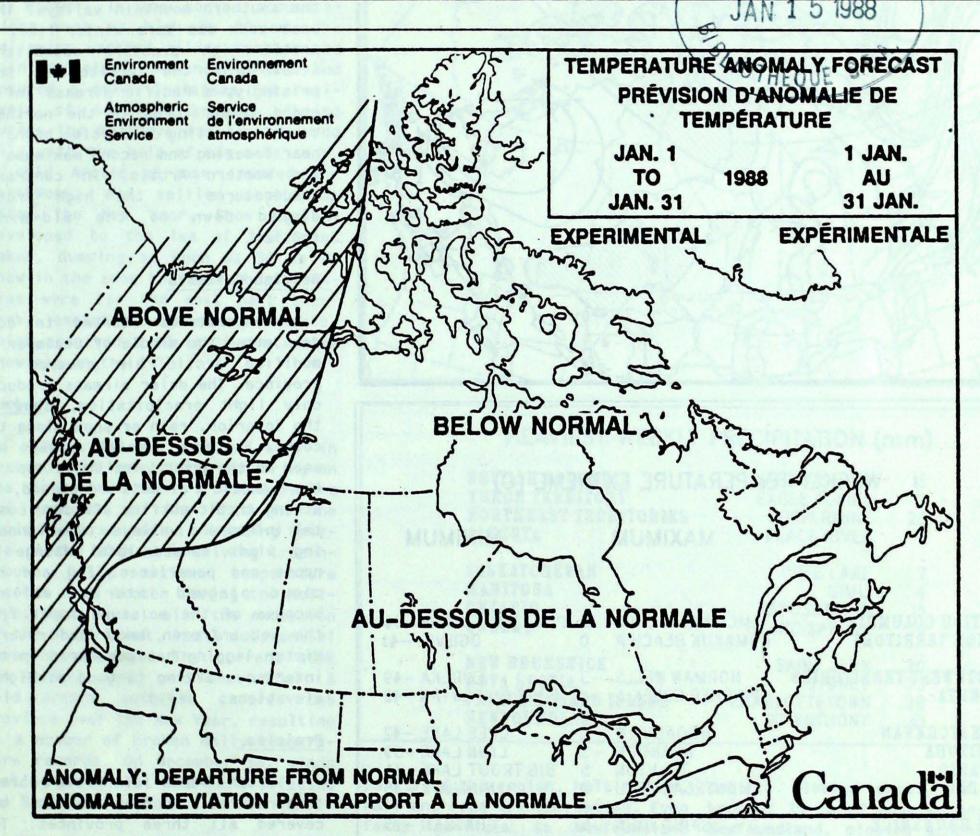
Climatic Environnement Perspectives

A weekly review of Canadian Climate

Dec 15, 1987 to Jan 4, 1988

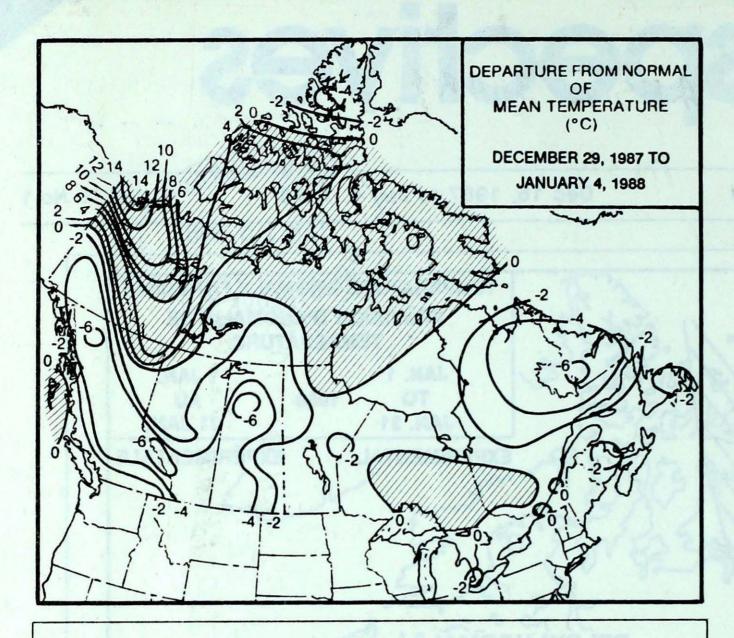
Vol. 10 No. 1



The above map is the latest in the evolution towards developing an acceptable format to be used in the official public product which will be formally introduced early this year. Stations near the line separating the two categories are expected to be in the transition zone between above and below normal monthly averaged temperatures. Please forward any comments to the Canadian Climate Centre at the address listed on page 4 or call (416) 667-4829.

- Heavy snowfalls bury Atlantic Canada
- Much colder air sweeps across the country

Canada



WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA YUKON TERRITORY	MCINNES ISLAND KOMAKUK BEACH A	10	PUNTZI MOUNTAIN -34 OGILVIE -41
NORTHWEST TERRITORIES ALBERTA	NORMAN WELLS PINCHER CREEK A		EUREKA -49 FORT CHIPEWYAN -42
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	BROADVIEW BRANDON TRENTON MONTREAL INT'L	1 -3 5 3	CREE LAKE -42 LYNN LAKE -39 BIG TROUT LAKE -34 I NUKJUAK -35
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	SAINT JOHN SABLE ISLAND SUMMERSIDE ST LAWRENCE	5 6 4 5	CHATHAM -25 TRURO -20 CHARLOT FETOWN17 CHURCHILL FALLS -34

ACROSS THE NATION

WARMEST MEAN TEMPERATURE 6 CAPE ST.JAMES BC
COOLEST MEAN TEMPERATURE -43 EUREKA NWT

ACROSS THE COUNTRY

Yukon and Northwest Territories

Mild weather conditions persisted in the Yukon through Christmas, with readings in the south climbing above freezing. Unfrozen lakes were responsible for low cloud and fog in the southern mountain valleys. This past week was more winter-like, as Arctic high pressure established itself over the Territories. Surprisingly, a Pacific airmass influenced temperatures in the northern Yukon, resulting in daytime highs of near freezing and record maximums in the western Arctic. In contrast, temperatures in the high Arctic dipped down to the mid-minus forties.

British Columbia

Temperatures started to cool down after the middle of December as modified Arctic air covered the province. The drier airmass produced only light precipitation, snow in the interior, rain or snow along the coast. Southern coastal valleys had snow on the ground for Christmas. As the Arctic airmass deepened, a strong Arctic outflow affected coastal inlets and valleys. The funneling winds caused local damage to roofs and powerlines. Fog and low cloud plagued interior valleys because of the moisture input from the yet unfrozen lakes and rivers. Winter logging has commenced in the interior. Skiing is good at higher elevations.

Prairies

After weeks of above normal a deep freeze has temperatures covered all three provinces. The middle and latter part of December was rather tranquil with fluctuating temperatures. Weak weather systems affected the regions. In Alberta, it was mostly sunny, while elsewhere sky conditions were variable. Snowfalls were generally light. Christmas was cold in the east, with warmer readings in the west. A number of new daily temperature records were set in Alberta, some as high as 10°C. It was mild and foggy the last few days of the year in the east. A bitterly cold Arctic airmass heralded in the New Year, forcing temperatures down to the minus thirties and forties. Strong winds produced dangerous wind chills.

Ontario

A snow storm on the 15th gave southern Ontario its first real taste of winter. In the north, accumulations were as high as 30 cm. The following weekend milder weather and rain depleted the snow cover, and insured a green Christmas for residents of southern Ontario. Skiing during the holidays was limited, and only with the help of man-made snow. A cold Arctic airmass invaded the northwest, and spilled southwards after the New Year. Snow squalls developed to the lee of the Great Lakes, dumping as much as 50 cm of snow in the snow belt. Southern counties were for the most part snowfree, except southwestern Ontario. which received a 10 to 15 centimetre snowfall on the 29th.

Quebec

There was no lack of snow in Quebec, with heavy falls occurring on the 15th and 20th. A thunderstorm was reported on the 15th in the Trois-Rivieres region. Freezing drizzle on the 20th made driving treach-Daily maximum temperature records were broken during the holidays. Most areas, with the exception of the north coast, had a substantial covering of snow. The current week was rather sunny and uneventful. A cold Arctic outbreak covered the province over the New Year, resulting in a number of broken daily temperature records. On December 30, winds gusting to almost 100 km/h affected the Sept-Iles region.

Maritimes

The weather was cold and stormy, as major storms affected all three provinces before Christmas, closing schools and businesses. Snow depths increased substantially over the holiday period. Strong winds disrupted ferry services. By Christmas both P.E.I. and New Brunswick had more than 50cm of snow on the ground. Snow storms struck again on December 30 and January 4, disrupting transportation and forcing closures. Hardest hit on the 30th was Cape Breton, where 52 cm fell. Blizzard conditions



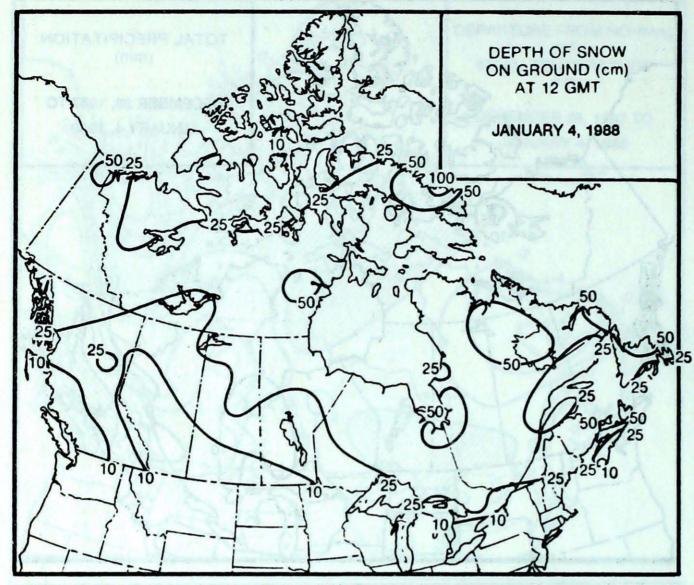
	(LY PRECIPITATION (mm)	
BRITISH COLUMBIA	ABBOTSFORD 15	
YUKON TERRITORY	EAGLE PLAINS 12	
NORTHWEST TERRITORII		
ALBERTA	PEACE RIVER 7	
SASKATCHEWAN	CREE LAKE 7	
MANITOBA	GIMLI 4	
ONTARIO	KAPUSKASING 15	
QUEBEC	BLANC SABLON 36	
NEW BRUNSWICK	SAINT JOHN 20	
NOVA SCOTIA	SYDNEY 73	
PRINCE EDWARD ISLAND	CHARLOTTETOWN 38	
NEWFOUNDLAND	ST ANTHONY 61	

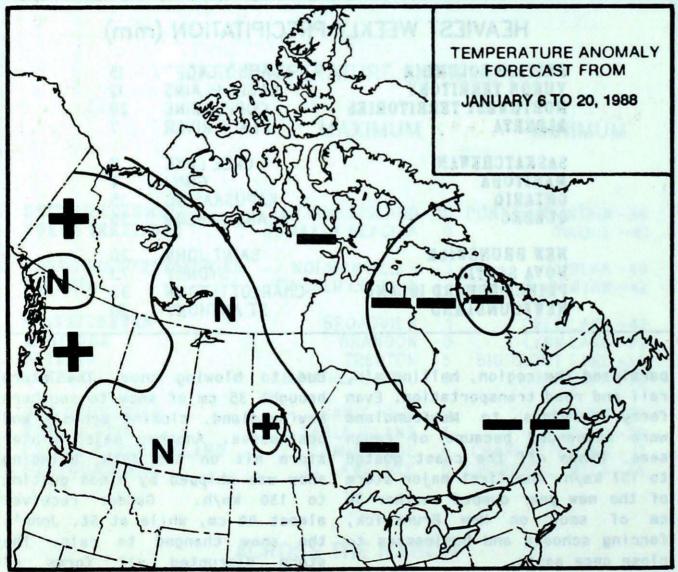
seas. Winds off the coast gusted to 137 km/h. The first major storm of the new year dumped another 30 close once again.

