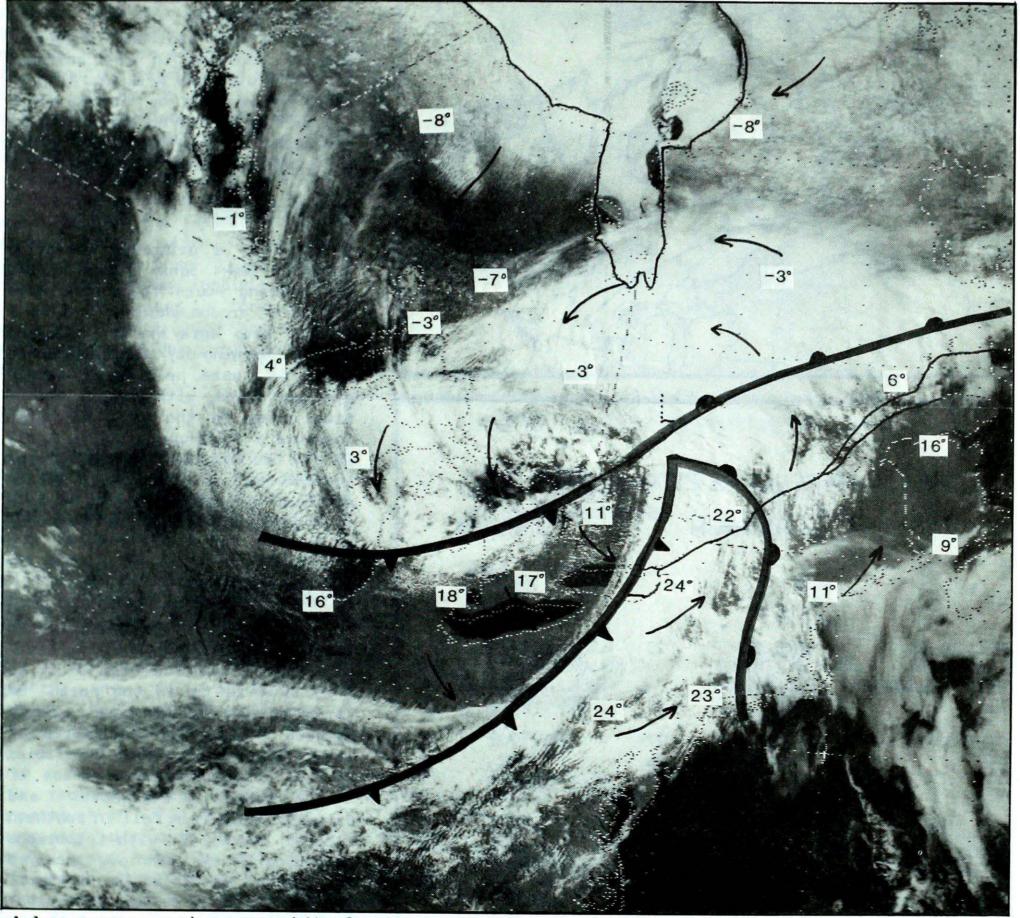
Climatic Perspectives

A weekly review of Canadian climate

April 29 to May 5, 1986

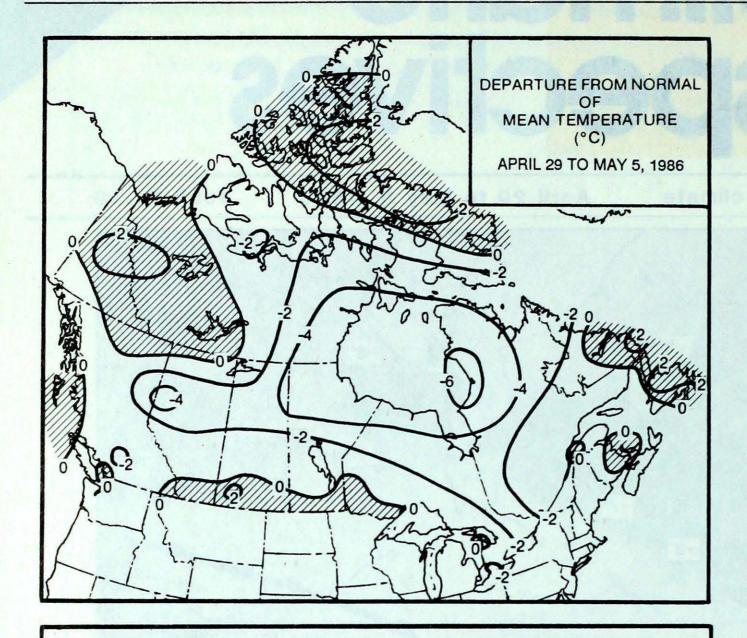
Vol.8 No.18



A low pressure system crossed the Great Lakes Basin on May 1, 1986. At the time this NOAA 9 image was received heavy snow was falling in northeastern Ontario. The Maritime cold front crossing Lake Ontario is very well defined, with clearing skies to the west. Leads of open water have developed along the eastern shore of Hudson Bay.

- Latest spring frost ever in Vancouver
- Cool, damp weather for Expo 86 opening
- Rain turns fields to gumbo in Eastern Prairies

Canada



WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA	PRINCE GEORGE	23	PUNTZI MOUNTAIN	-9
YUKON TERRITORY	DAWSON	15	KOMAKUK BEACH A	-18
NORTHWEST TERRITORIES	FORT SIMPSON	14	SHEPHERD BAY A	-29
ALBERTA	MEDICINE HAT	25	GRANDE PRAIRIE	-8
ALDEGIA	MILDICINE TIAT	23	ONANDE I NAINIE	
SASKATCHEWAN	ESTEVAN	27	CREE LAKE	-15
MANITOBA	PILOT MOUND	25	CHURCHILL	-18
	WINDSOR	28	BIG TROUT LAKE	-13
ONTARIO				
QUEBEC	SHERBROOKE	28	INUKJUAK	-18
NEW BRUNSWICK	CHATHAM	24	CHARLO	-4
NOVA SCOTIA	GREENWOOD	20	GREENWOOD	-4
PRINCE EDWARD ISLAND	SUMMERSIDE	18	CHARLOTTETOWN	-2
NEWFOUNDLAND	COMFORT COVE	20	WABUSH LAKE	-10
MENTOUNDLAND	COMI OK I COVE	20	#ADOSH LAKE	-10

ACROSS THE NATION

WARMEST MEAN TEMPERATURE	12	WINDSOR	ONT
COOLEST MEAN TEMPERATURE	-20	SHEPHERD BAY	ANWT

ACROSS THE COUNTRY ...

Yukon and Northwest Territories

Warmer weather this week depleted most of the snow cover in the southern and central Yukon. In northern regions, the thaw is just beginning. Temperatures in the Territories moderated through the period, climbing to the double digits in more southern locations. Showers occurred in the southern Mackenzie over the weekend. A snowstorm accompanied by strong winds hit Baffin Island on May 4 and 5. Snowfalls at some locations along the east coast exceeded 50 cm.

British Columbia

It was a primarily unsettled and cool week. Sunny breaks during the morning hours frequently gave way to afternoon showers, and as a result, crop spraying was delayed. May 2, opening-day festivities at Expo '86, were held under mainly overcast skies, with showers occurring later in the day. Vancouver received a dusting of snow on April 29. On the morning of April 30, the thermometer at Vancouver International Airport registered -0.5°C; the latest spring frost ever recorded.

Prairie Provinces

It was cool and unsettled in the west, cold and wet in the east. Snowstorms deposited from 5 cm to more than 20 cm in the north. On April 30, the Dauphin area received between 15 and 25 centimetres of snow. Rain showers were beneficial in the drought stricken areas of southwestern Saskatchewan and Alberta Heavy rain fell in southern Alberta on May 4, with Lethbridge recording 27 mm. Winnipeg received 44.1 mm of precipitation on April 30, setting a new 24-hour precipitation record for the month of April. In southern Manitoba, soil moisture is up to capacity, and in some communities is excessive. At least two weeks of warm, dry weather are required before seeding operations can get fully underway. In Saskatchewan, pre-seeding field work and seeding continues to be slow, do to the poor weather conditions of late.

