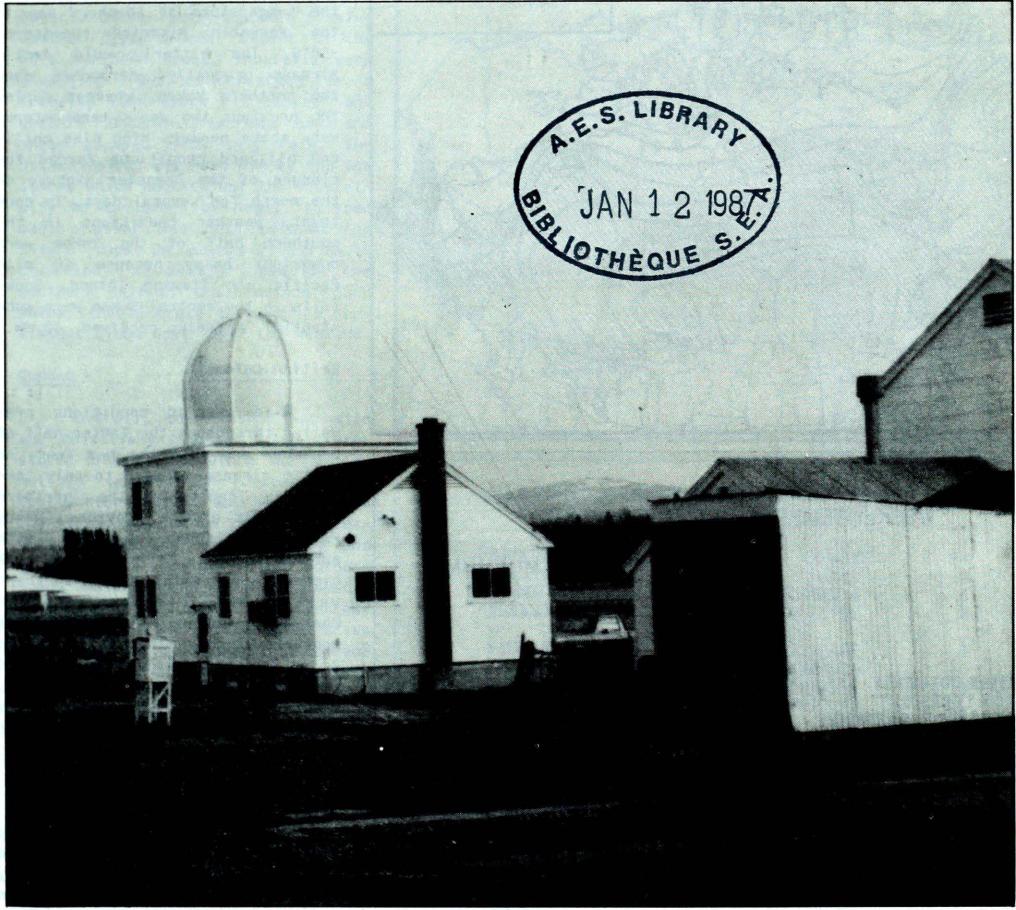
Cimalic Canada Perspectives

A weekly review of Canadian climate

December 30,1986 to January 5,1987

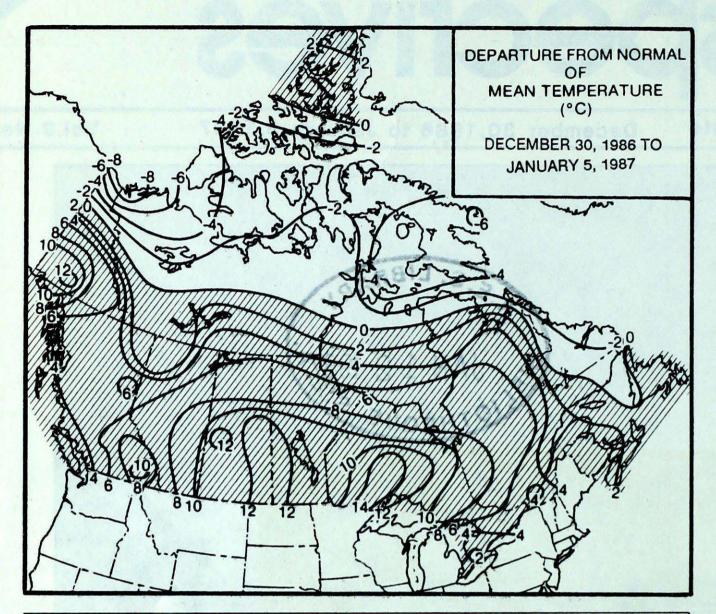
Vol.9 No.1



This soon to be dismantled Prince George upper air station was originally built in 1943. The station was opened along with a network of many others during World War II, when it was realized that upper level winds play an important role in controlling our weather, and the subsequent success of bombing missions. For more information see pages 3 and 9.

- Mild weather conditions across much of Canada
- Christmas ice storm paralyses the Ottawa Valley





WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA	LAWN POINT	12	FORT NELSON -29
YUKON TERRITORY	WHITEHORSE	3	SHINGLE POINT A -40
NORTHWEST TERRITORIE	S FORT SMITH	-8	SHEPHERD BAY A -50
ALBERTA	LETHBRIDGE	9	HIGH LEVEL -27
SASKATCHEWAN	ESTEVAN	6	URANIUM CITY -27
MANITOBA	DAUPHIN	5	CHURCHILL -33
ONTARIO	TORONTO INT'L	4	WINISK -28
QUEBEC	MONTREAL INT'L	- 1	LA GRANDE RIVIERE -33
NEW BRUNSWICK	MONCTON	4	CHATHAM -18
NOVA SCOTIA	SABLE ISLAND	8	SHELBURNE -14
PRINCE EDWARD ISLAND	CHARLOTTETOWN	3	SUMMERSIDE -8
NEWFOUNDLAND	ST JOHN'S	4	WABUSH LAKE -34

ACROSS THE NATION

WARMEST MEAN TEMPERATURE	6	CAPE ST.JAMES	BC
COOLEST MEAN TEMPERATURE	-38	MOULD BAY	NWT

ACROSS THE COUNTRY...

Yukon and Northwest Territories

Minimum temperatures in the minus forties were common place throughout the Arctic. On January 3, the temperature at Shepherd Bay in the Keewatin District registered -50°C. The bitterly cold Arctic airmass gradually encroached upon the northern Yukon, whereas during the previous two weeks temperatures were above normal. High wind chills and blizzard conditions forced the closure of the Dempster Highway to the north for several days. In contrast, weather conditions in the southern half of the Yukon were downright balmy because of mild Pacific air flowing inland. Snowfalls in the central Yukon were substantial. Klondike received 40 cm.

British Columbia

Mild weather conditions prevailed throughout the latter half of December and into the New Year. An Arctic airmass managed to only temporarily penetrate the northern extremities of the province. Heavy rains fell along the coast, with substantial snowfalls reported at higher elevations. Most southern valleys experienced a green Christmas. A damaging wind storm hit southern Vancouver Island on January 2. At Victoria, winds were clocked gusting up to 117 km/h at Gonzales, trees were blown over onto houses and cars, and there were many power outages.

Prairies

Unusually warm and relatively weather conditions prevailed throughout most of the holiday period. Temperatures in the southern agricultural districts, where little or no snow remains, climbed well above freezing this past week. A number of new daily high temperature records were set during each of the last three weeks. In Alberta, it was a mostly sunny three-week period. Southern areas of Saskatchewan and Manitoba had some light snowfalls. Freezing rain fell on December 30. Snowfalls in more northern districts were more substantial.

Ontario

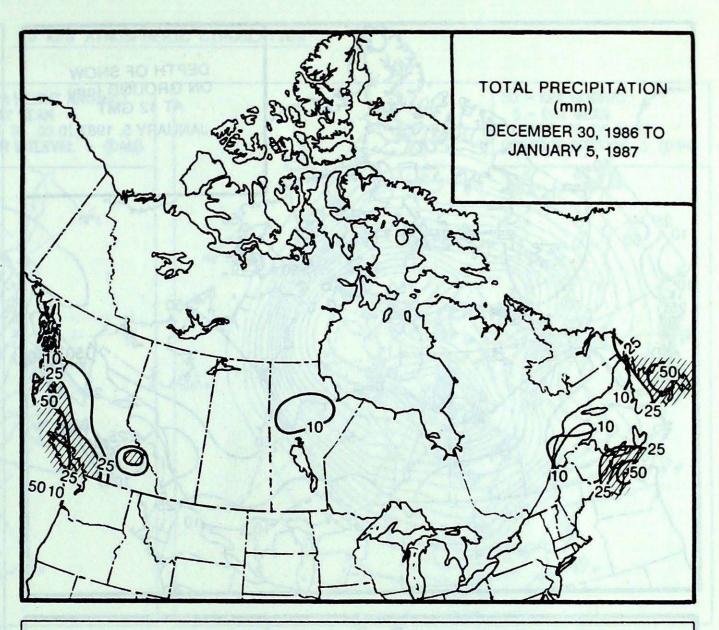
Although it was mild, overcast conditions plaqued most of southern and central Ontario since well before Christmas, especially near the Great Lakes. In contrast, areas in northern Ontario became sunny between passing weather disturbances. Except in the more northern areas, snowfalls were unusually light. On Christmas Eve, a freezing rain storm hit central and eastern Ontario. Extreme southern areas escaped with only rain. The Ottawa Valley was hard hit by the ice storm, which knocked out the electricity to thousands of homes. In some cases, power was not restored for several days. On January 2, a 5 to 15 centimetre snowfall covered the southern half of the province. Sunshine finally broke through the persistant cloud cover over the weekend.