Newfound land

The Island also endured blustery weather conditions. Flurries and occasional freezing drizzle were common the week preceding the holidays. On the 17th, winds qusting to 100 km/h produced whiteouts

paralyzed the region, halting air, due to blowing snow. The storm rail and road transportation. Even brought 35 cm of snow to southern ferry services to Newfoundland Newfoundland, closing schools and were suspended because of rough businesses. Another major winter storm hit on the 30th. Blinding snow was whipped by winds gusting to 130 km/h. Gander received cm of snow on New Brunswick, almost 40 cm, while at St. John's forcing schools and businesses to the snow changed to rain. The storm disrupted all forms of transportation and knocked down power lines on the Burin Peninsula. For the most part, Labrador missed the heavy snowfalls although winds were strong, causing white outs. Temperatures were cold, especially after New Years, when readings dropped down to the minus thirties.





Temperature Anomaly Forecast

- 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 10

Managing Editor P.R. Scholefield Editors-in-charge

> weekly A.K. Radomski A.A. Caillet monthly

M. Skarpathiotakis Art Layout C. Czaja

Word Processing P. Burke/U. Ellis

Translation D. Pokorn Cartography

Data Manager

G. Young/T. Chivers

Regional Correspondents

Atlantic: F.Amirault; Que.: J.Miron Ont.: B. Smith; Central: J.F. Bendell Western: W.Prusak; Pac.: E.Coatta; Yukon Weather Centre; Frobisher Bay & Yellowknife Weather Offices; Newfoundland Weather Centre: G.MacMillan; AES Satellite Data Lab; Ice Central Ottawa

ISSN 0225-5707 UDC 551.506.1(71)

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

The purpose of the publication make topical information is 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 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

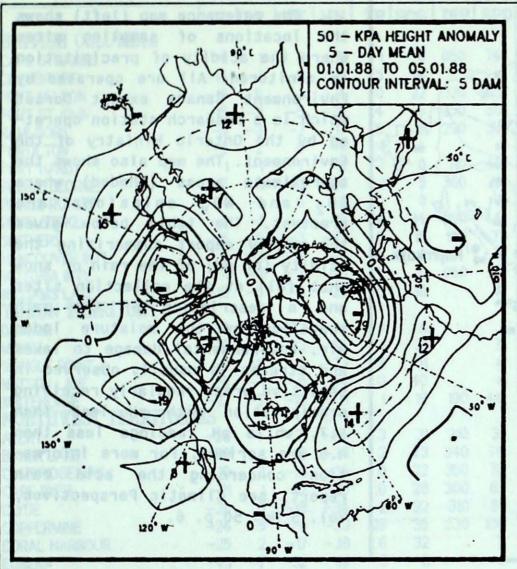
weekly & monthly supplement: \$35.00

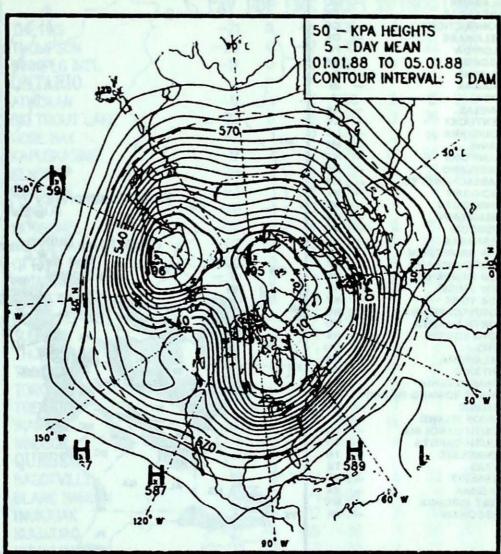
foreign: \$42.00

Monthly issue: \$10.00 foreign: \$12.00

Orders must be prepaid by money order or cheque payable to Receiver Canadian Gov-

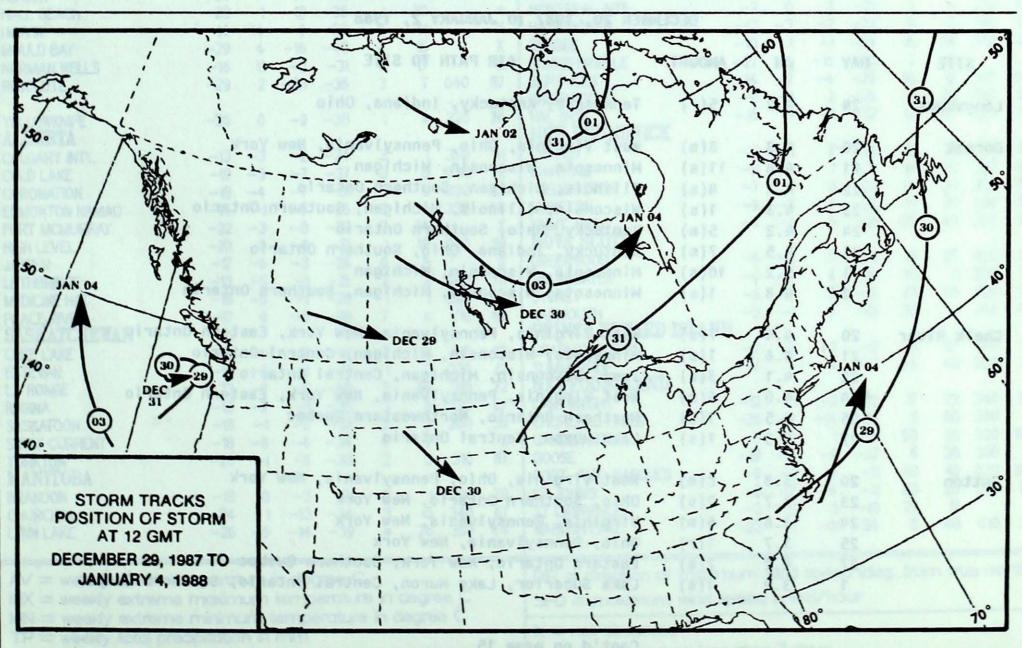
General for Canada. ernment Publishing Centre, Ottawa, Ontario K1A 0S9 (613)994-1495

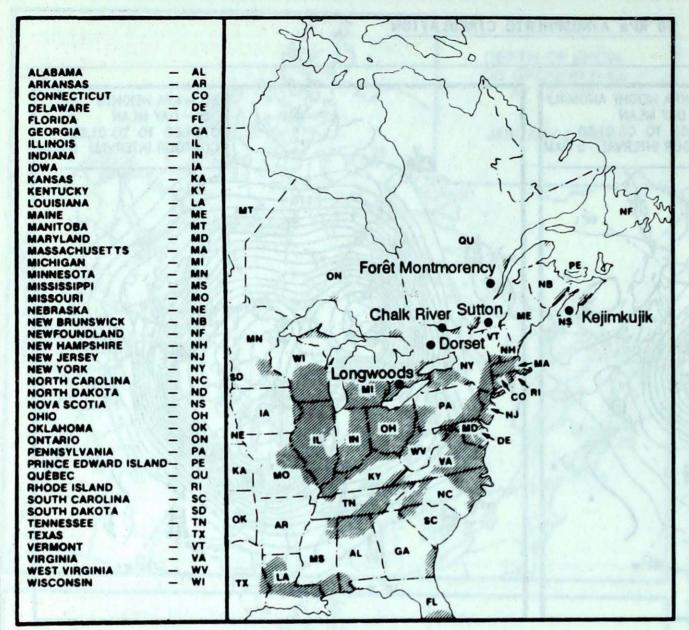




MEAN 50 KPa HEIGHT ANOMALY (dam)

MEAN 50 KPa HEIGHTS (dam)





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 SO_2 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 20, 1987 TO JANUARY 2, 1988

SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Longwoods	24	4.2	5(r)	Tennessee, Kentucky, Indiana, Ohio
Dorset	20	4.3	8(m)	West Virginia, Ohio, Pennsylvania, New York
	21	4.8	11(s)	Minnesota, Wisconsin, Michigan
	22	4.2	4(s)	Illinois, Michigan, Southern Ontario
	23	4.3	1(s)	Wisconsin, Illinois, Michigan, Southern Ontario
	24	4.2	5(m)	Kentucky, Ohio, Southern Ontario
	31	4.5	7(s)	Kentucky, Indiana, Ohio, Southern Ontario
	1	5.2	10(s)	Minnesota, Wisconsin, Michigan
	2	4.8	1(s)	Minnesota, Wisconsin, Michigan, Southern Ontario
Chalk River	20	4.4	7(s)	West Virginia, Pennsylvania, New York, Eastern Ontario
	21	4.8	1(s)	Minnesota, Wisconsin, Michigan, Central Ontario
	22	4.1	3(s)	Iowa, Wisconsin, Michigan, Central Ontario
	24	4.0	6(m)	West Virginia, Pennsylvania, New York, Eastern Ontario
	25	4.5	1(s)	Northern Ontario, Northwestern Quebec
	27	4.3	1(s)	Lake Huron, Central Ontario
Sutton	20	3.8	8(m)	West Virginia, Ohio, Pennsylvania, New York
	23	3.7	2(s)	Ohio, Southern Ontario, New York
	24	3.8	6(m)	Virginia, Pennsylvania, New York
	25	3.7	1(r)	Ohio, Pennsylvania, New York
	27	4.2	2(s)	Eastern Ontario, New York, Southern Quebec
	1	3.9	1(s)	Lake Superior, Lake Huron, Central Ontario, Southern Quebec

