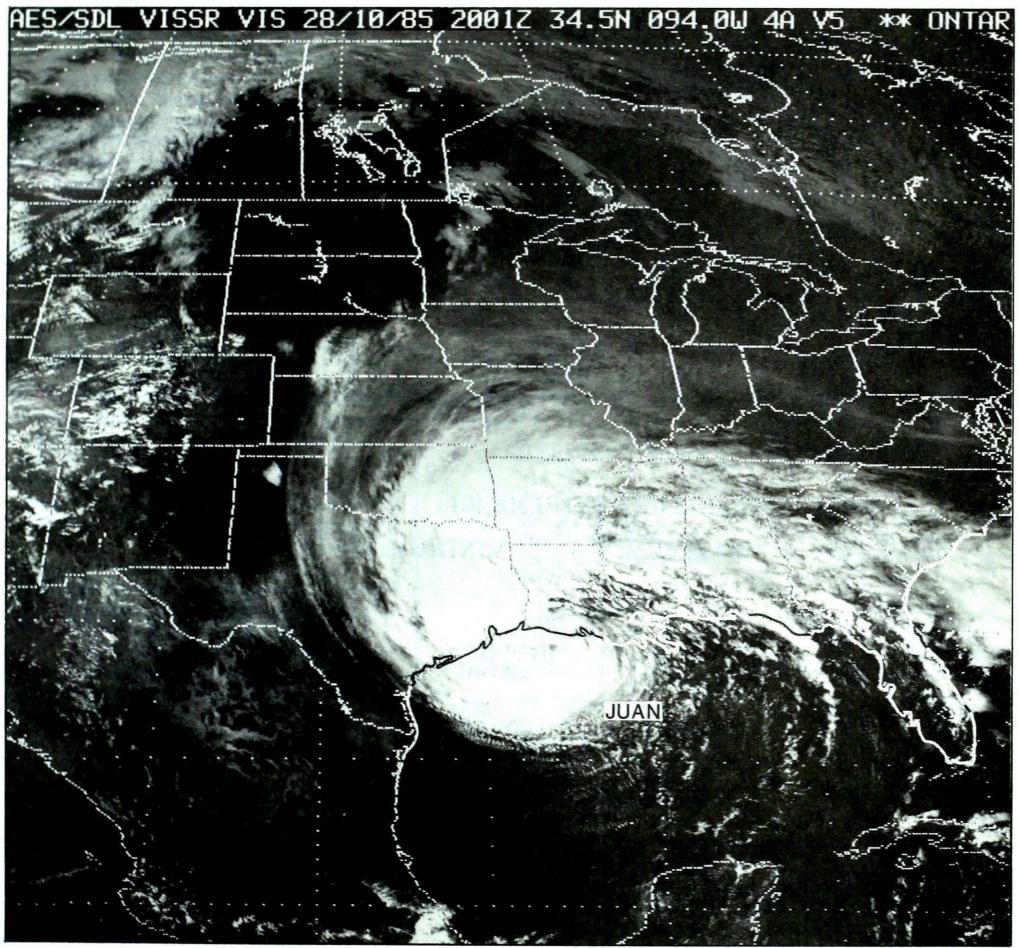


A weekly review of Canadian climate October 22 to 28, 1985

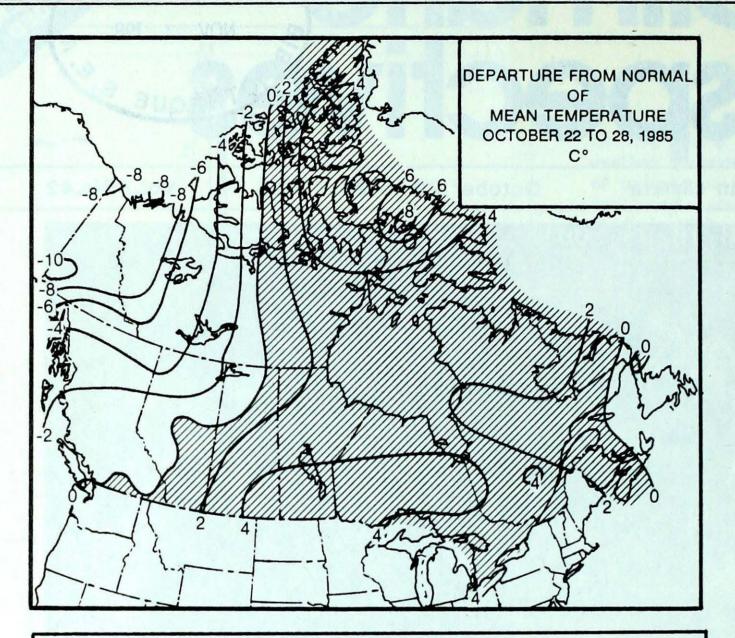
Vol.7 No.42



This GOES satellite image of October 28, 1985 taken from 35,800 above the equator shows hurricane Juan just off the Louisiana coast. For more detail see page 3.

- Blizzards cause damage in the High Arctic
- Substantial snowfalls in the B.C. interior
- Indian Summer ends over Eastern Canada





WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

BRITISH COLUMBIA YUKON TERRITORY	PENTICTON TESLIN	17	FORT NELSON BURWASH	-15 -27
NORTHWEST TERRITORIES ALBERTA	WATSON LAKE CLYDE LETHBRIDGE	7 21	EUREKA HIGH LEVEL	-37 -15
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	REGINA DAUPHIN WINDSOR SUTTON JUNCTION	22 20 24 21	KINDERSLEY GILL AM GERALDTON BORDER	-9 -12 -9 -15
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	MONCTON GREENWOOD CHARLOTTETOWN COMFORT COVE	20 19 16 14	ST STEPHEN GREENWOOD CHARLOTTETOWN GOOSE	-4 -3 -1 -11

ACROSS THE NATION

WARMEST MEAN TEMPERATURE	13	WINDSOR	ONT
COOLEST MEAN TEMPERATURE	-23	MOULD BAY	NWT

ACROSS THE COUNTRY...

Yukon and Northwest Territories

Winter became well established across Canada's north, as only a few locations managed to record above freezing temperatures. A cold Arctic airmass stagnated in the northwest. In the eastern Arctic several new maximum temperature records were established. Wind and gale warnings were issued regularly for the Northwest Territories