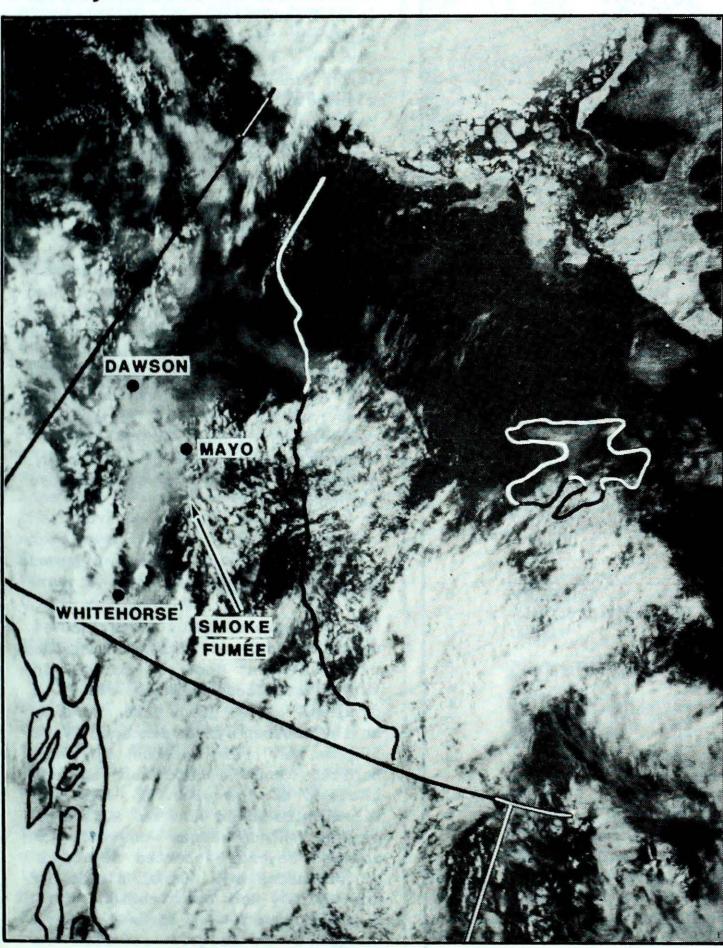
Climatic Perspectives

A weekly review of Canadian climate

July 8 to 14, 1986

10L8 No.28

Major forest fires in the Yukon

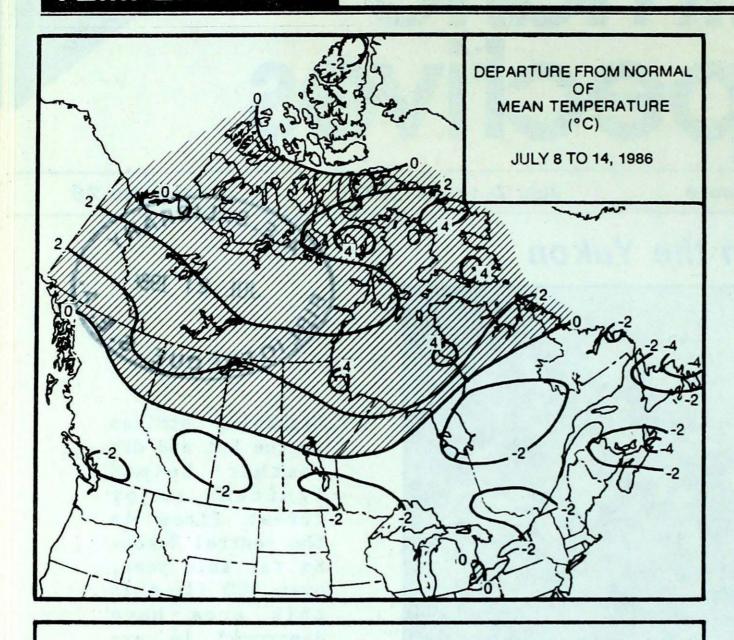




Lightning strikes in the hot and dry weather helped ignited major forest fires in the central Yukon. So far this year, over 100 fires in this area have destroyed in excess of 41 thousand hectares of timber. Smoke from the fires have hampered flight operations in the Yukon. This July 4, 1986 Meteor 3 Soviet satellite picture shows the extent of smoke from fires in the central Yukon.