Quebec

Overall, the weather was mild and relatively pleasant. Two winter storms hit the province during the holiday period. On December 25, southwestern Quebec was struck by an ice storm, with up to 30 mm of freezing rain falling in the Ottawa and St. Lawrence Valleys. The outdoor scene Christmas Day was rather mystical, but at the same time distressing, as hundreds of ice laden trees pulled down hydro and telephone lines, isolating thousands of residents. On January 2 and 3, another storm moving up the east coast dumped 10 to 20 centimetres of snow on the Gaspé and the Eastern Townships.

Atlantic

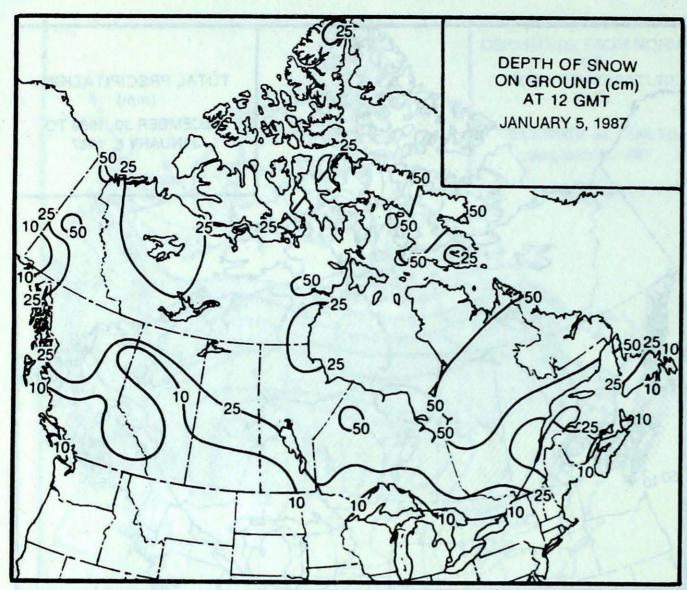
On New Year's Eve a storm dumped 15 to 20 centimetres of snow on the Avalon Peninsula and parts of Nova Scotia, slowing down the festivities. Winds gusting over 100 km/h and unusually high tides in the Bay of Fundy and Minas Basin, battered some shore front properties. A section of wharf at Harbourville, Nova Scotia, was damaged during the storm. Another slow moving storm affected the region over the weekend. Some areas in New Brunswick received more than 20 cm of snow on January 2, while Newfoundland received a mixture of rain, freezing rain and snow.

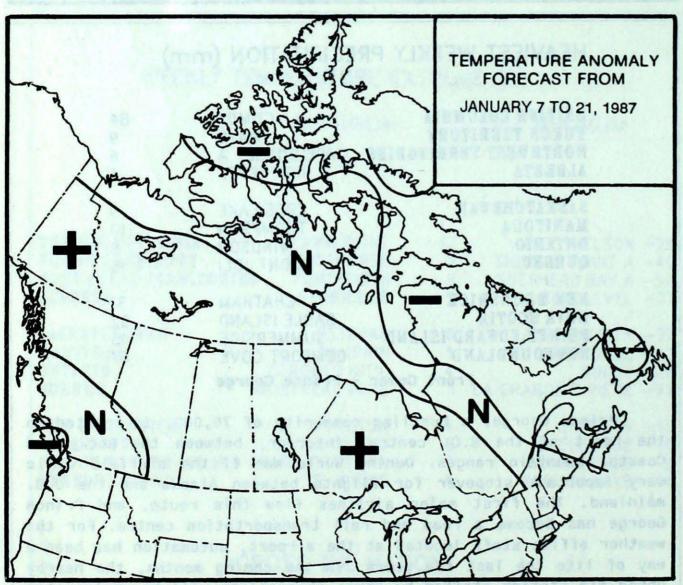


HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	COMOX MAYO CAPE DORSET A HIGH LEVEL	84 9 6 6
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	CREE LAKE THOMPSON WINDSOR MONT JOLI	9 10 9 15
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	CHATHAM SABLE ISLAND SUMMERSIDE COMFORT COVE	31 82 15 67
Front Cover	- Prince George	

Prince George, a bustling community of 70,000, is located in the heart of the B.C. central interior, between the Rocky and Coastal mountain ranges. During World War II the airfield was a very important stopover for flights between Alaska and the U.S. mainland. The first major airlines flew this route, and Prince George has become a road and rail transportation centre. For the weather office staff located at the airport, automation has been a way of life the last few years. In the coming months, the nearby upper air station staffed by three specialists will be amalgamated with the weather office, which has been equipped with the latest up-to-date radiosonde sounding equipment. Two years ago the weather office was the first station in B.C. to have access to relayed satellite pictures from the Pacific Weather Centre. Prince George is also one of seven stations testing a new experimental satellite communications network for A.E.S. called METSIS.





Temperature Anomaly Forecast

- ++ much above normal
- + above normal
- N 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 9

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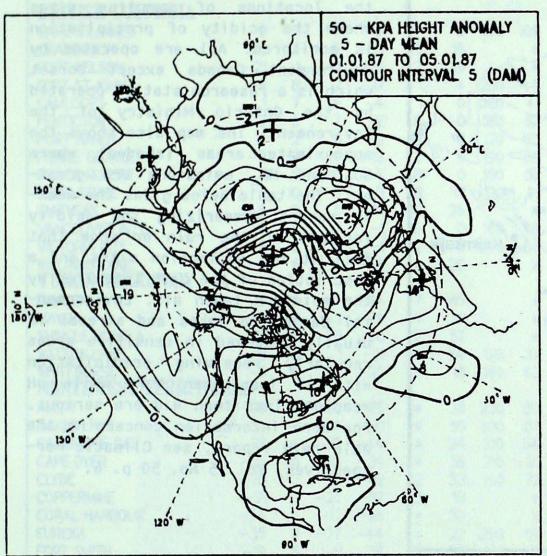
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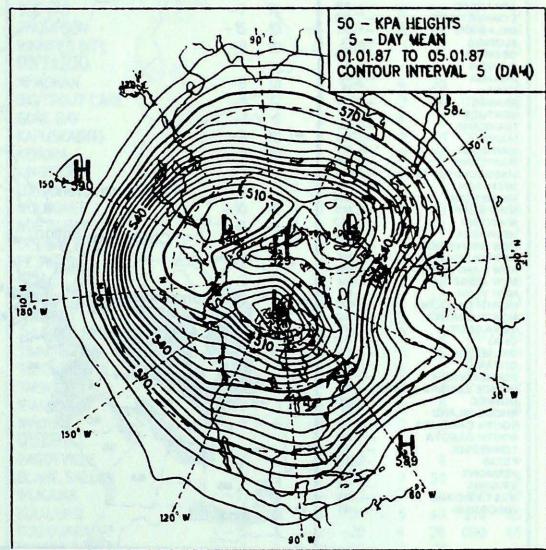
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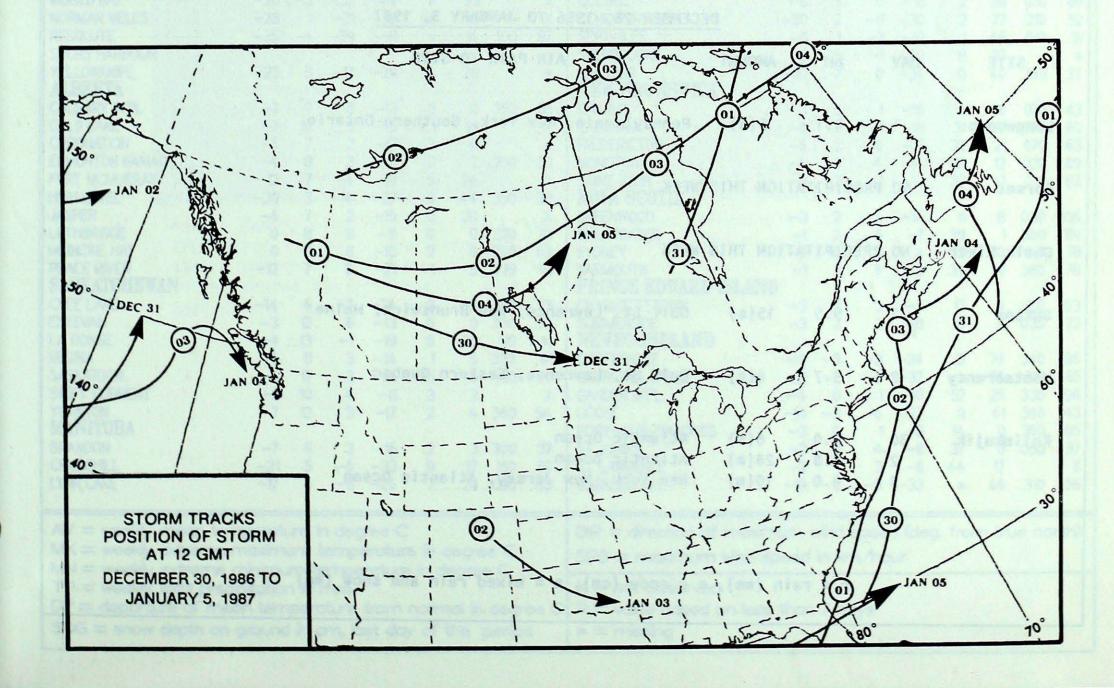
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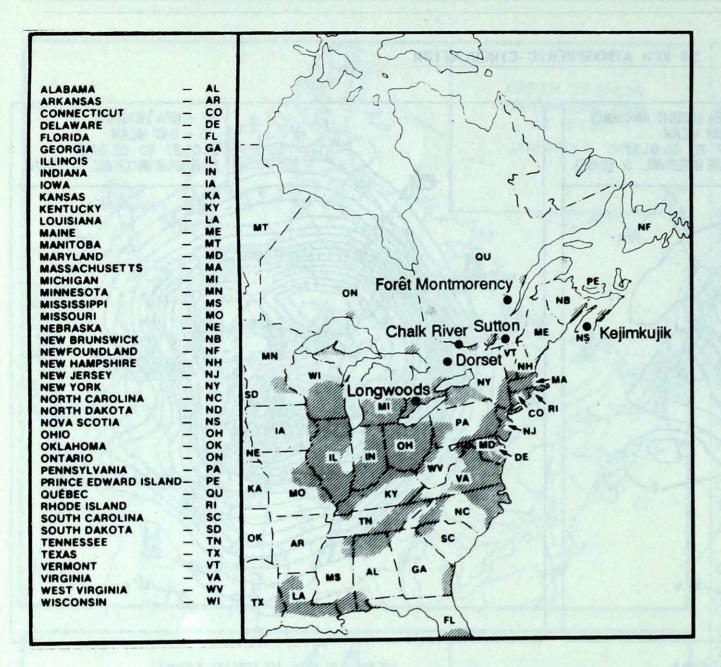