and Baffin Island Blizzards occurred in the Arctic Winds gusting to more than 100 km/h caused structural damage to buildings at Resolute Bay and Grise Fiord Roofs were blown off a hotel and several houses. Snowfalls of 5 to 10 centimetres were common in most districts. Snowdepths varied up to 40 cm.

British Columbia

A continuing series of Pacific weather systems kept temperatures cool and skies mainly cloudy. Gales occurred frequently along the upper coast. Victoria received more rain this past weekend, 61.6 mm, than during the entire four-month period June to September. Snow fell in the north and the central interior; temperature hovered near freezing. Higher elevations received substantial snowfalls. Upper Hat Creek near Kamloops received 25 cm of new snow. Castlegar received their first measurable snowfall this year. Snow covers the coastal mountains above 1000 metres. In the valleys it was wet and windy.

Prairies

It was a relatively pleasant autumn week. Temperatures in the south managed to reach the low twenties during the early part of the period, but declined steadily a: a cold Arctic airmass spilled south Harvesting operation eastwards. proceeded hastily, and were nea completion in some agricultura districts. Fall field work ha begun. Snow fell in the north amounts ranged between 10 to 1 centimetres. On the morning o October 28, a disturbance gav

Alberta up to 10 centimetres of snow, causing treacherous driving conditions during the rush hour period.

