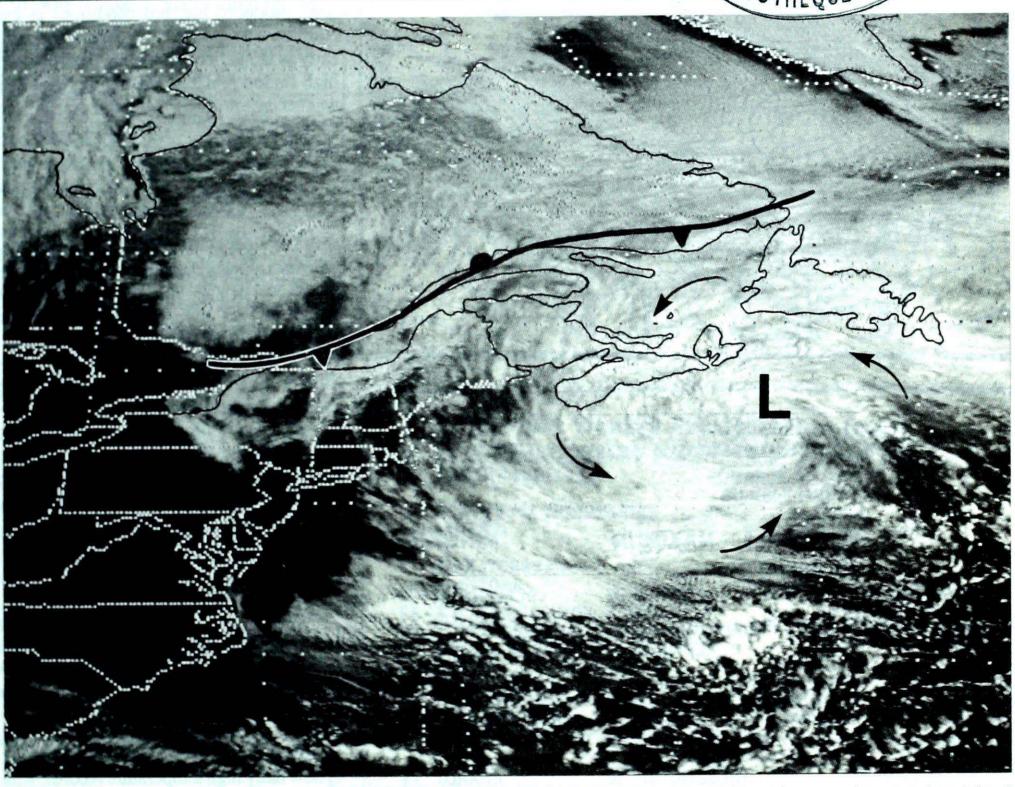
Climatic Perspective

April 5 to 11, 1988

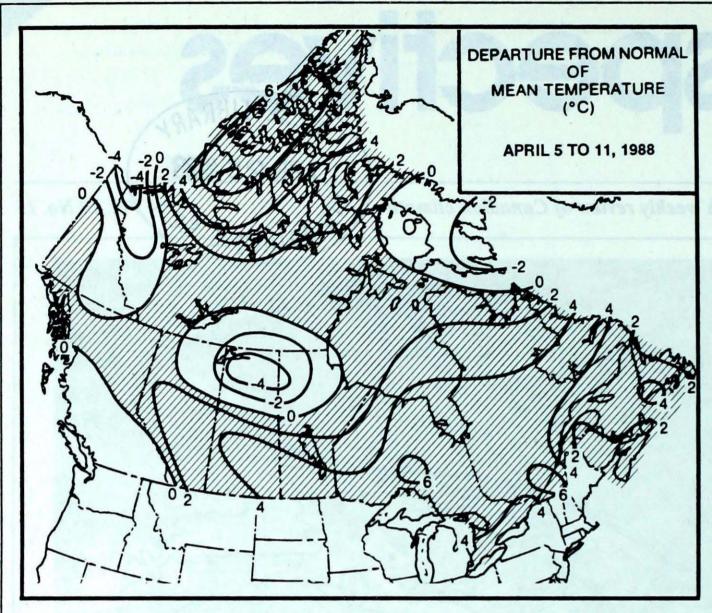
A weekly review of Canadian climate

APR 2 6 1988 OLIOTHEQUE SEE VOL. 10 No. 15



This GOES satellite picture of April 10, 1988, shows the large cloud shield associated with a vigorous slow moving Atlantic storm, which hit Atlantic Canada over the weekend. For more information see page 3.