Ontario

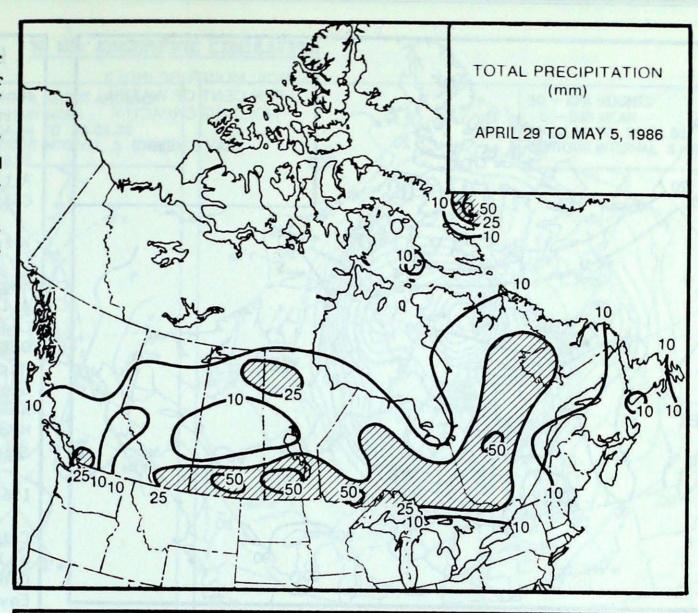
A strengthening weather system, tracking across the upper Great Lakes during the middle of the week, gave a mixture of snow and rain to the northern half of the province. In its wake, cold and blustery weather conditions affected the province, as an Arctic high pressure cell swept southwards just before the weekend. Ten centimetres of snow fell at Timmins on April 24. Overnight readings in southern Ontario on May 2 and 3, plunged well below freezing. In some unprotected areas, frost damaged early emerging vegetable crops such as asparagus, and occurred just as fruit trees were beginning to blos-During the weekend, very strong westerly winds, frequently gusting to more than 70 km/h, disrupted opening day festivities at Canada's Wonderland, a theme park north of Toronto; high speed and wind-sensitive rides had to be shut down.

Quebec

Unseasonably warm weather gave way to a much colder and windy regime by the weekend. During the first part of the period, fourteen daily maximum temperature records were broken. On April 28 and 29, Val d'Or and Chibougamau established new high temperature records for the month, 28°C and 26°C, respectively. A cold frontal passage on May 2 was associated with rain showers. Snow fell across the northern half of the province. Between May 2 and 4, twenty five new daily low temperature records were established. On May 2, Val d'Or recorded a new monthly low temperature of -3°C. Strong winds, associated with this Arctic out-Chibougamau. At Abitibi, the strong sparse this week, allowing soggy power failures. Three small forest fires were reported burning in the province.

Atlantic Provinces

Cloudy and mild weather conditions continued well into this week. Showers preceded the arrival of a cold front on May 2, after