Ontario

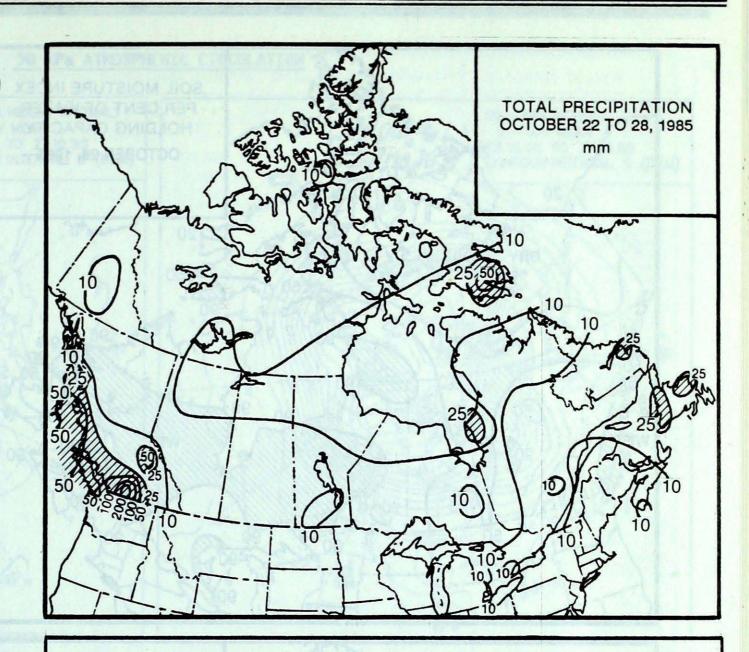
It was pleasant and predominantly sunny. Scattered showers accompanied an influx of milder air during the middle of the week. A cold airmass slipped into north-western Ontario early in the period, dropping daytime temperatures to below freezing by week's end. Elsewhere maximum temperature hovered near the mid-teens. Several daily maximum temperature records were broken in central Ontario.

Quebec

Fine autumn weather slowly gave way to a changeable more showery weather regime, as several frontal disturbance approached the province. In the Eastern Townships, the alfalfa harvest was completed during the last few days of Indian Summer. Between October 22-25, more than a dozen maximum temperature records were broken in the province. Afterwards, much cooler air covered the region, and snow fell as far south as Sept-Iles. The Laurentians received 12 cm of snow; snow flurries fell along the lower St. Lawrence Valley.

Atlantic

In the Maritimes high pressure prevailed, and the week was primarily sunny. Scattered shower activity occurred after mid-week. Daytime temperatures hovered in and around the teens. In Newfoundland it became sunny and milder after the beginning of the week; however, the weekend was cloudy and cool. A minimum temperature of -5°C at Gander on October 23 was a new record. In Labrador, the weather was mostly cloudy. Temperatures fluctuated, but overall were seasonably mild.

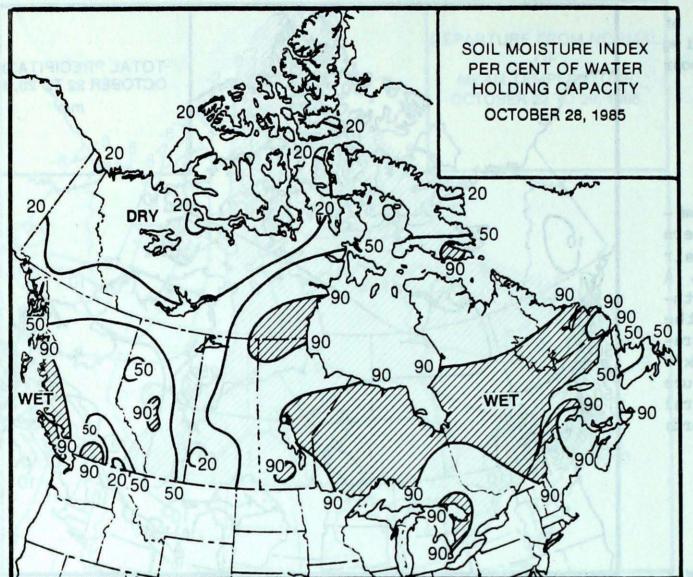


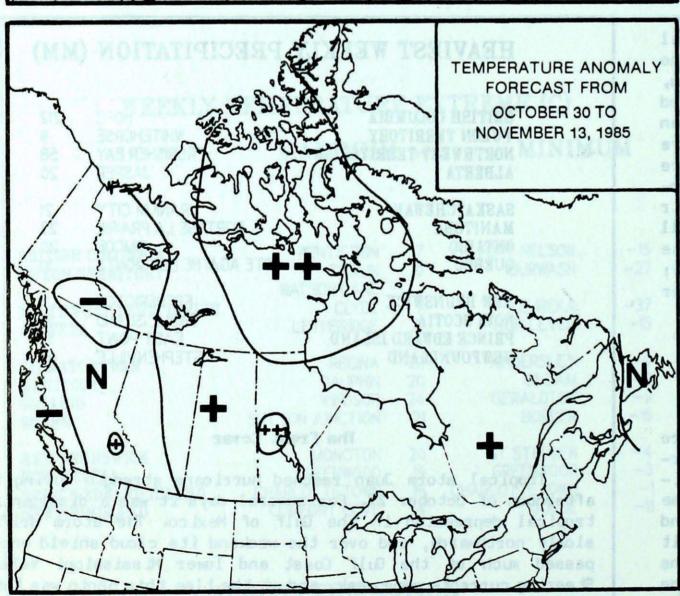
HEAVIEST WEEKLY PRECIPITATION (MM)

BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES ALBERTA	HOPE WHITEHORSE FROBISHER BAY JASPER	212 9 58 20
SASKATCHEWAN MANITOBA ONTARIO QUEBEC	URANIUM CITY PORTAGE LA PRAIRIE SIMCOE STE AGATHE DES MONTS	21 23 20 31
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND	FREDERICTON SABLE ISLAND EAST POINT STEPHENVILLE	5 15 12 45

The Front Cover

Tropical storm Juan reached hurricane strength during the afternoon of October 27. For several days it was a disorganized tropical depression in the Gulf of Mexico. The storm drifted slowly northwards, and over the weekend its cloud shield encompassed much of the Gulf Coast and lower Mississippi Valley. Steering currents were weak, and at the time this photo was taken the hurricane was drifting erratically. The centre of the storm was stationary just south of Lake Charles, Louisiana. Heavy rains, between 200 and 300 millimetres, drenched the region. Maximum sustained winds were 135 km/h over the water and isolated tornadoes occurred in squalls along the coast. Tides were one to two metres above normal along the Louisiana coast.





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.

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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.

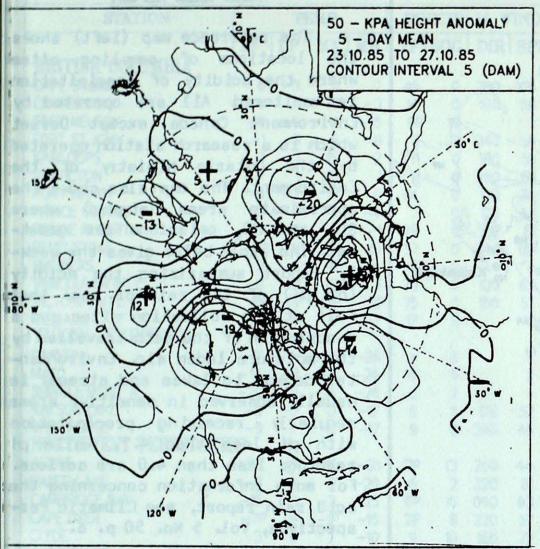
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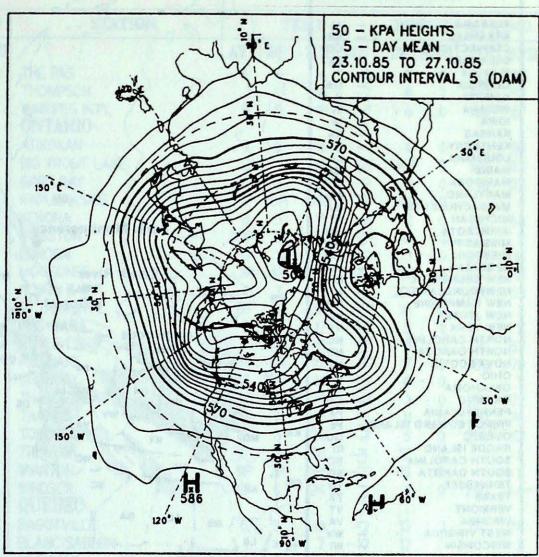
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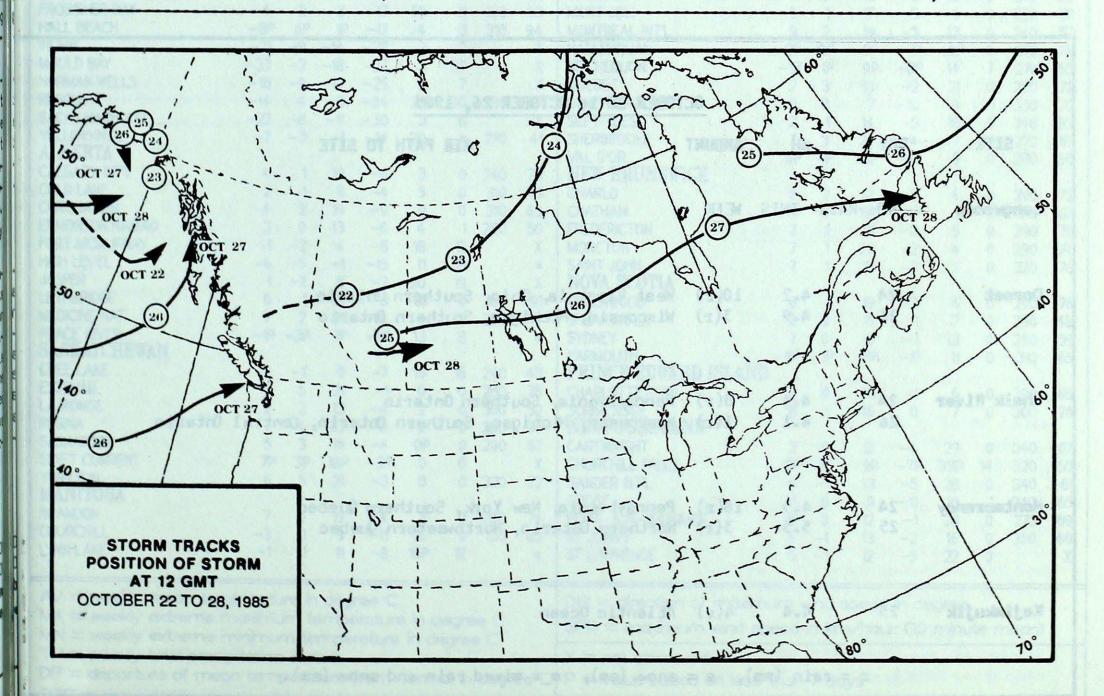
50 KPa ATMOSPHERIC CIRCULATION