- Unsummer like in Southern Canada but very summery in the North
- Outbreak of tornadoes in Southern Ontario





WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA	FORT NELSON	28	CRANBROOK	6
YUKON TERRITORY	DAWSON	27	KOMAKUK BEACH A	-2
NORTHWEST TERRITORIES	FORT SIMPSON	29	CLYDE	-2 -3
	NORMAN WELLS			
ALBERTA	MEDICINE HAT	30	ROCKY MTN HOUSE	6
SASKATCHEWAN	ESTEVAN	29	MEADOW LAKE	4
MANITOBA	CHURCHILL	29	THOMPSON	3
ONTARIO	WINDSOR	30	MOOSONEE	3
QUEBEC	MONTREAL INT'L	28	QUAQTAQ	-1
NEW BRUNSWICK	MONCTON	30	MONCTON	1
NOVA SCOTIA	SHELBURNE	30	SYDNEY	5
PRINCE EDWARD ISLAND	SUMMERSIDE	27	CHARLOTTETOWN	9
NEWFOUNDLAND	BADGER	26	BADGER	1

ACROSS THE NATION

WARMEST MEAN TEMPERATURE	22	WINDSOR	ONT
COOLEST MEAN TEMPERATURE	1	ALERT	NWT

ACROSS THE COUNTRY...

Yukon and Northwest Territories

The North was warm this week. Eastern Arctic was especially warm where mean temperatures were about 4° above normal. The temperatures climbed near 20° in southern Baffin Island and snow on the ground disappeared Shipping routes in Baffin Bay were now opened. Only southern Yukon received 20 to 50 mm of rain, elsewhere it was relatively dry. Major forest fires continued to burn in central Yukon.

British Columbia

Unsummer like weather continued. The temperatures were a few degrees below normal throughout the Province. The coastal areas and the North has had plenty of rain, elsewhere showery type of precipitation fell but dry conditions persisted near Fort St. John. Hay harvest was delayed in Prince George due to heavy rains. Despite poor weather, attendance to Expo '86 was described as good.

Prairie Provinces

The week could be summarized as unsettled and cool across the Prairies. Frequent showers occurred in many localities allowing crops to progress at a good rate. A slow moving weather system produced 25 to 50 mm of rain across southern Manitoba and Saskatchewan towards the end of the week. On July 10, Winnipeg received 41.6 mm. A line of severe thunderstorms on July 9 spawned several reported sightings of tornadoes and funnel clouds in the Calgary-Red Deer region. Fortunately damage was minimal. Heavy downpours in Calgary resulted in overloaded storm sewer system and localized flooding. An outbreak of thunderstorms on July 13 dropped marble to golf ball size hail in parts of southern Manitoba and Saskatchewan causing some crop damage.

Ontario

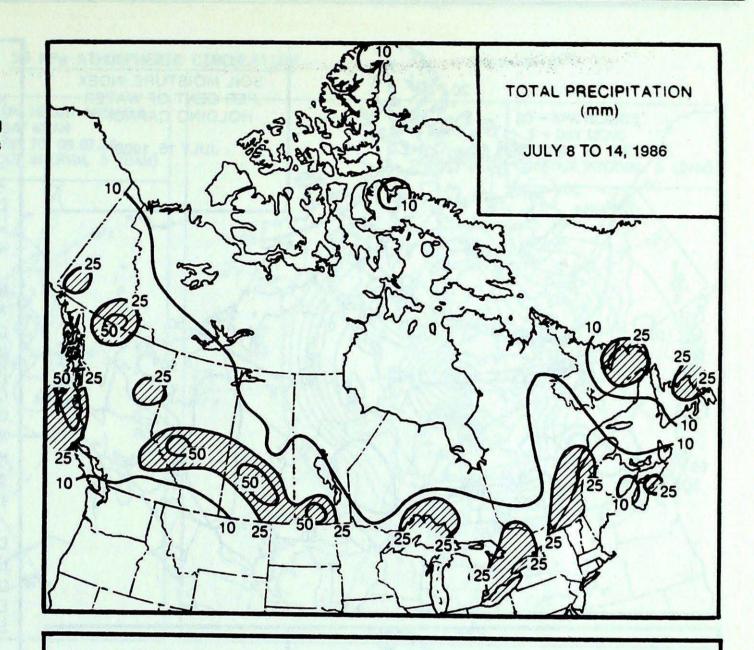
The weather was unseasonably cool with heavy rainfalls occurring over the weekend. The temperatures were 2 to 5 degrees below normal; on July 10, the mercury dropped to the freezing level at Winisk. Towards the weekend, a cool air mass swept the province producing numerous record low daytime temperatures including 13.7° at Thunder Bay on July 12, which broke the old record of 14.4° set in 1913. Heavy downpours of 20 to 40 mm were recorded in southern Ontario over the weekend On July 8, a probable tornado touched down in Windsor. yet another possible tornado caused damages in southcentral Ontario on July 13.