Cont'd on page 15

STATISTICS

STATION	TE	MPE	RATU	RE	PRE	CIP.	MINI	MX.	STATION	TE	MPE	RATU	RE	PRE	CIP.	MINI	D N
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP	SOG	DIR	SI
RITISH COLUMBIA									THE PAS	-21	0	-6	-35	1	16	290	6.
PE ST.JAMES	6	1	8	3	1	0	050	74	THOMPSON	-24	0	-12	-35	4	22	340	46
RANBROOK	-14	-1	-6	-26	5	14		*	WINNIPEG INT'L	-17	0	-6	-29	*	5	300	65
RT NELSON	-16	5	2	-24	0	22	320	63	ONTARIO			·	23	_	,	500	0.
RT ST.JOHN	-15	-2	-5	-25	4	6	350	50	ATIKOKAN	-17	-1	5	-30	5	15	260	
		100			5			37	BIG TROUT LAKE			-8					44
MLOOPS	-9	-3	-2	-17	5	8	290			-23	0		-34	3	26	340	5
NTICTON	-5	-2	0	-9	1	4		*	GORE BAY	-7	1	2	-17	2	14	200	76
RT HARDY	1	-1	1	5	1	0	110	46	KAPUSKASING	-17	1	-2	-29	15	46	310	5
INCE GEORGE	-17	-1	-3	-26	2	5	360	39	KENORA	-18	-1	-5	-32	4	22	280	5
INCE RUPERT	-1	-1	6	-8	0	0		*	KINGSTON	-7	1	4	-19	0	0		
VELSTOKE	-9	-1	-1	-18	4	14	320	44	LONDON	-6	-1	3	-15	1	1	220	5
ITHERS	15	-5	-3	-23	0	15	130	31	MOOSONEL	-20	-1	-4	30	11	70	340	3
NCOUVER INT'L	0	-2	7	-7	14	0		*	NORTH BAY	12	-1	0	-27	10	28		
CTORIA INT'L	1	-1	7	5	7	0	050	39	OTTAWA INT'L	-10	0	3	-22	4	22		
LIAMS LAKE	-15	-6	-4	25	5	16		X	PETAWAWA	-12	0	1	-25	6	23		
UKON TERRITORY	~			25	•	.0		^	PICKLE LAKE	-21	-1	-5	30	4	40		
W'SON	-30	_1	-23	-34	*				RED LAKE	-20	-1	5	-32	4	23	350	4
		-4		A STATE OF THE STA	1	*		v	SUDBURY		-1	-3				330	1
YO	-28	-3	-23	-34		31		X		-11	1	1	-25	4	40	204	
INGLE POINT A	-9	14	-2	-23	8	51		*	THUNDER BAY	-14	-1	1	-27	2	9	290	,
TSON LAKE	-25	-1	-11	-34	0	40		*	TIMMINS	-16	0	0	-31	8	41	310	•
ITEHORSE	-22	-5	-15	-31	1	18	190	44	TORONTO INT'L	-6	-1	4	-16	0	1	260	(
ORTHWEST TERRITORI	ES								TRENTON	7	-1	5	-19	7	1		
ERT	-36	4	-21	-44	3	31	210	31	WIARTON	-6	-1	3	-18	14	10		
KER LAKE	-30	1	-18	-38	2	73	340	74	WINDSOR	-7	-3	3	-17	*	*	240	
MBRIDGE BAY	-30	2	-18	-36	0	22	350	70	QUEBEC								
PE DYER	-21	1	-12	-28	0	29	300	65	BAGOTVILLE	-15	0	-1	-28	6	22	260	4
DE	-26	0	-18	-34	2	22	310	57	BLANC SABLON	-10	2	-1	-24	36	5	200	
PPERMINE		5			28	100	330	106	INUKJUAK		ō	-12	-36	5	37	160	
	-24	2	-0	-33		35	330	The same of the sa	KUUWUAQ	-22	7.7			3			1
RAL HARBOUR	-25	-	17	-38	6	32		X	CANCEL STREET, CONTROL OF CONTROL	-27	-6	-15	-35	7	55	260	
REKA	-43	-7	-32	-49	0	11		*	KUUJUARAPIK	-22		-7	-33	7	17	150	7
rt smith	-25	-1	-8	-40	3	37		X	MANIWAKI	-12	0	0	-24	6	24	290	5
ALUIT	-23	0	-14	-32	*	*	350	37	MONT JOLI	-11	-1	0	-20	8	15	220	
LL BEACH	-28	1	-18	-36	1	30		*	MONTREAL INT'L	-9	0	3	-21	3	*	220	(
JVIK	-14	14	-4	-28	6	41		X	NATASHQUAN	-13	-3	-2	-23	11	12	360	9
OULD BAY	-29	4	-16	40	4	15		X	QUEBEC	-10	1	-1	24	16	34	240	(
RMAN WELLS	-16	11	-3	-31	6	17		X	SCHEFFERVILLE	-27	-5	-15	-35	3	51		
SOLUTE	-29	2	-23	-35	3	7	040	87	SEPT-ILES	-14	-2	-4	-26	16	12	360	9
302012	23	-	25	33		NAME OF	010	0,	SHERBROOKE	-11	-1	2	-25	9	26	260	
LLOWKNIFE	26	0	0	20			220	76	The state of the s	-16	0		-32	12	45	260	
	26	0	-9	38		*	320	10	VAL D'OR	-10	U	-1	-32	12	40	200	
BERTA		-						-	NEW BRUNSWICK	_		-	~	-	24	272	
LGARY INT'L	13	-3	2	-24	3	1	350	61	CHARLO	-12	-1	2	-22	12	29	270	:
LD LAKE	-19	-3	-7	-37	3	8	330	72	CHATHAM	-11	-3	1	-25	16	29	320	
RONATION	-18	-4	-7	-31	0	0	330	69	FREDERICTON	-7	1	3	-22	14	30	280	(
MONTON NAMAO	-14	-1	-6	-26	5	6	330	56	MONCTON	-9	-3	4	-22	18	30	280	(
RT MCMURRAY	-22	-3	-8	-39	7	24		X	SAINT JOHN	-9	-3	5	-21	25	40	320	-
H LEVEL	-20	0	-6	-31	1	18	030	59	NOVA SCOTIA								
SPER	-17	-6	-3	-26	0	8		X	GREENWOOD	-6	-2	5	-14	19	28	030	,
THBRIDGE	-13	-5	-1	-25	2	2	280	78	SHEARWATER	-6	-3	4	-16	36	11	330	
DICINE HAT	-16	-5	-1	-28	1	1	290	46	SYDNEY	-5	-2	3	-15	73	55	020	(
ACE RIVER	-17	0	-6	-28	7	*	310	43	YARMOUTH	-3	-1	5	-12	30	1	260	1
SKATCHEWAN	-1/	U	-0	-20	1	*	310	+3	PRINCE EDWARD ISLAN			3	-12	30	,	200	(
	20		•	-	_	0.	244	60			~	0		20	67	240	
EE LAKE	-26	-6	-8	-42	1	21	310	69	CHARLOT TETOWN	-7	-2	3	-17	38	67	340	
TEVAN	-16	-2	1	-29	1	2	320	12	SUMMERSIDE	-7	1	4	-17	24	40	330	
RONGE	-23	-3	-6	-40	7	49	310	72	NEWFOUNDLAND	1							
GINA	-18	-2	-1	-35	3	5	330	6/	CARTWRIGHT	-12	-1	-2	-25	17	72	340	9
SKATOON	-19	-1	-5	-35	3	7	300	59	CHURCHILL FALLS	-25	-7	-14	-34	5	60	300	
IFT CURRENT	-18	-6	-4	-34	4	7		X	GANDER INT'L	-7	-2	1	-16	50	55	300	10
RKTON	-20	-1	-5	-33	2	3	310	67	GOOSE	-19	-4	-9	-27	6	36	360	
ANITOBA				55		-	0.0	٠,	PORT-AUX-BASQUES	-5	-2	2	-11	48	45	030	10
ANDON		^	2	21	2		200	70	The state of the s	5	-2	1	-11	23	25	290	-
	-18	0	-3	-31	2	1	290	78	ST JOHN'S			4	-10	29	17	290	
URCHILL	-24	1		-34	3		340	67	ST LAWRENCE WABUSH LAKE	-3	-1	2		6		010	
IN LAKE	-26		14	10	*	16	350								71 10	(111)	

AV = weekly mean temperature in degree C

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 am, 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

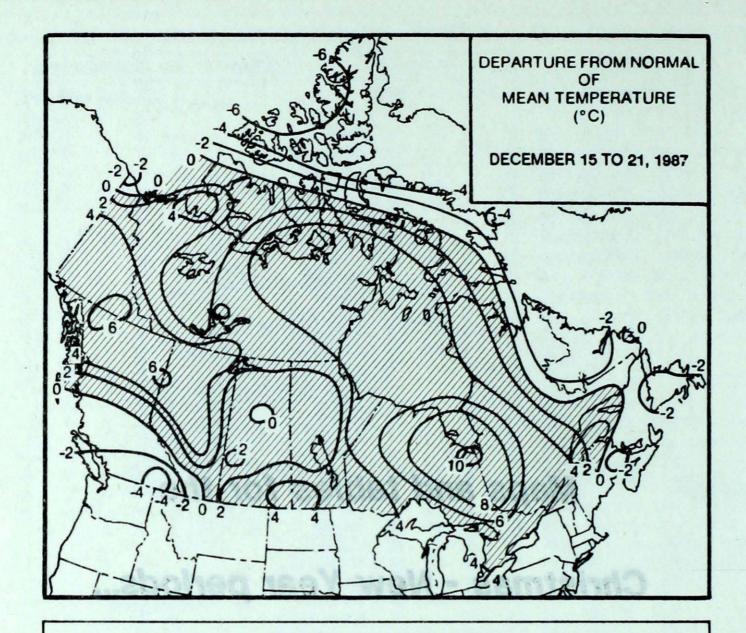
Maps and tables for the

Christmas - New Year periods...

