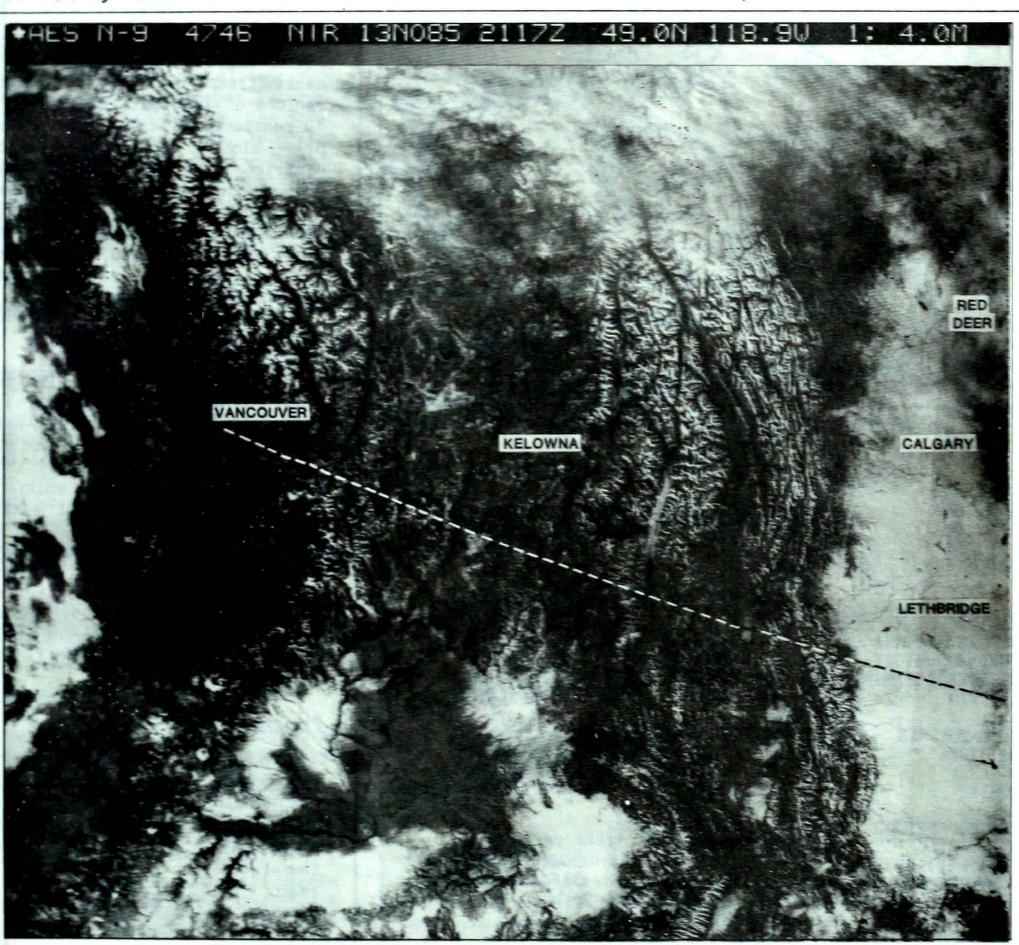


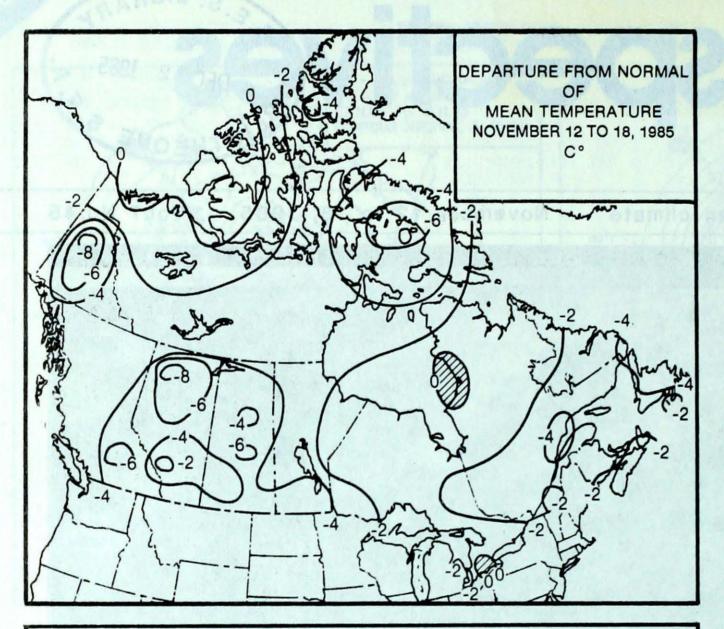
A weekly review of Canadian climate November 12 to 18, 1985 Vol.7 No.45



This NOAA 9 satellite photo taken during the afternoon of November 13, 1985 distinctly shows the geographical features of southern British Columbia.