- Fruit trees blooming in southern B.C.
- Maple syrup season drawing to a close
- Winds and wet snow in the Maritimes



Weekly Temperature extreme ('C)

MAXIMUM MINIMUM

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	LYTTON MAYO FORT SIMPSON RED DEER	23 8 9 23	DEASE LAKE -12 KOMAKUK BEACH A-33 SHEPHERD BAY A-43 FORT CHIPEWYAN -19
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	ESTEVAN GRETNA WINDSOR MONTREAL INT'L	22 24	CREE LAKE -23 CHURCHILL -24 BIG TROUT LAKE -16 I NUKJUAK -26
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	FREDERICTON YARMOUTH CHARLOTTETOWN GOOSE	10 12 9 14	CHARLO -4 SYDNEY -2 CHARLOTTETOWN -1 WABUSH LAKE -12

ACROSS THE NATION

WARMEST MEAN TEMPERATURE	8	WINDSOR -	ONT
COOLEST MEAN TEMPERATURE	-27	KOMAKUK BEACH	AYT

ACROSS THE COUNTRY...

Yukon and Northwest Territories

A strong area of high pressure drifted slowly eastwards across the Arctic. A strengthening weather system, which tracked across Hudson Bay towards Baffin Island, produced blizzard conditions in the Northwest Territories and the eastern Arctic early in the period. At Iqaluit, a new record high station pressure reading of 104.4 kPa was set on April 10. Fresh snow covered the southern Mackenzie Valley at the end of the period.

British Columbia

The week started off unsettled and wet, with rain along the south coast. Victoria established a new 24-hour April precipitation record of 39.3 mm, which also equals the normal for the month. A ridge of high pressure produced sunny, pleasant weather conditions by the middle of the week. The drought-stricken areas of the southern interior received minimal amounts of rain, but there has been some recovery in the high level snowpack. Skiing remains excellent at higher elevations, but many lower level ski runs have been closed. Cherries are beginning to bloom in the Okanagan.

Prairie Provinces

In Alberta, it was a pleasant week. The only significant precipitation fell in the more northern districts.

In Saskatchewan and Manitoba, it was pleasant and warm until the weekend. There were scattered showers reported. A number of new daily high temperature records, with readings rising to the low twenties, were established in the south. Blustery, winter-like weather prevailed in the north most of the week, where snowfalls ranged up to 15 centimetres.

The drought continues in the western prairies, especially the eastern portions of south-central Alberta and southwestern Saskatchewan. Autumn rains have been minimal and snowfalls have been scarce this winter season. The heavy March 27 snowfall was very localized, and the run off was barely adequate. Soil moisture is at a bare minimum, and it is doubtful that spring

seeding would be very successful if the soil moisture is not replenished soon. Wells and reservoirs are drying up as the water table drops. This years drought is considered worse than the dry conditions experienced in 83/84 and 76/77.

Ontario

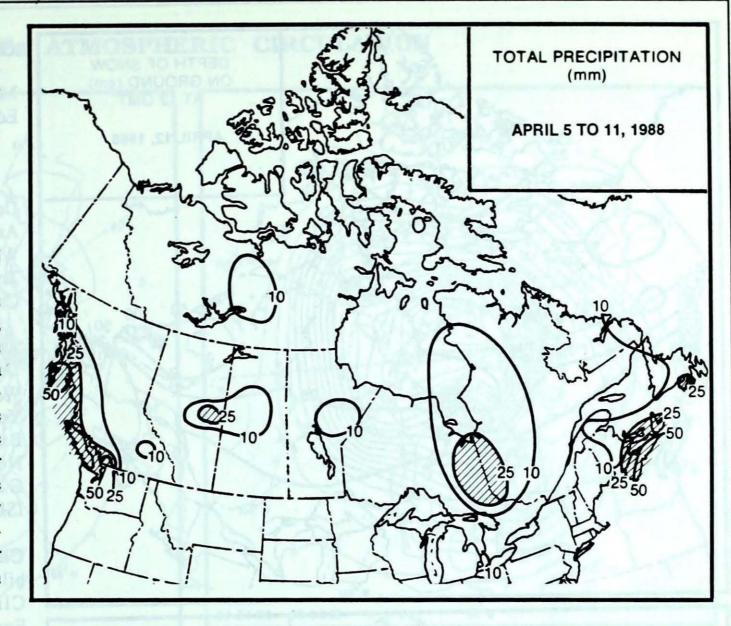
It was a mostly sunny, dry spring week. Record high temperatures were established in various sections of southern and central Ontario between April 5 and 7, with highs of near 20C as far north as North Bay. The mercury at Windsor registered a record 24C on the 6th. A developing disturbance briefly affected the province during the middle of the week, but there was little precipitation. Breezy, cooler conditions affecting the province before the weekend were short lived, as sunny milder weather returned. With fields nearly dry farmers are poised ready to start their spring field work. To-date there have been no reports of flooding this spring.