December 15 - 21, 1987

December 22 - 28, 1987





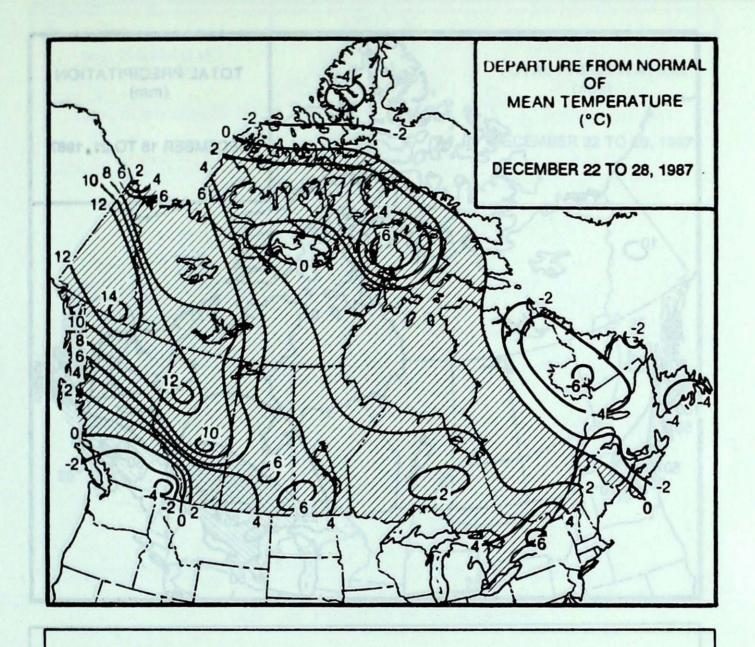
WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM MINIMUM

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	MCINNES ISLAND	8	FORT NELSON -27
	TESLIN	0	MAY0-34
	CAPE DORSET A	-8	EUREKA -48
	RED DEER	4	FORT CHIPEWYAN-30
SASKATCHEWAN	ESTEVAN	3	CREE LAKE - 34
MANITOBA	PORTAGE LA PRAIRIE	-1	THOMPSON - 30
ONTARIO	PORT WELLER	9	RED LAKE - 25
QUEBEC	MONTREAL INT'L	5	SCHEFFERVILLE - 35
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	SAINT JOHN SABLE ISLAND EAST POINT ST LAWRENCE	1 7 1 1	FREDERICTON -22 TRURO -20 CHARLOTTETOWN -15 WABUSH LAKE -37

ACROSS THE NATION

WARMEST MEAN TEMPERATURE 4 MCINNES ISLAND BC -42 EUREKA NWT COOLEST MEAN TEMPERATURE

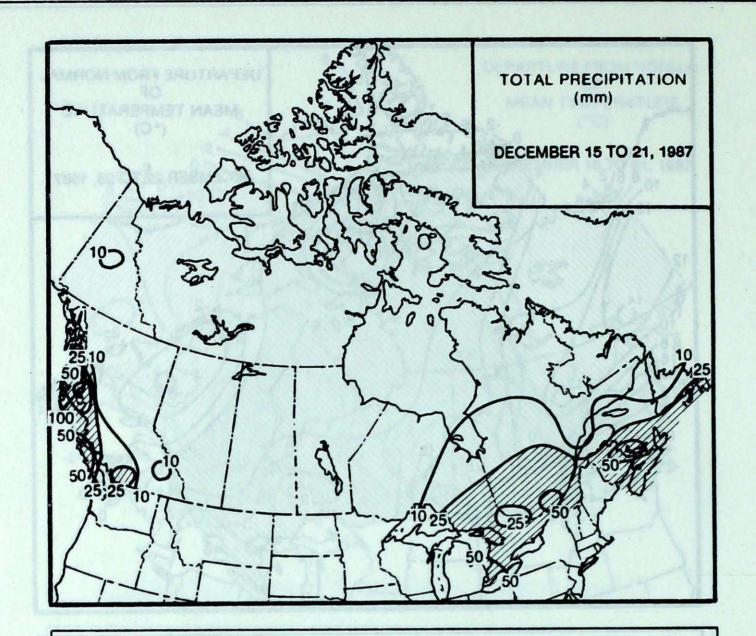


WEEKLY TEMPERATURE EXTREME (C)

	MAXIMUM		MINIMUM
BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	ESTEVAN POINT WHITEHORSE I NUVIK LETHBRIDGE	9 4 -4 10	EUREKA -45
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	BROADVIEW PORTAGE LA PRAIRIE WINDSOR MONTREAL INT'L	5 2 10 4	CREE LAKE -31 CHURCHILL -32 THOMPSON RED LAKE -32 SCHEFFERVILLE -39
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	SHERBROOKE SAINT JOHN SHELBURNE EAST POINT BURGEO	2 6 1 2	SAINT JOHN -21 GREENWOOD -18 CHARLOTTETOWN -16 WABUSH LAKE -35

ACROSS THE NATION

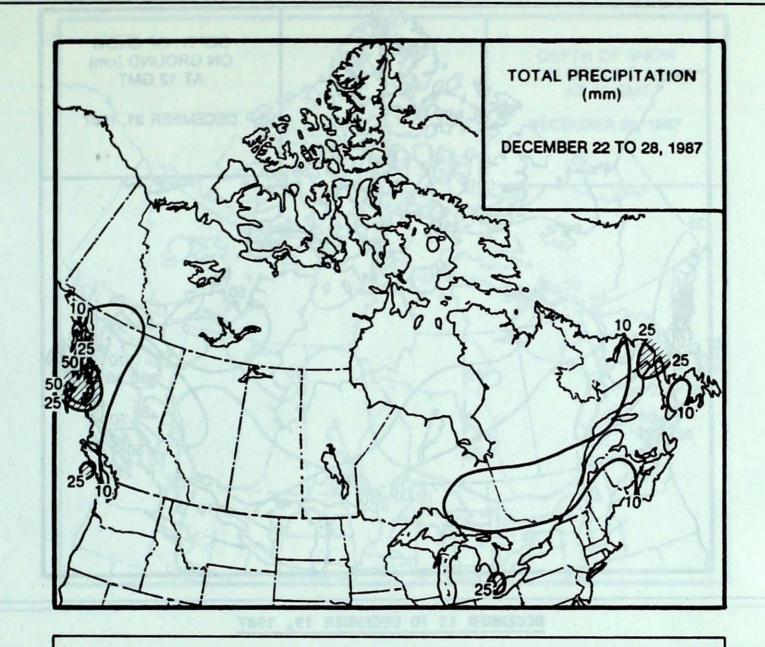
WARMEST MEAN TEMPERATURE	6	CAPE ST.JAMES	BC
COOLEST MEAN TEMPERATURE	-40	EUREKA	NWT



HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA	PRINCE RUPERT	101
YUKON TERRITORY	MAYO	10
NORTHWEST TERRITORIES	CAPE DORSET A	8
ALBERTA	FORT CHIPEWYAN	7
SASKATCHEWAN	WYNYARD	6
MANITOBA	NORWAY HOUSE	7
ONTARIO	LONDON	62
QUEBEC	STE AGATHE DES MONTS	50
THE THE RESERVE THE RESERVE THE		FUNE
NEW BRUNSWICK	MONCTON	60
NOVA SCOTIA	SHELBURNE	35
PRINCE EDWARD ISLAND	SUMMERSIDE	63
NEWFOUNDLAND	ST JOHN'S	42

Manuson entry



HEAVIEST WEEKLY PRECIPITATION (mm)

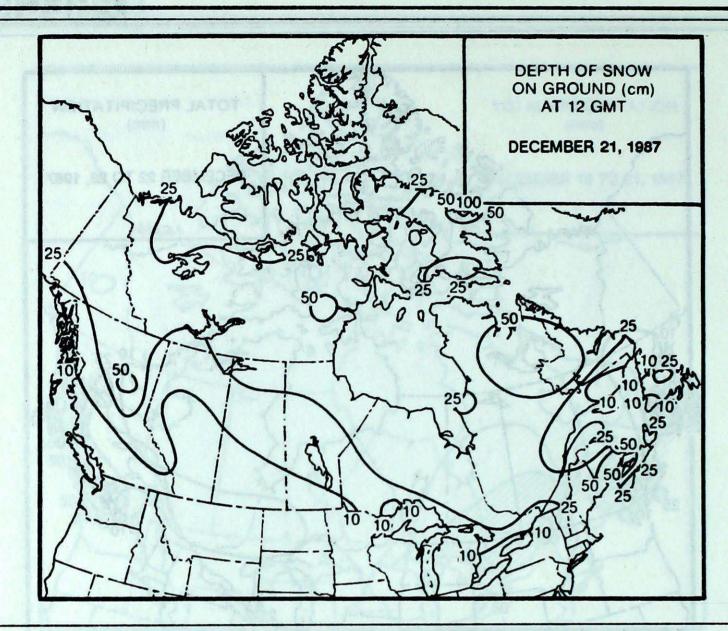
BRITISH COLUMBIA	LANGARA	63
YUKON TERRITORY	WATSON LAKE	16
NORTHWEST TERRITORIES	FORT SIMPSON	10
ALBERTA	FORT MCMURRAY	4
SASKATCHEWAN	LA RONGE	4
MANITOBA	THOMPSON	4
ONTARIO	WINDSOR	28
QUEBEC	BLANC SABLON	26
NEW BRUNSWICK	CHARLO	22
NOVA SCOTIA	SABLE ISLAND	15
PRINCE EDWARD ISLAND	CHARLOTTETOWN	21
NEWFOUNDLAND	ST ANTHONY	46

Hewfoundland, Hove Scotle

Sedaup of

Interio, New York

Halpe



SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Longwoods	14	4.4	16(m)	Indiana, Ohio, Pennsylvania
	15	4.1	12(m)	Ohio, Pennsylvania
	16	4.7	9(s)	Northern Ontario, Michigan
	19	4.2	18(r)	Tennessee, Kentucky, Ohio
Dorset	13	4.8	5(m)	Minnesota, Wisconsin, Michigan
	14	4.4	1(s)	Wisconsin, Michigan
	15	4.5	25(s)	Ohio, Pennsylvania, New York, Eastern Ontario
	16	4.4	1(s)	Northwestern Quebec, Central Ontario
	18	4.1	3(s)	Wisconsin, Michigan, Southern Ontario
	19	4.6	7(s)	Kentucky, Ohio, Pennsylvania, New York
Chalk River	15	4.6	18(s)	Michigan, New York, Eastern Ontario
	16	4.2	1(s)	Central Quebec, Southern Quebec
	18	4.1	5(s)	Missouri, Illinois, Michigan, Central Ontario
	19	4.6	8(s)	Illinois, Michigan, Southern Ontario, Eastern Quebec
Sutton	15	4.3	9(s)	Central Ontario, New York, Vermont, Massachussetts, New Hampshir
	16	4.2	8(s)	Lower North Shore, New Brunswick, Maine, Southern Quebec
	18	4.3	1(s)	Northwestern Quebec, Central Ontario, Southern Ontario, New York
	19	3.9	2(s)	Lake Huron, Southern Ontario, Southern Quebec
Montmorency	15	5.4	11(s)	Labrador, New Brunswick, Maine
	18	4.5	1(s)	Northern Quebec, Central Quebec, Southern Quebec
Kejimkujik	15	5.4	11(s)	Nova Scotia, Prince Edward Island, Lower North Shore
	16	5.4	8(s)	Newfoundland, Nova Scotia
	18	5.0	1(s)	Labrador, Lower North Shore, New Brunswick
	19	5.4	1(s)	Northern Quebec, Central Quebec, Southern Quebec, Maine