MEAN 50 KPa HEIGHT ANOMALY (dam) October 23 to October 27, 1985

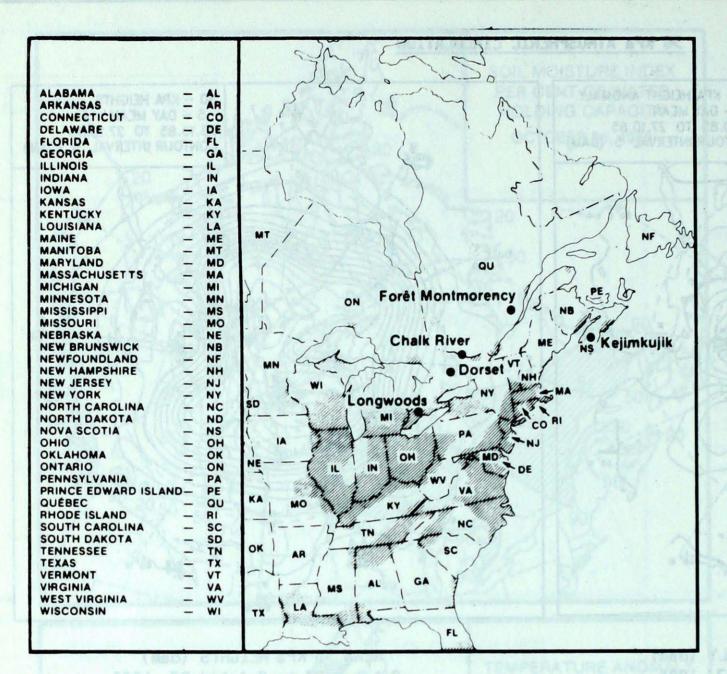
MEAN 50 KPa HEIGHTS (dam) October 23 to October 27, 1985



SITE

Kejimkujik

DAY



AMOUNT

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.