MEAN 50 KPa HEIGHT ANOMALY (dam) January 1 to January 5, 1987



MEAN 50 KPa HEIGHTS (dam) January 1 to January 5, 1987





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 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.

DECEMBER	28,	1986	TO	JANU	ARY	3,	1987
And the same of th							

SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Longwoods	1	4.1	5(s)	Pennsylvania, New York, Southern Ontario
Dorset	NO PI	RECIPITA	TION THIS	WEEK
Chalk River	NO P	RECIPITA	TION THIS	WEEK
Sutton	2	5.5	15(s)	Gulf St. Lawrence, New Brunswick, Maine
Montmorency	2	5.7	6(s)	Gulf St. Lawrence, Eastern Quebec
Keji m kujik	30 2 3	5.0 4.8 4.0	6(s) 28(m) 10(m)	Atlantic Ocean Atlantic ocean New York, New Jersey, Atlantic Ocean

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

STATISTICS

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MONTPOLING -28 -2 -17 -42 2 33 160 72	AMBRIDGE BAY	-37	-4	-22	-44	*	24	310	54	QUEBEC								
YPE	APE DYER	-25	-6	-12	-39	*	55	210	31	BAGOTVILLE	-12	3	0	-22	1	9		
SPERMINE	YDE	-28	-2	-17	-42	2	33		100 Back W. 200 Back						7			
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CLIDWINFE -23 5 -17 -29 4 20	ESOLUTE	-35	-4	-29	-41	*	14	100	87	SEPT-ILES	-11	1	-2	-19	1	46	010	3
CLIDENTIA -23 5 -17 -29 4 20	ACHS HARBOUR									SHERBROOKE	-6	5	-1	-20	8	27		,
NEW BRUNSWICK	ELLOWKNIFE	-23	5	-17	-29	4	20		*		m = m (2) = m (2)						190	3
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MONTON NAMAO				2		10					100							
RT MCMURRAY		1	0	2				250					Marie Control					
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THBRIDGE 0 8 9 -11 0 0 270 78 SHEARWATER -1 2 6 -7 39 1 360 8 SEDICINE HAT 0 11 8 -10 2 0 280 63 SYDNEY -9 -6 2 * 22 10 010 7 ACE RIVER -12 7 0 -21 1 5 270 41 PRINCE EDWARD ISLAND RELAKE -14 6 -7 -24 9 33 200 33 CHARLOTTETOWN -3 2 3 -7 12 4 020 8 STEVAN -3 12 6 -13 0 0 330 59 SUMMERSIDE -3 2 3 -8 15 8 030 7 RONGE -9 13 -1 -19 6 35 110 41 NEWFOUNDLAND GINA -6 11 3 -16 1 5 330 61 CARTWRIGHT -14 -3 -3 -24 3 74 340 8 SYDNEY -9 -9 -32 * 73 310 8 SYDNEY -9 -9 -6 2 * 22 10 010 7 YARMOUTH -1 1 6 -9 39 0 360 7 RONGE -9 13 -1 -19 6 35 110 41 NEWFOUNDLAND GINA -6 11 3 -16 1 5 330 61 CARTWRIGHT -14 -3 -3 -24 3 74 340 8 SYDNEY -9 -9 -32 * 73 310 8 SYDNEY -9 -9 -6 2 * 22 10 010 7 YARMOUTH -1 1 6 -9 39 0 360 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 7 RONGE -3 2 3 -8 15 8 030 8 RONGE -3 2 3 -8			3	-14		6		350									Photography	1119
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ASKATCHEWAN REE LAKE -14 6 -7 -24 9 33 200 33 REE LAKE -3 12 6 -13 0 0 330 59 RONGE -9 13 -1 -19 6 35 110 41 REW FOUNDLAND CARTWRIGHT -6 11 3 -16 1 5 330 61 REXATONN REF CURRENT -3 10 4 -11 3 2 X RET CURRENT -3 10 4 -11 3 2 X RET CHARLOTTETOWN CHARLOTTETOWN -6 12 3 -14 5 6 160 50 CHARLOTTETOWN CHARLOTTETOWN -3 2 3 -7 12 4 020 8 SUMMERSIDE -3 2 3 -8 15 8 030 7 NEW FOUNDLAND CARTWRIGHT -14 -3 -3 -24 3 74 340 8 CHURCHILL FALLS -21 -2 -9 -32 * 73 310 6 CHURCHILL FALLS -21 -2 -9 -32 * 73 310 6 GANDER INT'L -4 0 1 -10 52 25 330 9 REANDON -7 11 2 -16 2 3 300 37 REF LAWRENCE -3 2 3 -7 12 4 020 8 SUMMERSIDE -3 2 3 -8 15 8 030 7 NEW FOUNDLAND CARTWRIGHT -14 -3 -3 -24 3 74 340 8 GANDER INT'L -4 0 1 -10 52 25 330 9 REF LAWRENCE -3 10 4 -8 37 8 030 8 ST JOHN'S -2 0 4 -8 37 8 030 8 ST JOHN'S -2 1 3 -6 44 17	ACE RIVER	-12	7	0	-21	1	5	270	41	YARMOUTH		1	6	-9				78
REE LAKE	ASKATCHEWAN						35 1	188								V.T.V	THE DESTRUCTION	/E(II)
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	HURCHILL	-21	5				17		1985 (1985 W			1	3			17)
		-17	6	OII DE		7						2	I			11 7.70	310	

