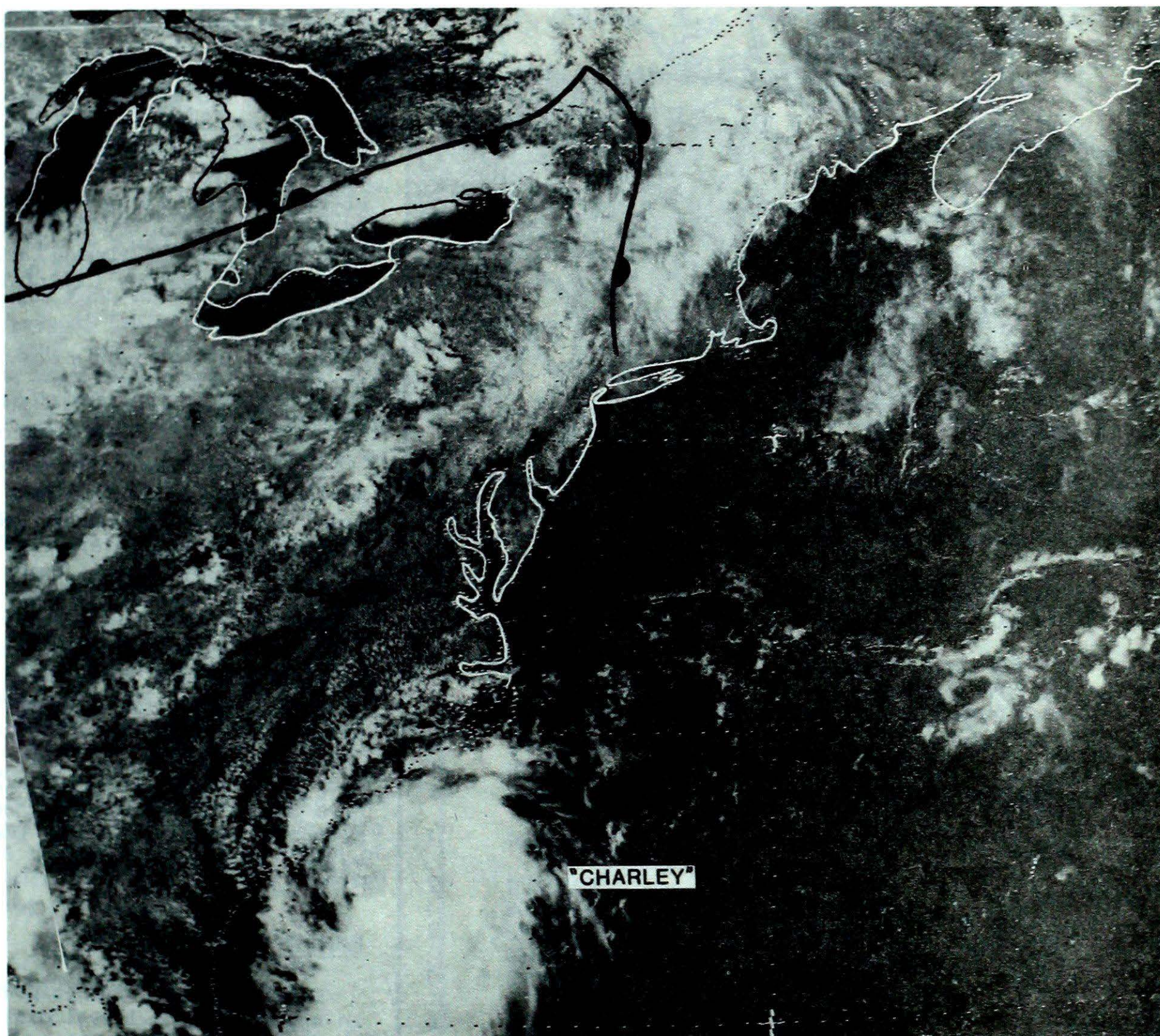


# Climatic Perspectives

A weekly review of Canadian climate

August 12 to 18, 1986

Vol.8 No.33

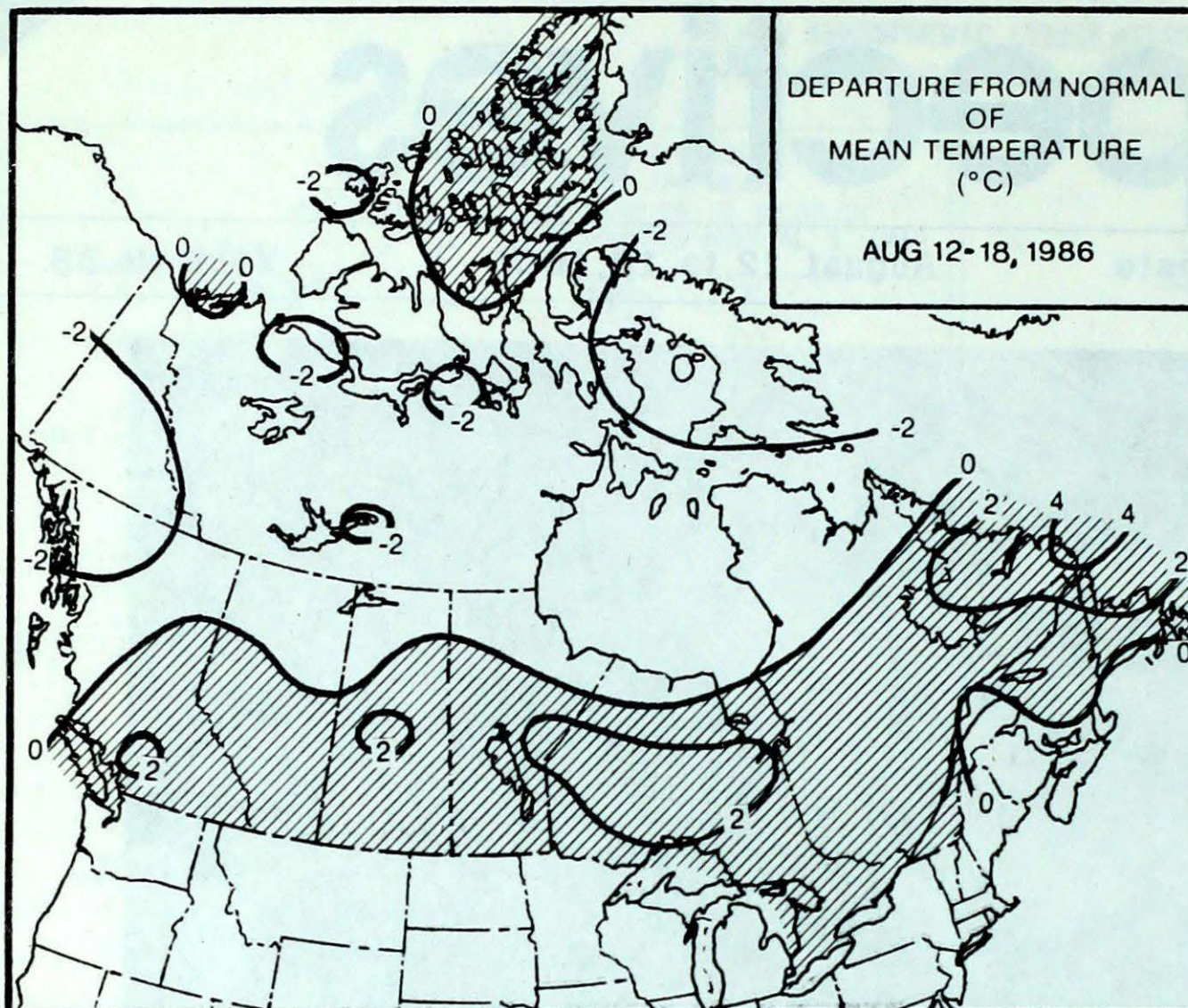


This NOAA 9 photograph taken during the afternoon of August 15, 1986, vividly shows the storm front which hit and inundated parts of southern Ontario with torrential downpours. For more information see page 3. Also, hurricane Charley is caught brewing in its early stages of development off the American southeast coast.

- **Heavy thunderstorms swamp parts of Southern Ontario and Southern Quebec**
  - driving rains, up to 160mm, caused traffic chaos and flooding
  - two tornadoes confirmed
  - storm causes one death at the C.N.E



# TEMPERATURE



## ACROSS THE COUNTRY...

### Yukon and Northwest Territories

Except for early in the week, it was cool and wet in the Yukon. Frost occurred at several locations, and snowfalls were observed at higher elevations. In the Mackenzie Valley during the early part of the week, thunderstorms produced heavy downpours. Two intense low pressure systems caused windy and wet conditions in the eastern Arctic. Gale warnings were in effect for most eastern areas and snow fell on parts of Baffin Island. By the midmonth Frobisher Bay had already exceeded its normal monthly rainfall of 58.4mm.

