	5.4	-4.8
Saint John A	4.3	-4.8
Halifax (Shearwater)	4.6	-2.7
Charlottetown A	2.6	-4.6
Goose A	-0.2	-10.6
St John's A	2.4	-3.8

Weekly temperature and precipitation extremes

	Maximum temperature (°C)	Minimum temperature (°C)	Heaviest precipitation (mm)
British Columbia	Hope A 21	Blue River A -10	Prince Rupert A 66
Yukon Territory	Drury Creek 10	Ogilvie -25	Klondike Camp 23
Northwest Territories	Fort Simpson A 14	Shepherd Bay A -40	Cape Dyer A 29
Alberta	Lethbridge A 20	Fort McMurray A -14	Edson A 3
Saskatchewan	Moose Jaw A 16	Cree Lake -29	Broadview 5
Manitoba	Portage La Prairie A 15	Grand Rapids (aut) -31	Brandon A 7
Ontario	Thunder Bay A 18	Armstrong (aut) -28	London A 18
Quebec	Sherbrooke A 12	La Grande IV A -33	Montréal Int'l A 11
New Brunswick	Fredericton A 8	St-Léonard A -21	Moncton A 16
Nova Scotia	Greenwood A 9	Sydney A -14	Yarmouth A 18
Prince Edward Island	Summerside A 5	Summerside A -13	Summerside A 13
Newfoundland	Goose A 8	Wabush Lake A -30	Burgeo 11

Across The Country...

Highest Mean Temperature	Hope A(BC) 11
Lowest Mean Temperature	Shepherd Bay A(NWT) -31