Quebec

Temperatures returned to more seasonal values this week, but not before more daily high temperature records were broken on the 5th and 6th. The mild spring weather put an end to the maple syrup season, and has caused rivers to swell and in some cases overflow their banks. On the 6th, the Milles-Iles River flooded streets in west Laval. Further upstream at Mauricie, an ice jam several kilometres long and up to 5 metres thick resulted in the flooding of an adjacent highway. Most ski resorts have closed except Mont Sainte-Anne near Quebec City which will remain open till the end of the month.

Maritime Provinces

It was a mostly cloudy, wet and windy week as a number of disturbances funnelled through the region, the most notable being over the weekend. Precipitation ranged from just a few millimetres in New Brunswick to 148 mm at Sable Island, which exceeded the monthly normal by more than 50 mm. The rain helped quench a number of brush fires burning in Nova Scotia. An influx of colder air Sunday night changed the precipitation in P.E.I. to

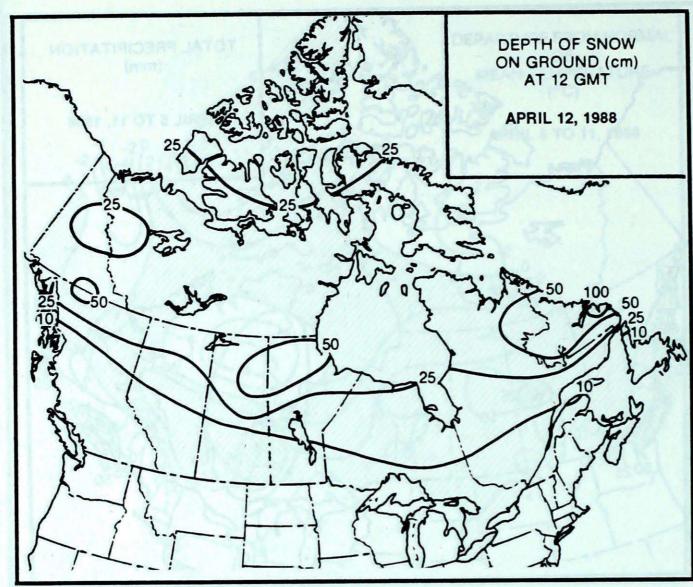


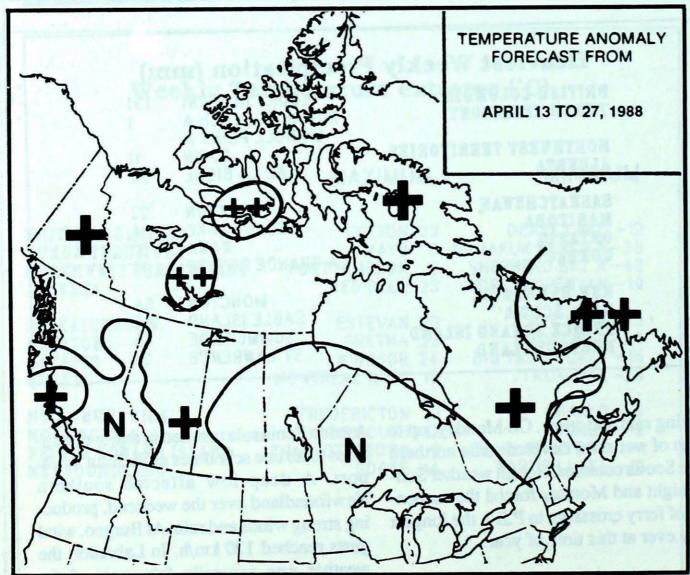
Heaviest Weekly I	Precipitation (m	m)	
BRITISH COLUMBIA	PORT ALBERNI	131	
YUKON TERRITORY	KOMAKUK BEACH A SHINGLE POINT A	1	
NORTHWEST TERRITORIES	LUPIN	11	
ALBERTA	LAC LA BICHE	30	
SASKATCHEWAN	YORKTON	27	
MANITOBA	I SLAND LAKE	14	
ONTARIO	WAWA	31	
QUEBEC	LA GRANDE RIVIERE	19	
NEW BRUNSWICK	MONCTON	54	
NOVA SCOTIA	SABLE ISLAND	148	
PRINCE EDWARD ISLAND	SUMMERSIDE	35	
NEWFOUNDLAND	ST LAWRENCE	31	