Quebec

Last week's cool weather persisted into this week. At least 14 daily record-low temperatures were established. Weekly temperature ranged from 1° below normal at Kuujjuaq to 4° below normal at Montréal; however the extreme North experienced above normal temperatures. Showery weather produced less than 15 mm of rain throughout the Province except at Montréal where over 22 mm fell. Cool and showery weather subdued many forest fires; by the end of the week, only 1 fire was burning.

Atlantic Provinces

Unsettled weather produced a mixture of rain and sunshine across the East Coast. Towards mid-week. record-low temperatures were registered in the Martimes and Labrador as the daytime readings failed to climb above mid-teens. In Labrador, the temperatures were nearly 10° below normal. On July 14, rains in the 10 to 20 mm range brought some relief to the arid farmlands of New Brunswick. The dry weather in Nova Scotia proved beneficial to the haying operations. Thundershowers with pea-size hail were observed at Gander on July 10. Shipping routes to coastal communities in northern Labrador were congested as hard glacier-type ice moved close to shore.

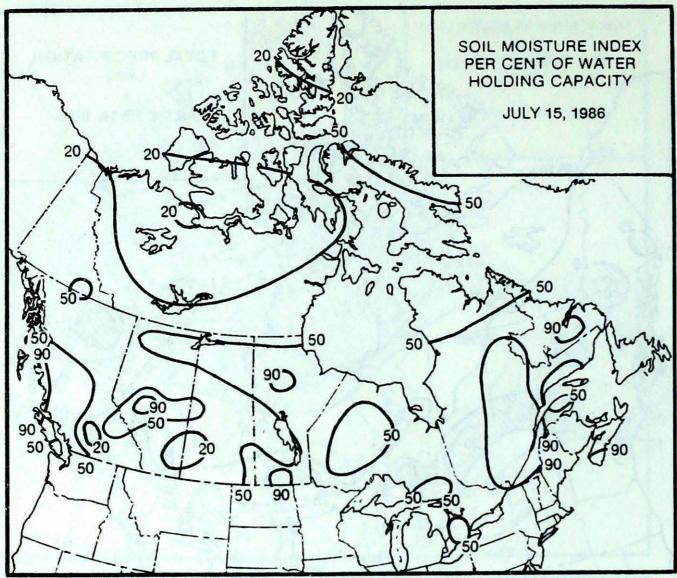


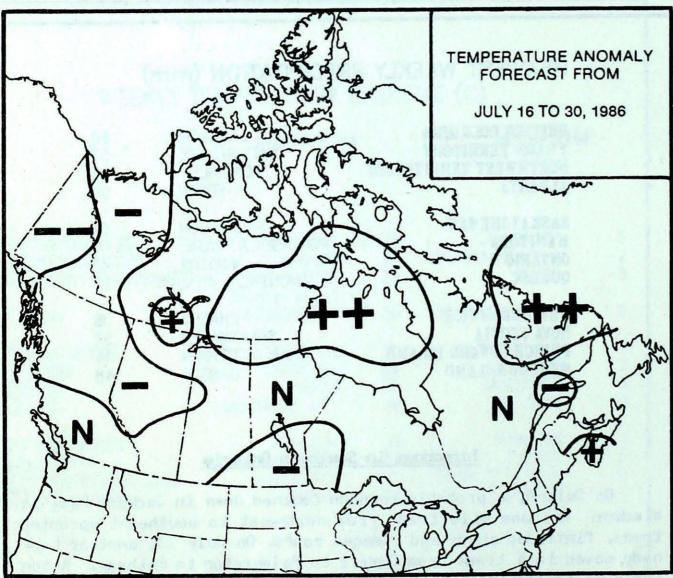
HEAVIEST WEEKLY PRECIPITATION (mm)