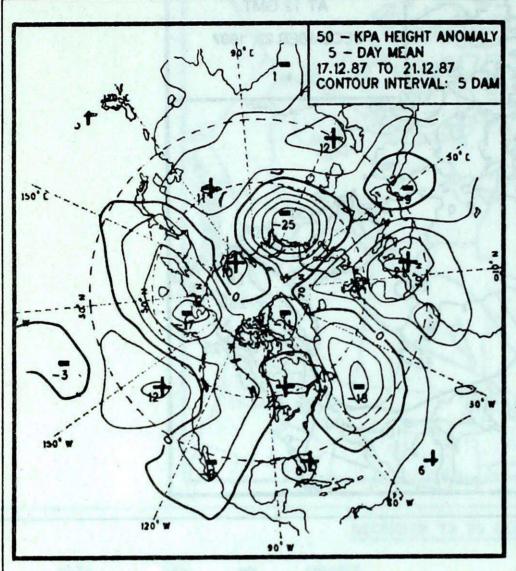


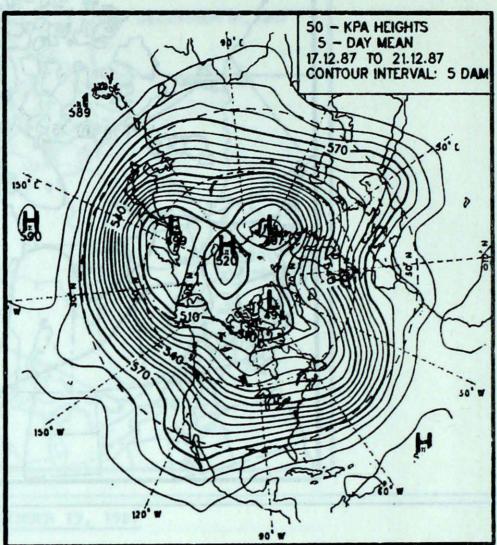
Cont'd from page 4

DECEMBER 20, 1987 TO JANUARY 2, 1988

SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Montmorency	20	4.5	14(s)	Pennsylvania, New York, Southern Quebec
	21	4.9	3(s)	Minnesota, Wisconsin, Central Ontario, Central Quebec
	22	4.4	3(s)	Wisconsin, Michigan, Central Ontario, Central Quebec
	23	4.3	2(s)	Michigan, Central Ontario, Central Quebec
	24	4.1	3(s)	Pennsylvania, New York, Central Quebec
	25	4.1	4(s)	Pennsylvania, New York, Central Quebec
	31	4.1	6(s)	Southern Ontario, New York, Southern Quebec
	1	4.7	3(s)	Pennsylvania, New York, Eastern Ontario, Central Quebe
Kejimkujik	20	4.5	10(m)	New England, Atlantic Ocean
	24	3.9	1(s)	Atlantic Ocean
	25	3.8	3(s)	Atlantic Ocean
	26	4.1	7(s)	Quebec, New Brunswick
	28	3.8	1(s)	Quebec, New Brunswick
	30	5.2	13(s)	Quebec, New Brunswick
	31	4.7	2(s)	Virginia, New Jersey, Southern New England
		4.2	2(s)	Ohio, Pennsylvania, Southern New England

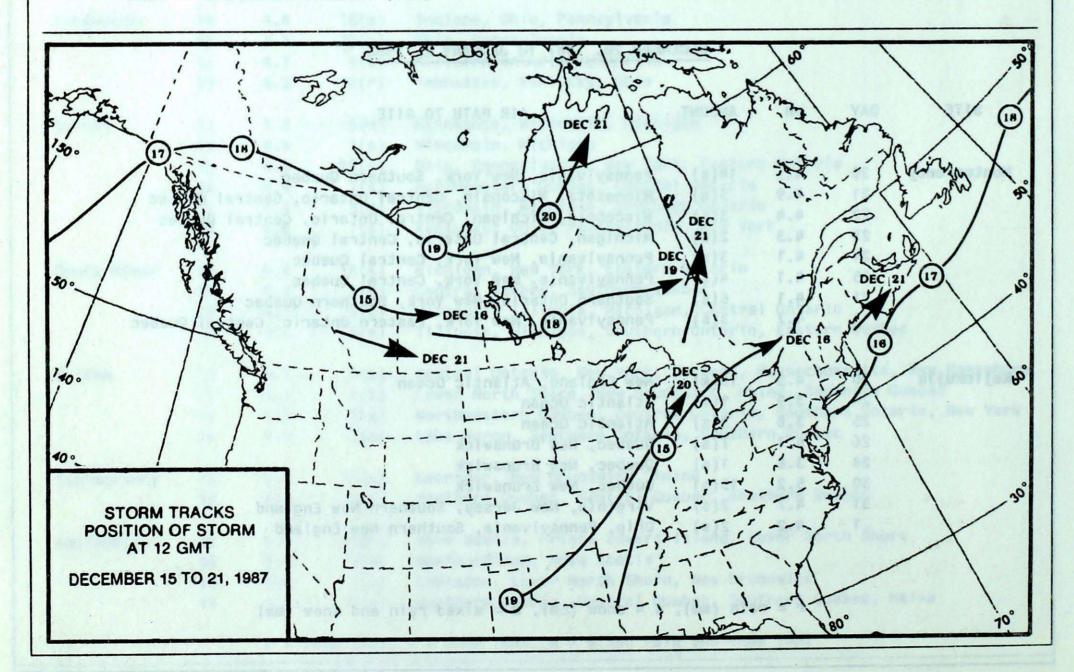
r = rain (mm), s = snow (cm), m = mixed rain and snow (mm)

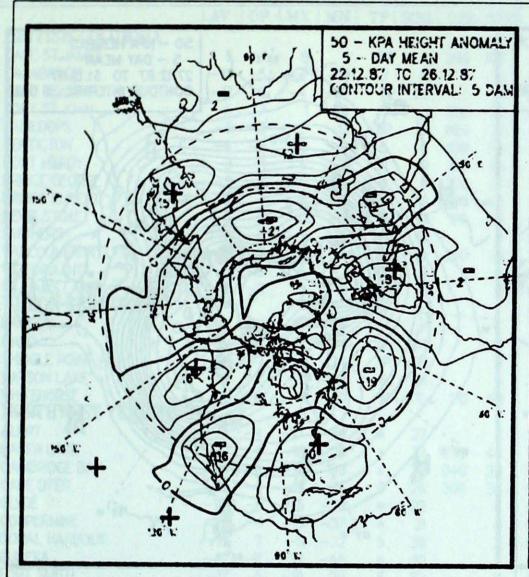




MEAN 50 KPa HEIGHT ANOMALY (dam)

MEAN 50 KPa HEIGHTS (dam)

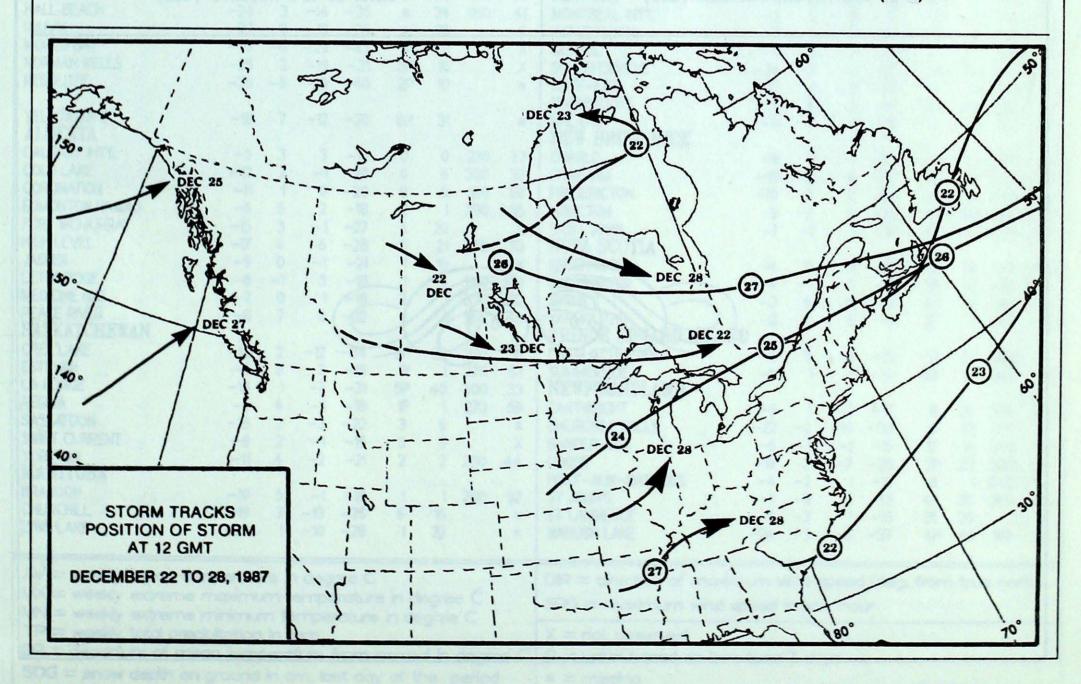


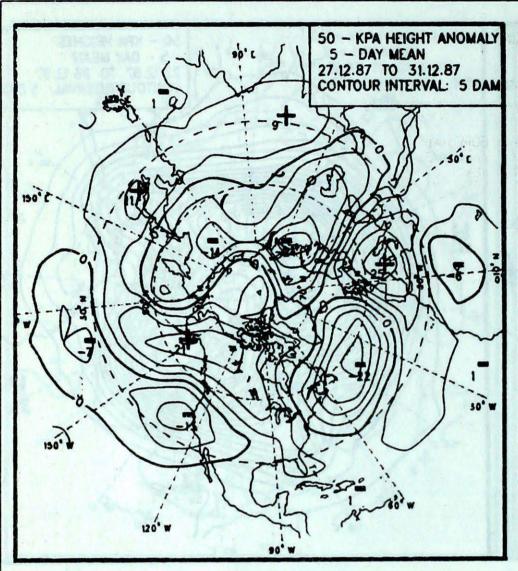


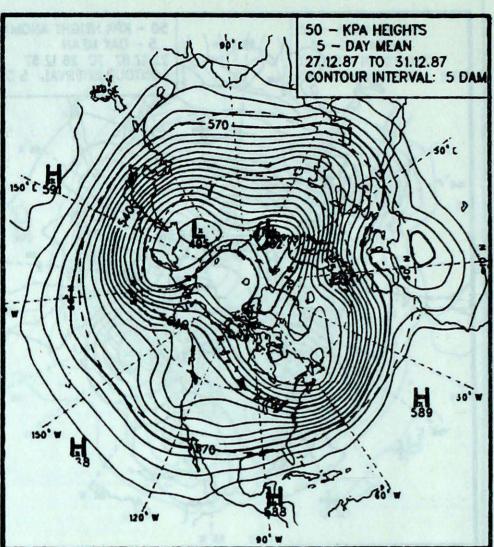
50 - KPA HEIGHTS
5 - DAY MEAN
22 12 87 TO 26 12 87
CONTOUR INTERVAL 5 DAM
500 T