freezing rain and snow. On Monday, up to 15 cm of wet snow covered some northern Nova Scotia counties. Rough weather Sunday night and Monday forced the suspension of ferry crossings to P.E.I, the longest delay ever at this time of year.

Newfoundland

On the Island, a ridge of high pressure prevailed over the more northern communities, while passing disturbances affected the south. Drizzle and freezing drizzle was common. Extensive fog on the Avalon Peninsula resulted in major disruptions to airline schedules at St. John's Airport. A deep low affected southern Newfoundland over the weekend, producing strong winds and rain. At Burgeo, wind gusts reached 120 km/h. In Labrador, the weather was generally fair most of the week. Temperatures climbed into the teens during the middle of the week, reaching 14C at Goose Bay. The weekend became unsettled as an on-shore flow produced periods of freezing drizzle and snow at a number of locations.





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

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 choosen analogues is assumed to be a forecast for the next 15 days from now.

CLIMATIC PERSPECTIVES VOLUME 10

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weekly ... A.K. Radomski monthly ... A. Shabbar French ... A.A. Caillet Data Manager ... M. Skarpathiotakis Art Layout ... K. Czaja Word Processing ... P. Burke/U. Ellis Translation ... D. Pokorn Cartography ... G. Young/T. Chivers

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Climatic Perspectives is a weekly bilingual publication of the Canadian Climate Centre, Atmospheric Environment Service, 4905 Dufferin St., Downsview, Ontario, Canada M3H 5T4.

(416) 739-4438/4436

The purpose of the publication is to make topical information available to the public concerning the Canadian Climate and its socio-economic impact.

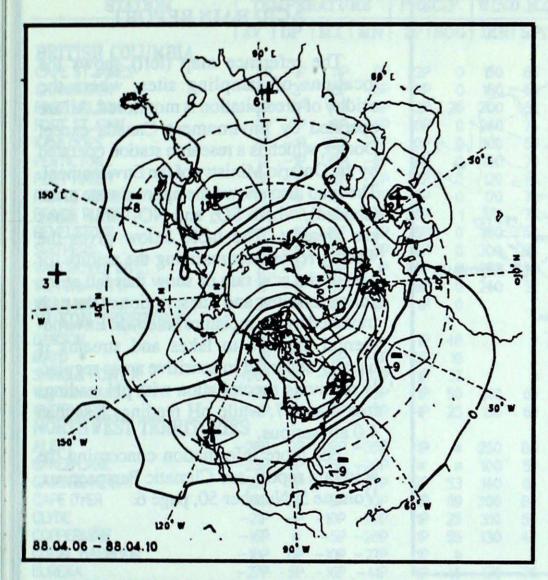
Unsolicited articles are welcome but should be at maximum about 1500 words in length. They will be subject to editorial change without notice due to publishing time constraints. The contents may be reprinted freely with proper credit.

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.