90/03/26-90/04/01

CLIMATIC PERSPECTIVES
VOLUME 12

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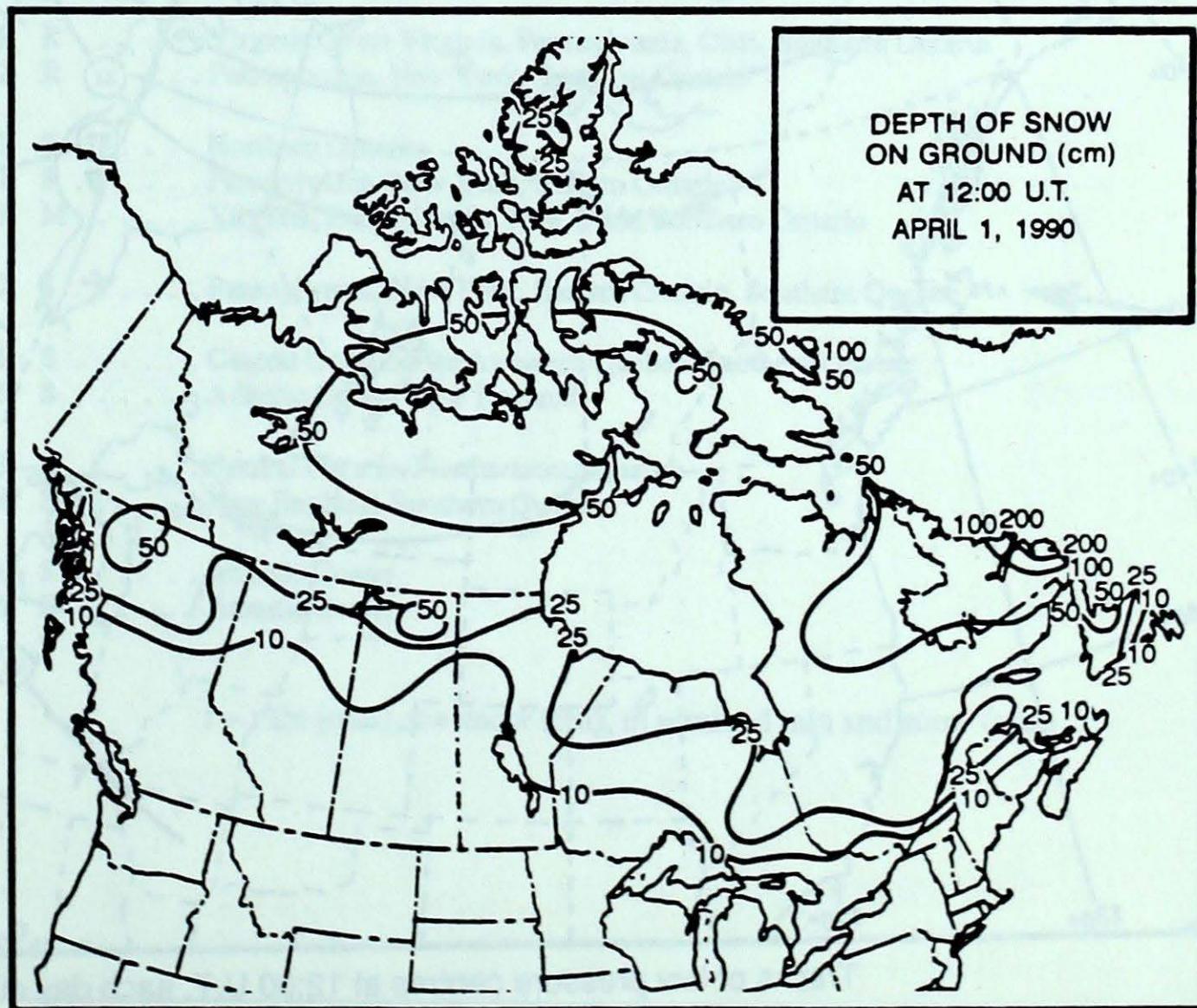