NO	RAIN THIS	WEEK	
24 26	4.2	10(r) 3(r)	
24	4.4	8(r)	Pennsylvania, Southern Ontario Wisconsin, Michigan, Southern Ontario, Central Ontario
		11-22-23 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	
	24 26	24 4.2 26 4.9 24 4.4 26 4.1	24 4.2 10(r) 26 4.9 3(r) 24 4.4 8(r) 26 4.1 1(r)

OCTOBER 20 to OCTOBER 26, 1985

AIR PATH TO SITE

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

4(r) Atlantic Ocean

STATION	TEMP		PR	PRECIP		VIND	STATION		T	EMP		PRI	ECIP	M. V	VIN		
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP	SOG	DIR	SI
RITISH COLUMBIA									THE PAS	4	*	16	-5	2	0	290	7.
APE ST.JAMES	6	-3	11	2	45	0	280	106	THOMPSON	1	4	14	-7	8	7	120	5
RANBROOK	4	1	16	-3	14	0	180	50	WINNIPEG INT'L	8	5	18	-2	6	0	160	6
ORT NELSON	-8	-6	-1-1	-15	8P	19		*	ONTARIO		-					.00	Ů,
NRT STJOHN	-1	-3	5	-8	2	2	240	50	ATIKOKAN	8	6	16	-1	4	0	260	59
WILOOPS	7	1	15	2	11	0	180	59	BIG TROUT LAKE	3	*	14	-6	16P	2	180	63
NTICTON	7	1	17	1	- 11	0	260	69	GORE BAY	10	3	17	-2	9	ō	290	83
ORT HARDY	6	-2	12	. 0	94	0	120	74	KAPUSKASING	7P	5P	16P	-1P	11P	0	230	,
RINCE GEORGE	2	*	9	-4	7	0	170	63	KENORA	8	5	15	-2	2	ō	180	6
RINCE RUPERT	5	-2	9	-1	98	0	150	61	KINGSTON	10P	2P	17P	-1P	10	0	100	
VELSTOKE	4P	-1P	9P	OP	57	0	340	80	LONDON	11	3	20	-2	13	Ō	290	4
AITHERS	2	-1	8	-4	6	0		*	MOOSONEE	7P	4P	17P	-4P	15P	0	300	9
INCOUVER INT'L	8	0	13	3	73	0	120	63	NORTH BAY	7	3	15	-5	20P	0	240	6
CTORIA INT'L	8P	OP	13P	2P	75	0	150	57	OTTAWA INT'L	8P	2P	20P	-1P	16	0	210	•
LLIAMS LAKE	2	*	8	-7	17	11	77.5	X	PETAWAWA	7	1	17	-5	5	Ó		
UKON TERRITORY									PICKLE LAKE	4	4	15	-7	3	0	270	8
WSON	-17	*	-10	-26	*	8		*	RED LAKE	7P	5P	15P	-2P	7	0	180	7
IYO	-14	-8	-8	-24	10	9		X	SUDBURY	7	3	16	-3	4	0	100	- '
INGLE POINT A	-20	-9	-16	-26	2	7		*	THUNDER BAY	7	3	19	-3	3	0	270	
TSON LAKE	-9	-5	0	-17	6	5	120	52	TIMMINS	5	2	16	-3 -7	11	0	300	7
ITEHORSE	-9	-7	-1	-17	9	9	340	46	TORONTO INT'L	10	3	20	-3	5	0	290	5
ORTHWEST TERRITORIE	CS						310	10	TRENTON	10	2	18	-3 -4		1,511,000	290	
ERT	-23	0	-17	-31	2P	13	260	44	WIARTON	9P	2P	18P	-4 -2P	12	0		
KER LAKE	-8	3	2	-20	6	2	320	81	WINDSOR	13					100	200	
MBRIDGE BAY	-15	1	-2	-25	6P	16	090	63	QUEBEC	13	4	24	3	2	0	290	4
PE DYER	-7P	3P	-1P	-15	2P	8	220	57				10	MAN SA			~~~	
YDE	-3	6	7	-10	9		160	77	BAGOTVILLE	6	3	19	-2	12		270	7
PPERMINE	-15	0		A	S 101 S 20 F	10			BLANC SABLON	1	*	7	-10	12	0		
RAL HARBOUR	-8P	4P	-4	-24	6P	6	090	44	INUKJUAK		3	8	-7	3P	0	170	6
REKA			2	-17P	16	2	210	X	KUUJJUAQ	0	3	8	-7	7	0	300	5