BRITISH COLUMBIA YUKON TERRITORY	LANGARA WATSON LAKE	60 57
NORTHWEST TERRITORIES ALBERTA	POND INLET EDSON	23 68
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	SASKATOON PORTAGE LA PRAIRIE WINDSOR MONTREAL INT'L	57 71 42
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	CHARLO SHEARWATER CHARLOTTETOWN GANDER	39 18 33 14 48

Tornadoes in Southern Ontario

On July 8, a probable tornado touched down in Jackson Park in Windsor. The one mile track from northwest to southeast uprooted trees, flattened sheds and damaged roofs. On July 13, another tornado moved in a track from Gorrie to Palmerston to Rothsay. Along the 4 kilometre track, crops and barns were destroyed. On the same day, wind damaged trees in Etobicoke.





Temperature Anomaly Forecast

This forecast is prepared by searching historical weather maps to find cases similar to the present. The historical outcome during the 15 days subsequent to the chosen analogues is assumed to be a below normal forecast for the next 15 days from now.

CLIMATIC PERSPECTIVES VOLUME 8

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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. The contents may be reprinted freely with proper credit.

The data shown in this publication are based on unverified reports from approximately 225 Canadian synoptic weather stations. Information concerning climatic impacts is gathered from AES contacts with the public and from the media. Articles do not necessarily reflect the views of the Atmospheric Environment Service

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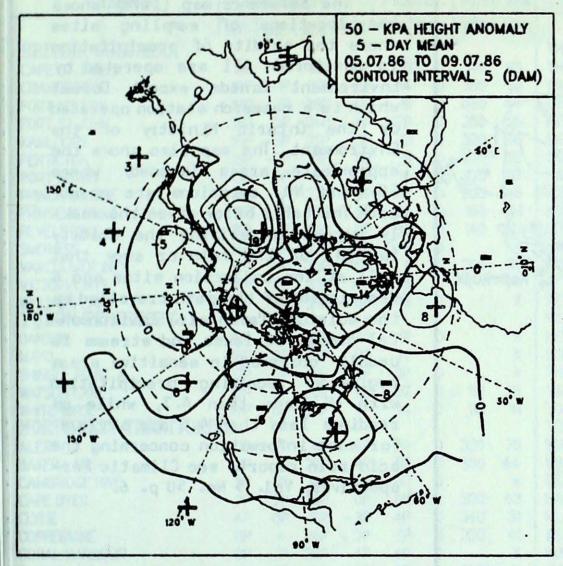
much above normal