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

SPD = maximum wind speed in km/hour

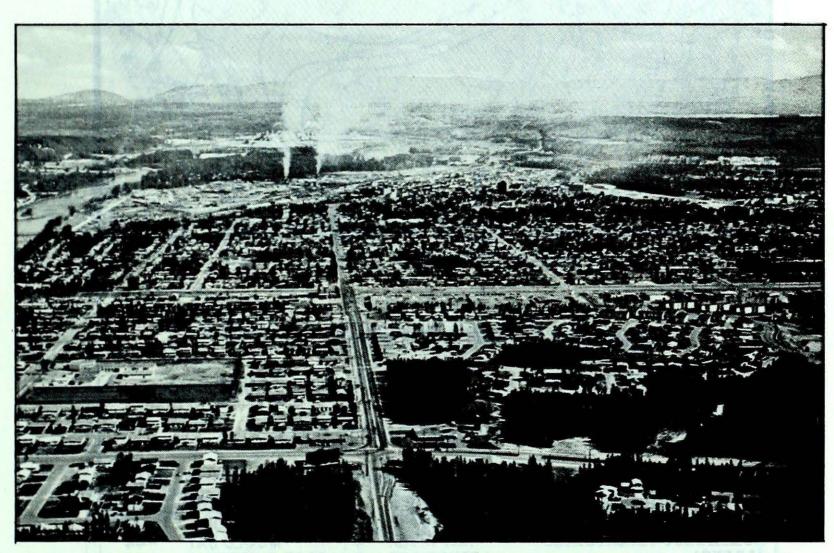
X = not observed

P = value based on less than 7 days

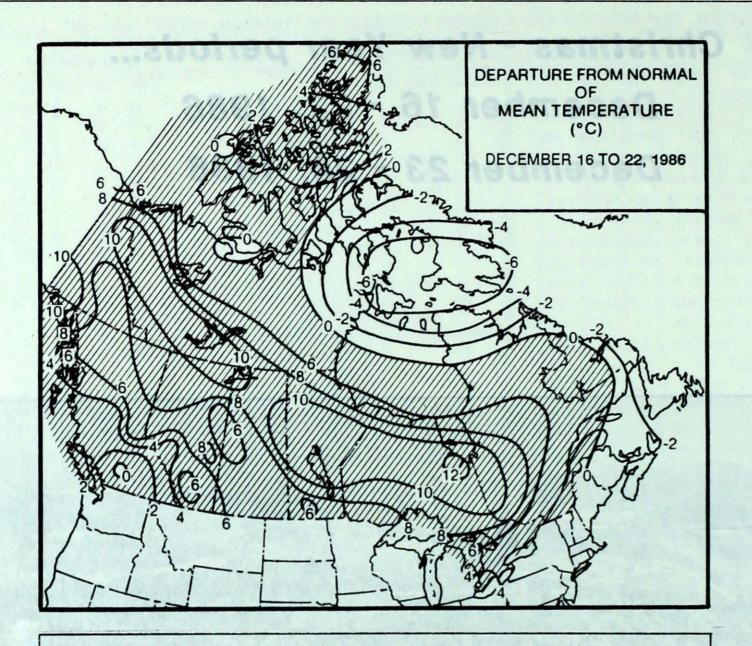
* = missing

									32	
									-64	
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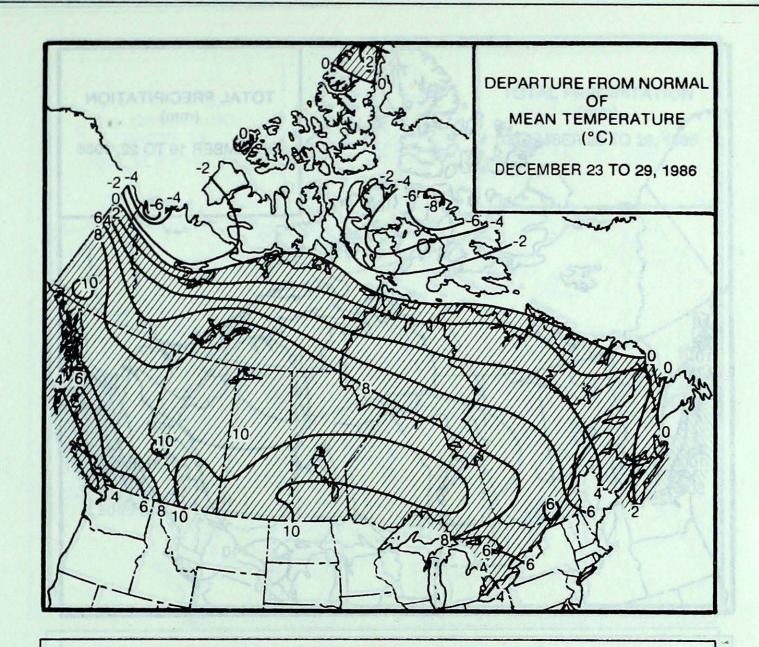
Maps and tables for the Christmas - New Year periods... December 16 - 22, 1986 December 23 - 29, 1986



Prince George situated along the Frazer River at an elevation of approximately 700 metres is the thunderstorm capital of British Columbia; crossroads to the Alaska and Cariboo Highway. Logging is the main industry, with three huge pulp mills located nearby. This is also big cattle country, with a fair amount of agricultural farming to the south and west. Photo courtesy K. Buchanan.



WEEKLY TEMPERATURE EXTREME (C) **MAXIMUM** MINIMUM BRITISH COLUMBIA VICTORIA 11 FORT NELSON -22 SHINGLE POINT BURWASH 4 -32 YUKON TERRITORY NORTHWEST TERRITORIES HAY RIVER 4 MOULD BAY -44 LETHBRIDGE 9 FORT CHIPEWYAN ALBERTA -23-23 SASKATCHEWAN ROCKGLEN LA RONGE -30 DAUPHIN GILLAM MANITOBA THUNDER BAY WINISK -27 ONTARIO QUEBEC ROBERVAL 3 INUKJUAK -30 ST STEPHEN CHARLO -24**NEW BRUNSWICK** TRURO -20 SABLE ISLAND NOVA SCOTIA CHARLOTTETOWN PRINCE EDWARD ISLAND -17 CHARLOTTETOWN WABUSH LAKE -31 PORT AUX BASQUES NEWFOUNDLAND ACROSS THE NATION WARMEST MEAN TEMPERATURE 8 BC CAPE ST JAMES NWT COOLEST MEAN TEMPERATURE -32MOULD BAY



WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA	PRINCE RUPERT	13	FORT NELSON	-21
YUKON TERRITORY	CARCROSS	4	SHINGLE POINT A	-47
NORTHWEST TERRITORIE	S HAY RIVER	2	INUVIK	-45
ALBERTA	LETHBRIDGE	13	FORT CHIPEWYAN	-22
SASKATCHEWAN	MOOSE JAW	6	COLLINS BAY	-27
MANITOBA	PORTAGE LA PRAIRIE	3	THOMPSON	-32
ONTARIO	OTTAWA INT'L	4	ARMSTRONG	-28
QUEBEC	SHERBROOKE	6	SCHEFFERVILLE	-33
NEW BRUNSWICK	SAINT JOHN	9	CHARLO	-21
NOVA SCOTIA	GREENWOOD	11	AMHERST	-12
			SYDNEY	
PRINCE EDWARD ISLAND	SUMMERSIDE	7	CHARLOTTETOWN	-12
NEWFOUNDLAND	DANIEL'S HARBOUR	8	WABUSH LAKE	-32

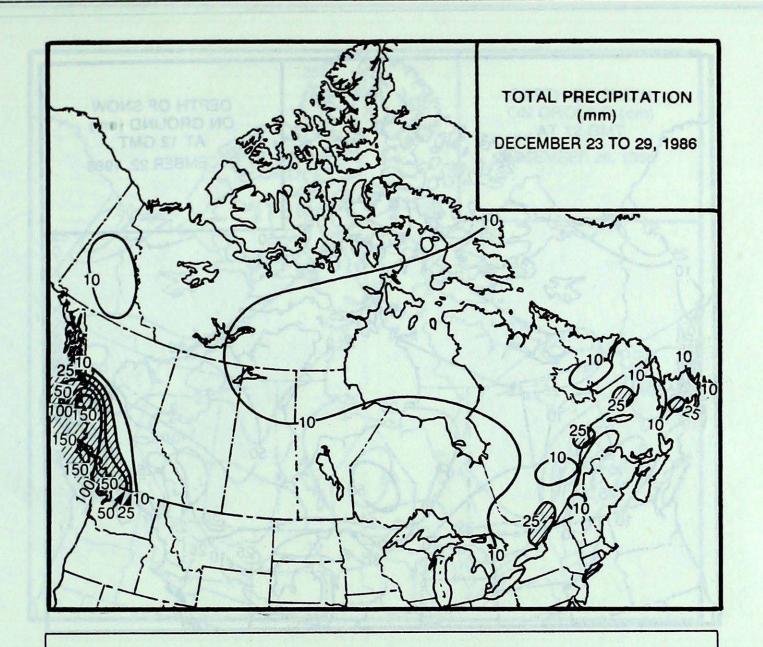
ACROSS THE NATION

WARMEST MEAN TEMPERATURE	10	LAWN POINT	BC
COOLEST MEAN TEMPERATURE	-37	POND INLET	NWT



HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	COMOX SHINGLE POINT POND INLET JASPER	137 9 12 1
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	COLLINS BAY CHURCHILL LONDON SEPT ILES	2 4 14 20
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	SAINT JOHN SHELBURNE CHARLOTTETOWN BONAVISTA	4 38 6 15