### British Columbia

High pressure continued to give mostly sunny, fair weather, with only isolated afternoon showers developing in the interior valleys. Only northern areas experienced cooler and showery weather conditions. In the south, the dry spell is into its fourth week. The fire hazard has risen to extreme, with daytime temperatures running in and around the thirties. In the central interior, numerous fires have broken out, but luckily most are small and have been contained. Peaches are being harvested in the Okanagan Valley. Haying continues.

### Prairie Provinces

Mostly sunny weather prevailed in southern agricultural districts, while in the northern areas disturbances produced clouds and showers. On August 12, daytime readings at Moose Jaw and Strasburg Saskatchewan reached 34°C. The hot weather triggered some isolated thunderstorm activity. On August 13, golf ball sized hail fell at Ste. Rose du Lac, Manitoba. By mid-week, a cooler air-mass covered Alberta and Saskatchewan, dropping temperatures to daily record low values. Overnight readings in the Alberta foothills and across the north dropped to near freezing on August 16 and 17.

## WEEKLY TEMPERATURE EXTREME (C)

	MAXIMUM		MINIMUM
BRITISH COLUMBIA	LYTTON 34	DEASE LAKE	-1
YUKON TERRITORY	TUCHITUA 25	BURWASH	-4
NORTHWEST TERRITORIES	FORT SIMPSON 26	BROUGHTON ISLAND	-5
		LONGSTAFF BLUFF	
ALBERTA	LETHBRIDGE 33	EDSON	1
SASKATCHEWAN	MOOSE JAW 35	BROADVIEW	2
MANITOBA	WINNIPEG INT'L 33	GRAND RAPIDS	1
ONTARIO	WINDSOR 30	MOOSONEE	2
		WINISK	
QUEBEC	ROBERVAL 30	KUJJUAQ	1
NEW BRUNSWICK	CHATHAM 28	ST STEPHEN	6
NOVA SCOTIA	SHELBURNE 26	SHELBURNE	6
PRINCE EDWARD ISLAND	CHARLOTTETOWN 25	SUMMERSIDE	12
		SUMMERSIDE	
NEWFOUNDLAND	BATTLE HARBOUR 30	WABUSH LAKE	3