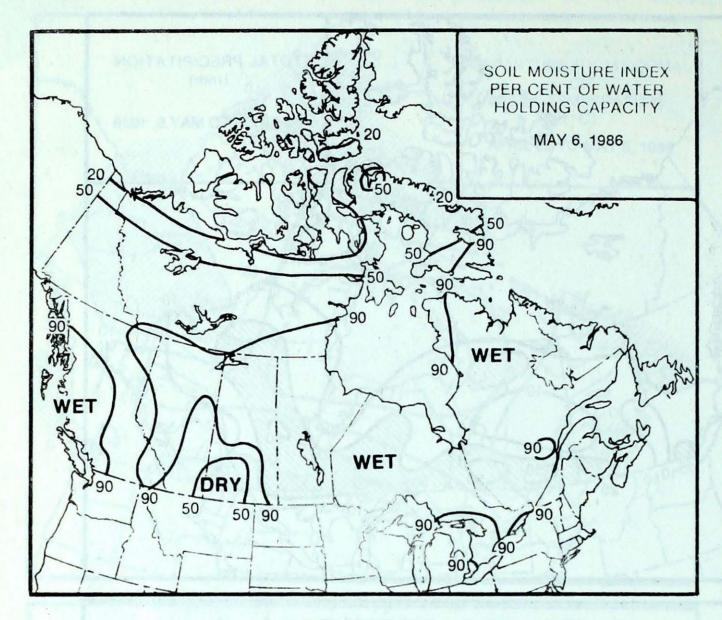
HEAVIEST WEEKL	Y PRECIPITATION (mr	n)
BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORI ALBERTA	HOPE OGILVIE ES CAPE DYER LETHBRIDGE	31 3 55 35
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	REGINA PORTAGE LA PRAIRIE ATIKOKAN CHIBOUGAMAU	61 68 53 52
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	FREDERICTON SHEARWATER CHARLOTTETOWN WABUSH LAKE	5 8 4 29

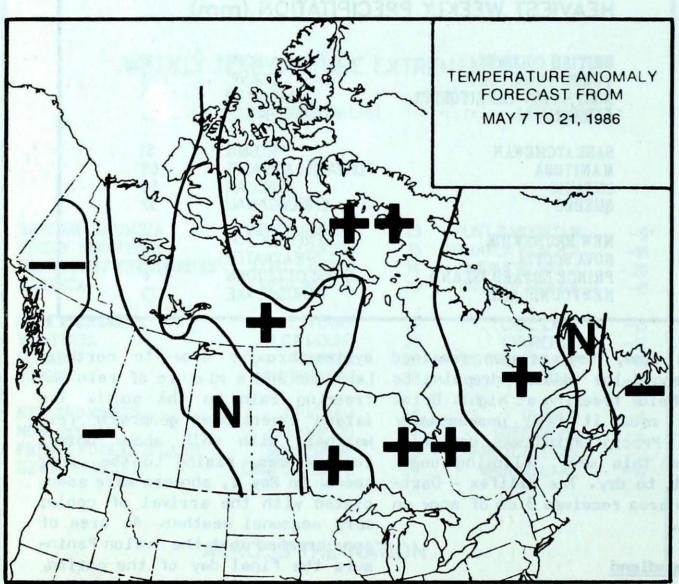
which time, temperatures remained at record low values, dropping to well below freezing at night. Brisk winds made it feel unseasonably break, gusted to 100 km/h near cold Precipitation was unusually winds downed hydro lines, causing fields to dry. The Halifax - Dartmouth area received 3 cm of snow on May 4.

Newfoundland

A series of disturbances affected Labrador this week, giving generally unsettled weather conditions. During the early part of the weekend, a slow moving weather

system brought snow to northern Labrador and a mixture of rain and freezing rain to the south. The Island experienced generally fair weather, with well above normal temperatures, rising to the upper teens. On May 2, showers were associated with the arrival of cooler more seasonal weather. An area of snow brushed past the Avalon Peninsula the final day of the period, while the rest of the province enjoyed some sun.





- much above normal
- above normal
- normal
- below normal
- much below normal

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

CLIMATIC PERSPECTIVES VOLUME 8

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ISSN 0225-5707 UDC 551.506.1(71)

Climatic Perspectives is a weekly bilingual publication of Canadian Climate Centre, Atmospheric Environment Service, 4905 Dufferin St., Downsview, Ont. Canada M3H 5T4. (416)667-4906/4711.