MEAN 50 KPa HEIGHT ANOMALY (dam)

MEAN 50 KPa HEIGHTS (dam)

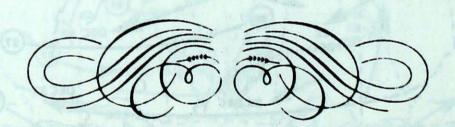






MEAN 50 KPa HEIGHT ANOMALY (dam)

MEAN 50 KPa HEIGHTS (dam)



RTITISH COLUMBIA FET STLAMES 5 -1 8 1 1 59 2 200 10 10 10 10 10 10 10 10 10 10 10 10 1	STATION	TE	TEMPERATURE		PRECIP. WIND MX		D MX	STATION	TEMPERATURE				PRECIP.		WIND MX			
RTITISH COLUMBIA FET STLAMES 5 -1 8 1 1 59 2 200 10 10 10 10 10 10 10 10 10 10 10 10 1	Lore Loop Let Lore	AV	DP	MX	MN	TP	SOG	DIR	SPD	MA SOE SE NIM	AV	DP	MX	MN	TP	SOG	DIR	SE
FE STLAMES 5 -1 6 -1 5 8 1 5 9 2 280 106 NAIRONOK -10 -5 -2 -19 3 1 2 6 3 4 1 3 270 NAIRONOK -10 -5 -2 -19 3 2 6 3 4 1 3 270 NAIRONOK -10 -7 5 -4 -27 10 23 4 5 NAIRONOK -10 -7 5 -4 -27 10 23 4 5 NAIRONOK -10 -5 -2 11 -20 6 1 1 2 20 5 NAIRONOK -10 -5 -2 11 -20 6 1 1 2 20 5 NAIRONOK -10 -5 -2 1 1 -20 6 1 1 2 20 5 NAIRONOK -10 -5 -2 1 1 -20 6 1 1 2 20 5 NAIRONOK -10 -5 -2 1 1 -20 6 1 1 2 20 5 NAIRONOK -10 -5 -2 1 1 -20 6 1 1 2 20 5 NAIRONOK -10 1 1 2 2 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2	RITISH COLUMBIA									THE PAS	The state of the s	4						43
AMBROOK -10 -5 -2 -19 2 6 * * WINFECHITL -10 4 -2 -19 10 4 160 KT ISLON -7 5 -4 -27 -19 2 6 * * WINFECHITL -10 4 -2 -19 10 10 17 17 17 17 17 17		5	-1	8	1	5P	*	280	106								17.74	*
NT MESSON — 70 5 -4 -27 0 2 3			-		-19		6	1200									160	43
RT STLONH	The state of the s											7	-	13	"		100	7.
MILLODOS			7	1			23	240	ALC: NO PERSON NAMED IN		10	2	2	25		12	270	2
NICTON — 4 -3 0 -9 5 4 190 54 190 660 RE BAY — 22 4 2 -9 21 19 660 RE HARDY — 3 -1 6 -2 5 10 0 120 59 KAPUSKASING — 7 9 -1 -1 5 5 28 0 10 0 100 RECERVER — 2 1 6 -5 5 10 0 100 100 RECERVER — 7 10 -3 -1 5 6 2 14 190 RECERVER — 2 1 6 -5 5 10 0 100 100 RECERVER — 1 5 -5 -2 0 -1 -1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 100 RECERVER — 1 5 -5 -2 0 -1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 7 10 -3 -5 6 2 1 10 RECERVER — 1 5 6 2 20 89 RAPUSKASING — 1 10 RECERVER — 1			1			0.00	6	STATE OF THE PARTY OF	The second second									3
RT HARDY 3 -1 6 -2 5 10 -10 9 6 220 599 KAPUSKASING -7 -2 0 -12 15 0 -10 9 6 220 599 KAPUSKASING -7 -7 -5 62 0 -12 12 0 -18 12 0 -10 18 9 0 0 18 9 0 0 18 9 0 0 18 18 1 0 0 18 18 18 18 18 18 18 18 18 18 18 18 18				-			and the second		- CONTR									4
NICE GEORGE				0	7-2				100									6
NICE PUPPER 1. 2		1	-1	6	The second				THE RESERVE OF THE PERSON NAMED IN		-							(
VELSTOKE			5	0	The state of the s	-	6			The state of the s	-11	9321	-5			14	180	
THEES	INCE RUPERT	2	1	6	-5	101	0	180	70	KINGSTON	-1	5	6	-10	18P	0		
NCOUVERNITL 2 -2 6 -4 21 0 290 39 NORTH BAY -5 7 1 -10 34P 20 250 1000 ATT STORA NITL 1 -3 6 -3 13 0 8	VELSTOKE	-5	-2	0	-12	15	12	170	56	LONDON	0	4	7	-5	62	1	230	8
NCOUVERINTL		-5	3	1	-14	5	16		*	MOOSONEE	-7	10	-3	-15	11	46	040	3
TORIAN INTL		2	-2	6	The state of			290	39			130	1	277.5	and the second			4
LIAMS_LAKE		1	-3	6				230	100				1				250	
NON TERRITORY NO				2	100				700							1200000		
MSON	LINONI TEDDITODY	-0	-2	2	-10	NF	N		^			1 100						
NO				944									MIDO THE					
INGLE POINT A			0				1						-6				280	
TISON LAKE	YO		4	-2	100				X	SUDBURY		6	1	-14	34P	33		
INTEMPREST TERRITORIES -11 4 -1 -30	INGLE POINT A	-25	-1	-19	-34	3P	21		*	THUNDER BAY	-7	5	-1	-18	7P	7	010	
ITEHORSE	TSON LAKE	-17	7	-3	-32	6	31		*	TIMMINS	-7	9	-1	-14	34	46	040	
DRTHWEST TERRITORIES			4	-1		1P	16	170	63	TORONTO INT'I	0	4	6	-9	31	1		1
ERT	PRTHWEST TERRITO											5	A STATE OF THE PARTY.	A STREET, SQUARE,	The state of the latest st	1		m
MERILAKE -22 6 -16 -29 * 77 330 48 MINISOR 1 1 4 9 -3 56 0 210 MINISOR 1 1 4 9 -3 56 0 210 MINISOR 2 1 4 -5 -5 -27 3 56 0 210 MINISOR 2 1 4 -5 -5 -27 3 56 0 210 MINISOR 2 1 4 -5 -5 -27 3 5 0 0 210 MINISOR 2 1 4 -5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 3 9 34 140 MINISOR 2 1 5 -5 -27 9 9 34 140 MINISOR 2 1 5 -5 -27 9 9 34 140 MINISOR 2 1 5 -5 -27 9 9 34 140 MINISOR 2 1 5 -5 -27 9 43 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -5 -4 -22 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -5 -4 -22 7 7 14 280 MINISOR 2 1 5 -5 -5 -5 -5 -5 -5 -6 MINISOR 2 1 5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -			-4	_27	-30		27						5			0		
MBRIDGE BAY -24 6 -14 -33 * 20 040 33 PFE DYER -25 -4 -15 -35 0 26 300 35 DYE -30 -5 -16 -38 * 22 * 8 BAGOTVILLE -30 -5 -16 -38 * 22 * 8 BANC SABLON -9 * -2 -18 1 1 PPERMINE -26 1 -15 -37 * 31 * 1 NUKJUAK -14 5 -5 -23 9 34 140 RAL HARBOUR -19 7 -11 -32 5 39 X KUUJUJUAQ -24 -4 -10 -31 0 56 REXA -42 -7 -32 -48 * 10 * 8 REXA -42 -7 -32 -48 * 10 * 8 REXA RESAH -17 5 -10 -29 5 33 X KUUJUJUAQ -24 -4 -10 -31 0 56 REXA -42 -7 -32 -48 * 10 * 8 REXAH RESH RESH RESH -10 -29 1 1 -10 -30 IP 19 140 46 MONT JOLI -8 2 2 -16 8 10 140 MONT JOLI -8 2 2 -16 8								220									710	10
PE DYER PC 25 -4 -15 -35 0 26 300 35 PREMINE -30 -5 -16 -38 * 22 ** PPERMINE -26 1 -15 -37 * 31 ** PPERMINE -27 1 -10 -30 PP 3		1000000	1					A STATE OF THE PARTY OF THE PAR	ALTERNATION AND ACCURATION			4	9	-5	20	U	210	10
PEPERMINE		1000	0			72.0			V DESCRIPTION IN									
PRERMINE -26 1 -15 -37 * 31 * * * * * * * * * * * * * * * * *						0		300	35			4	1		7	15	100	
RAL HARBOUR REIXA -42 -7 -32 -48 * 10 * 10 * 39	YDE		-5			*	22		*	BLANC SABLON	-9	*	-2		1	1		
REKA	PPERMINE	-26	1	-15	-37	*	31		*	INUKJUAK	-14	5	-5	-23	9	34	140	4
REKA			7	-11		5	39		X	KUUJUAQ	-24	-4	-10		0	56		
RT SMITH			-7			and the same			S. A. S.								280	
ALUIT -21 1 -10 -30 IP 19 140 46 ILL BEACH -24 3 -14 -35 * 24 050 41 MONTREAL INT'L -3 5 5 -5 -15 40 17 240 MONTREAL INT'L -3 5 5 -5 -15 40 17 240 MONTREAL INT'L -3 5 5 -5 -15 40 17 240 MONTREAL INT'L -3 5 5 -5 -15 40 17 240 MONTREAL INT'L -3 5 5 -15 40 17 240 MONTREAL INT'L -3 5 5 -15 40 17 240 MONTREAL INT'L -3 5 5 -15 40 30 070 RRAN WELLS -25 2 -19 -31 3P 16 X SCHEFFERVILE -24 -3 -10 -35 3 -15 40 30 070 SCHUTE -35 -6 -29 -40 2P 10 * * EPPT-ILES -72 1 -2 -22 14 10 120 SHERBROOKE -5 5 2 -14 40 34 260 LICLOWKNIFE -18 7 -12 -28 8P 31 * * NEW BRUNSWICK LICLOWKNIFE -10 1 1 0 -20 6 6 280 37 RONATION -11 1 0 -20 0 0 310 59 RECONTRON -11 1 0 -20 0 0 310 59 RECONTRON -15 3 -1 -27 5 20 X SHERBROOKE -5 0 -22 34 38 040 MONTON NAMAO -6 5 2 -18 2 1 280 65 MONCTON -9 -2 0 -22 34 38 040 MONTON -10 -2 0 -22 34 38 040 MONTON -10 -7 -1 1 -16 34 56 030 MONTON -9 -2 0 0 -22 34 38 040 MONTON -9 -2 0 0 0 -22 0			5		200	1.30			200								200	,
LL BEACH -24 3 -14 -35 * 24 050 41 NATE LINT'L -3 5 5 -15 40 17 240 NATE LINT'L -3 5 5 5 -15 40 17 240 NATE LINT'L -3 5 5 5 -15 40 30 070 RMAN WELLS -25 2 -19 -31 3P 16 X SOLUTE -35 -6 -29 -40 2P 10 * * SOLUTE -35 -6 -29 -40 2P 10 * * SEPT-ILES -12 1 -2 -22 14 10 12 SERTA LLOWKNIFE -18 7 -12 -28 8P 31 * * LLOWKNIFE LLOWKNIFE -18 7 -12 -28 8P 31 * * LLOWKNIFE LLOWKNIFE -18 7 -12 -28 8P 31 * * LLOWKNIFE LLOWKNIFE -18 7 -12 -28 8P 31 * * LLOWKNIFE LLOWKNIFE -18 7 -12 -28 8P 31 * * LLOWKNIFE LLOWKNIFE -18 7 -12 -28 8P 31 * * MEW BRUNSWICK CHARLO CHARLO CHARLO CHARLO -9 1 -1 -20 11P 12 080 CHARLO CHARLO CHARLO CHARLO -9 1 -1 -20 34 38 040 MONCTON MONCTON -11 1 0 -20 0 0 310 59 MONCTON MONCTON -10 -2 0 -22 34 38 040 MONCTON -11 1 0 -20 0 0 310 59 MONCTON -10 -2 0 -22 34 38 040 MONCTON -10 -2 0 -22 34 50 05 MONCTON								140				3	3				140	