## ACROSS THE NATION

WARMEST MEAN TEMPERATURE	24	LYTTON	BC
COOLEST MEAN TEMPERATURE	0	CAPE HOOPER	NWT



**Ontario**

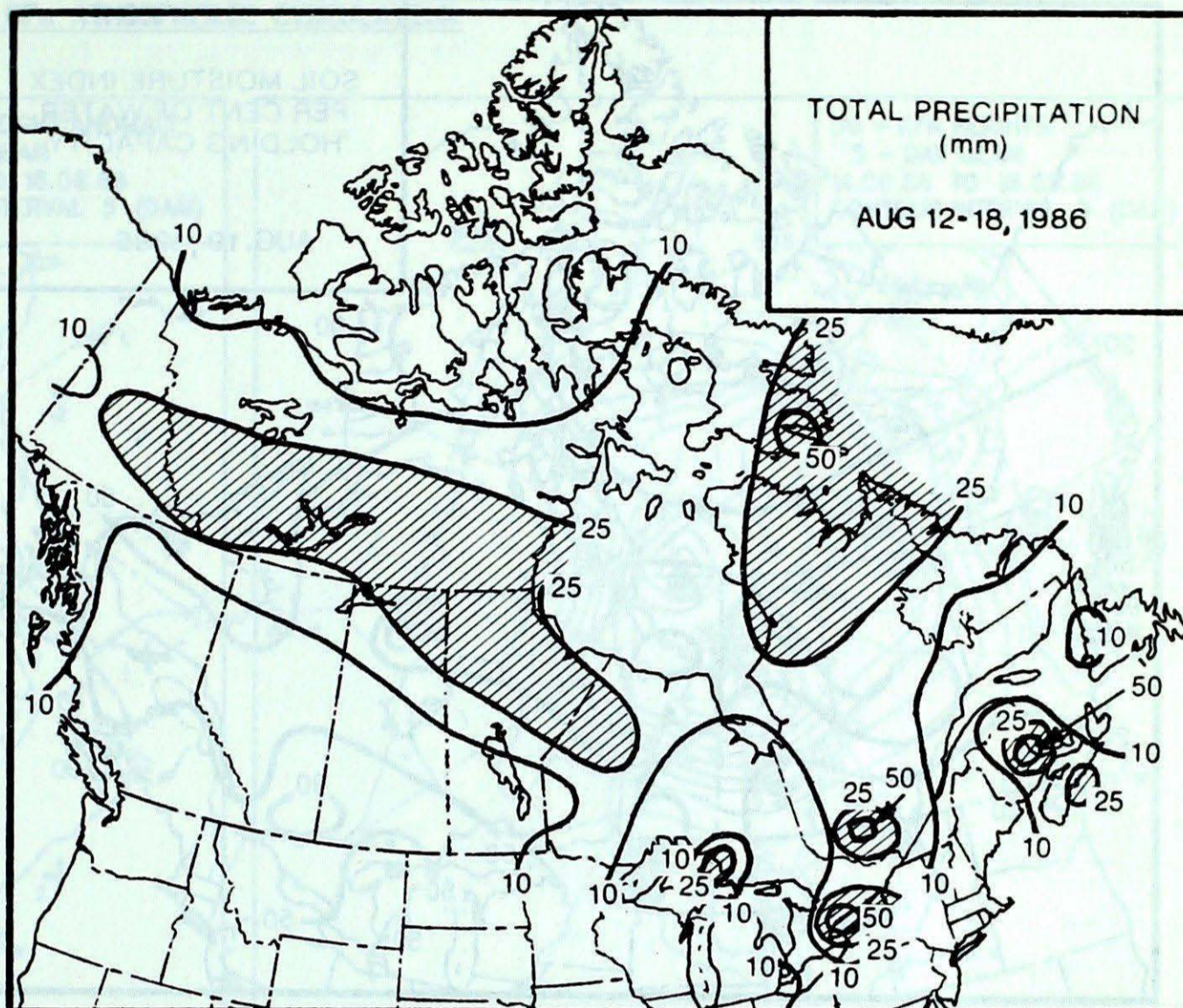
In the south, the weather started off cool, but temperatures warmed up quickly to above seasonal values. In northern Ontario, the week began on a warmer note. Severe thunderstorms, accompanied by an influx of warm air, hit the densely populated area of southern Ontario on August 15, resulting in torrential rainfalls. Heaviest amounts of rain fell near the north shore of Lake Ontario. North of Toronto, the suburban community of Richmond Hill picked up almost 80mm of rain in just over an hour. Frequent lightning played havoc with the electrical grid. A lightning bolt knocked out the Toronto weather radar shortly after 3 pm. At the annual Canadian National Exhibition, a five year old girl was killed when strong winds toppled a 6 metre steel and wooden archway. A Tornado touched down near Hanover, 100km northwest of Toronto. See further details on this page.

**Québec**

In the south, the week was mostly sunny and pleasant, although temperatures were a little on the cool side for part of the period. In the north it rained almost every-day. The line of thunderstorms which hit Ontario on August 15 also affected southwestern Quebec the same afternoon, producing up to 45mm of rain at Maniwaki. A tornado cut a swath near Lytton, 30 km north of Maniwaki. Only one fire was reported burning in the province.

**Atlantic Provinces**

An area of high pressure gave fair weather to Newfoundland, with day time readings reaching the high twenties. Under mainly clear skies at night, temperatures at some island locations dropped to near freezing. In the Maritimes, the week started off on a sunny note, but cloudy skies and showers moved in for the weekend. Rainfall amounts were generally light. In Labrador, weak disturbances gave varying amounts of cloud and some shower activity, especially over the north and west. Along the northern coast line, an on-shore flow kept temperatures on the cool side.