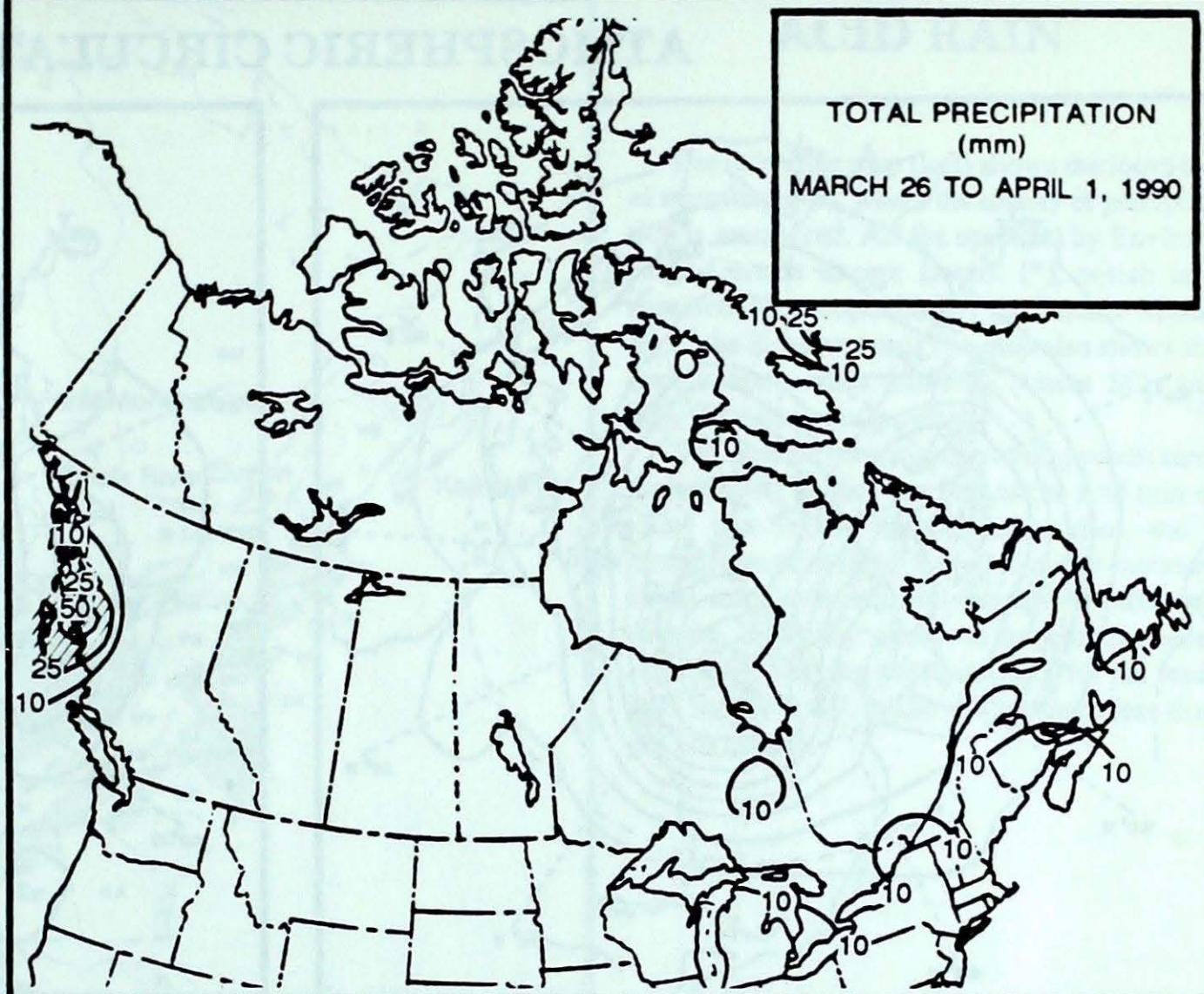
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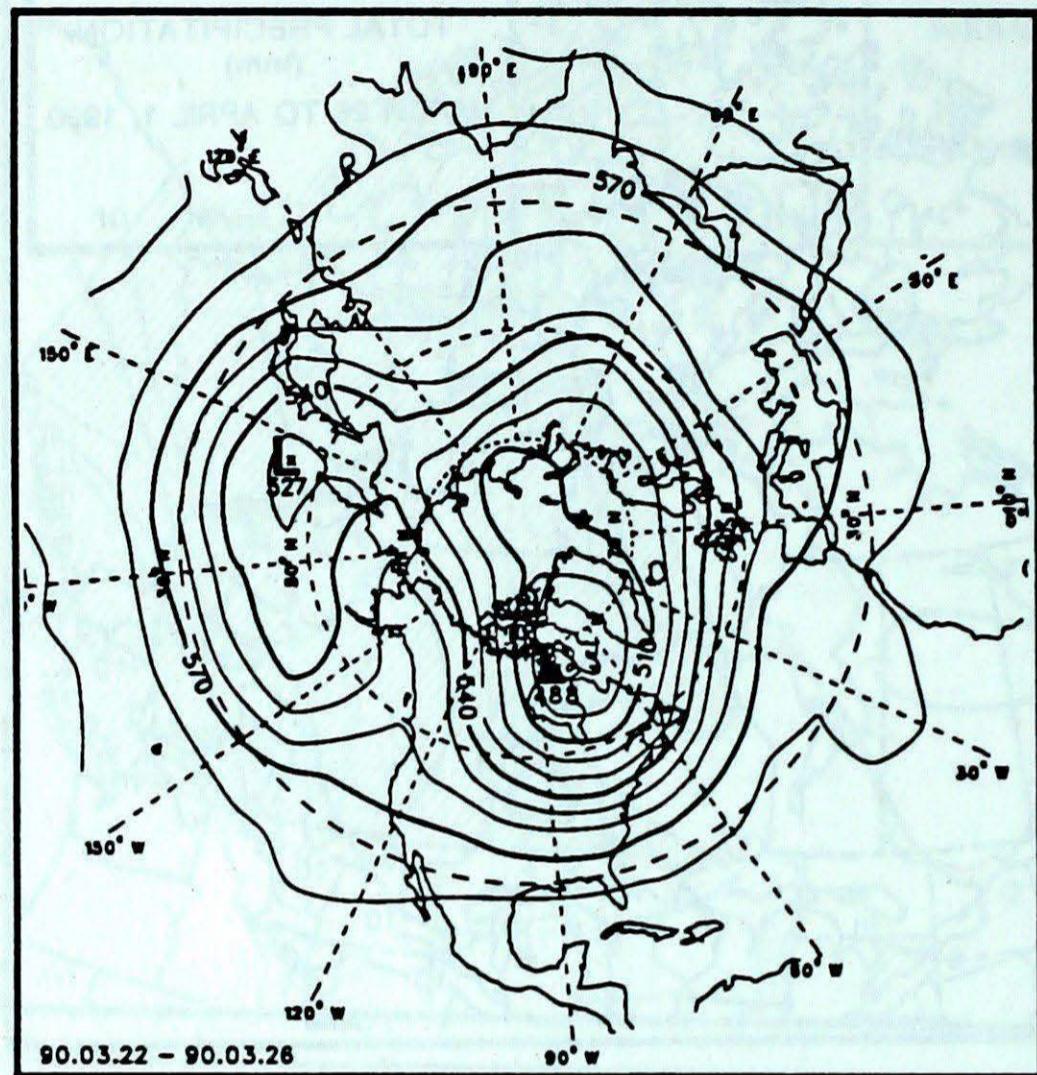
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