The purpose of the publication to make topical information available to the public concerning the Canadian Climate and its socioeconomic 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 shown 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

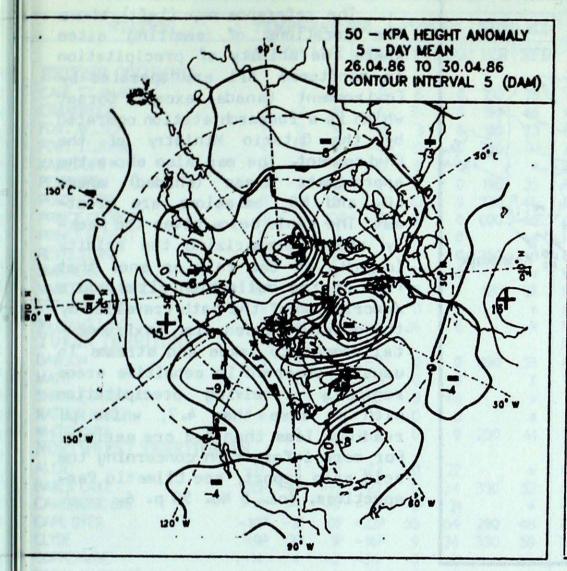
Annual Subscriptions

Weekly issue including monthly supplement: Monthly issue only:

\$35.00 \$10.00

Subscription enquiries: Supply and Services Canada, Publishing Centre, Ottawa, Ontario, Canada, KIA OS9. Phone (613)994-1495