above normal

normal

much below normal

50 KPa ATMOSPHERIC CIRCULATION

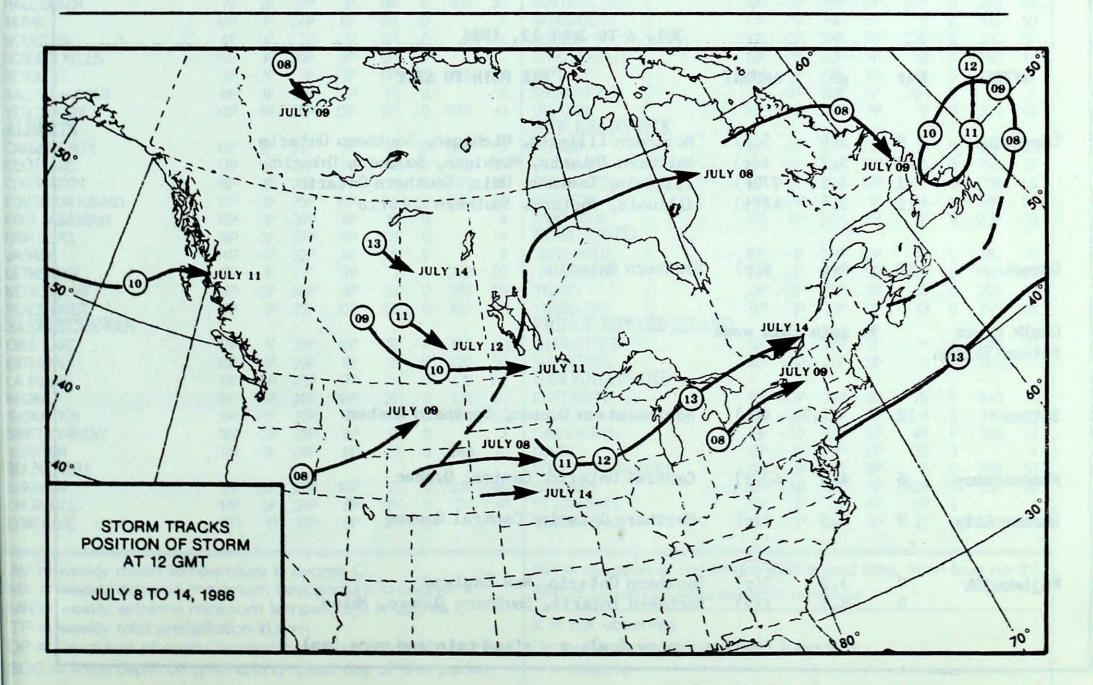


50 - KPA HEIGHTS
5 - DAY MEAN
05.07.86 TO 09.07.86
CONTOUR INTERVAL 5 (DAM)

587
587
50 t

MEAN 50 KPa HEIGHT ANOMALY (dam) July 5 to July 9, 1986

MEAN 50 KPa HEIGHTS (dam) July 5 to July 9,1986



ALABAMA — ARKANSAS — CONNECTICUT — DELAWARE — FLORIDA — GEORGIA — ILLINOIS — INDIANA — IOWA KANSAS — KENTUCKY — LOUISIANA — MAINE — MANITOBA — MANITOBA — MARYLAND — MASSACHUSETTS — MICHIGAN — MINNESOTA — MISSISSIPPI — MISSISSI AR CO DE ALABAMA FL ILIN KA KY LA ME MT MA MI Forêt Montmorency MN MS MO NE NE NE Chalk River Sutton Kejimkujik • Dorset VT NYNC Longwoods MI NS OH OK ON PA PE QU KA QUÉBEC RHODE ISLAND RI SC SD TX TX VA WV SOUTH CAROLINA TN SOUTH DAKOTA OK SC TENNESSEE TEXAS VERMONT VIRGINIA WEST VIRGINIA LA 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 502 and NO, emissions are greatest. The table below gives the weekly report summarizing the acidity (or pH) of the rain or snow that fell at the collection sites and a description of the path travelled by the moisture laden air. Environmental damage to lakes and streams is usually observed in sensitive areas regularly receiving precipitation with pH less than 4.7, while pH readings less than 4.0 are serious. For more information concerning the acid rain report, see Climatic Perspectives, Vol. 5 No. 50 p. 6.

JULY 6 TO JULY 12, 1986								
SITE	DAY	рН	AHOUNT	AIR PATH TO SITE				
Longroods	8	3.9	5(r)	Northern Illinios, Michigan, Southern Ontario				
	10	5.7	1(r)	Northern Ontario, Michigan, Southern Ontario				
	11	4.2	27(r)	Illinois, Indiana, Ohio, Southern Ontario				
	12	4.4	48(r)	Illinois, Indiana, Southern Ontario				
Dorset	12	4.6	6(r)	Southern Ontario				
Chalk River Ottawa Valley		No rain t	his week					
				The second of th				
Sutton	12	5.2	4(r)	Northwestern Quebec, Southern Quebec				
Hontmorency	6	4.8	63(r)	Central Ontario, Central Quebec				
Quebec City	9	5.5	2(r)	Northern Ontario, Central Quebec				
Kejimkujik	7	3.9	2(r)	Southern Ontario, New England				
	9	4.5	1(r)	Northern Ontario, Southern Quebec, Maine				
			- ()	a - and (am) m - mixed nois and show (mm)				
The same of the same of		r = rai	n (mm),	s = snow (cm), m = mixed rain and snow (mm).				