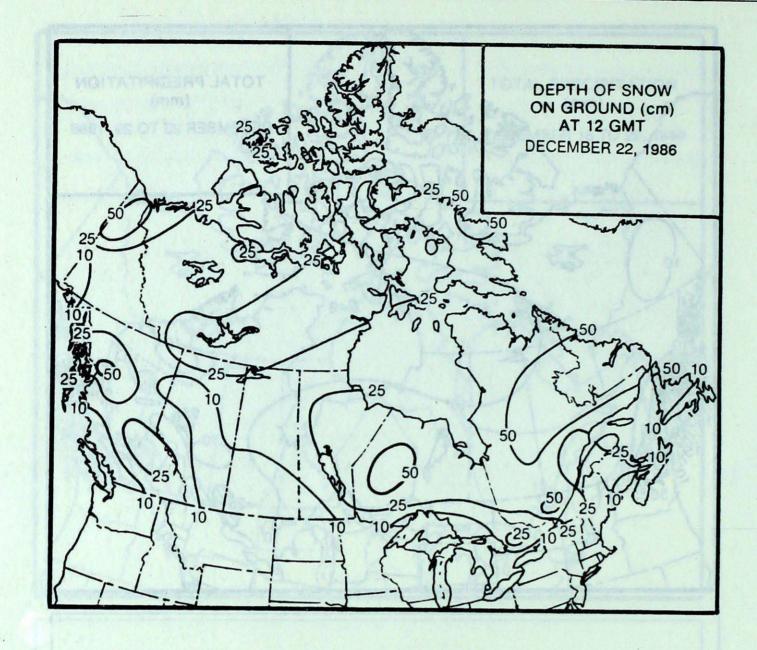
HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA	PORT HARDY	174
YUKON TERRITORY	DAWSON	13
NORTHWEST TERRITORIES	FORT SMITH	15
ALBERTA	FORT CHIPEWYAN	7
SASKATCHEWAN	COLLINS BAY	16
MANITOBA	CHURCHILL	10
ONTARIO	OTTAWA INT'L	30
QUEBEC	NATASHQUAN	29
NEW BRUNSWICK	SAINT JOHN	30
NOVA SCOTIA	YARMOUTH	27
PRINCE EDWARD ISLAND	SUMMERSIDE	11
NEWFOUNDLAND	BURGEO	26

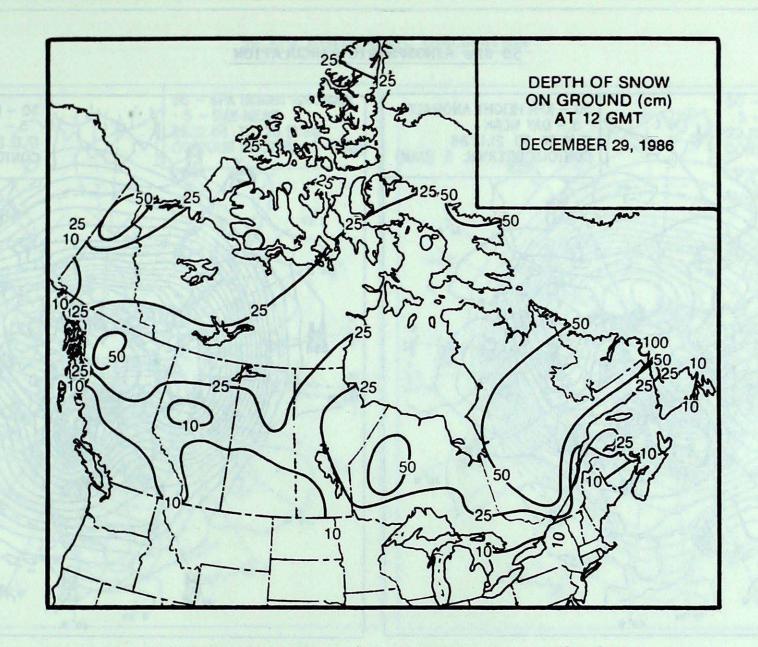
Northeastern Quebic, Southern Quebec.

Right gam, southern deterio, Southern togethern on

chart siver to by Ar In

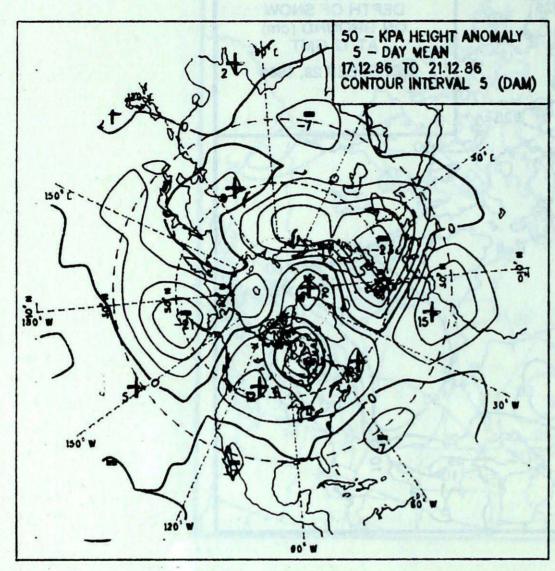


SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Longwoods	17	3.9	10(r)	Illinois, Indiana, Ohio
	18	4.0	3(r)	Kentucky, Ohio, Southern Ontario
Dorset	14	4.2	2(s)	Illinois, Indiana, Michigan, Southern Ontario
	15	3.7	1(m)	Wisconsin, Michigan, Lake Huron
	16	3.8	1(m)	Wisconsin, Michigan, Lake Huron
	17	3.8	2(m)	Indiana, Ohio, Southern Ontario
	18	4.3	3(m)	Kentucky, Ohio, Pennsylvania, Southern Ontario
Chalk River	14	4.0	1(s)	Illinois, Indiana, Ohio, Michigan, Southern Ontari
	18	3.8	3(m)	Ohio, Pennsylvania, New York, Eastern Ontario
Sutton	14	3.8	2(s)	Ohio, New York
7	18	4.8	3(s)	Atlantic Ocean, New England
	19	4.0	1(m)	Northwestern Quebec, Southern Quebec
Montmorency	14	4.5	5(s)	Michigan, Southern Ontario, Southern Quebec
	18	4.3	4(m)	Atlantic Ocean, Maine, Southern Quebec
	19	4.4	1(s)	Northern Quebec, Central Quebec
Keji m kujik	19	5.1	14(r)	Atlantic Ocean

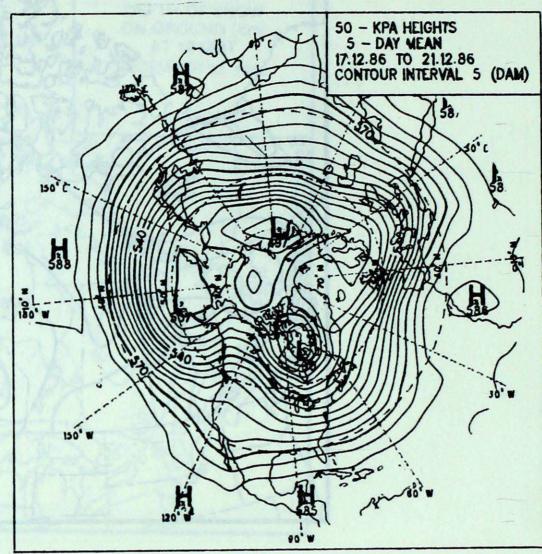


	DECEMBER 21 TO DECEMBER 27, 1986												
SITE	DAY	рН АМОИ	NT AIR PATH TO SITE										
Longwoods	NO DA	ATA AVAILABLE											
Dorset	25	4.8 15(m) Atlantic Ocean, Virginia, Pennsylvania, Eastern Ontario										
Chalk River	NO DA	ATA AVAILABLE											
Sutton	21	4.7 1(s											
	23	5.2 2(r											
	24 25	4.6 3(m 4.4 1(s											
Montmorency	NO DA	ATA AVAILABLE											
Keji m kujik	25	5.0 27(r	Atlantic Ocean										