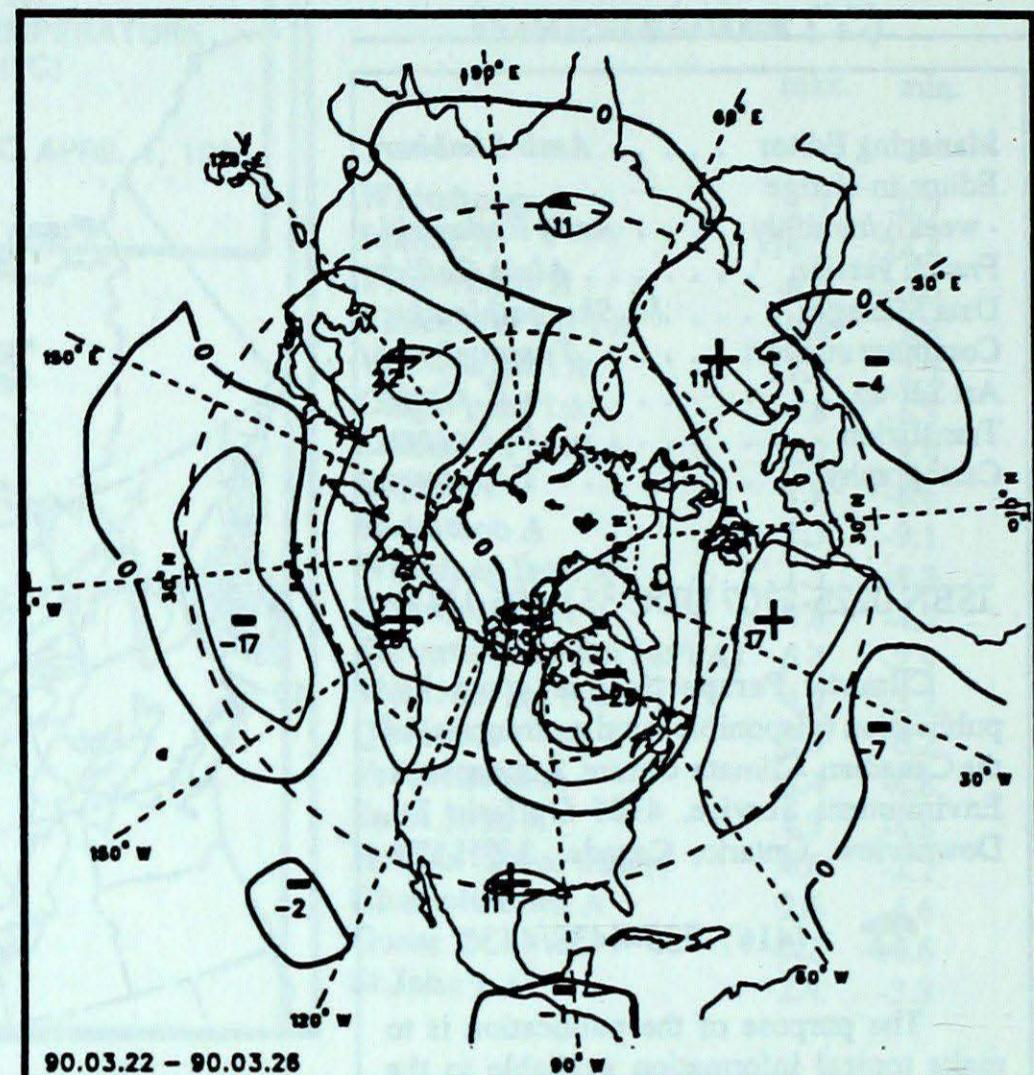
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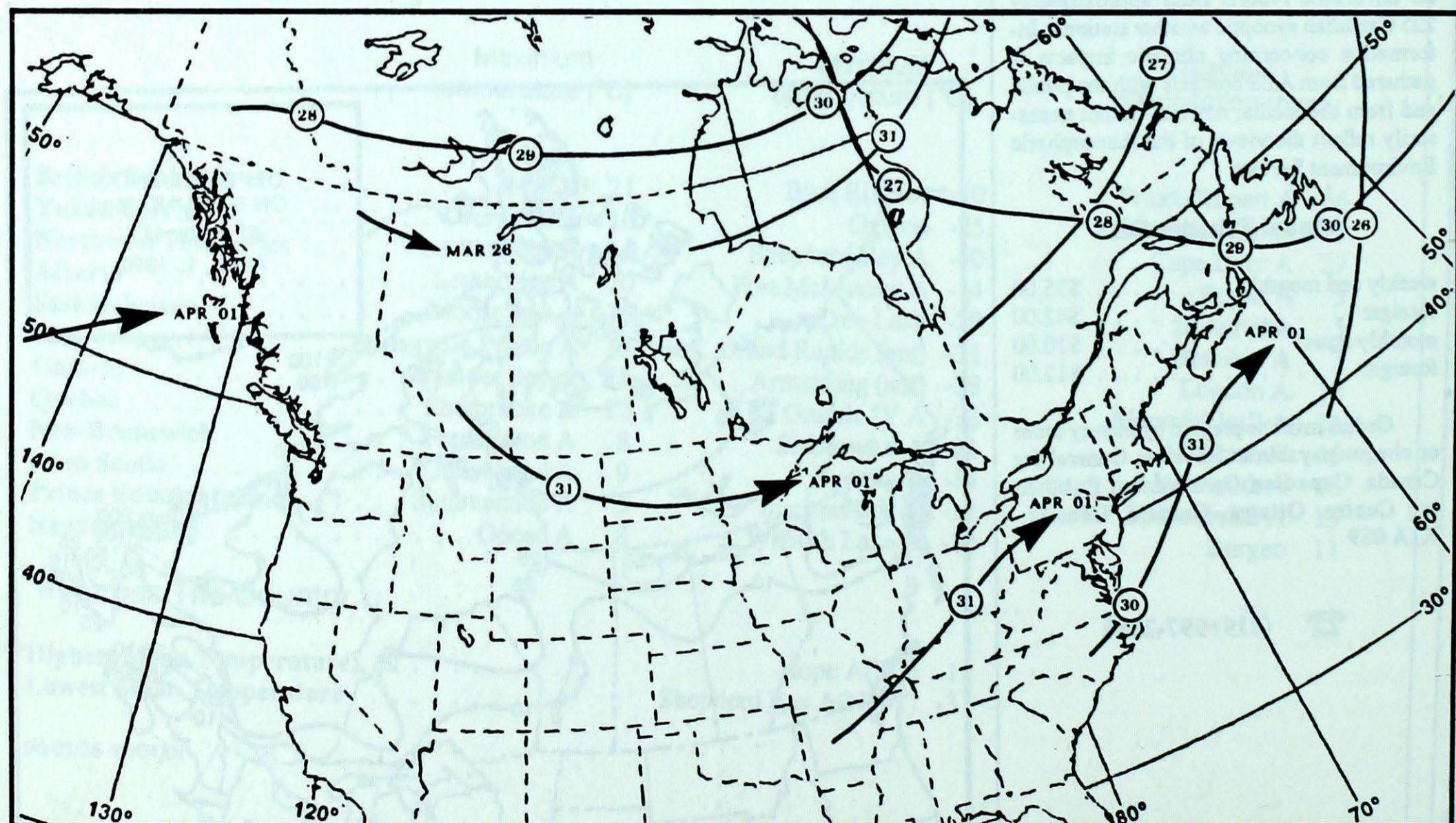
ATMOSPHERIC CIRCULATION