STATION	TE	TEMPERATURE		SE	PREC	CIP.	WIN	D MX	STATION		TEMPERATURE				IP.	WINI	D N
	AV	DP	MX	MN	TP S	SOG	DIR	SPD		AV	DP	MX	MN	TP S	SOG	DIR	S
RITISH COLUMBIA			17					and the second	THE PAS	18P	*	24P	10P	12	0	140	4
APE STJAMES	12P	-1P	16P	10P	28	0	140	93	THOMPSON	17P	1P	27P	6P	8P	Ō		
	16P	-1P	25P	6P	14	0	360	52	WINNIPEG INT'L	17P	-2P	27P	11P	43	0	110	5
RANBROOK				(77)/7		1 2	030	and the same of	ONTARIO	1/-	-21	211	H	45	U	110	-
ORT NELSON	19P	2P	28P	9P	19	0		44		450	40	220	00	_		100	-
ORT ST.JOHN	16P	OP	24P	11P	32P	0	250	56	ATIKOKAN	15P	-4P	23P	8P	8	0	100	3
AMLOOPS	18P	-3P	25P	12P	21	0	320	46	BIG TROUT LAKE	16P	*	26P	9P	OP	0	300	5
ENTICTON	18P	-2P	27P	8P	5	0	200	33	GORE BAY	18P	OP	27P	13P	16P	0	110	4
ORT HARDY	13P	OP	17P	10P	14	0	130	37	KAPUSKASING	16P	-2P	25P	7P	OP	0	280	-
RINCE GEORGE	15P	*	22P	9P	18	0	200	46	KENORA	16P	-3P	24P	12P	18	0	110	1
RINCE RUPERT	12P	-1P	15P	8P	56	0	160	41	KINGSTON	18P	-2P	22P	14P	25P	0		
VELSTOKE	16P	-1P	25P	11P	36	0	140	63	LONDON	20P	OP	27P	13P	29	0	280	4
AITHERS	14P	-1P	22P	9P	8	O		*	MOOSONEE	13P	-2P	24P	3P	OP	Õ	290	
NCOUVER INT'L	16P	-1P	23P	11P	9	0	200	35	NORTH BAY	16P	-2P	24P	12P	31P	0	070	4
							200	200000	OTTAWA INT'L	18P	-4P	29P	10P			0/0	
CTORIA INT'L	16P	OP	21P	10P	5	0		*						11P	0		
LLIAMS LAKE	13P	*	21P	8P	16	0		X	PETAWAWA	17P	-2P	28P	8P	12P	0		
UKON TERRITORY									PICKLE LAKE	16P	-1P	23P	8P	OP	0	160	
NOSON	17P	*	27P	6P	17	0		*	RED LAKE	16P	-2P	23P	8P	5	0	100	
AYO	18P	2P	26P	9P	14	0		X	SUDBURY	17P	-2P	26P	12P	18P	0		
INGLE POINT A	12P	OP	21P	2P	OP	0		*	THUNDER BAY	15P	-3P	24P	7P	35	0	090	
TSON LAKE	15P	OP	26P	9P	57	0	110	56	TIMMINS	16P	-1P	25P	9P	OP	0	310	
ITEHORSE	14P	OP	22P	7P	14	0	110	41	TORONTO INT'L	20P	1P	28P	14P	28P	0	270	
RTHWEST TERRITORI		OF	221	"	-		110	71	TRENTON	19P	-1P	28P	14P		0	210	
		20	40	00	100	_	220	76						25P	12/11/		
ERT	1P	-2P	4P	OP	12P	0	330	76	WIARTON	18P	-1P	24P	12P	13P	0		
KER LAKE	11P	1P	20P	4P	5P	0	360	44	WINDSOR	23P	1P	30P	17P	42	0	310	
MBRIDGE BAY	9P	1P	19P	3P	OP	0		*	QUEBEC								
PE DYER	7P	2P	16P	OP	0P	22	320	43	BAGOTVILLE	16P	-2P	26P	12P	25	0	270	
'DE	4P	OP	19P	-3P	4P	0	340	31	BLANC SABLON	10P	*	15P	6P	6P	0		
PPERMINE	11P	*	26P	3P	IP.	1	230	41	INUKJUAK	14P	4P	23P	7P	OP	*	060	TR.
RAL HARBOUR	9P	1P	20P	4P	4P	0		X	KUUJJUAQ	12P	OP	21P	4P	1	0	030	
REKA	4P	-2P	10P	OP	0P	0	360	41	KUUJJUARAPIK	9P	-3P	18P	1P	4	0	240	
							200		MANIWAKI	1000			7P	400	7		
RT SMITH	18P	2P	27P	6P	13	0	222	X		16P	-3P	28P		10P	0	300	
OBISHER BAY	13P	6P	22P	3P	1P	0	330	44	MONT JOLI	15P	-3P	24P	8P	26	0	250	