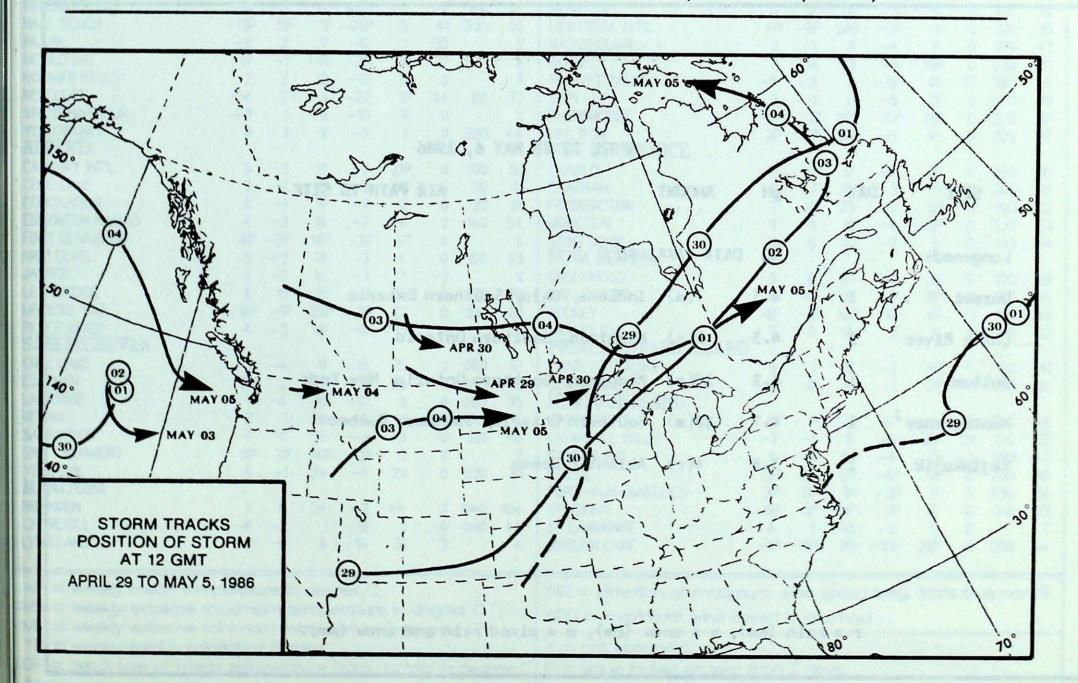
50 KPa ATMOSPHERIC CIRCULATION



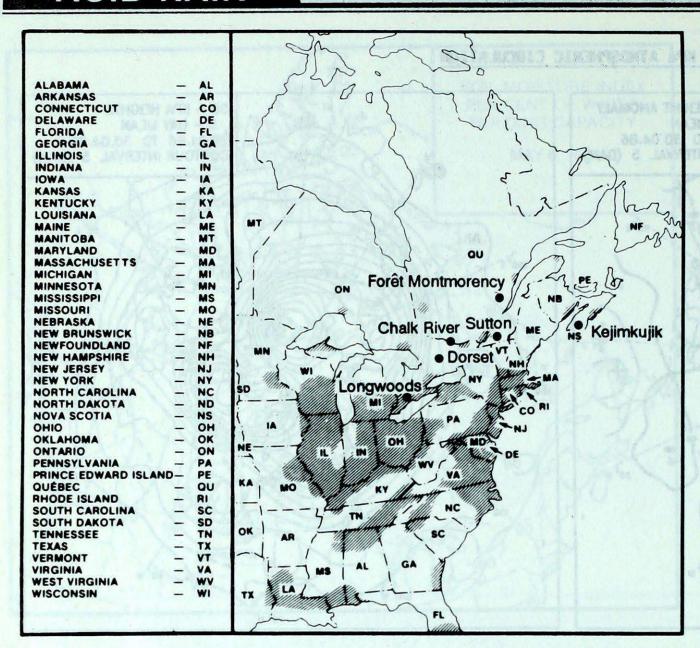
50 - KPA HEIGHTS
5 - DAY MEAN
26.04.86 TO 30.04.86
CONTOUR INTERVAL 5 (DAM)

MEAN 50 KPa HEIGHT ANOMALY (dam) April 26 to April 30, 1986

MEAN 50 KPa HEIGHTS (dam) April 26 to April 30, 1986



ACID RAIN



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 50, and NO, emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the 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 less than 4.7, while pH readings less than 4.0 are serious. For more information concerning the acid rain report, see Climatic Perspectives, Vol. 5 No. 50 p. 6.

APRIL 27 TO MAY 6, 1986

SITE	DAY	pH AMOUNT	AIR PATH TO SITE
Longwoods		NO DATA AVA	ILABLE
Dorset	1	4.3 7(m)	Indiana, Ohio, Southern Ontario
Chalk River	1	4.3 9(r)	Michigan, Southern Ontario
Sutton	1	4.2 10(r)	Michigan, Southern Ontario, New York
Montmorency	1	4.7 28(m)	Southern Ontario, Southern Quebec
Kejimkujik	1	3.8 4(r)	Atlantic Ocean