**HEAVIEST WEEKLY PRECIPITATION (mm)**

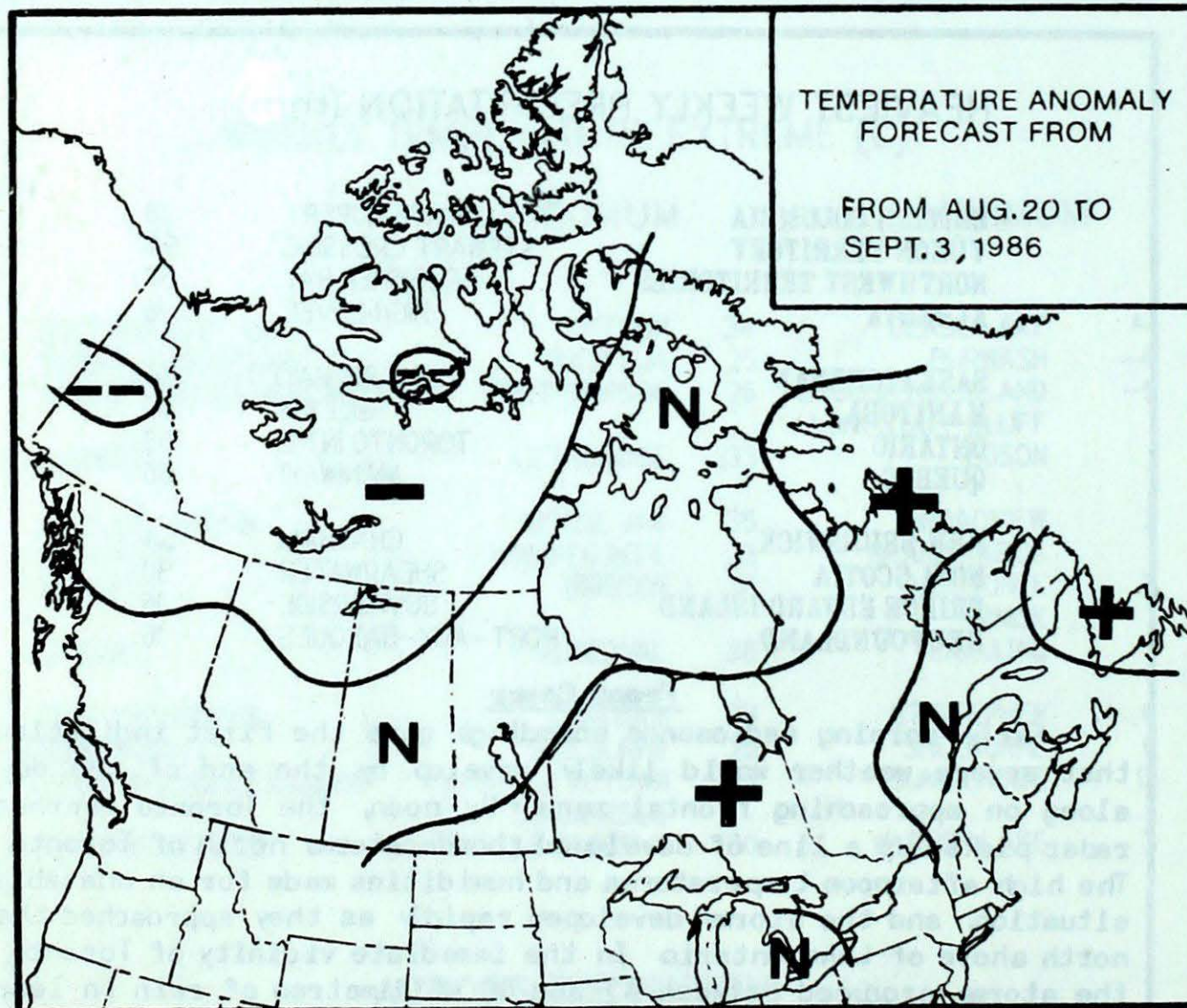
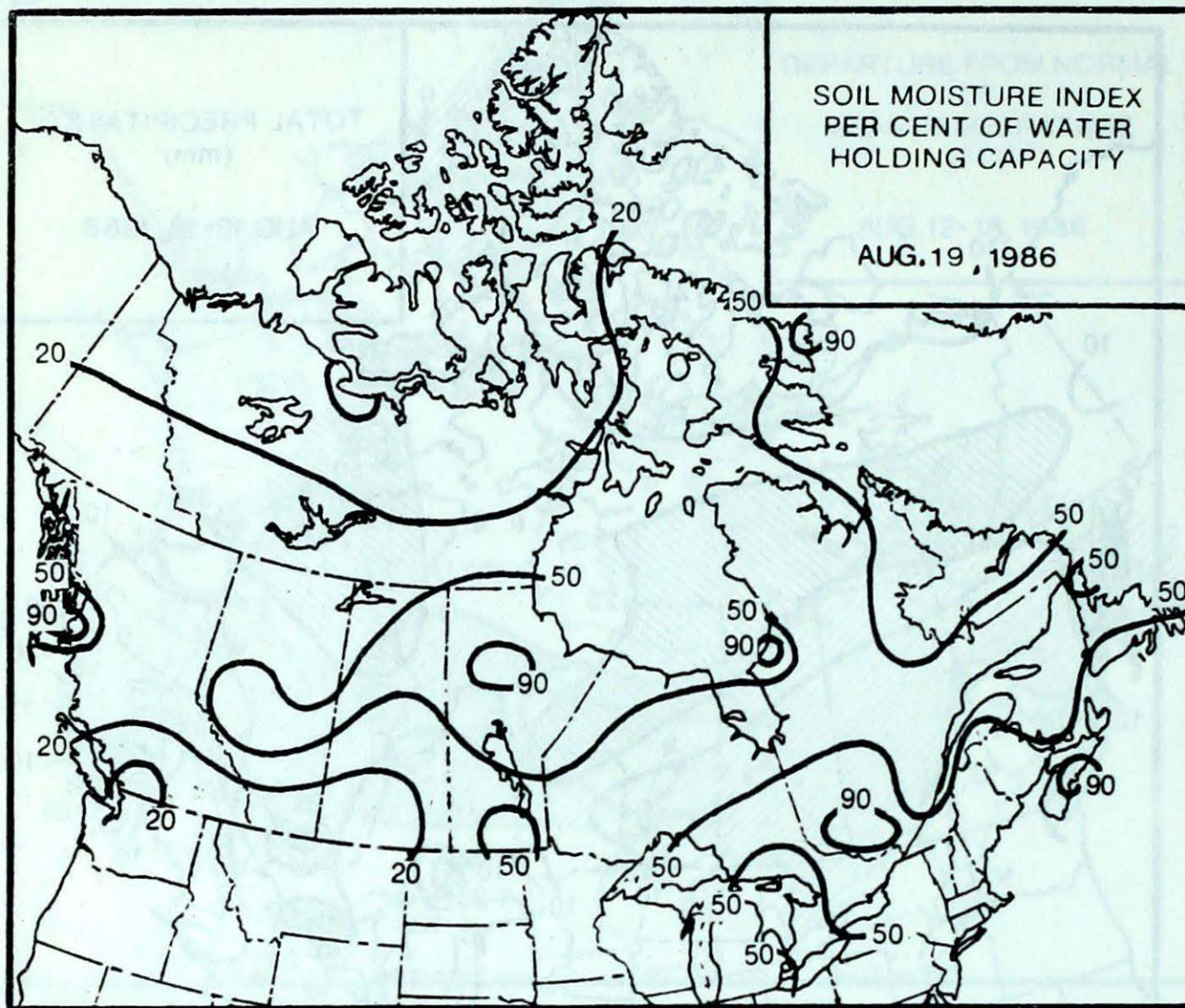
BRITISH COLUMBIA	PRINCE RUPERT	28
YUKON TERRITORY	STEWART CROSSING	54
NORTHWEST TERRITORIES	FROBISHER BAY	57
ALBERTA	HIGH LEVEL	16
SASKATCHEWAN	COLLINS BAY	34
MANITOBA	GILLAM	43
ONTARIO	TORONTO INT'L	53
QUEBEC	MANIWAKI	66
NEW BRUNSWICK	CHATHAM	54
NOVA SCOTIA	SHEARWATER	30
PRINCE EDWARD ISLAND	SUMMERSIDE	16
NEWFOUNDLAND	PORT-AUX-BASQUES	16

**Front Cover**

Early morning radiosonde soundings gave the first indication that severe weather would likely develop by the end of the day along an approaching frontal zone. By noon, the Toronto weather radar picked up a line of developed thunderstorms north of Toronto. The high afternoon temperatures and humidities made for an unstable situation, and the storms developed rapidly as they approached the north shore of Lake Ontario. In the immediate vicinity of Toronto, the storms produced between 45 and 80 millimetres of rain in less than two hours. The normal August rainfall in Toronto is 73 mm. The driving rains caused serious flooding in many parts of the city and outlying communities, turning creeks into raging rivers. Many city roads, highways and underpasses were closed until the swollen waters receded. Cars were submerged and abandoned by flash flooding; rural roads were washed out. Surprisingly, the rain did not establish a new record at Toronto. The old one August record still stands, 93.5 set on August 15, 1905.