Annual Subscriptions and monthly supplement

weekly and monthly supplement \$35.00 foreign: \$42.00 Monthly issue: \$10.00 foreign: \$12.00 Orders must be prepaid by money orders or cheque payable to Receiver General for Canada. Canadian Government Publishing Centre, Ottawa, Ontario, Canada K1A 0S9 (819) 997-2560

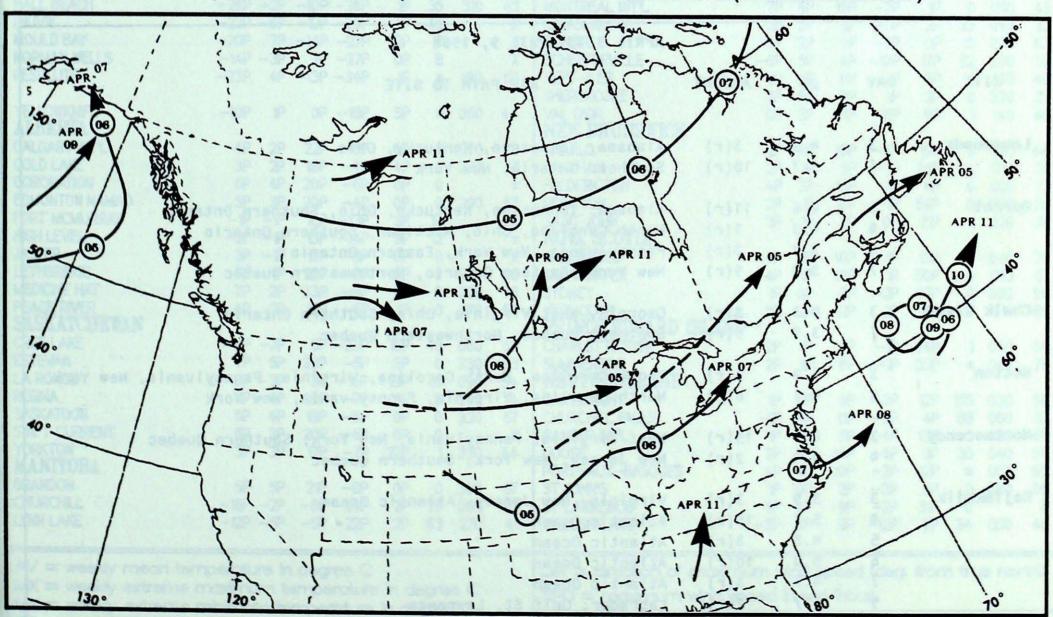
50 kPa ATMOSPHERIC CIRCULATION



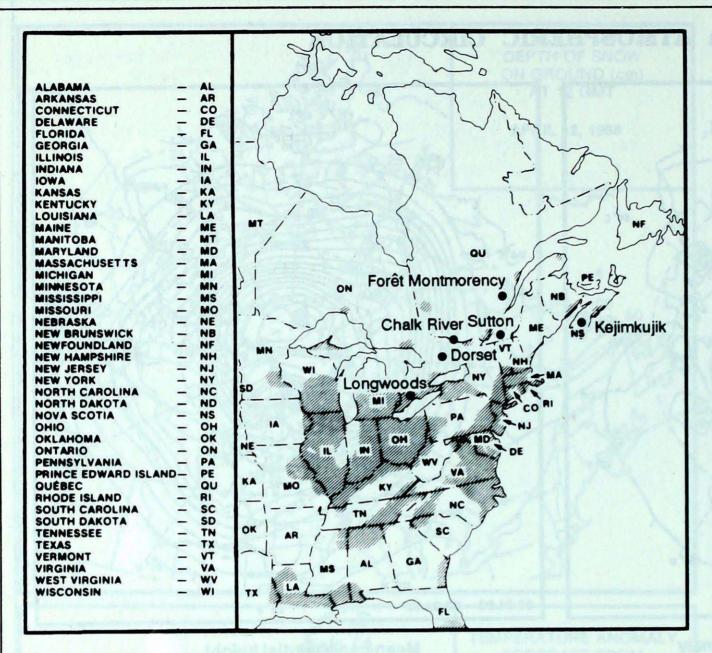
30° E 30° E 30° E 30° W

Mean geopotential height anomaly 50 kPa level (5 decameter intervals)

Mean geopotential height 50 kPa level (5 decameter intevals)



Storm track - Position of storm at 12 GMT during the period: April 5 to 11,1988



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 SO₂ and NO_x emis sions 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.

SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Longwoods	3	4.9	3(r)	Alabama, Tennessee, Kentucky, Ohio
	6	3.7	10(r)	Southern Ontario, New York
Dorset	3	4.6	11(r)	Alabama, Tennessee, Kentucky, Ohio, Southern Ontario
	4	4.3	1(r)	North Carolina, Ohio, Michigan, Southern Ontario
	6	3.4	2(r)	Pennsylvania, New York, Eastern Ontario
	7	3.9	9(r)	New York, Eastern Ontario, Northwestern Quebec
Chalk River	3	4.3	8(r)	Georgia, West Virginia, Ohio, Southern Ontario
	7	3.9	5(r)	Southern Quebec, Northwestern Quebec
Sutton	3	3.9	5(r)	South Carolina, North Carolina, Virginia, Pennsylvania, New York
	4	4.1	6(r)	North Carolina, Virginia, Pennsylvania, New York
Montmorency	3	4.0	15(r)	West Virginia, Pennsylvania, New York, Southern Quebec
	4	4.4	2(r)	New Jersey, New York, Southern Quebec
Kejimkujik	3	3.9	3(r)	Virginia, New Jersey, Atlantic Ocean
	4	5.1	15(r)	Atlantic Ocean
	5	4.8	3(r)	Atlantic Ocean
serve german	6	5.0	10(r)	Atlantic Ocean
	7	4.7	3(r)	Atlantic Ocean
	9	5.7	2(r)	Labrador, Gulf St. Lawrence