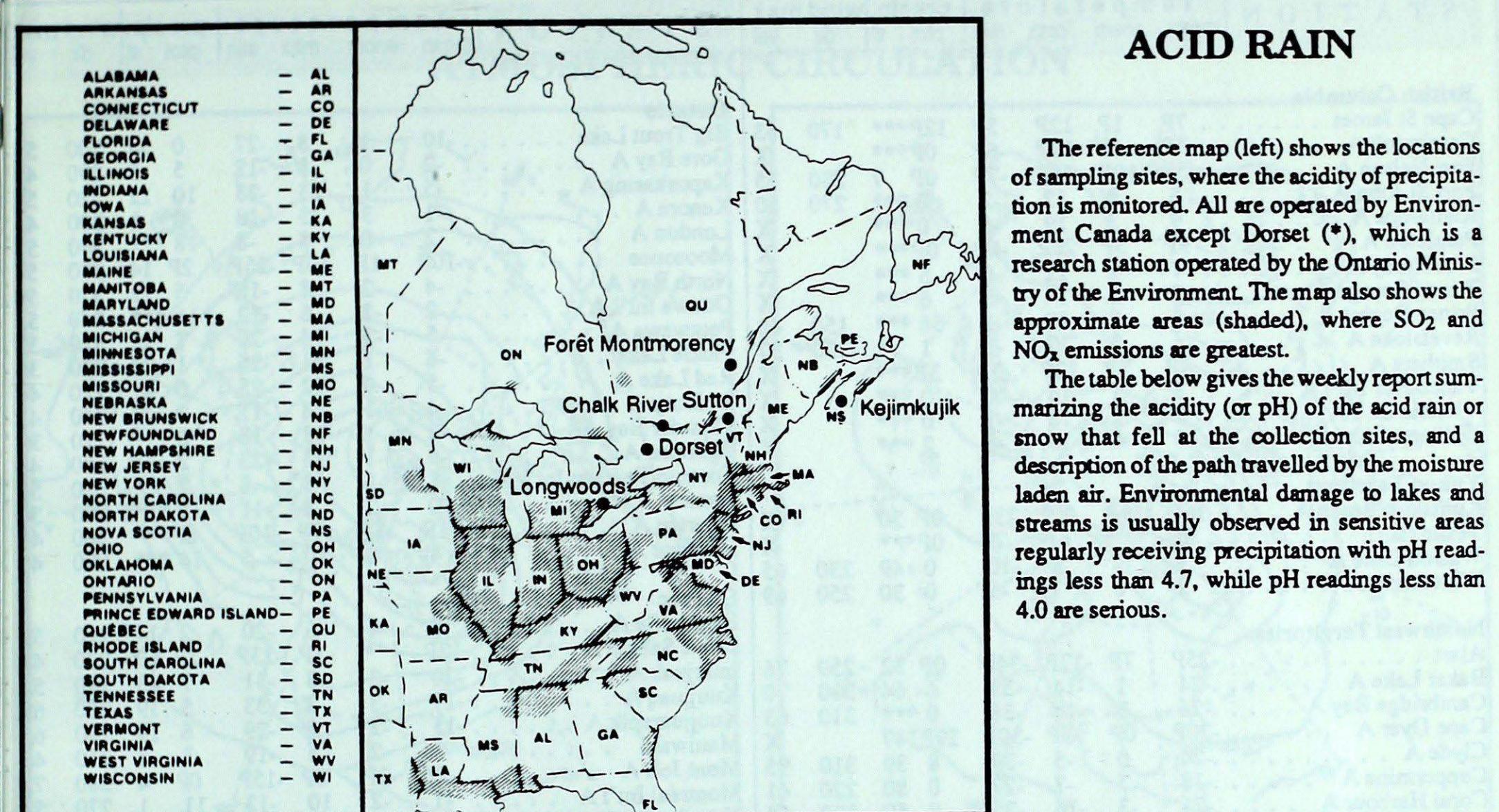
Mean geopotential height
50-kPa level (10-decametre intervals)