# FORECAST



### 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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 is to make topical information  
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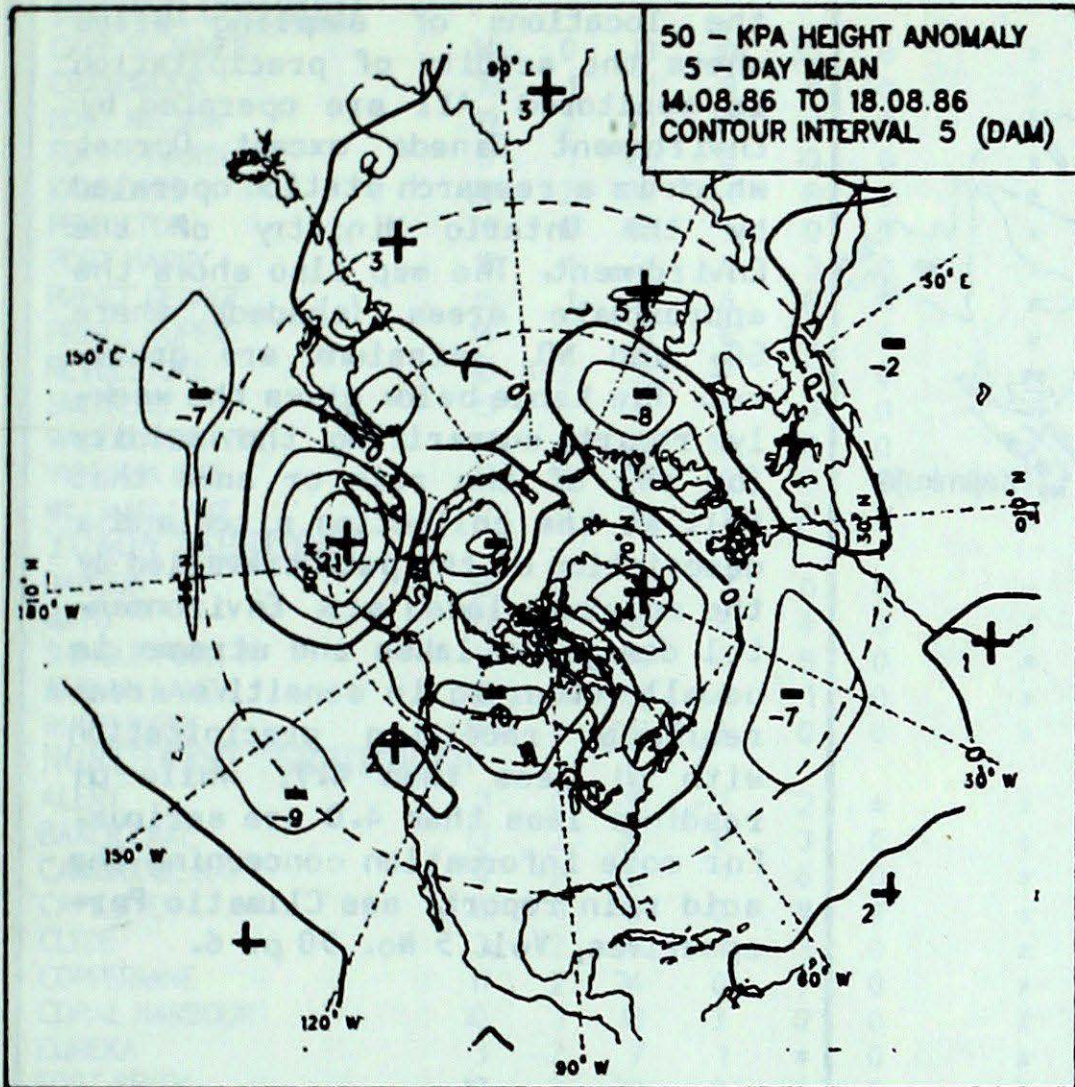