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

STATISTICS

STATION	TEMPERATURE		PRECIP.		WIN	D MX	STATION		TEMPERATURE				CIP.	WIND MX			
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP :	SOG	DIR	SP
BRITISH COLUMBIA									THE PAS	1	*	11	-10	1P	0	140	44
APE ST.JAMES	8	1	13	3	6	0	100	78	THOMPSON	-1	-4	9	-13	16	Ö	050	41
RANBROOK	7	-2	18	-4	21	0	190	46	WINNIPEG INT'L	8	1	23	-3	50			
ORT NELSON	6	0	16	-2	3	0	150	33	ONTARIO			23	-3	50	0	070	67
ORT STJOHN	4	-3	14	4	10	ő	360	41	ATIKOKAN	-		24		50	T.		
AMLOOPS	10	-1	18	-2	8		300			7	1	24	-6	53	0	360	44
ENTICTON	10				1	0	100	*	BIG TROUT LAKE	-2	*	10	-13	26	2	040	43
	9	-2	19	-4	6	0	190	35	GORE BAY	7	0	20	-2	5	0	300	74
ORT HARDY	8	0	15	-1	13	0	130	46	KAPUSKASING	3	-2	22	-10	29	0	310	6
RINCE GEORGE	7P	*	23P	-3P	3P	0	090	46	KENORA	8	1	26	-3	31	0	090	50
RINCE RUPERT	8	1	15	-1	0	0		*	KINGSTON	7P	-2P	17P	-2P	6	0		X
EVELSTOKE	8	-2	19	-1	14P	0	350	46	LONDON	7P	-3P	18P	-2P	5	0	310	80
MITHERS	7	0	17	-3	5P	0		*	MOOSONEE	1P	-1P	24P	-10P	9P	0	340	70
ANCOUVER INT'L	10P	OP	17P	2P	26	0	120	37	NORTH BAY	5	-2	17	-6	30P	0	340	56
ICTORIA INT'L	9	-1	16	-1	11	0		*	OTTAWA INT'L	9	0	25	-3	20P	0	340	
ILLIAMS LAKE	5	*	13	-6	24	0		X	PETAWAWA	7	-1	23					X
UKON TERRITORY			19	- 10	21			^	PICKLE LAKE	20			-8	33P	0		X
AWSON	5	*	15	-9	0	0	000	27		3P	OP	14P	-10P	18P	0	090	48
AYO	7					0	090	37	RED LAKE	6	0	24	-4	6	0	080	52
	,	2	15	-3	0	0		X	SUDBURY	7P	OP	17P	-5P	21	0)
HINGLE POINT A	-9	0	-4	-16	0	48		*	THUNDER BAY	7	1	19	-2	31	0	150	72
ATSON LAKE	4	0	13	-5	0	0		*	TIMMINS	4	-2	22	-9	38	2	330	56
HITEHORSE	4	0	12	-5	0	0	230	41	TORONTO INT'L	9	0	25	-3	2P	0	270	72
ORTHWEST TERRITOR	IES								TRENTON	9	-1	23	-3	7P	0	2,0	X
ERT	-17	-1	-11	-23	0	22		*	WIARTON	8	0	23	-2	3	ő		
KER LAKE	-15P	-4P	-7P	-22	0	34	330	52	WINDSOR	12	0					~~~	X
AMBRIDGE BAY	-16	-1	-9	-22	1P	21	330	*	QUEBEC	12	V	28	0	8	0	270	8
APE DYER	-10P	-1P					200	4 (1)									
YDE				-22P	55	154	290	48	BAGOTVILLE	6	0	22	-6	9	0	280	6
	-9P	3P	1P	-16P	9	34	330	59	BLANC SABLON	1P	*	8P	-6P	9	0		X
PPERMINE	-14	*	-2	-24	0	41		*	INUKJUAK	-11	-6	-3	-18	2P	26	040	59
RAL HARBOUR	-15	-4	-7	-23	0P	19		X	KUUJJUAQ	-7	-4	1	-15	13	55	030	74
REKA	-15	2	-8	-22	0	15	290	61	KUUJJUARAPIK	-7	-4	10	-14	16P	0	020	63