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.



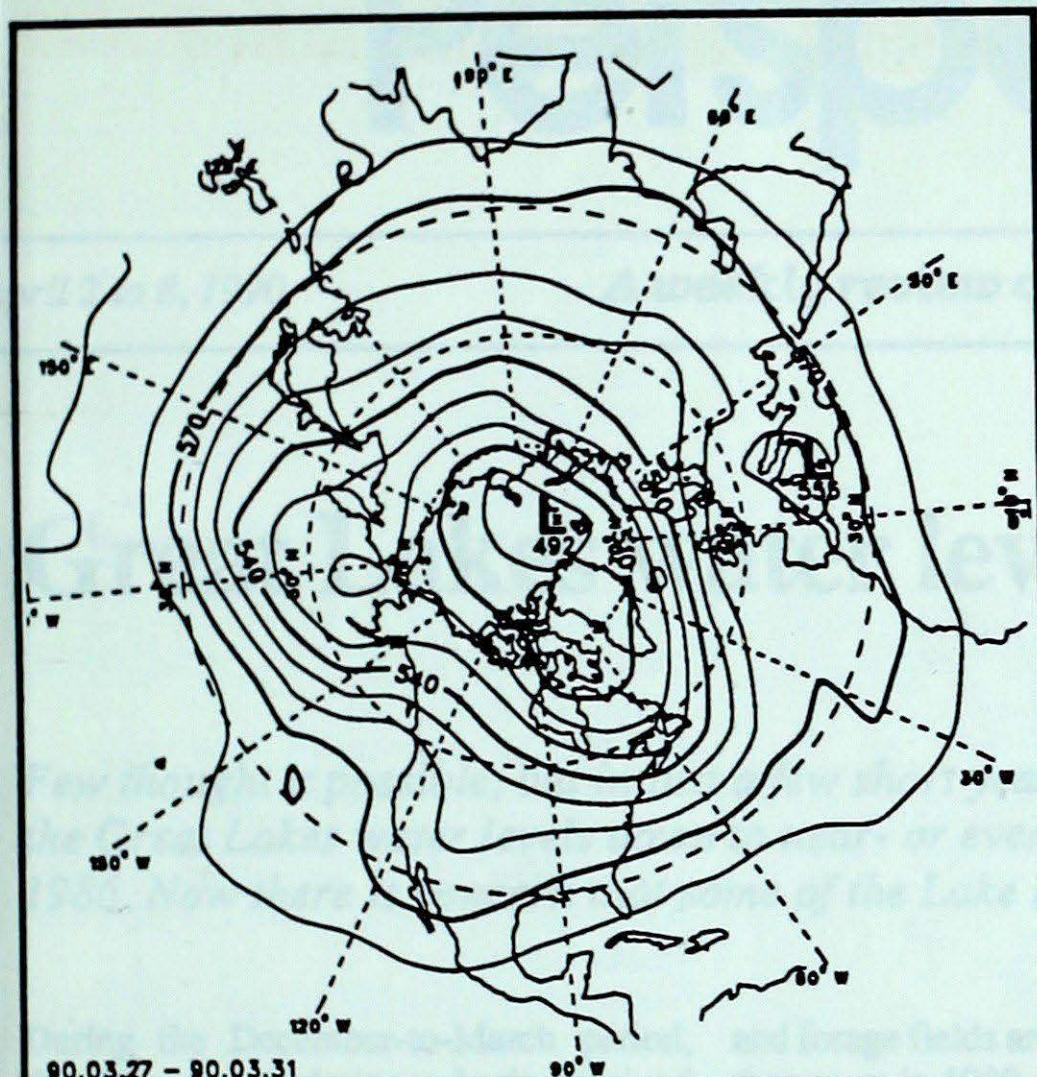
ACID RAIN

Site	day	pH	amount	air path to site	From March 25 to 31, 1990
Longwoods	29	3.4	9 R	Virginia, West Virginia, Pennsylvania, Ohio, Southern Ontario	
	31	3.5	2 R	Pennsylvania, New York, Southern Ontario	
Dorset *	25	5.6	1 S	Northern Ontario	
	29	4.2	1 S	Pennsylvania, New York, Eastern Ontario	
	31	4.0	3 M	Virginia, Pennsylvania, New York, Southern Ontario	
Chalk River	30	3.9	7 S	Pennsylvania, New York, Eastern Ontario, Southern Quebec	
Sutton	26	4.1	1 S	Central Ontario, Northwestern Quebec, Southern Quebec	
	30	4.3	5 S	Atlantic Ocean, New England	
Montmorency	25	4.3	3 S	Central Ontario, Northwestern Quebec	
	30	4.0	2 S	New England, Southern Quebec	
Kejimkujik	30	5.4	16 S	Atlantic Ocean	
	31	5.0	6 R	Atlantic Ocean	

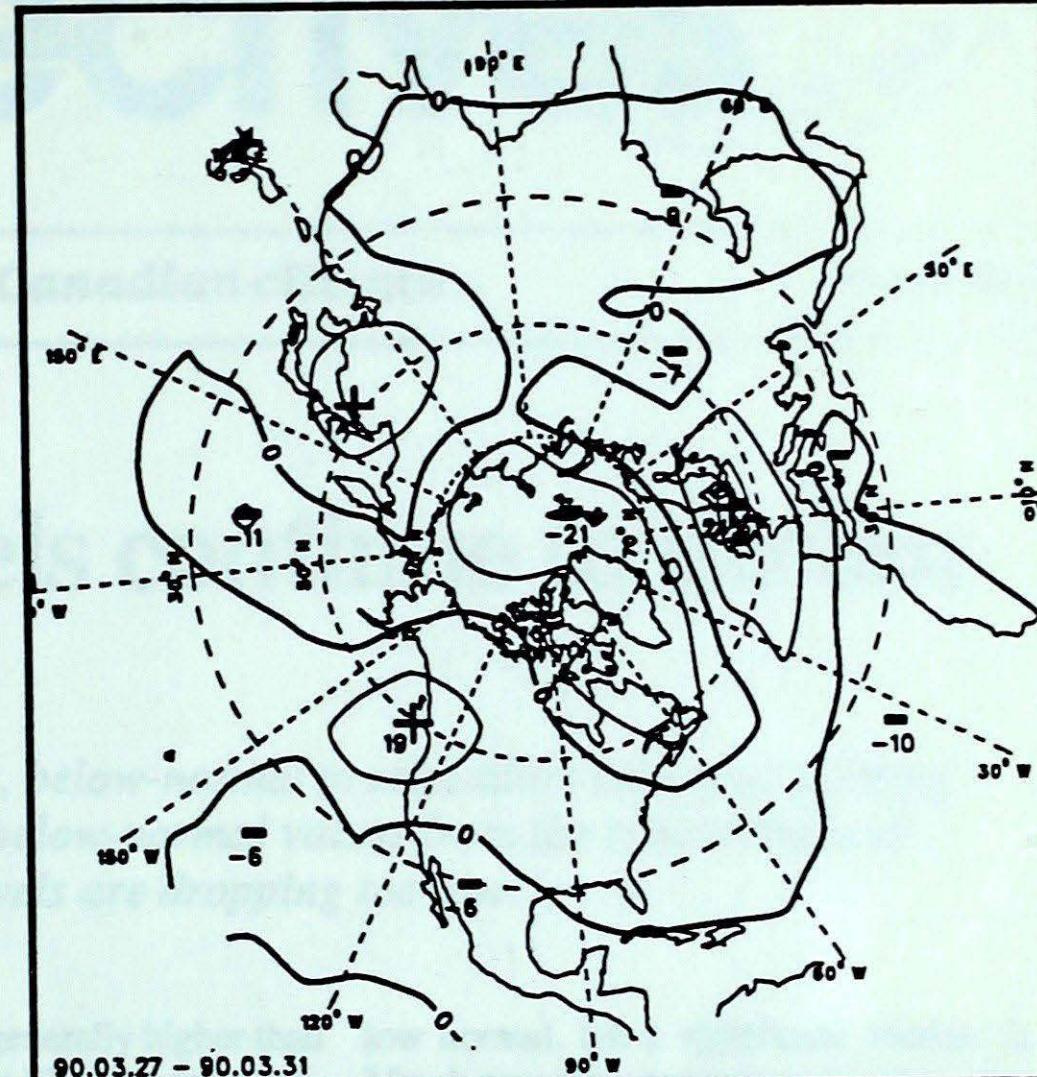
r = rain (mm), s = snow (cm), m = mixed rain and snow (mm)