- Lower Great Lakes and St. Lawrence Valley hit by freezing rain
- Bitter cold, blizzards and snow in the West

Canada



WEEKLY TEMPERATURE EXTREME (C)

	MAXIMUM		MINIMUM					
BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	SMITHERS	16	DEASE LAKE	-30				
	CARCROSS	3	ROSS RIVER	-44				
	CAPE DORSET A	-2	EUREKA	-41				
	WHITECOURT	13	HIGH LEVEL	-36				
SASKATCHEWAN	KINDERSLEY	9	CREE LAKE	-31				
MANITOBA	DAUPHIN	7	THOMPSON	-32				
ONTARIO	WINDSOR	18	BIG TROUT LAKE	-23				
QUEBEC	MONTREAL INT'L	9	SCHEFFERVILLE	-22				
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	SAINT JOHN	10	CHARLO	-15				
	SHELBURNE	13	TRURO	-10				
	EAST POINT	9	CHARLOT TETOWN	-7				
	ARGENTIA	9	CHURCHILL FALLS	-19				
	DOCC THE MA	TION						

ACROSS THE NATION

WARMEST MEAN TEMPERATURE

COOLEST MEAN TEMPERATURE

WINDSOR

EUREKA

-36

SATURNA ISL.

ONT

BC

NWT

ACROSS THE COUNTRY ...

Yukon and Northwest Territories

Weather conditions were changeable in the Yukon and Mackenzie District, but predominantly unsettled in the east. A low pressure disturbance moved across the Territories during the middle of the week, producing significant snowfalls. Amounts ranged from 5 to 20 centimetres, but the mountainous regions of the west received 30 to 50 centimetres. Strong winds caused heavy blowing snow in the Keewatin District. In its wake, a cold spell gripped the Yukon and temperatures plunged to the minus forties. Larger lakes and rivers have not yet frozen over and stratus and fog hampered aviation near areas of open water, especially in the Yukon.

British Columbia

Under partly sunny skies temperatures moderated during the early part of the week. By mid-week, thickening cloud was associated with heavy snowfalls in the north, while showers occurred in the south. An Arctic high pressure cell settled across northern B.C., allowing record cold air to penetrate southwards over the weekend. Blizzards were reported in the Peace River District on November 15. In the central interior the logging industry has geared up to full winter operation.

Prairies

There was a brief respite in the cold weather during the middle of the week. In fact, the weather conditions were relatively pleasant A southerly flow allowed maximum temperatures in southern Alberta to reach the double digits, while to the east temperatures hovered closes to freezing. The weekend saw anothe cold wave flood across the prairies Strong winds and low temperature resulted in dangerously low win chills, and prompted the issuance of travellers advisories. Drifting an blowing snow were common in rura areas of Alberta Temperatures drop ped as low as -36°C. Snowfalls wer generally light.