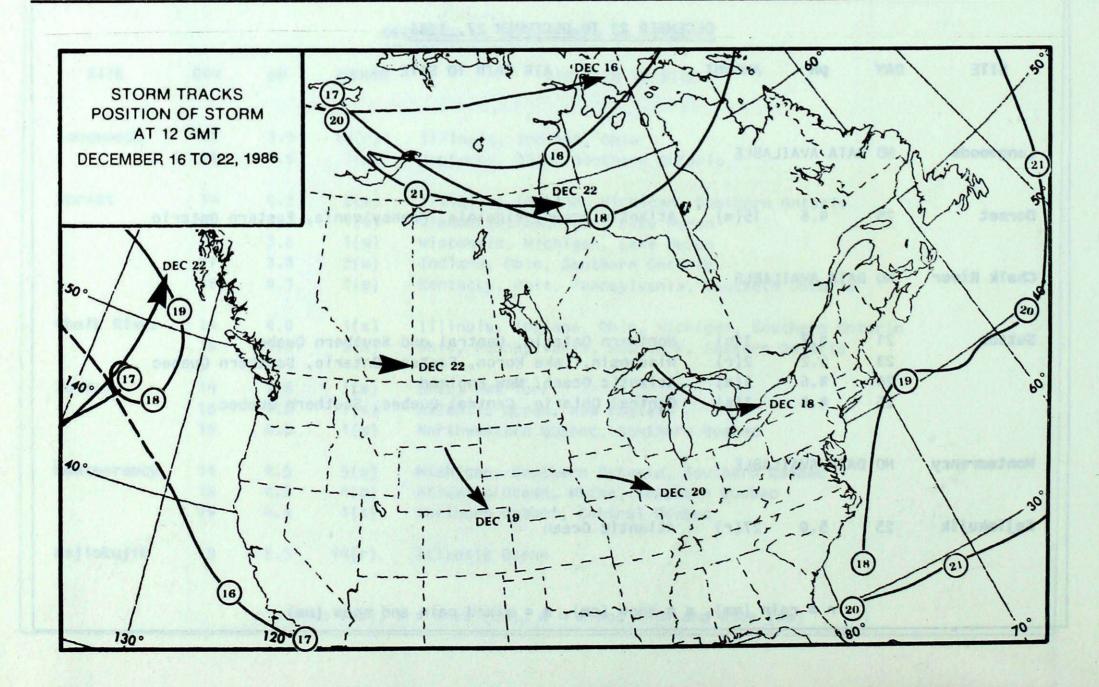
CIRCULATION

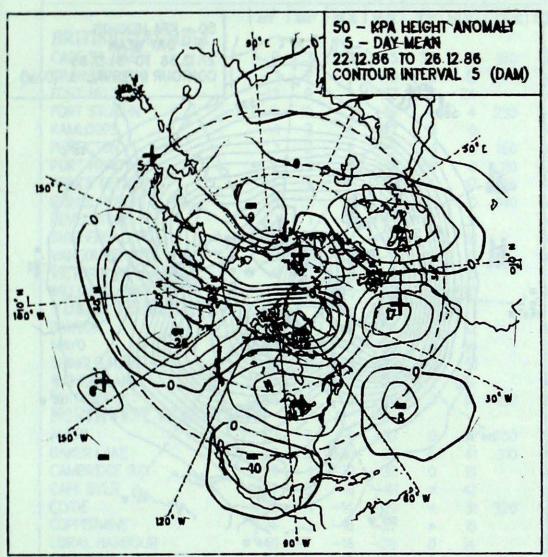


MEAN 50 KPa HEIGHT ANOMALY (dam) December 17 to December 21, 1986

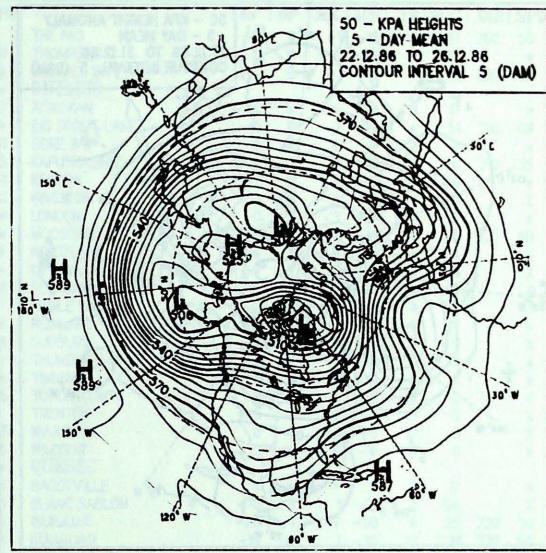


MEAN 50 KPa HEIGHTS (dam) December 17 to December 21, 1986

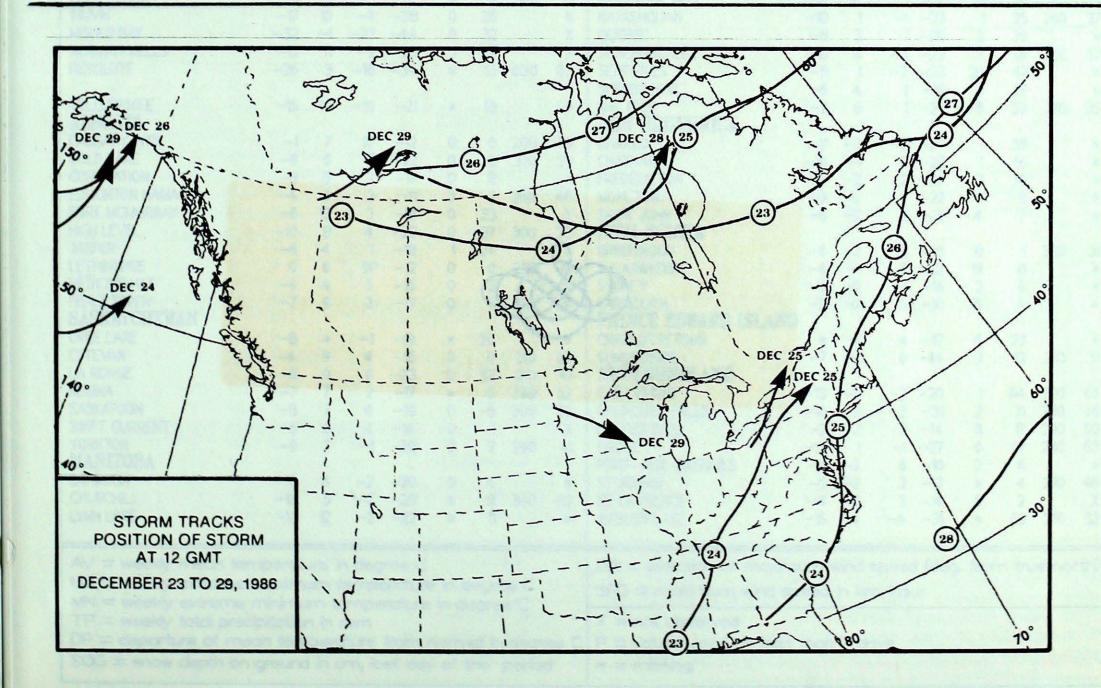




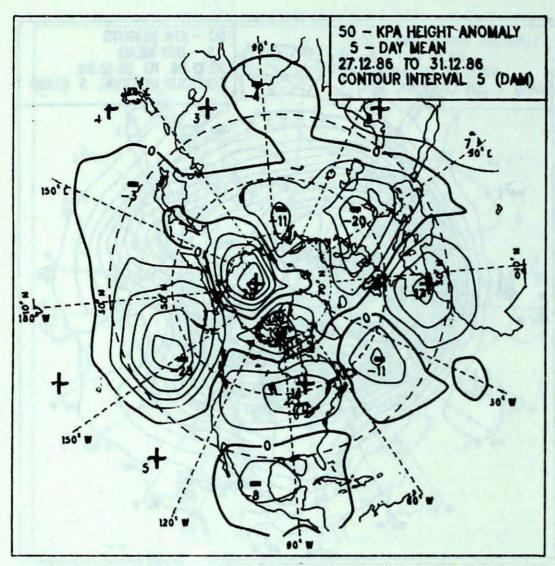
MEAN 50 KPa HEIGHT ANOMALY (dam) December 22 to December 26, 1986



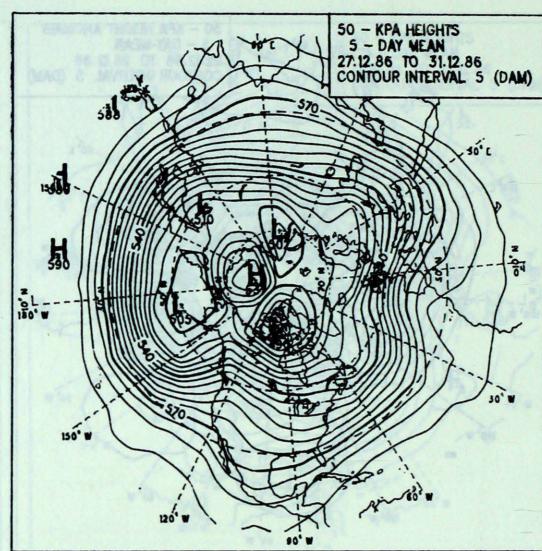
MEAN 50 KPa HEIGHTS (dam) December 22 to December 26, 1986