LL BEACH	7P	2P	17P	2P	0P	0	160	35	MONTREAL INT'L	18P	-3P	28P	11P	39P	0	260	
V IK	16P	1P	24P	6P	0P	0		X	NATASHQUAN	13P	-1P	19P	8P	6	0	280	
ULD BAY	4P	OP	7P	-1P	OP	0		X	QUEBEC	18P	-2P	28P	11P	22P	0	310	
RMAN WELLS	19P	3P	29P	9P	0P	0		X	SCHEFFERVILLE	12P	-1P	22P	5P	12	0	360	
SOLUTE	3P	-2P	7P	-2P	0P	0	120	56	SEPT-ILES	14P	-1P	23P	7P	13	0	290	
CHS HARBOUR	8P	1P	18P	2P	IP	0	-	X	SHERBROOKE	16P	-2P	26P	5P	26P	0	230	7.
LLOWKNIFE		4P	29P	13P	0P	0	030	41	VAL D'OR	16P	-1P	25P	7P	9	0	280	I.
	20P	41	291	IJP	UP		030	71	NEW BRUNSWICK	IOP	-11-	25	/ -	9	0	200	
BERTA		-	245	- 60	40	//	240	50		460	40	270	440	40		040	
LGARY INT'L	15P	-2P	24P	6P	18	0	340	59	CHARLO	16P	-1P	27P	11P	19	0	310	
LD LAKE	17P	OP	24P	9P	46	0	270	37	CHATHAM	17P	-2P	30P	12P	16	0	290	
RONATION	15P	-3P	25P	7P	19	0	310	56	FREDERICTON	18P	-2P	30P	12P	16	0	310	
MONTON NAMAO	15P	-2P	25P	10P	39	0	290	50	MONCTON	16P	-3P	30P	1P	14	0	280	
RT MCMURRAY	17P	1P	26P	6P	10	0		X	SAINT JOHN	17P	OP	25P	11P	7P	0	230	
HLEVEL	19P	3P	27P	9P	31	0		*	NOVA SCOTIA	CAR	1	Chr	111	40.00			
SPER	14P	-1P	22P	6P	25	0		X	GREENWOOD	18P	-1P	29P	12P	4P	0	280	
THBRIDGE	17P	-1P	27P	7P	23	0	260	87	SHEARWATER	16P	-2P	27P	11P	33P	0	080	
			Trade A	9P	13	0	270	56	SYDNEY	13P	-5P	22P	5P		0	290	
DICINE HAT	18P	-2P	30P					the tree			-			16			
ACE RIVER	17P	1P	27P	10P	23	0	180	41	YARMOUTH	15P	-1P	21P	10P	18	0	290	
SKATCHEWAN			11			11			PRINCE EDWARD ISLAN					April - British			
EE LAKE	17P	1P	22P	10P	10	0	180	41	CHARLOTTETOWN	15P		27P	9P	14	0	230	
TEVAN	18P	-1P	29P	11P	31	0	220	57	SUMMERSIDE	16P	-3P	27P	11P	11	0	300	
RONGE	17P	OP	23P	7P	11	0	120	44	NEWFOUNDLAND								
GINA	18P	-1P	26P	10P	26	0	130	52	CARTWRIGHT	10P	-3P	21P	3P	25	0	340	
SKATOON	18P	-1P	25P	9P	57	0	260	52	CHURCHILL FALLS	13P	-2P	22P	5P	8	0	350	
IFT CURRENT	16P	-2P	25P	8P	12	0		X	GANDER INT'L	12P	-5P	23P	3P	48	0	320	
						0	260		GOOSE							320	
RKTON	17P	-1P	26P	11P	31	U	260	41		15P	-1P	25P	6P	37	0	200	
ANITOBA	1	F me			uliyes.	1	3.4		PORT-AUX-BASQUES	12P	-1P	18P	8P	5	0	300	
RANDON	17P	-2P	26P	10P	21	0	290	56	ST JOHN'S	10P	-6P	12P	7P	13P	0	250	
IURCHILL	17P	5P	29P	5P	0P	0	120	41	ST LAWRENCE	12P	OP	21P	4P	OP	0		
NN LAKE	17P			8P		0		*	WABUSH LAKE		-2P		5P		0	010	
			CHE		HIT								Ing		UUL		
									0.0	m of the		THE STATE OF					
V = weekly mean tem									DIR = direction of maxim	num v	wind s	speed	d (de	g. from	n tr	ue no	r
X = weekly extreme n						deare	e C		SPD = maximum wind s	head	in la	ha	ır				
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* = missing

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