STATION	TE	TEMPERATURE			PRECIP. WIND MX			D MX	STATION	TEMPERATURE				PRECIP.		WIND MX	
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP	SOC	DIR	SP
BRITISH COLUMBIA									THE PAS	-4P	*	4P	-16P	6P	10	110	52
CAPE ST.JAMES	5P	-10	11P	OP	22F	0	150	85	THOMPSON	-8P	-10	3P	-19P	40	12	050	48
CRANBROOK	4P		18P	-5P	3F		180	63	WINNIPEG INT'L	6P	5P	19P	-7P	OP	0	310	76
FORT NELSON	-10		14P	-11P	2F		300	52	ONTARIO	OI.	31	131		Or	·	310	70
FORT ST.JOHN	3P		15P	-6P	OF	100000000000000000000000000000000000000	240	74	ATIKOKAN	40	49	13P	-6P	OP	٥	140	46
KAMLOOPS	8P		20P	-5P	OF		100	59	BIG TROUT LAKE	-49					0	140	46
PENTICTON	7P		19P	-5P	5F		180	76	GORE BAY		*	7P	-16P	19	8	100	74
	6P									5P	40	13P	-4P	27P	0	020	37
PORT HARDY			13P	0P	37F		120	74	KAPUSKASING	1P	4P	11P	-129	20P	21	320	43
PRINCE GEORGE	3P		15P	-7P	8F	A CONTRACTOR OF THE PARTY OF TH	170	70	KENORA	5P	5P	14P	-5P	OP	1	130	56
PRINCE RUPERT	5P	OP	10P	-1P	50F		170	74	KINGSTON	6P	4P	20P	OP	0P	0		X
REVELSTOKE	49		16P	-4P	25F		160	50	LONDON	7P	49	20P	-19	5P	0	360	52
SMITHERS	3P		10P	-6P	4		300	83	MOOSONEE	-3P	4P	10P	-16P	31P	14		*
VANCOUVER INT'L	7P	D. Control	149	12	446		250	48	NORTH BAY	4P	5P	18P	-6P	19P	0	350	52
VICTORIA INT'L	7P	-	17P	OP	38F	0	240	52	OTTAWA INT'L	6P	49	15P	-1P	8P	0		X
WILLIAMS LAKE	3P	*	15P	-6P	16	0		X	PETAWAWA	5P	6P	14P	-3P	5P	0		X
YUKON TERRITORY									PICKLE LAKE	OP	4P	11P	-7P	19	29	150	57
DAWSON	*	*	*	*	18	48		*	RED LAKE	2P	3P	10P	-5P	4P	1	120	65
MAYO	19	3P	89	-6P	OF	16		X	SUDBURY	40	5P	13P	-7P	7P	0	VA. 200	X
SHINGLE POINT A	-26P	-5P	-19P	-32P	19			*	THUNDER BAY	49	49	13P	-4P	19	0	320	46
WATSON LAKE	-3P	-10		-20P	16		260	65	TIMMINS	19	5P	12P	-12P	22P	24	330	35
WHITEHORSE	-10			-13P	19		150	69	TORONTO INT'L	7P	4P	16P	-10	10	0	350	59
NORTHWEST TERRITO			3,	2		25	20	03	TRENTON	7P	40	18P	-2P	3P	0	330	X
ALERT	-28P	20	_170	-35P	119		250	80	WIARTON	5P	40	15P			1		
BAKER LAKE	-23P			-29P					WINDSOR				-2P	7P	0	250	X
CAMBRIDGE BAY					*		100	52		8P	3b	24P	-12	15P	0	360	69
	-22P	3P		-37P	2P		140	65	QUEBEC					-			
CAPE DYER	-20P	-3P		-30P	1P		300	80	BAGOTVILLE	3P	4P	8P	-2P	6P	2	100	44
CLYDE	-21P	-10		-29P	18		310	56	BLANC SABLON	12	*	6P	-4P	12	0		X
COPPERMINE	-16P	*		-28P	119		130	48	INUKJUAK	-13P	2P	2P	-26P	10P	55	030	72
CORAL HARBOUR	-18P		-10P		19			X	KUUUUAQ	-10P	29	3P	-21P	13P	33	010	44
EUREKA	-27P	5P	-16P	-41P	119		170	76	KUUUUARAPIK	-7P	5P	7P	-22P	11P	23	110	50
FORT SMITH	-7P	-12	49	-17P	3P	34		X	MANIWAKI	5P	49	16P	-3P	15P	0	340	37
IQALUIT	-20P		-13P	-27P	2P	48	340	52	MONT JOLI	1P	10	5P	-4P	3P	0	040	56
HALL BEACH	-26P	-2P	-10P	-36P	19	35	310	43	MONTREAL INT'L	7P	40	18P	-2P	19	0	050	43
INUVIK	-23P	-5P	-12P	-29P	40	46		X	NATASHQUAN	2P	3P	89	-5P	2P	23	040	72
MOULD BAY	-20P	7P	-14P		2P			X	QUEBEC	3P	2P	9P	-2P	OP	15	080	63