RT SMITH	4	1	13	-5	OP	0		X	MANIWAKI	8	o	27	-6	30P	0	260	46
OBISHER BAY	-10	-3	4	-23	8	34	140	67	MONT JOLI	5	Ö	20	-3		100 (000)		
LL BEACH	-13P	OP		-26P	3	41	330	56	MONTREAL INT'L	8P				4	0	240	59
N K	-5	2	7	-12	1	32	220	C C C C C C C C C C C C C C C C C C C			-2P	24P	-3P	14	0	270	70
OULD BAY	-17	1	-11		1P			X	NATASHQUAN	2	-1	8	-4	11	0	270	43
RMAN WELLS				-25		27		X	QUEBEC	- 1	0	23	-5	19P	0	230	100
	2	2	13	-10	0	8		X	SCHEFFERVILLE	-5	-3	5	-16	41	37	250	56
SOLUTE	-14	2	-3	-22	1P	34	110	72	SEPT-ILES	2	-1	8	-5	21	0	080	70
CHS HARBOUR	-11	1	-6	-18	1P	11		X	SHERBROOKE	9P	1P	28P	-5P	13P	0	270	87
LLOWKNIFE	0	1	9	-9	1	0	320	44	VAL D'OR	2P	-3P	26P	-9	41	0	320	67
BERTA									NEW BRUNSWICK						ŭ	520	0,
LGARY INT'L	6	-1	19	-5	21P	0	180	57	CHARLO	4	0	17	-1	2P	0	200	50
LD LAKE	5	-2	18	-3	11P	O	110	41	CHATHAM	7	1		-4		0	280	50
RONATION	6	-1	19	-7	2	0	120	61	FREDERICTON	4		24	-3	2P	0	290	48
MONTON NAMAO	1	-3	16	-7				The State of the Land of the L		1	0	23	-2	5P	0	190	52
RT MCMURRAY	40				4	0	140	54	MONCTON	6	0	19	-4	3P	0	230	59
SH LEVEL	4P	-2P	14P	-3P	4P	0		X	SAINT JOHN	6	0	20	-2	5	0	190	50
	5	-2	14	-3	4	0	150	33	NOVA SCOTIA								
SPER	4	-2	16	-3	7	0		X	GREENWOOD	8	0	20	-4	3P	0	270	70
THBRIDGE	8	0	21	-2	35	0	270	65	SHEARWATER	5	-1	16	-2	8P	0	270	54
DICINE HAT	8P	-1P	25P	-3P	22	0	180	48	SYDNEY	4P	-1P	10P	-4P	6P	0	190	43
ACE RIVER	4	-3	14	-4	15	0		*	YARMOUTH	7							
SKATCHEWAN					2	•		T	PRINCE EDWARD ISLAND	, ,	0	14	2	6	0	190	52
EE LAKE	-1	-4	9	-15	15	0	060	57				100					
TEVAN						a Section III	060	57	CHARLOTTETOWN	6	1	17	-2	4P	0	160	41
	10	2	27	-3	25		060	78	SUMMERSIDE	6	0	18	-1	2P	0	160	52
RONGE	1	-4	10	-10	9		080	35	NEWFOUNDLAND								
GINA	8	1	26	-5	61	0	010	74	CARTWRIGHT	1P	1P	13P	-8P	10	12	200	48
SKATOON	7	0	25	-3	3	0	150	46	CHURCHILL FALLS	-1	-1	6	-9	28	31	120	52
IFT CURRENT	9P	2P	24P	-3P	3	0		X	GANDER INT'L	6	3	18	-4	7P	0	180	46
RKTON	6	-1	24	-5	29		020	81	GOOSE								
ANITOBA			41	•	23	V	VZ0			3P	OP OP	12P	-4P	13		230	46
ANDON	7	0	24	-	64		040		PORT-AUX-BASQUES	3P	0P	9P	-2P	11		080	56
URCHILL	′	0	24	-2	64			104	ST JOHN'S	6P	3P	18P	-3P	10	0	010	63
	-8	-2	1	-18	1		060		ST LAWRENCE	4	1	10	-3	5	0		X
IN LAKE	-2	-5	8	-14	31	3		*	WABUSH LAKE	-1P	00		-10P	000	-	060	