Ontario

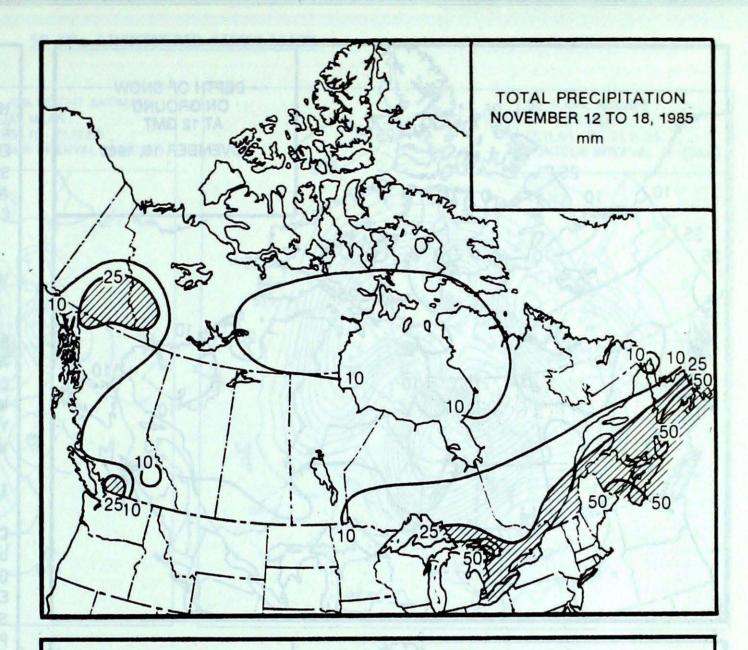
Dull and wet weather continued to plaque southern Ontario as a series of weather systems tracked out of the American midwest. Precipitation fell nearly every day in southern and central Ontario, and this was the third weekend in a row ruined by inclement weather. On November 16, freezing rain along the lower Great Lakes caused numerous traffic tie-ups. Rainfalls in southern Ontario have already surpassed previous November records. Toronto City has received 164 mm of rain to-date this month. In northern Ontario, the weather was cold, but relatively more settled. Most communities picked up additional amounts of snow. Temperatures began to moderate near the end of the week.

Quebec

Several disturbances affected southern Quebec, giving a mixture of snow and rain. The lower St. Lawrence Valley received 10 cm of snow. On November 12 freezing conditions caused numerous accidents in Montreal, Quebec City and Sherbrooke. In Montreal alone there were more than one thousand fender benders due to slippery roads. Sunshine was scarce in the south this week. A cold Arctic airmass remained well entrenched across northern Quebec, giving changeably sunny weather, but also some snow.

Atlantic

The weather in the Maritimes was mostly cloudy and wet, although there were several sunny days. Temperatures were on the cool side. On the evening of the 14th, many locations received their first measurable snowfall, ranging from 5 to 15 centimetres. Later it changed to rain. A vigorous disturbance affected Newfoundland on November 15. The Avalon Peninsula was hardest hit with 20 to 30 centimetres of snow and blowing snow, causing power outages and road closures. In its wake, new daily low temperature records were set. Labrador was dominated by an area of high pressure most of the week; hence, only snow flurries were reported



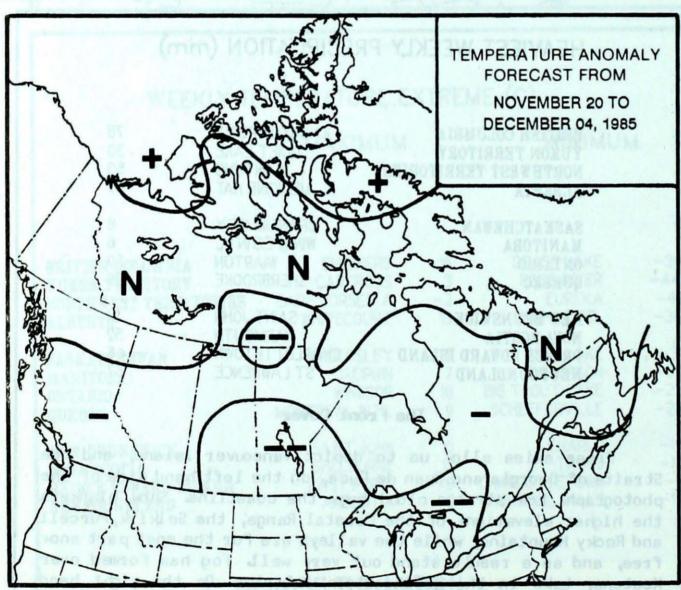
HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	KINDAKUN POINT QUIET LAKE CANTUNG MEDICINE HAT	78 30 50 7
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	URANIUM CITY WINNIPEG INT'L WIARTON SHERBROOKE	8 6 59 39
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	SAINT JOHN YARMOUTH CHARLOTTETOWN ST LAWRENCE	51 52 46 67

The Front Cover

Clear skies allow us to depict Vancouver Island, and the Straits of Georgia and Juan de Fuca, on the left hand side of the photograph. Low stratus cloud hugs the coastline. Snow blankets the higher elevations of the Coastal Range, the Selkirk, Purcell and Rocky Mountains, while the valleys are for the most part snow free, and as a result stand out very well. Fog has formed over Kootenay Lake in the southeastern interior. On the right hand side of the photo, a large area of snow covers Alberta and Montana, and the rivers can be seen meandering across the landscape. Areas of heavy snow are evident in the plateau region of Idaho and Washington States.