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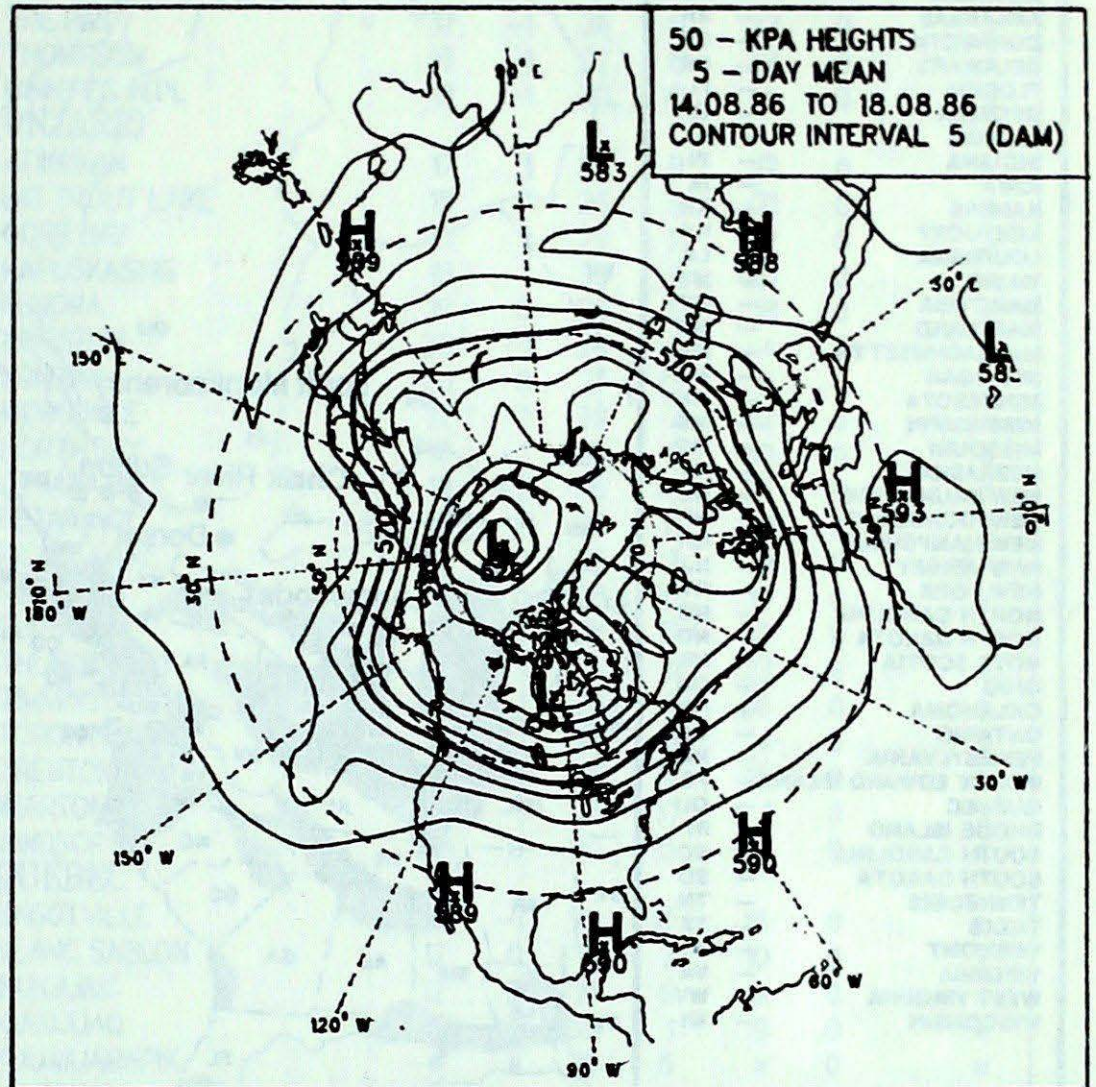
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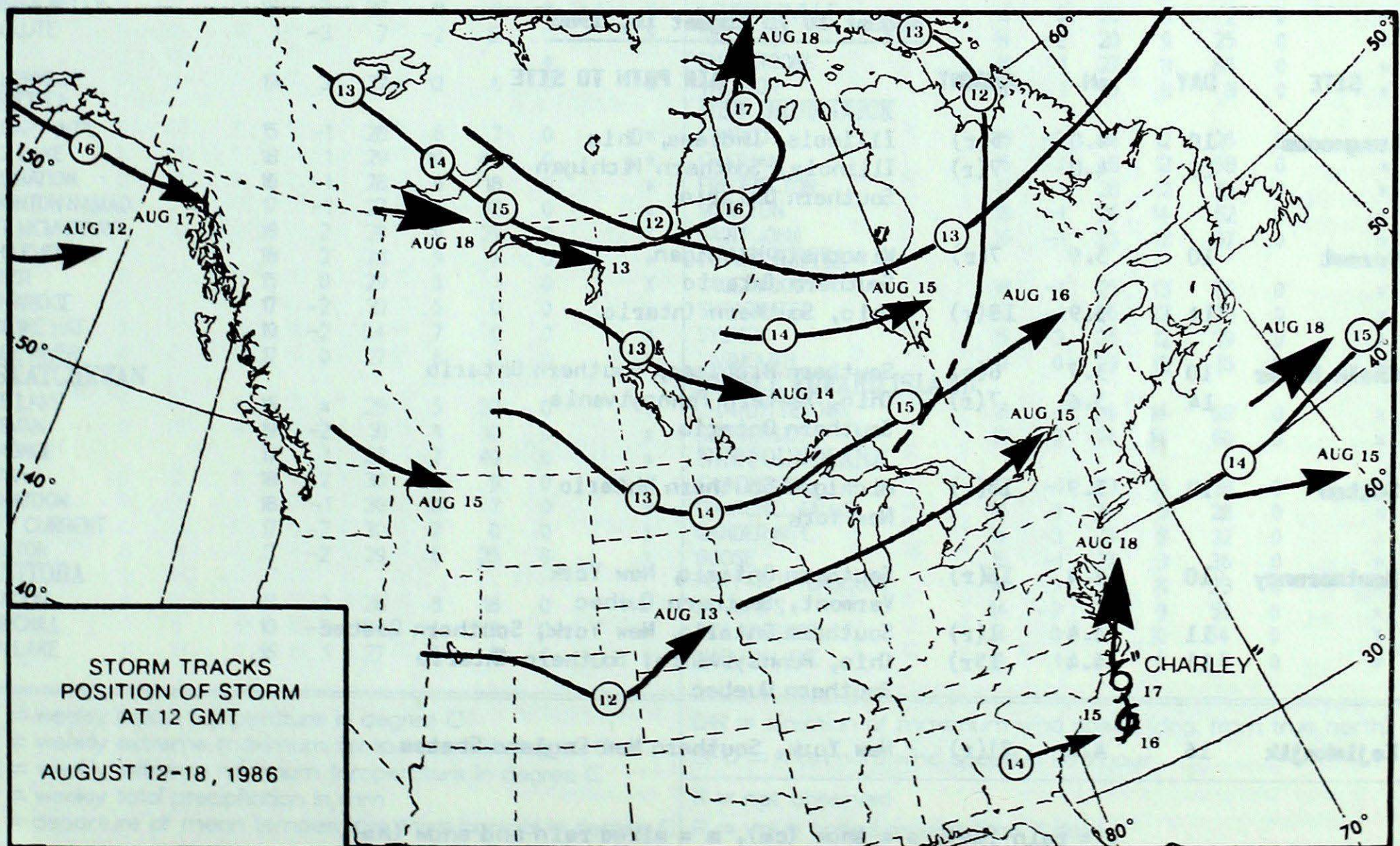
**50 KPa ATMOSPHERIC CIRCULATION**