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

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

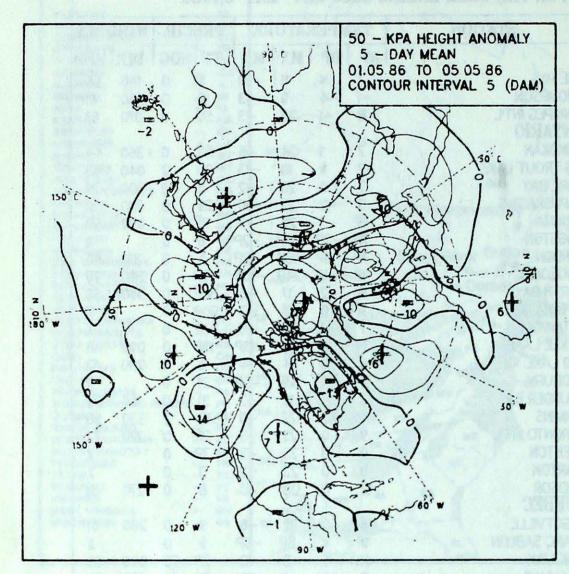
DIR = direction of maximum wind speed (deg. from true north) SPD = maximum wind speed in km/hour

X = not observed

P =value based on less than 7 days

* = missing

50 KPa ATMOSPHERIC CIRCULATION



50 - KPA HEIGHTS
5 - DAY MEAN
01.05.86 TO 05.05.86
CONTOUR INTERVAL 5 (DAM)

MEAN 50 KPa HEIGHT ANOMALY (dam) May 1 to May 5, 1986

MEAN 50 KPa HEIGHTS (dam) May 1 to May 5, 1986

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