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 7

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The purpose of the publication is 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. Black and white photographs can be used, but not colour. The contents may be reprinted freely with proper credit.

The data shown in this publication are based on unverified reports Canadian from approximately 225 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

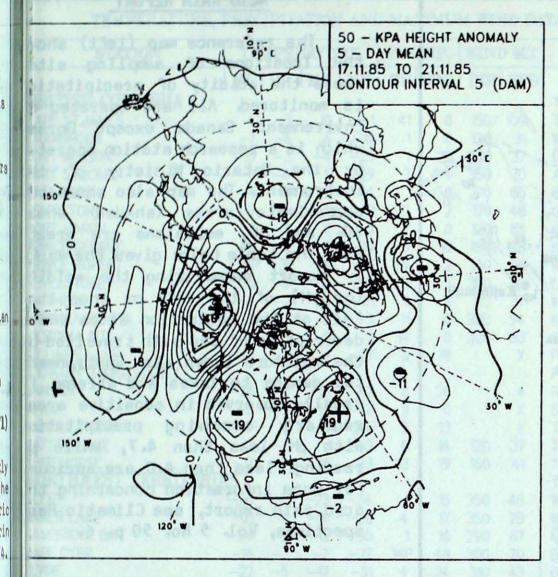
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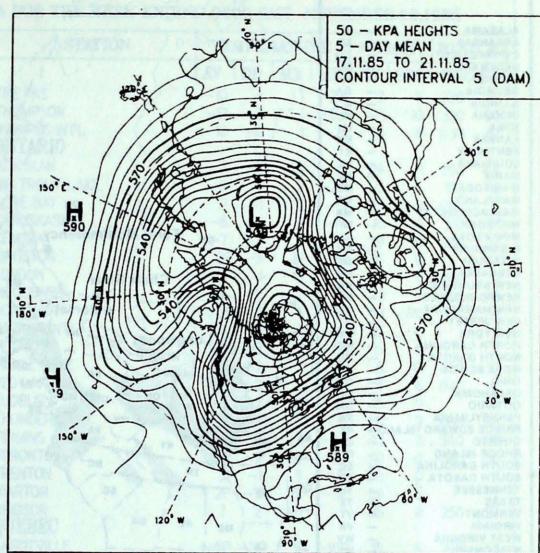
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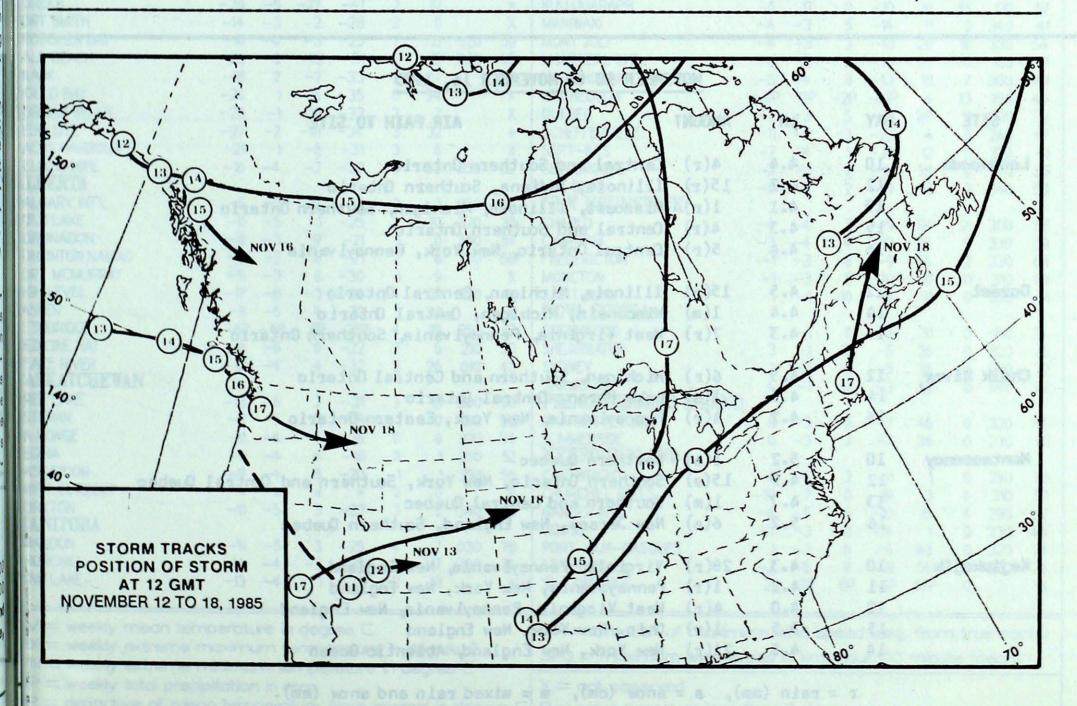
50 KPa ATMOSPHERIC CIRCULATION