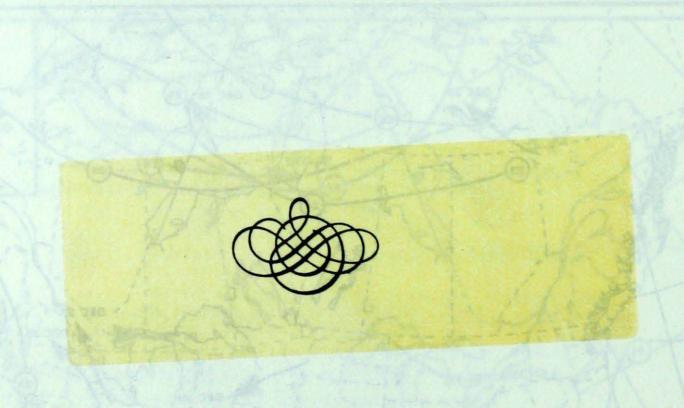
CIRCULATION



MEAN 50 KPa HEIGHT ANOMALY (dam) December 27 to December 31, 1986



MEAN 50 KPa HEIGHTS (dam) December 27 to December 31, 1986



AV DP MX MN TP SOC DIR SPD MS MN MS TP SOC DIR SPD MS MN TS SOC DIR SPD MS MN MN TS SOC DIR SPD MS MS MS MS MS MS MS M	STATION	ILM	PE	RATU	KE	PRE	CIP.	MIN	D MX	STATION	TE	MPE	RATU	RE	PRE	CIP.	MINI	D M
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NICTON			-10														210	48
RETHARDY 6 6 3 9 1 88 0 110 43 AGAPSKASING —4 2 3 3 -21 1 126 210 12 MINE EEFERS MCE ECERGE —4 5 5 - 17 4 7 200 14 KIRORA —7 8 2 -21 1 126 210 12 MINE ELECTRIC —4 1 3 - 8 42 31 *** MCE ELECTRIC —4 5 5 - 9 0 56 0 140 41 KIRORA —7 8 2 -7 8 2 -7 0 33 -7 14 22 10 12 MINE ELECTRIC —1 3 - 8 42 31 *** MCSUMER INTL 5 2 113 11 18 *** MCSUMER INTL 5 2 113 67 0 *** MCSUMER INTL 5 2 113 6 1 1 14 5 1 14		- 1	W(55)11	6		1	1	160			100		100				210	
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PE DYER - 24 - 5 - 8 - 41			0					310	46		0	4	4	-4	8	0		
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RAL HARBOUR			-1			*		320	46			-3	1	-21	2	54		
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RT SMITH -12 11 2 -23 4 30 5 X MANIWAKI -7 -6 -9 -38 * 23 150 44 MONT JOLI -7 2 1 -77 6 8 LL BEACH -30 -5 -21 -37 * 19 300 35 MONTREAL INTL -4 4 3 -15 10 16 NATASHQUAN -10 1 -1 -23 1 25 260 3 MONTREAL INTL -4 4 3 -15 10 16 NATASHQUAN -10 1 -1 -23 1 25 260 3 MONTREAL INTL -4 4 3 -15 10 16 NATASHQUAN -10 1 -1 -23 1 25 260 3 MONTREAL INTL -4 4 3 -15 10 16 NATASHQUAN -10 1 -1 -23 1 25 260 3 MONTREAL INTL -4 4 3 -15 10 16 NATASHQUAN -10 1 -1 -23 1 25 260 3 MONTREAL INTL -4 4 3 -15 2 20 3 MONTREAL INTL -4 4 3 -15 2 20 3 MONTREAL INTL -4 4 3 -15 10 16 MONTREAL INTL -4 4 3 -15 2 20 42 SCHEFFERVILLE -15 6 -3 -29 * 76 230 6 SCHEFFERVILLE -15 6 -3 -29 * 76 230 6 SCHEFFERVILLE -16 6 -3 -29 * 76 230 6 SCHERROOKE -6 4 1 -16 4 27 VAL DOR -7 8 1 -20 5 39 190 3 MONTRON NEW BRUNSWICK CHARLO -11 -2 -2 -2 -24 1 38 LCARY INTL -1 7 10 -12 0 0 280 69 SHERRONATION -8 5 2 -17 0 8 * * NEW BRUNSWICK CHARLO -10 -1 0 -22 1 16 FREDERCTON -10 -1 0 -2 2 2-4 3 14 MONTRON -8 7 0 -19 0 5 30 33 MONTRON -8 7 0 -19 0 5 300 39 SCHERRANWELLS -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 3 1 25 260 3 MONTROLLE -10 1 1 -1 -2 -23 20 42 SHERROOKE -6 4 1 -6 3 3 -19 0 2 X SAINTJOHN -10 -1 0 -2 2 2 -2 4 3 14 MONTON NAMAO -4 9 3 3 -11 0 2 280 48 MONTON NAMAO -4 9 3 3 -11 0 2 280 48 MONTON NAMAO -4 9 3 3 -17 0 4 250 44 X SAINTJOHN -8 -2 1 -21 4 7 MONTROLLE -10 1 2 2 3 -19 0 2 3 X X SAINTJOHN -10 -1 0 -2 2 1 4 7 NOVA SCOTTLA SHERROONT -10 -1 0 -2 1 1 1 1 1 1 1 1 1 1			-7			0	14		X	KUUJUAQ	-19	0	1	-30	12	31	270	54
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LL BEACH		-12	11	2	-23	4	30		X	MANIWAKI	-7	4	2	-21	2	22		,
LI BEACH	OBISHER BAY	-27	-6	-9	-38	*	23	150	44	MONT JOLI	-7	2	1	-17	6	8		,
MK	ILL BEACH -	-30	-5	-21	-37	*	19	300	35	MONTREAL INT'L	-4		3	-15	10			٠,
MUD BAY	JVIK	-17	10		-38	0	36		X		-10		-1		1		260	37
RMAN WELLS	OULD BAY -	-32	-1	-22	-44	0	32		X	QUEBEC	-8	3	1	-20	2			
SOLUTE	DRMAN WELLS	-15	11	-9	-25	5	19		X	SCHEFFERVILLE	-15		-3				230	6
SHERBROOKE	SOLUTE	-26	3	-16	-34	*	13	030	63			1			20			×
LLOWKNIFE									3.5			4	1					×
SERTA CHARLO		-15	10	-10	-21	*	13		*								190	35
LGARY INT'L -1 7 10 -72 0 0 280 59 LD LAKE -9 5 2 -22 0 0 320 39 RONATION -8 5 2 -77 0 8 * * FREDERICTON -10 -1 0 -22 1 16 FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -10 -2 2 -24 4 9 SAINT JOHN FREDERICTON -8 -2 1 -21 4 7 FREDERICTON -9 -2 0 -22 4 9 SAINT JOHN -8 -2 1 -21 4 7 FREDERICTON -8 -2 1 -21 4 1 7 FREDERICTON -	LBERTA															0,	130	~
LD LAKE	LGARY INT'L	-1	7	10	-12	0	0	280	59		-11	-2	-2	-24	1	38		k
RONATION —8 5 2 -17 0 8	ILD LAKE	-9	5				0		0.00						1			×
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H LEVEL -10 8 4 -22 0 37 300 33 NOVA SCOTIA SPER -6 4 1 -18 1 24 X THBRIDGE 0 6 9P -12 0 0 270 70 DICINE HAT -4 4 5 -15 0 2 x ACE RIVER -7 9 3 -17 0 4 250 44 FELAKE -8 * -1 -19 * 20 * RONGE -8 9 0 -23 0 33 310 41 SKATCHEWAN FIEVAN -4 9 4 -16 0 0 310 48 RONGE -8 9 0 -23 0 33 310 41 SKATON -7 7 2 -17 * 5 290 52 SKATON -8 7 0 -19 0 5 300 39 CHARLOTTETOWN * * * * -17 6 23 SUMMERSIDE -7 -1 0 -14 1 12 310 3 NEW FOUNDLAND CARTWRIGHT -13 -2 -2 -20 1 64 220 6 NEW FOUNDLAND CARTWRIGHT -13 -2 -2 -2 -20 1 64 220 6 ANDITOBA ANDON -10 4 -2 -20 0 7 290 41 NECHIEL -18 5 -7 -28 4 8 340 52 V = weekly mean temperature in degree C X = weekly extreme maximum temperature in degree C X = weekly mean temperature in degree C X = weekly extreme maximum temperature in degree C X = weekly extreme maximum temperature in degree C X = weekly extreme maximum temperature in degree C X = weekly extreme maximum temperature in degree C			12	3					CO. BASERS				0 - 1			7		1
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SKATCHEWAN CEL LAKE			9					250	The state of the s				5					,
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V = weekly mean temperature in degree C X = weekly extreme maximum temperature in degree C DIR = direction of maximum wind speed (deg. from true north SPD = maximum wind speed in law Abour									III - SECOND AND				2		*	4	2/0	48
/ = weekly mean temperature in degree C DIR = direction of maximum wind speed (deg. from true north speekly extreme maximum temperature in degree C SDD = maximum wind speed in lam /hour								340			-4	-3	3			2		()
X = weekly extreme maximum temperature in degree C Spn - maximum wind speed in law Angur	NN LAKE	-10	12	-2	-22	*	11		*	WABUSH LAKE	-15	4	-4	-31	*	68	210	5
X = weekly extreme maximum temperature in degree C Spn - maximum wind speed in law Angur	/ = weekly mean temps	eratu	re ir	dea	ree C	16.54				DIR = direction of maxim	יי כמיטו	vind s	sneer	1 (dec	fron	n tr	e nor	-+h
V = weekly extreme minimum temperature in degree C							deane	eC	1					T - 100 27	. 11011	., .,		-
	N = weekly extreme mir	· · · · ·				."'	9,0			SPU = maximum wind sp	beed	in km	1/noi	Jr _				