NORMAN WELLS	-14P	-3P		-27P	OP			Y	SCHEFFERVILLE	-5P	5P	4P	-19P	17P	82	200	52
RESOLUTE	-23P		-13P		19	The Control of the Co	180	69	SEPT-ILES	2P	4P	8P	-3P	5P	0	070	48
							100	Y	SHERBROOKE	7P	8P	17P	10	2P	0	330	37
YELLOWKNIFE	-10P	10	OP	-18P	5P	*	060	44	VAL DOR	OP	3P	11P	-11P	11P	1	140	46
ALBERTA	-101		Or	-101	Jr		000		NEW BRUNSWICK	UP	JP	185	-112	111		HO	40
CALGARY INT'L	49	2P	22P	-6P	OP	•	270	70		20	40	400	40	400	^	120	
COLD LAKE	3P	20	18P				270		CHARLO	2P	4P	10P	-4P	19P	9	130	44
CORONATION		The second secon		-4P	4P		280	57	CHATHAM	2P	19	5P	-1P	24P	*	070	74
	6P	49	20P	-6P	OP			*	FREDERICTON	4P	2P	10P	19	49	0	020	72
EDMONTON NAMAO	5P	3P	20P	-4P	OP		290	67	MONCTON	2P	1P	10P	-19	54P	8	030	85
FORT MCMURRAY	-IP	-1P	16P	-13P	39			X	SAINT JOHN	3P	19	8P	OP	15P	- 1	020	76
HIGH LEVEL	-29	-12	15P	-14P	5P			*	NOVA SCOTIA								
JASPER	3P	-1P	17P	-8P	OP			X	GREENWOOD	49	10	10P	12	13P	0	040	70
LETHBRIDGE	5P	10	22P	-8P	OP	0	250	96	SHEARWATER	4P	10	10P	10	50P	0	070	67
MEDICINE HAT	7P	29	23P	-8P	OP	0	250	78	SYDNEY	1P	OP	8P	-2P	77P	0	080	56
PEACE RIVER	4P	3P	19P	-6P	19	0	270	56	YARMOUTH	5P	2P	12P	2P	14P	0	010	85
SASKATCHEWAN									PRINCE EDWARD ISLAND								
CREE LAKE	-11P	-7P	5P	-23P	15P	48	060	50	CHARLOTTETOWN	2P	12	9P	-10	24P	1	030	56
ESTEVAN	7P	5P	23P	-5P	3P		330	93	SUMMERSIDE	2P	10	8P	_10	35P	*	040	78
LA RONGE	-5P	-3P	3P	-16P	13P		090	54	NEWFOUNDLAND	21		Or		334	•	040	70
REGINA	6P	49	19P	-7P	6P		290	74	CARTWRIGHT	19	49	9P	-3P	100	165	030	56
SASKATOON	6P	49												12P			
SWIFT CURRENT	950		18P	-5P	OP		330	67	CHURCHILL FALLS	-1P	99	11P	-9P	4P	88	060	52
	6P	3P	20P	-6P	OP	00 00 Week	000	X	GANDER INT'L	12	10	6P	-4P	13P	3	030	69
YORKTON	3P	3P	17P	-7P	27P	1	330	54	G00SE	2P	5P	14P	-4P	3P	30	040	56
MANITOBA	* * * * * * * * * * * * * * * * * * * *		(0.0000000000		- Parkey C				PORT-AUX-BASQUES	4P	49	10P	-3P	12P	*	050	98
BRANDON	5P	5P	21P	-8P	OP		300	67	ST JOH N' S	10	OP	3P	-3P	5P	0	080	56
CHURCHILL	-16P	-2P		-24P	2P		060	63	ST LAWRENCE	4P	4P	9P	-2P	31P	0		X
LYNN LAKE	-12P	-5P	-5P	-22P	2P	63	270	41	WABUSH LAKE	-3P	6P	9P	-12P	7P	34	050	46
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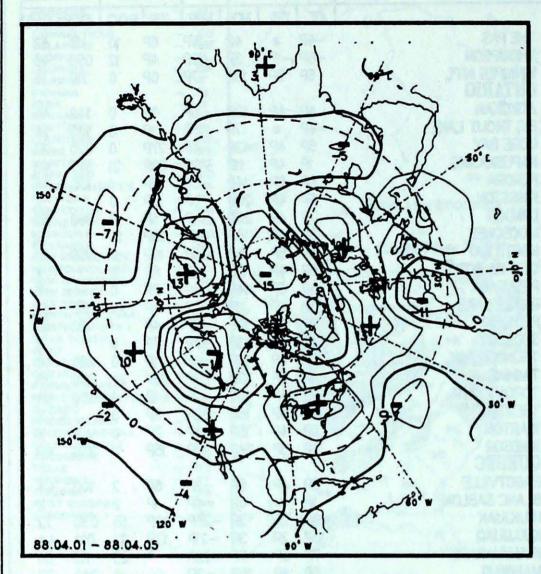
MX = weekly extreme maximum temperature in degree C
MN = weekly extreme minimum temperature in degree C
TP = weekly total precipitation in mm
DP = departure of mean temperature from normal in degree C
P = value based on less than 7 days

SOG = snow depth on ground in cm, last day of the period

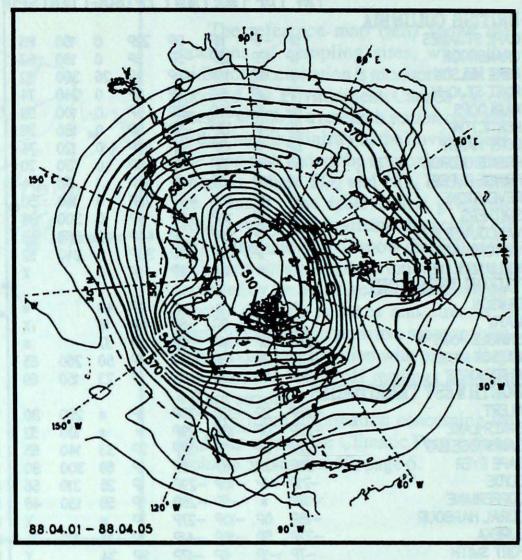
SPD = maximum wind speed in km/hour

* = missing

50 kPa ATMOSPHERIC CIRCULATION



Mean geopotential heights anomaly 50 kPa level (5 decameter intervals)



Mean geopotential height 50 kPa level (5 decameter intervals)

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