MEAN 50 KPa HEIGHT ANOMALY (dam) November 17 to November 21, 1985



MEAN 50 KPa HEIGHTS (dam) November 17 to November 21, 1985



ALABAMA AR ARKANSAS CONNECTICUT DE DELAWARE FLORIDA GA GEORGIA IL ILLINOIS INDIANA IN AWOI IA KANSAS KA KENTUCKY KY LOUISIANA LA ME MAINE MANITOBA MT MD MARYLAND QU MASSACHUSETTS MA MI MICHIGAN Foret Montmorency MN MINNESOTA MS MISSISSIPPI MO MISSOURI NEBRASKA NE Chalk River Kejimkujik **NEW BRUNSWICK** NB NF NEWFOUNDLAND NEW HAMPSHIRE NH 77 NEW JERSEY NEW YORK NORTH CAROLINA NORTH DAKOTA ongwoods. NC ND NOVA SCOTIA NOOO A E OHIO OKLAHOMA ONTARIO PENNSYLVANIA PRINCE EDWARD ISLAND-QU QUÉBEC RCDNX RHODE ISLAND SOUTH CAROLINA SOUTH DAKOTA OK TENNESSEE TEXAS VT VERMONT VIRGINIA WEST VIRGINIA WV WI WISCONSIN TX

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_2 and $N0_x$ 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.

NOVEMBER 10 to NOVEMBER 16, 1985

SITE	DAY	pH	AMOUNT	AIR PATH TO SITE
.ongroods	10	4.4	4(r)	Central and Southern Ontario
	12	4.2	15(r)	Illinois, Indiana, Southern Ontario
	13	4.1	1(r)	Missouri, Illinois, Michigan, Southern Ontario
	15	4.3	4(r)	Central and Southern Ontario
	16	4.4	5(r)	Central Ontario, New York, Pennsylvania
Dorset	12	4.5	15(r)	Illinois, Michigan, Central Ontario
	14	4.4	1(m)	Wisconsin, Michigan, Central Ontario
	16	4.3	7(r)	West Virginia, Pennsylvania, Southern Ontario
Chalk River	12	4.5	6(r)	Michigan, Southern and Central Ontario
	14	4.3	1(s)	Lake Huron, Central Chtario
, 3	16	4.2	4(r)	Pennsylvania, New York, Eastern Ontario
Hontmorency	10	5.2	1(s)	Northern Quebec
	12	4.9	15(s)	Southern Ontario, New York, Southern and Central Quebe
	13	4.7	1(m)	Southern and Central Quebec
	16	5.2	6(s)	New Jersey, New England, Southern Quebec
Kejimkujik	10	4.3	28(r)	Virginia, Pennsylvania, New England
	11	4.2	1(r)	Pennsylvania, New York, New England
	12	4.0	4(r)	West Virginia, Pennsylvania, New England
	13	3.5	1(r)	Ohio, New York, New England
	14	4.8	21(r)	New York, New England, Atlantic Ocean