* = missing

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

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STATION			RATU		PRE		WINI		STATION		MPE		-	PREC		WIN	_
VOICE COLLINS	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP :		DIR	
RITISH COLUMBIA		_	40			_	220	100	THE PAS	-9	*		-21	0	0	300	5
PE ST.JAMES		3	10	4	57	0	220	102	THOMPSON WININGEC INTER	-13 -6	10	-2 2	-32 -15	2	0	340 180	3:
ANBROOK		8	8	-5	2	0	170	43	WINNIPEG INT'L ONTARIO	-0	10		-15	U	U	100	4
RT NELSON	-14	8	0	-21	3	0	350	37	ATIKOKAN	-	10	4	10	0	0	220	3
T ST.JOHN	-1	12	3	-14 -3	0	0	230	56	BIG TROUT LAKE	-6 -10	10	-2	-18 -26	0	0	230 320	5
MLOOPS	3	-	11	-3	1	0	190	57	GORE BAY	-10	8	3	-20	5	0	320	3
NTICTON	7	3	0	2	174	0	120	74	KAPUSKASING	-7	10	3	-21	2	O	170	5
RT HARDY NCE GEORGE	2	7	7	-3	9	0	190	76	KENORA	-6	10	1	-13	ō	o	210	4
NCE RUPERT	7	6	13	2	94	Ö	150	98	KINGSTON	0	8	4	-4	0	0	210	
VELSTOKE	2	7	6	0	17	0	160	67	LONDON	0	4	2	-2	21	0	110	4
ITHERS	ō	9	5	-6	11	0	170	41	MOOSONEE	-9	9	2	-23	1	0	280	4
NCOUVER INT'L	7	4	10	4	61	0	050	44	NORTH BAY	-5	7	0	-18	12	0	110	
TORIA INT'L	7	3	11	1	22	O	250	41	OTTAWA INT'L	-2	7	4	-10	30	0		
LIAMS LAKE	2	*	6	-2	10	o	255	X	PETAWAWA	-4	7	4	-19	18	0		
KON TERRITORY				-					PICKLE LAKE	-9	- 11	-1	-27	5	0	280	(
WSON	-22	*	-14	-34	13	0		*	RED LAKE	-9	9	1	-20	1	0	320	1
YO	-15	9	-2	-25	10	0		X	SUDBURY	-4	8	3	-17	20	0		
NGLE POINT A	-29	-3	-20	-47	4	O		*	THUNDER BAY	-4	9	2	-17	0	0	290	
TSON LAKE	-17	7	-8	-26	10	0		*	TIMMINS	-6	10	4	-21	0	0	330	
ITEHORSE	-6	11	1	-16	6	O	150	74	TORONTO INT'L	1	6	3	-1	21	0	260	
RTHWEST TERRITOR					-				TRENTON	1	7	4	-4	27	0		
ERT	-28	3	-19	-34	3	0	210	83	WIARTON	1	5	3	-2	9	0		
KER LAKE	-27	3	-8	-38	11	0	300	96	WINDSOR	0	3	3	-2	10	0	250	
MBRIDGE BAY	-32	0	-27	-39	1	0	020	57	QUEBEC								
PE DYER	-28	-8	-15	-40	2	0	200	56	BAGOTVILLE	-8	6	2	-24	7	0	280	
DE	-33	-8	-25	-45	2	0	320	39	BLANC SABLON	-8	*	2	-21	17	0		
PPERMINE	-30	*	-20	-40	3	o	340	56	INUKJUAK	-17	4	-4	-30	14	0	180	
RAL HARBOUR	-27	-1	-14	-37	12	0		X	KUWJUAQ	-16	3	-7	-29	10	0	350	
REKA	-37	-2	-24	-46	3	0	140	67	KUWJUARAPIK	-14	5	-3	-24	5	0	160	
RT SMITH	-11	12	- 1	-22	15	o		X	MANIWAKI	-4	7	3	-18	18	0		
OBISHER BAY	-25	-3	-10	-40	*	0	330	76	MONT JOLI	-5	4	2	-13	10	0	260	
LL BEACH	-33	-5	-19	-39	2	0	140	54	MONTREAL INT'L	-3	6	3	-12	20	0	240	
IVIK	-35	-8	-22	-45	1	o	П	X	NATASHQUAN	-8	2	1	-21	29	0	170	
ULD BAY	-30	2	-23	-37	2	0		X	QUEBEC	-6	4	2	-17	15	0	250	
RMAN WELLS	-28	-2	-17	-35	8	o		X	SCHEFFERVILLE	-16	4	-8	-33	13	0	350	
SOLUTE	-30	0	-26	-37	2	0	110	63	SEPT-ILES	-9	3	-1	-20	17	0	110	
JOED IE	50	•		0,	4				SHERBROOKE	-4	6	6	-14	4	0	120	
LLOWKNIFE	-17	8	-6	-26	9	- 0	290	70	VAL D'OR	-6	9	1	-21	17	0	290	
BERTA		•	-	20	WEST	IF THE	100		NEW BRUNSWICK								
GARY INT'L	3	- 11	11	-5	0	0	280	78	CHARLO	-7	3	2	-21	12	0	300	
LD LAKE	-6	9	3	-15	1	ő	280	43	CHATHAM	-6	2	3	-18	15	0	320	
RONATION	-5	8	3	-13	o	o		*	FREDERICTON	-6	2	6	-18	16	0	310	
MONTON NAMAO	-2	10	5	-8	0	0		*	MONCTON	-3	3	8	-14	4	0	140	
RT MCMURRAY	-3	15	8	-10	2	o		X	SAINT JOHN	-3	2	9	-13	30	0	220	
H LEVEL	-9	10	7	-20	6	Ö	300	46	NOVA SCOTIA								
SPER	1	11	6	-6	0	Ö	300	X	GREENWOOD	-1	2	11	-12	10	0	150	
THBRIDGE	4	10	13	-3	o	0	270	91	SHEARWATER	-1	1	8	-9	23	0	160	
DICINE HAT	2	10	8	-4	0	0	210	56	SYDNEY	-2	1	7	-12	13	0	180	
ACE RIVER	-4	12	4	-12	3	o	250	56	YARMOUTH	1	2	10	-7	27	0	140	
SKATCHEWAN	411	4			at out				PRINCE EDWARD ISLAN	ID							
EE LAKE	-8	11	1	-24	6	0	210	56	CHARLOTTETOWN	-4	1	6	-12	10	0	140	
TEVAN	-2	10	6	-10	0	0	310	54	SUMMERSIDE	-3	2	7	-12	11	0	140	
RONGE	-9	9	2	-19	2	o	300	59	NEWFOUNDLAND		100						
SINA	-4	9	4	-14	ō	o	320	54	CARTWRIGHT	-12	-1	-2	-22	15	0	350	
SKATOON	-5	10	2	-10	ŏ	o		*	CHURCHILL FALLS	-17	1	-6	-28	8	0	350	
FT CURRENT	0	11	5	-6	o	0		X	GANDER INT'L	-4	0	3	-16	20	0	310	
RKTON	-7	9	2	-15	Ö	0	300	52	GOOSE	-14	0	-2	-26	9	0	020	
NITOBA		m. 16							PORT-AUX-BASQUES	-2	0	4	-8	20	0	180	
ANDON	-8	8	1	-18	0	0	280	44	ST JOHN'S	-3	0	3	-10	8	0	180	
URCHILL	-16	8	-5	-30	10	Ö		59	ST LAWRENCE	-2	-1	4	-11	12	0		
IN LAKE	-12	10	-3	-31	6	0		35	WABUSH LAKE	-15	5	-6	-32	11	0	280	
/ = weekly mean tem X = weekly extreme n			The state of the s			degre	e C		DIR = direction of maximum wind :					g. from	n tn	ue no	rt
N = weekly extreme r = weekly total preci	ninimu	ım te	empe			A THE RESERVE TO SERVE THE RES			X = not observed								