MEAN 50 KPa HEIGHT ANOMALY (dam)  
August 14 to August 18, 1986



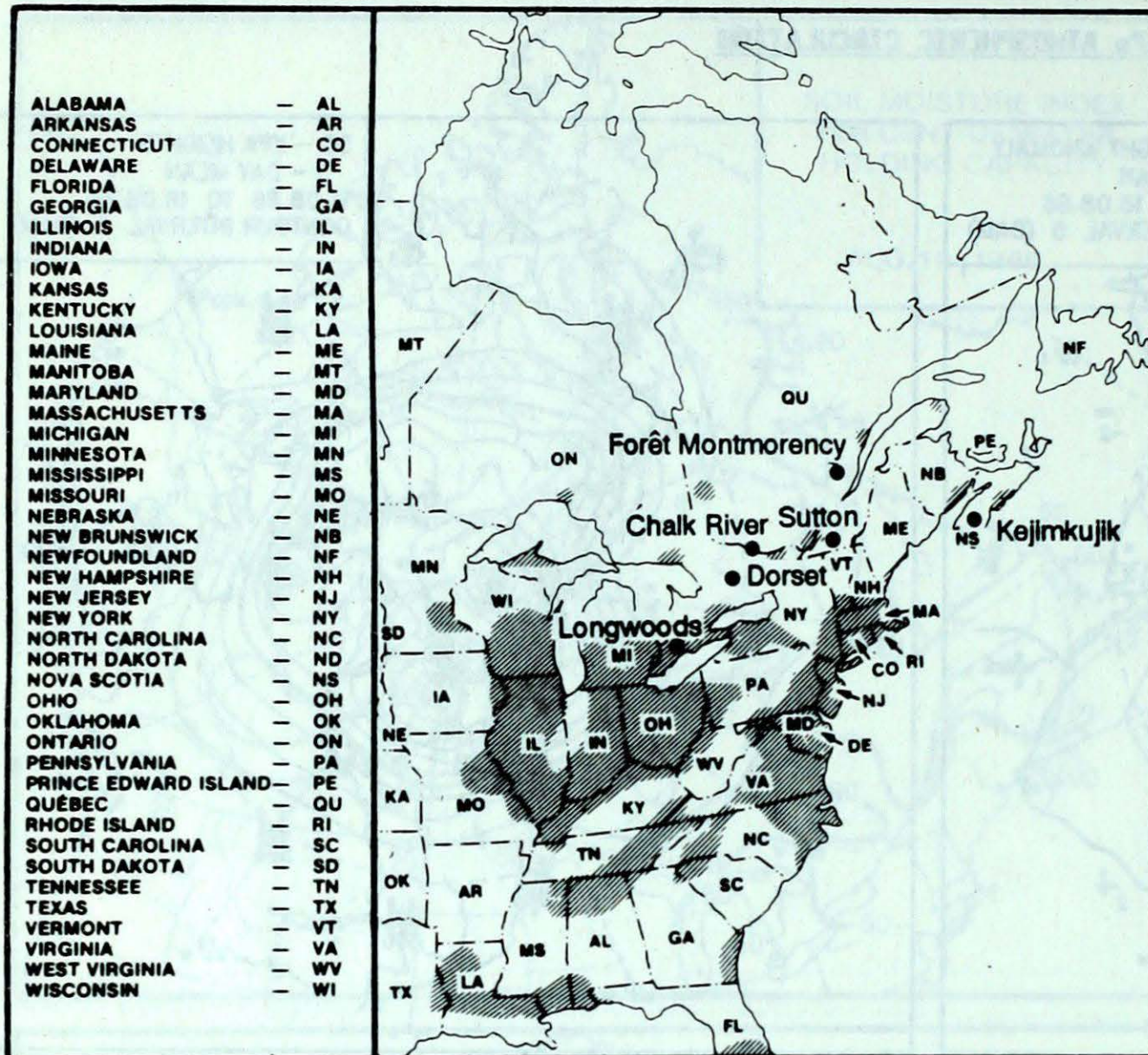
MEAN 50 KPa HEIGHTS (dam)  
August 14 to August 18, 1986





# ACID RAIN

## 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<sub>2</sub> and NO<sub>x</sub> 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.

August 10 TO August 16, 1986

SITE	DAY	pH	AMOUNT	AIR PATH TO SITE
Longwoods	10	4.0	5(r)	Illinois, Indiana, Ohio
	16	4.0	7(r)	Illinois, Southern Michigan Southern Ontario
Dorset	10	3.9	7(r)	Wisconsin Michigan Southern Ontario
	14	3.9	18(r)	Ohio, Southern Ontario
Chalk River	10	3.7	8(r)	Southern Michigan, Southern Ontario
	14	3.6	7(r)	Ohio, Western Pennsylvania Southern Ontario
Sutton	10	3.9	13(r)	Michigan Southern Ontario New York
	10	4.4	16(r)	Southern Ontario, New York Vermont, Southern Quebec
Montmorency	11	4.4	1(r)	Southern Ontario, New York, Southern Quebec
	15	4.4	15(r)	Ohio, Pennsylvania, Southern Ontario Southern Quebec
	16	4.2	21(r)	New York, Southern New England States