STATION	temperature				precip.	wind max	STATION	temperature				precip.	wind max									
	mean	anom	max	min	ptot	st	dir	mean	anom	max	min	ptot	st	dir	vel							
British Columbia																						
Cape St James	7P	1P	12P	5P	12P***	170	63	Big Trout Lake	-10	1	8	-27	0	34	300	56						
Cranbrook A	7P	4P	19P	-6P	0P***	X		Gore Bay A	-2	0	8	-12	5	5	290	48						
Fort Nelson A	5P	10P	15P	-7P	0P 7	280	65	Kapuskasing A	-5	1	13	-23	10	12	220	54						
Fort St John A	6	8	12	-2	0 ***	270	80	Kenora A	-1	3	13	-18	0	1	200	43						
Kamloops A	9	3	19	-6	0 ***	X	London A	2	0	8	-8	18 ***	340	52								
Penticton A	9P	3P	20P	-6P	0P***	X	Moose Lake	-10P	-1P	10P	-25P	2P	14	230	56							
Port Hardy A	7	2	12	0	5 ***	X	North Bay A	-4	-2	8	-16	5	12	350	59							
Prince George A	5	3	14	-5	6 ***	X	Ottawa Int'l A	-2	-2	6	-12	11 ***	340	56								
Prince Rupert A	6	2	10	-1	66 ***	150	48	Petawawa A	-5	-3	4	-20	7	1	320	52						
Revelstoke A	6	3	17	-6	1 1	320	37	Pickle Lake	-6	1	11	-25	1	22	220	35						
Smithers A	4P	3P	12P	-3P	3P***	X	Red Lake A	-5	0	12	-25	0	11	220	44							
Vancouver Int'l A	8	1	14	0	0 ***	X	Sudbury A	-4	-1	8	-17	7	2	240	41							
Victoria Int'l A	8	2	18	-1	0 ***	X	Thunder Bay A	-2	1	18	-18	8 ***	220	39								
Williams Lake A	5	4	15	-8	2 ***	X	Timmins A	-6	-1	13	-23	2	34	280	46							
Yukon Territory																						
Komakuk Beach A	-16P	9P	-8P	-23P	0P 30	X	Toronto (Pearson Int'l A)	1	-1	8	-8	2 ***	320	56								
Teslin (aut)	OP	*	6P	-7P	0P***	X	Trenton A	0	-2	8	-11	5 ***	300	50								
Watson Lake A	1	7	9	-10	0 49	230	65	Wiarton A	-1P	-1P	7P	-10P	8P***	360	41							
Whitehorse A	2	6	7	-5	0 30	250	69	Windsor A	4	0	10	-5	14 ***	090	48							
Northwest Territories																						
Alert	-25P	7P	-17P	-34P	0P 32	250	76	Quebec														
Baker Lake A	-24	1	-14	-33	4 64	310	70	Bagotville A	-7	-4	6	-20	2	14	290	59						
Cambridge Bay A	-26	3	-14	-36	0 ***	310	63	Blanc Sablon A	-12P	*	-1P	-23P	2P	60	270	48						
Cape Dyer A	-20P	0P	-5P	-30P	29P 147	X	Inukjuak A	-20	-3	-3	-31	7	43	190	52							
Clyde A	-24	0	-5	-39	8 39	310	95	Kuujjuaq A	-17	-3	3	-33	5	19	200	63						
Coppermine A	-18	7	-7	-27	0 80	220	41	Kuujjuarapik A	-15	-2	5	-29	6	19	180	65						
Coral Harbour A	-25	-3	-16	-35	8 59	320	65	Maniwaki	-5	-2	5	-19	3	3	310	46						
Eureka	-30	6	-19	-38	0 14	180	91	Mont Joli A	-4P	-2P	6P	-15P	0P	4	280	72						
Fort Smith A	-3P	7P	9P	-20P	0P 34	X	Montréal Int'l A	-1	-2	10	-13	11	1	270	52							
Hall Beach A	-27P	0P	-16P	-38P	0P 45	010	54	Natashquan A	-10P	-7P	1P	-23P	4P***	300	56							
Inuvik A	-10	13	5	-25	0 43	330	37	Québec A	0P	2P	5P	-13P	4P	47	X							
Iqaluit A	-23	-4	-5	-33	7 31	140	83	Schefferville A	-14	-2	3	-31	6	67	210	69						
Mould Bay A	-22P	8P	-15P	-30P	1P 25	300	65	Sept-Îles A	-12P	-8P	0P	-21P	8P	28	330	61						
Norman Wells A	-4	12	7	-18	2 7	300	46	Sherbrooke A	-6P	-5P	12P	-22P	6P	1	270	54						
Resolute A	-28	1	-21	-34	3 29	190	50	Val-d'Or A	-8	-3	6	-24	3	17	340	57						
Yellowknife A	-8	6	4	-23	7 40	160	41	New Brunswick														
Alberta																						
Calgary Int'l A	6	7	18	-7	0 ***	340	48	Charlo A	-8	-5	4	-20	4	40	300	56						
Cold Lake A	2	6	11	-13	0 1	240	37	Chatham A	-5	-5	6	-17	10	18	320	63						
Edmonton Namao A	6	8	16	-5	0 ***	340	56	Fredericton A	-4	-4	8	-14	13	3	290	72						
Fort McMurray A	2	7	13	-14	0 9	280	43	Moncton A	-5P	-4P	7P	-15P	16P	2	260	56						
High Level A	0	7	13	-13	0 26	330	46	Saint John A	-5	-4	5	-16	10	5	330	67						
Jasper	4	4	14	-6	0 1	X	Nova Scotia															
Lethbridge A	7	6	20	-4	0 ***	280	57	Greenwood A	-3	-4	9	-13	11	4	200	76						
Medicine Hat A	6	5	18	-5	0 ***	150	46	Shearwater A	-3	-4	3	-12	14	4	070	65						
Peace River A	4P	8P	11P	-5P	0P***	230	46	Sydney A	-5	-4	1	-14	2	1	310	67						
Saskatchewan																						
Cree Lake	-5	5	9	-29	0 19	320	52	Yarmouth A	-2	-4	7	-9	18 ***	310	63							
Estevan A	3P	4P	14P	-12P	3P 1	020	44	Prince Edward Island														
La Ronge A	-1	7	14	-23	0 20	300	41	Charlottet														