VIX -27 0 - 18 -35 x 35 X NATASHQUAN -11 0 -1 -22 13 1 040 VIULD BAY -37 -6 -29 -43 x 11 X VIULD BAY -37 -6 -29 -40 2P 10 x SOLUTE -35 -6 -29 -40 2P 10 x SOLUTE -35 -6 -29 -40 2P 10 x SEPTA SEPTA -5 3 3 -15 0 0 270 72 LICOWKNIFE -18 7 -12 -28 8P 31 x LICARY INTIL -5 3 3 -15 0 0 270 72 LICOWKNIFE -18 -7 -20 6 6 280 37 RONATION -11 1 0 -20 0 0 310 59 RONATION -11 1 0 -20 0 0 310 59 RONATION -11 1 0 -20 0 0 310 59 REFER -9 0 -1 -21 1 10 X SEPER -9 0 -1 -20 1 1 260 48 SER -9 0 -1 -21 1 1 260 48 SER -9 0 -1 -21 1 1 270 59 ACE RIVER -8 7 0 -22 3 3 5 SEKATCHBWAN -6 5 3 -15 5 20 30 SIKATCHBWAN -10 5 -1 -18 1 270 59 SIKATCHBWAN -10 5 -1 -15 3 9 X SIKATCHBERT -8 2 -1 -15 3 3 3 SIKATCHBERT -8	1 Table 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								-1.4.1.4			2	2					8
DULD BAY						*		050	The state of the s			5				1/		
RMAN WELLS -25	UVIK				-35	*			X	ALTERNATION OF THE PROPERTY OF		0				1		4
SOLUTE	OULD BAY	-37	-6	-29	-43	*	11		X	QUEBEC	-6	5	3	-15	40	30	070	-
SOLUTE	RMAN WELLS	-25	2	-19	-31	3P	16		X	SCHEFFERVILLE	-24	-3	-10	-35	3P	50		
SHERBROOKE -5 5 2 -14 40 34 260									200	The state of the s		1					120	
LLOWKNIFE	302012	-					1 325			A STATE OF THE PARTY OF THE PAR	The second secon	5						
NEW BRUNSWICK LGARY INTL -5 3 3 -15 0 0 270 72 CHARLO -9 1 -1 -20 11P 12 080	LOWWHILE	_10	7	-12	-20	90	21						170					
LGARY INT'L -5 3 3 3 -15 0 0 770 72 CHARLO -9 1 -1 -20 11P 12 080 LD LAKE -12 2 -1 -20 6 6 280 37 CHATHAM -10 -2 0 -22 33 32 080 CHATHAM -10 -2 0 -22 33 32 080 FREDERICTON -10 -2 0 -22 34 38 040 MONTON NAMAO -6 5 2 -18 2 1 280 65 MONCTON -15 3 -1 -27 5 20 X SAINT JOHN -7 -1 1 -18 34 56 030 BY SEEN -9 0 -1 -21 1 10 X SAINT JOHN -7 -1 1 -18 34 56 030 NOVA SCOTIA SPER -9 0 -1 -21 1 10 X SAINT JOHN -7 -1 1 -18 34 56 030 NOVA SCOTIA SPERNOOD -4 0 3 -15 21 29 040 SHEARWATER -5 -12 39 14 010 DICINE HAT -7 0 1 -18 2 1 300 52 SYDNEY -3 0 0 -2 39 14 010 DICINE HAT -7 0 -2 0 -22 30 33 2080 CHARLO SHEARWATER -4 -1 5 -12 39 14 010 SISKATCHEWAN EE LAKE -18 2 -12 -34 5P 22 320 31 TEVAN -6 5 3 -15 1P 1 270 67 RONGE -16 1 -7 -31 5P 40 300 33 SKATCHEWAN -9 4 -1 -18 1P 1 270 67 RONGE -16 1 -7 -31 5P 40 300 33 SKATON -11 4 -2 -21 2 2 2 280 44 SKATON -11 4 -2 -21 2 2 2 280 44 ANITOBA ANITOBA ANITOBA ANITOBA ANITOBA IURCHILL -19 3 -13 -25 6 16 6 ** ST LAWRENCE -5 -3 1 -15 31 20		-10		-12	-20	or	31		100	NEW DDINGWICK	-0	9		-15	21	33	100	
LD LAKE						W-01	Mary 1									-		
RONATION —11 1 0 -20 0 0 310 59 MONTON NAMAO —6 5 2 -18 2 1 280 65 MONTON NAMAO —6 5 2 -18 2 1 280 65 MONTON NAMAO —6 5 2 -18 2 1 280 65 MONTON NAMAO —7 -1 1 -18 34 56 030 MONTON NAMAO —7 -1 1 1 -18 34 56 030 MONTON NAMAO —7 -1 1 1 -18 34 56 030 MONTON —7 -1 1 1 -18 34 34 56 030 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —9 -2 0 -22 0 -22 0 0 -22 04 0 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 35 030 MONTON —7 -1 1 1 -18 34 38 040 MONTON —7 -1 1 1 -18 34 38 040 MONTON —9 -2 0 -22 0 0 -22 0 0 0 -22 0 0 0 -22 0 0 0 -22 0 0 0 0				3								1						
MONTON NAMAO			2	-1		6	6		The second second	CHATHAM			0					
RT MCMURRAY	RONATION	-11	1	0	-20	0	0	310	59	FREDERICTON	-10	-2	0	-22	34	38	040	
RT MCMURRAY	MONTON NAMAO	-6	5	2	-18	2	1	280	65	MONCTON	-9	-2	0	-22	60	68	020	8
H LEVEL -17		-15	3	-1			20		A CONTRACT OF THE PARTY OF THE				1		34	56	030	
SPER			A					340										
THBRIDGE	The state of the s		7	0.00		101		540			_1	0	2	_15	21	20	040	1
DICINE HAT							N	250										
ACE RIVER ACC			100	3			*		100000000000000000000000000000000000000									
PRINCE EDWARD ISLAND CHARLOTTETOWN -6 0 0 0 -15 31 57 050			0	1		2	1	CHICAGO CONTRACTOR	The state of the s			100						
EE LAKE		-8	7	0	-22	1	1	260	48			0	5	-8	27	6	100	
TEVAN	SKATCHEWAN								DOM:	PRINCE EDWARD ISLA	ND							
TEVAN	EE LAKE	-18	2	-12	-34	5P	22	320	31	CHARLOTTETOWN	-6	0	0	-15	31	57	050	
RONGE -16 1 -7 -31 5P 40 300 33 NEWFOUNDLAND GINA -9 4 -1 -18 1P 1 270 59 CARTWRIGHT -9 1 -2 -17 8 36 340 SKATOON -13 2 -3 -22 3 5 * CHURCHILL FALLS -22 -2 -10 -30 5 62 300 IFT CURRENT -8 2 -1 -15 3 9 X GANDER INT'L -6 -1 -1 -15 12 14 340 ORKTON -11 4 -2 -21 2 2 280 44 GOOSE -16 -2 -7 -26 3P 23 330 ANITOBA ANITOBA ANITOBA ANITOBA ANITOBA CARTWRIGHT -9 1 -2 -17 8 36 340 CHURCHILL FALLS -22 -2 -10 -30 5 62 300 GOOSE -16 -2 -7 -26 3P 23 330 PORT-AUX-BASQUES -4 -2 1 -10 11 1 040 CANDON -10 5 -1 -19 1 1 280 52 ST JOHN'S -4 -2 0 -13 42 35 360 EURCHILL -19 3 -13 -25 6 16 * ST LAWRENCE -5 -3 1 -15 31 20	TEVAN		5			1P	1		67	SUMMERSIDE	-5	1	1	-14	63	61	060	8
GINA -9 4 -1 -18 1P 1 270 59 CARTWRIGHT -9 1 -2 -17 8 36 340 SKATOON -13 2 -3 -22 3 5 * CHURCHILL FALLS -22 -2 -10 -30 5 62 300 IFT CURRENT -8 2 -1 -15 3 9 X GANDER INT'L -6 -1 -1 -15 12 14 340 ORKTON -11 4 -2 -21 2 2 280 44 GOOSE -16 -2 -7 -26 3P 23 330 ANITOBA ANITOBA ANDON -10 5 -1 -19 1 1 280 52 ST JOHN'S -4 -2 0 -13 42 35 360 URCHILL -19 3 -13 -25 6 16 * ST LAWRENCE -5 -3 1 -15 31 20			1				40		The second second									
SKATOON -13 2 -3 -22 3 5 * CHURCHILL FALLS -22 -2 -10 -30 5 62 300 IFT CURRENT -8 2 -1 -15 3 9 X GANDER INT'L -6 -1 -1 -15 12 14 340 PRKTON -11 4 -2 -21 2 2 280 44 GOOSE -16 -2 -7 -26 3P 23 330 ANITOBA ANITOBA ANITOBA ANITOBA CHURCHILL FALLS -22 -2 -10 -30 5 62 300 GANDER INT'L -6 -1 -1 -15 12 14 340 FORT-AUX-BASQUES -4 -2 1 -10 11 1 040 ST JOHN'S -4 -2 0 -13 42 35 360 FORT-AUX-BASQUES -5 -3 1 -15 31 20			1		110000000000000000000000000000000000000		-		ALCOHOLD IN	March Andrew Control of the Control	_0	1	-2	-17	ρ	36	340	
FIFT CURRENT -8 2 -1 -15 3 9 X GANDER INT'L -6 -1 -1 -15 12 14 340 ORKTON -11 4 -2 -21 2 2 280 44 GOOSE -16 -2 -7 -26 3P 23 330 PORT-AUX-BASQUES -4 -2 1 -10 11 1 040 PORT-AUX-BASQUES -4 -2 0 -13 42 35 360 OURCHILL -19 3 -13 -25 6 16 * ST LAWRENCE -5 -3 1 -15 31 20			- 7				-	2/0				1	100					
RKTON -11 4 -2 -21 2 2 280 44 GOOSE -16 -2 -7 -26 3P 23 330 PORT-AUX-BASQUES -4 -2 1 -10 11 1 040 PORT-AUX-BASQUES -4 -2 0 -13 42 35 360 PORT-HILL -19 3 -13 -25 6 16 * ST LAWRENCE -5 -3 1 -15 31 20			2	The same of the sa														
ANITOBA ANITOBA ANITOBA ON ANDON	The state of the s		2				9	MAK				200						
ANDON -10 5 -1 -19 1 1 280 52 ST JOHN'S -4 -2 0 -13 42 35 360 URCHILL -19 3 -13 -25 6 16 * ST LAWRENCE -5 -3 1 -15 31 20	ORKTON	-11	4	-2	-21	2	2	280	44		-16		-7		3P	23		
ANDON -10 5 -1 -19 1 1 280 52 ST JOHN'S -4 -2 0 -13 42 35 360 URCHILL -19 3 -13 -25 6 16 * ST LAWRENCE -5 -3 1 -15 31 20	ANITOBA								smo I	PORT-AUX-BASQUES	-4	-2	1	-10	11	1	040	!
URCHILL -19 3 -13 -25 6 16 * ST LAWRENCE -5 -3 1 -15 31 20	ANDON	-10	5	-1	-19	1	1	280	52				0			35		1
			0			6	16		11000				1				The Plan	
- 11 1 - 11 - 14 1 1 1 1 1 1 1 1 1 1 1 1					-		Dem		*	WABUSH LAKE			- 6	-		_	160	