RT SMITH	-21	5	-7	-37	13P	10	310	59	KUUJJUARAPIK	2P	2P	12	-3P	30	10	020	6
	-4	-2	0	-8	6	8		X	MANIWAKI	100 70	3	19	-4	10	0	240	6
OBISHER BAY	-4	3	3	-17	59	8	130	63	MONT JOLI	M-5		17	-3	5	0	320	8
LL BEACH	-8P	6P	1P	-17	4	3	310	94	MONTREAL INT'L	9	2	19	-3	13	0	240	5
IVIK	-21		-14	-28	2	2		X	NATASHQUAN	2P	OP	9P	-7P	9P	0	270	74
ULD BAY	-23	-2	-18	-27	3	39		X	NITCHEQUON	-1P	1P	9P	-8P	14	7	270	6
RMAN WELLS	-18	-9	-13	-25	2	7		X	QUEBEC	7	3	19	-2	21	0	280	7.
SOLUTE	-14	4	-3	-24	22	30	180	44	SCHEFFERVILLE	0	3	7	-10	9	1	330	7
CHS HARBOUR	-22	-8	-11	-30	3	8		X	SEPT-ILES	2	1	14	-5	18	9	340	8
LLOWKNIFE	-7	-3	-1	-14	20	*	270	41	SHERBROOKE	7	3	20	-4	7	0	270	6
BERTA									VAL D'OR	6P	4P	15P	-4P	9	0	280	8
LGARY INT'L	4	1	19	-6	3	0	340	78	NEW BRUNSWICK								
LD LAKE	2	1	11	-4	5	0	310	48	CHARLO	5	2	17	-2	4	0	290	7
RONATION	4	2	19	-9	0	0	310	63	CHATHAM	7P	1P	19P	-4P	1	0	310	6
MONTON NAMAO	3	0	13	-6	4	1	280	50	FREDERICTON	7	-1	18	-3	5	0	290	7
RT MCMURRAY	-1	-2	4	-8	18	12		X	MONCTON	7	-1	20	-2	4	0	290	7
SH LEVEL	-6	-5	-1	-15	11	21		*	SAINT JOHN	7	1	17	-2	5	0	320	7
SPER	1	-2	8	-7	20	19		X	NOVA SCOTIA								
THBRIDGE	6	1	21	-3	OP	0	260	91	GREENWOOD	8	- 1	19	-3	6	0	290	7
DICINE HAT	7	2	21	-4	4	0	280	74	SHEARWATER	8	0	15	1	7	0	290	4
ACE RIVER	-1P	-3P	7P	-9P	13	8		*	SYDNEY	7	ŏ	16	-1	13	Ö	280	5
SKATCHEWAN									YARMOUTH	9P	1P	17P	-1P	11	0	310	6
EE LAKE	-2	-1	9	-7	16	16	290	43	PRINCE EDWARD ISLAN						U	310	O
TEVAN	9	5	21	-1	0	0	280	76	CHARLOTTETOWN	7	0	16	-1	6	0	290	6
RONGE	2	2	13	-4	2	0	300	52	SUMMERSIDE	8	1	16	0	6	0		7
GINA	7	4	22	-5	ō	0	280	74	NEWFOUNDLAND	0	- '-	10	U		U	300	,
SKATOON	5	3	16	-4	OP	0	290	67	CARTWRIGHT	2	0	43		20	•	040	-
IFT CURRENT	7P	3P	18P	-3P	0	0	230	X	CHURCHILL FALLS	2 0P	0 3P	12	-4 70	29	0	040	6
RKTON	6	5	21	-3	ő	0	320	72		UP A		9P	-7P	33P	14	320	5
ANITOBA	0	3	21	-3	U	U	320	12	GANDER INT'L	4	-1	13	-5	28	0	340	(
ANDON	7	5	10		-	0	200	74	GOOSE ALLY PASOLIES	1	0	9	-11	18	1	340	6
URCHILL	-2	3	19	-4	3	0	280	74	PORT-AUX-BASQUES	5	0	12	-1	28	0	270	6
NN LAKE	-3	-	9	-11	15	0	130	85	ST JOHN'S	5	-1	13	-2	16	0	360	6
			11	-8	16P	12		*	ST LAWRENCE	5	-1	12	-5	22	0		
/ = weekly mean temp K = weekly extreme ma	eratu	re in	degr	ree C	e in c	leare	a C		DIR = direction of maxim								
N = weekly extreme mil	nim	n to	mno.	mate une	ا ۱۱۱ د				SPD = maximum wind s	speed	in km	Mou	r (10	minu	te m	lean)	
- WOONIY CALLETTIE MI			FILM				THE RESERVE OF THE PARTY OF THE										