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

STATISTICS

STATION	TE	MPEF	LATUE	RE	PREC	CIP.	WIN	D MCX	STATION	TE	MPER	RATUI	RE	PREC	IP.	WINI	M
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP S	OG	DIR	SP
RITISH COLUMBIA									THE PAS	-10	*	1	-23	2	9	330	59
APE ST.JAMES	4	-3	10	-1	41	0	150	109	THOMPSON	-12	-3	-1	-32	1	10	320	50
RANBROOK	-7	-6	4	-16	1	0	130	31	WINNIPEG INT'L	-10	-6	1	-21	6	6	030	67
RT NELSON	-15	-3	-4	-29	1	20	330	37	ONTARIO		To Salvy						
RT ST.JOHN	-11	-4	5	-29	3	4	350	70	ATIKOKAN	-7	-2	3	-16	24	1	050	44
MLOOPS	-4	-6	5	-14	1	0	270	65	BIG TROUT LAKE	-9	*	3	-23	5	4	190	48
NTICTON	-2	-5	5	-12	2	2	170	48	GORE BAY	2	-1	8	-5	26	0	090	56
ORT HARDY	2	-2	7	-5	7	0	120	65	KAPUSKASING	-6	-2	2	-15	16	16	310	37
NINCE GEORGE	-11	*	5	-29	3	10	180	93	KENORA	-7	-3	3	-13	19	10	050	57
RINCE RUPERT	OP.	-3P	8P	-8P	69	2	140	56	KINGSTON	2P	-1P	8P	-6P	24	0		X
VELSTOKE	-3	-4	2	-10	11	5	350	69	LONDON	5	1	15	-2	33	0	240	52
AITHERS	-4	-2	16	-21	9	8	170	37	MOOSONEE	-6	-2	2	-13	3	2	300	46
NCOUVER INT'L	2	-3	8	-5	11	0	280	54	NORTH BAY	-2	-2	5	-12	18	170	100	59
CTORIA INT'L	3	-3	9	-3	14	0	320	33	OTTAWA INT'L	-1	-3	7	-10	25	0		X
LLIAMS LAKE	-8	*	4	-27	0	18		X	PETAWAWA	-3	-2	6	-14	15	0		X
UKON TERRITORY									PICKLE LAKE	-9	-2	1	-21	5	12	060	57
WSON	-26	*	-13	-42	8	26		*	RED LAKE	-7	-2	2	-20	6	6	040	4
YO	-25	-9	-10	-42	9	0		X	SUDBURY	-3	-2	5	-11	15	0		X
HINGLE POINT A	-16P	1P		-28P	2	13		*	THUNDER BAY	-3P		3P	-13P		2	060	48
TSON LAKE	-17	-3	1	-40	6	14	120	37	TIMMINS	-6	-3	3	-16	13	11	340	37
ITEHORSE	-17	-7	0	-33	13	19	160	41	TORONTO INT'L	3P	-1P	9P	-2P		0	090	56
ORTHWEST TERRITOR		-/	U	-73	17	I.A.	100	7	TRENTON	3	-1	9	-5	38	0	030)
		-	22	24		45	250	10		2	-1P	6P	-3P)
ERT	-30	-3	-23	-34		15	350	48	WIARTON	2P	and the second		-32	59	0	DEA	
KER LAKE	-21	-2	-10	-28	4	17	350	78	WINDSOR	1	2	18	1	35	0	250	5
MBRIDGE BAY	-24	-1	-12	-30	1	10	290	67	QUEBEC							200	
PE DYER	-16	-2	-7	-27	14P	48	300	70	BAGOTVILLE	-5P	10.00	3P	-18P		5	290	5
DE (S)	-22	-5	-12	-31	4	24	310	43	BLANC SABLON	-6P	*	3P	-14P		- 1)
PPERMINE	-19	*	-4	-29	7P	17	270	56	INUKJUAK	-6	- 1	1	-19	18	15	260	70
RAL HARBOUR	-21P	-5P	-5P	-33P	3	26		X	KUUJJUAQ	-11	-2	-1	-20	5	28	240	54
REKA	-36	-5	-27	-41	2	12		*	KUUJJUARAPIK	-5	0	0	-10	19	14	170	5
RT SMITH	-14	-3	-2	-28	3	0		X	MANIWAKI	-4	-3	5	-14	11	0	340	4
OBISHER BAY	-16	-4	-3	-25	7	15	320	59	MONT JOLI	-4	-3	3	-13	20	10	330	54
LL BEACH	-26	-6	-13	-31	2	15	300	46	MONTREAL INT'L	0	-2	9	-10	35	0	120	4
IVIK	-18	2	-2	-33	4	17		X	NATASHQUAN	-5	-4	3	-13	18	7	300	43