ATMOSPHERIC CIRCULATION



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



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



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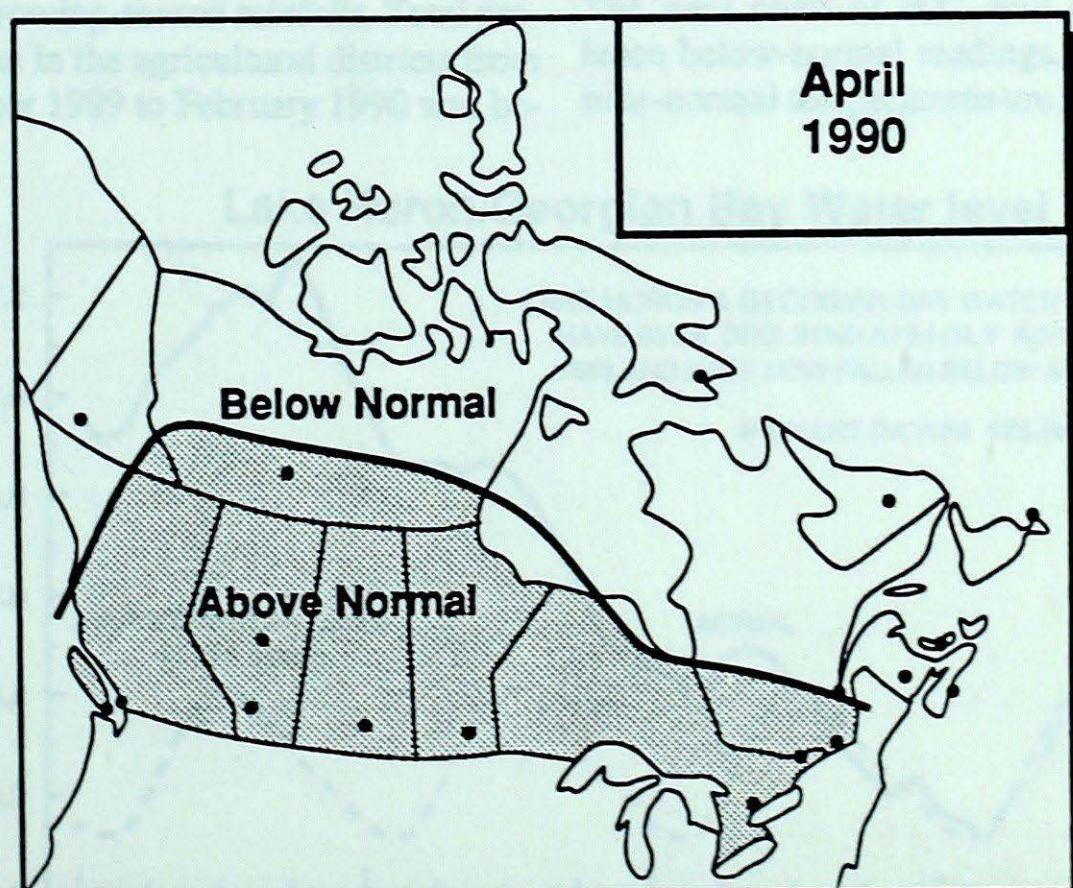
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MONTHLY TEMPERATURE FORECAST

*Normal temperatures for
the month of April, °C*

Whitehorse	0	Toronto	6
Yellowknife	-7	Ottawa	6
Iqaluit	-14	Montréal	6
Vancouver	9	Québec	3
Victoria	8	Fredericton	4
Calgary	3	Halifax	4
Edmonton	4	Charlottetown	2
Regina	3	Goose Bay	-2
Winnipeg	3	St. John's	1

April
1990



Canada