AV = weekly mean temperature in degree C
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

STATION ,	TEMPERATURE				PRECIP. WIN			XM C	STATION	TE	MPEI	RATURE		PRECI	P. W	WIND MX	
	AV	DP	MX	MN	TP	SOG	DIR	SPD	THE RESERVE OF THE	AV	DP	MX	MN	TP S	OG D	IR SP	
BRITISH COLUMBIA									THE PAS	-13	6	-2	-28	2	15	*	
CAPE STUAMES	6	1	9	3	63	0	140	93	THOMPSON	-20	3	-6	-32	4	23	*	
RANBROOK	-13	-6	-4	-20	0	6	51950	*	WINNIPEG INT'L	-11	4	1	-21	1		30 39	
	-11	10	-3	-22	2	24	320	41	ONTARIO						RI		
ORT NELSON	The same					24	250	70	ATIKOKAN	-12	5	-2	-26	1	11 2	20 33	
ORT ST.JOHN	-2	12	5	-13	3		250		BIG TROUT LAKE	-21	1	-9	-31	6		0 35	
AMLOOPS	-6	-3	-2	-12	1	4	470	*					100				
ENTICTON	-5	-4	. 1	-10	2	5	170	37	GORE BAY	-3	4	2	-11	6			
ORT HARDY	3	0	8	-2	13	0	120	65	KAPUSKASING	-15		-4	-24	13		00 33	
PRINCE GEORGE	-6	3	0	-15	5	5	200	39	KENORA	-11	4	-1	-21	2	The state of the s	00 43	
PRINCE RUPERT	4	3	8	-3	51	0	180	83	KINGSTON	0	7	7	-11	0	0	,	
EVELSTOKE	-6	-1	0	-10	1	12		*	LONDON	1	5	9	-6	9		90 50	
MITHERS	-7	2	3	-17	0	16		*	MOOSONEE	-15	3	7	-26	6	50	- ×	
ANCOUVER INT'L	1	-2	6	-4	0	0		*	NORTH BAY	-8	4	-1	-21	15	23	×	
ICTORIA INT'L	2	-2	7	-3	1	0		*	OTTAWA INT'L	-4	5	3	-15	13	22		
	-8	1	Ó	-18	0	10		X	PETAWAWA	-8	1	2	-23	8	25		
VILLIAMS LAKE YUKON TERRITORY	-0		0	10		10		^	PICKLE LAKE	-16	3	-7	-27	2	36	ALUE.	
	40	_	-	24		-			RED LAKE	-16	2	-4	-32	2		90 3	
AWSON	-18	9	-3		*	*		v		-7	5	1	-19	13	39	30 3	
MAYO	-12	12	0	11000	3	31		X	SUDBURY	-CALL					7		
SHINGLE POINT A	-19	5	-1	Maria Maria	2	45		*	THUNDER BAY	-10	3	-1	-22	1		~~ ~	
ATSON LAKE	-9	15	2	-19	16	42		*	TIMMINS	-13	2	-4	-26	15		20 3	
WHITEHORSE	-6	12	4	-27	2	24	160	59	TORONTO INT'L	0	5	8	-7	4		20 4	
NORTHWEST TERRITOR	IES	_							TRENTON	0	6	8	-11	4	0		
ALERT	-34	-4	-30	-43	0	26		*	WIARTON	-1	4	6	-7	14	2		
AKER LAKE	-30	0	-26		0	74	320	67	WINDSOR	1	4	10	-3	28	0 0	60 5	
	-32	-1	-20		Ö	21	310	44	QUEBEC								
CAMBRIDGE BAY		1000				26	290	78	BAGOTVILLE	-14	0	-3	-27	18	31 3	00 4	
CAPE DYER	-22	-3	-11	-33	0	-0.0				-11		-2	-19	26	12		
CLYDE	-25	0	-20		0	21	310	48	BLANC SABLON			-5	-34	3		30 4	
COPPERMINE	-23	4	-15		6	35		*	INUKJUAK	-18				3			
CORAL HARBOUR	-27	0	-10	-30	3	40		X	KUWUAQ	-25	-6	-12	-34	1	55		
EUREKA	-40	-5	-31	-45	1	10		*	KUUJUARAPIK	-17	2	-10	-28	6		70 4	
FORT SMITH	-15	8	-8	-28	2	33		X	MANIWAKI	-8	4	0	-22	12	1.600	40 3	
QALUIT	-22	1	-8	-35	9	29	130	43	MONT JOLI	-10	0	-1	-17	19		20 7	
HALL BEACH	-21	7	-12		4	29	080	50	MONTREAL INT'L	-4	5	4	-15	8	12 2	90 3	
NUVIK	-19	8	-4		5	37		X	NATASHQUAN	-15	-5	-3	-22	6	10 3	40 3	
	-32	-1	-16		2	11		X	QUEBEC	-8	2	-1	-19	10	36 0	70 5	
MOULD BAY		7			2	15		x	SCHEFFERVILLE	-27	-7	-11	-39	0	50		
NORMAN WELLS	-19		-13		4		060		SEPT-ILES	-14		-4	-22	2		20 6	
RESOLUTE	-26	4	-18	-34	1	11	060	43		-7	3		-20	7		70 5	
									SHERBROOKE	W.S.		4		14			
YELLOWKNIFE	-16	10	-9	-26	3P	30		*	VAL D'OR	-14		-4	-27	14	37 3	30 4	
ALBERTA					2				NEW BRUNSWICK								
CALGARY INT'L	-3	5	8	-13	1	0	270	43	CHARLO	-11		-1	-20	22		00 5	
COLD LAKE	0 -8	7	2	-18	3	6	340	37	CHATHAM	-10	-2	0	-20	12		310 4	
CORONATION	0 -7	5	2	-14	2	Ö	330	35	FREDERICTON	-9	-1	2	-21	8	37 3	20 4	
	-3	9	0	-13	ō	1	290	48	MONCTON	-9	-3	-1	-20	9		00 5	
DMONTON NAMAO			9	17		19	250	X	SAINT JOHN	-7		2	-21	9		00 5	
ORT MCMURRAY	-10	8	2	-24	4		240		NOVA SCOTIA	3- 1		9-				11150	
HIGH LEVEL	-11	9	4	-25	1	20	340	33	The state of the s			- 4	-18	11	21 2	70 5	
JASPER	-8	2	-3		1	8		X	GREENWOOD	-5	-1	4				310 4	
ETHBRIDGE	-3	3	10	-15	1	1	250	50	SHEARWATER	-5	-2	3	-16	10			
MEDICINE HAT	-6	2	7	-17	0	1		*	SYDNEY	-6	-3	1	-10	11		30 5	
PEACE RIVER	-4	13	6	-11	0	0	270	70	YARMOUTH	-1	0	6	-10	11	1 3	30 6	
SASKATCHEWAN									PRINCE EDWARD ISLAN	ID							
CREE LAKE	-17	9	-5	-31	4	23		*	CHARLOTTETOWN	-7	-2	-1	-16	21	70 3	00 5	
	-7	4	4	1000	Ö	1	220	39	SUMMERSIDE	-7	-2	0	-15	16	68	310 4	
ESTEVAN			4	-28		44		*	NEWFOUNDLAND			F					
_A RONGE	-13		0.1			77	260	43	CARTWRIGHT	-12	-1	-5	-18	23	47 3	30 9	
REGINA	-9			-24		7115	260			-24		-10		1		00 3	
SASKATOON	-10		0			6	340	39	CHURCHILL FALLS				-14	14		60 6	
SWIFT CURRENT	-8	3	2	-22		8		X	GANDER INT'L	-8		-1		14			
YORKTON	-10	5	4-1	-25	0	1		*	GOOSE	-18		-8		8		50 3	
MANITOBA			D-				ALIA-		PORT-AUX-BASQUES	-5	-2	1	-10	17		80 10	
BRANDON	-12	3	Ac.	-24	1	1	240	39	ST JOHN'S	-6	-4	0	-12	15		30 7	
	-24		-18			16		100000000000000000000000000000000000000	ST LAWRENCE	-6		1	-11	11	30		
CHURCHILL					1			*	WABUSH LAKE		-5	-12	-35	1	48		
YNN LAKE	-19	4	-	J		20		200									

AV = weekly mean temperature in degree C

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 spe SPD = maximum wind speed in km/hour

X = not observed

P = value based on less than 7 days

* = missing