OULD BAY	-26	1	-15	-35	6	34		X	NITCHEQUON	_9P		-2P	-15P		13	180	46
RMAN WELLS	-20	-1	-10	-33	7	7		X	QUEBEC	-3	-3	5	-13	28	11	320	39
SOLUTE	-27	-2	-18	-34	3	32		*	SCHEFFERVILLE	-11	-2	-2	-22	4	6	240	6
CHS HARBOUR		-2	-6		3	6		X	SEPT-ILES	-11 -7	-4	3	-18	12	11	320	4
	-21	1		-31	3		250			The second second	-	The same of the sa					
LLOWKNIFE	-16	-4	-2	-30	9	33	350	52	SHERBROOKE	-2	-1	7	-16	39	0	270	35
BERTA			S. C. L.				25.4		VAL D'OR	-6	-3	2	-19	13	2	340	50
LGARY INT'L	-6	-2	12	-22	2	2	350	63	NEW BRUNSWICK		N. H.	PALE	tant	C/red	hat	e filip	4
LD LAKE	-11	-5	1	-25	2	10	320	39	CHARLO	-4	-4	3	-15	24	21	300	5
PONATION	-8	-3	9	-21	1	0	340	57	CHATHAM	-3	-4	4	-12	26	9	330	5
MONTON NAMAO	-8	-2	8	-21	2	6	330	56	FREDERICTON	-1	-3	6	-9	44	2	330	6
RT MCMURRAY	-11	-3	6	-30	- 1	9		X	MONCTON	Det-1	-3	8	-10	30	0	310	6
SH LEVEL	-17	-8	-3	-36	4	31	350	41	SAINT JOHN	estab	1	10	-8	51	0	330	6
SPER	-9	-5	4	-30	1	23		X	NOVA SCOTIA								
THBRIDGE	-6P		6P	-25P	4	10	250	67	GREENWOOD	2	-1	11	-7	31	0	150	7
DICINE HAT	-8	-6	6	-22	7	5	210	50	SHEARWATER	3	-1	12	-5	26	0	320	7
ACE RIVER	-12	-4	4	-32	2	26	010	43	SYDNEY	2	-2	10	-5	36	0	290	7
SKATCHEWAN									YARMOUTH	4	-1	12	-3	52	0	340	7
REE LAKE	-13	-6	2	-31	3	15	300	50	PRINCE EDWARD ISLA		tole	7 1	40	1 26	FU	poeut	LYS
TEVAN	-8	-5	7	-18	1	0	310	50	CHARLOTTETOWN	0	-3	8	-7	46	0	320	6
RONGE	-11	-4	6	-26	0	0	320	54	SUMMERSIDE	0		7	-7	36	0	230	8
GINA	-9	-4	4	-18	0	1	350	52	NEWFOUNDLAND	U	-3	-	-/	20	U	230	C
					U					Bellevis	V LO	OF MAD	100	Ty No.	_	200	
SKATOON	-9	-4	5	-20	1	1	350	56	CARTWRIGHT	-6		2	-11		0	290	7
IFT CURRENT	*	*	*	*	0	0	1	X	CHURCHILL FALLS	-10		0	-19	3	4	310	5
RKTON	-11	-5	3	-22	3	5	340	48	GANDER INT'L	-4	-5	6	-10		4	280	5
ANITOBA	15 14 76								GOOSE	-7	-3	3	-14	1	0	230	4
RANDON	-11	-5	3	-25	4	7	030	78	PORT-AUX-BASQUES	The end	-3	8	-6	43	0	320	7
HURCHILL	-14	-4	-2	-26	5	7	300	76	ST JOHN'S	-2	-5	8	-8	56	12	330	7
NN LAKE	-13	-4	1	-28		18		*	ST LAWRENCE	2F	-2P			67P	0		
A SHOP								1	71 - 41 - 12	114		The Lead					
V = weekly mean ten	nnemt	une i	n dec	ree (- /^				DIR = direction of max	vimum .	wind	SDeed	1 (de	a from	n to	le no	rth
X = weekly in earlier $X = $ weekly extreme $X =$						dear	ee C										
IN = weekly extreme									SPD = maximum wind	speed	in kr	n/ho	ur (10	J mini	ite r	nean)	,
P = weekly total prec	ipitatio	in in	mm						X = not observed								
= departure of med				from	norm	nol in	dea	mee C	P = value based on les	46	7 4	010					
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