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



## TEMPERATURE, PRECIPITATION AND MAXIMUM WIND DATA FOR THE WEEK ENDING 0600 GMT AUGUST 5, 1988

STATION	TEMPERATURE				PRECIP.		WIND MX		STATION	TEMPERATURE				PRECIP.		WIND MX	
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP	SOG	DIR	SPD
<b>BRITISH COLUMBIA</b>									THE PAS	17	-1	28	11	23	0		*
CAPE ST. JAMES	14	0	18	10	33	0		*	THOMPSON	16	1	27	8	32	0		*
CRANBROOK	19	-1	31	8	0	0		*	WINNIPEG INT'L	19	-1	29	10	*	0		*
FORT NELSON	19	2	29	10	1	0		*	<b>ONTARIO</b>								
FORT ST. JOHN	17	1	28	8	10	0		*	ATIKOKAN	17	1	29	8	17	0		*
KAMLOOPS	20	-2	33	1	8	0		*	BIG TROUT LAKE	15	0	25	9	21	0		*
PENTICTON	20	0	35	9	0	0		*	GORE BAY	20	1	29	11	2	0		*
PORT HARDY	15	1	21	5	3	0		*	KAPUSKASING	18	1	30	9	20	0		*
PRINCE GEORGE	16	1	27	6	8	0		*	KENORA	19	0	28	11	18	0		*
PRINCE RUPERT	14	1	18	6	36	0		*	KINGSTON	20	-1	26	14	*	0		X
REVELSTOKE	18	-2	31	7	0	0		*	LONDON	20	0	27	13	6	0		*
SMITHERS	15	0	26	5	3	0		*	MOOSONEE	17	1	30	7	52	0		*
VANCOUVER INT'L	18	0	25	10	0	0		*	NORTH BAY	18	-1	25	11	30	0		*
VICTORIA INT'L	17	1	28	8	0	0		*	OTTAWA INT'L	19	-2	26	13	56	0		X
WILLIAMS LAKE	17	0	29	3	17	0		X	PETAWAWA	18	*	25	8	21	0		X
<b>YUKON TERRITORY</b>									PICKLE LAKE	17	0	28	9	19	0		*
DAWSON	15	0	21	1	0	0		*	RED LAKE	18	0	28	10	19	0		*
MAYO	15	1	24	6	4	0		X	SUDBURY	19	0	27	12	9	0		X
SHINGLE POINT A	11	2	20	3	8	0		*	THUNDER BAY	18	1	29	11	23	0		*
WATSON LAKE	16	1	25	6	1	0		*	TIMMINS	18	1	29	10	26	0		*
WHITEHORSE	14	0	23	4	0	0		*	TORONTO INT'L	21	0	27	11	*	0		*
<b>NORTHWEST TERRITORIES</b>									TRENTON	20	-1	26	12	15	0		X
ALERT	3	0	10	-2	2	*		*	WIARTON	18	-1	25	10	1	0		X
BAKER LAKE	13	2	25	6	3	0		*	WINDSOR	22	0	30	15	25	0		*
CAMBRIDGE BAY	6	-2	12	1	6	0		*	<b>QUEBEC</b>								
CAPE DYER	8	1	17	2	11	9		*	BAGOTVILLE	16	-1	25	10	16	0		*
CLYDE	3	-2	14	-1	3	0		*	BLANC SABLON	12	0	18	7	10	0		X
COPPERMINE	11	2	24	0	7	0		*	INUKJUAQ	12	2	19	6	4	0		*
CORAL HARBOUR	10	1	18	3	2	0		X	KUJJUAQ	16	4	30	1	9	0		*
EUREKA	3	-2	7	1	*	0		*	KUJJUARAPIK	*	*	26	6	*	0		*
FORT SMITH	18	3	30	8	5	0		X	MANIWAKI	18	0	25	9	66	0		*
FROBISHER BAY	9	1	18	4	1	0		*	MONT JOLI	14	-4	23	8	42	0		*
HALL BEACH	5	0	12	1	8	0		*	MONTREAL INT'L	19	-2	26	13	14	0		*
INUVIK	13	2	22	4	5	0		X	NATASHQUAN	14	-1	20	9	18	0		*
MOULD BAY	0	-3	3	-2	8	0		X	QUEBEC	17	-2	26	12	39	0		*
NORMAN WELLS	18	3	28	11	0	0		X	SCHIEFFERVILLE	15	3	26	6	2	0		*
RESOLUTE	1	-3	7	-2	12	0		*	SEPT-ILES	14	-2	20	9	25	0		*
						*			SHERBROOKE	19	1	27	11	86	0		*
YELLOWKNIFE	19	3	27	12	6	0		*	VAL D'OR	17	1	25	11	8	0		*
<b>ALBERTA</b>									<b>NEW BRUNSWICK</b>								
CALGARY INT'L	15	-1	28	6	7	0		*	CHARLO	16	-2	26	12	26	0		*
COLD LAKE	18	1	29	10	45	0		*	CHATHAM	16	-3	28	12	58	0		*
CORONATION	16	-1	28	8	18	0		*	FREDERICTON	17	-2	28	12	35	0		*
EDMONTON NAMAQ	17	-1	27	7	13	0		*	MONCTON	18	-1	26	14	52	0		*
FORT MCMURRAY	18	2	29	9	29	0		X	SAINT JOHN	16	-1	23	12	37	0		*
HIGH LEVEL	18	2	28	9	*	0		*	<b>NOVA SCOTIA</b>								
JASPER	15	0	29	5	1	0		X	GREENWOOD	18	-1	25	13	76	0		*
LETHBRIDGE	17	-2	32	5	0	0		*	SHEARWATER	17	-1	25	13	23	0		*
MEDICINE HAT	19	-2	34	7	0	0		*	SYDNEY	16	-3	26	12	29	0		*
PEACE RIVER	17	0	27	6	1	0		*	YARMOUTH	17	0	23	12	15	0		*
<b>SASKATCHEWAN</b>									<b>PRINCE EDWARD ISLAND</b>								
CREE LAKE	16	*	28	5	33	0		*	CHARLOTTETOWN	18	-1	24	14	58	0		*
ESTEVAN	19	-2	31	9	10	0		*	SUMMERSIDE	18	-2	24	14	60	0		*
LA RONGE	17	1	27	7	49	0		*	<b>NEWFOUNDLAND</b>								
REGINA	18	-2	30	8	11	0		*	CARTWRIGHT	12	-1	23	4	18	0		*
SASKATOON	18	-1	30	10	7	0		*	CHURCHILL FALLS	14	0	24	5	23	0		*
SWIFT CURRENT	17	-2	30	7	0	0		X	GANDER INT'L	14	-3	26	8	32	0		*
YORKTON	17	-2	29	6	25	0		*	GOOSE	15	-1	27	3	36	0		*
<b>MANITOBA</b>									PORT-AUX-BASQUES	14	-2	16	11	23	0		*
BRANDON	17	-2	28	8	18	0		*	ST JOHN'S	14	-2	24	9	59	0		*
CHURCHILL	10	-3	20	4	10	0		*	ST LAWRENCE	14	0	22	10	54	0		X
LYNN LAKE	16	1	27	6	6	0		*	WABUSH LAKE	14	1	23	6	8	0		*

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



# STATISTICS

TEMPERATURE, PRECIPITATION AND MAXIMUM WIND DATA FOR THE WEEK ENDING 0600 GMT AUGUST 12, 1986

STATION	TEMPERATURE				PRECIP.		WIND MX		STATION	TEMPERATURE				PRECIP.		WIND MX	
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP	SOG	DIR	SPD
<b>BRITISH COLUMBIA</b>									THE PAS	17	-1	24	9	76	0	*	
CAPE ST. JAMES	14	1	17	11	3	0	*		THOMPSON	15	-1	25	3	12	0	*	
CRANBROOK	21	2	32	9	3	0	*		WINNIPEG INT'L	19	-1	28	7	12	0	*	
FORT NELSON	18	2	31	7	6	0	*		<b>ONTARIO</b>								
FORT ST. JOHN	18	2	30	7	0	0	*		ATIKOKAN	16	-1	25	6	8	0	*	
KAMLOOPS	23	2	35	11	1	0	*		BIG TROUT LAKE	14	-2	24	6	10	0	*	
PENTICTON	23	2	33	11	1	0	*		GORE BAY	19	0	26	10	29	0	*	
PORT HARDY	16	2	25	10	3	0	*		KAPUSKASING	15	-1	28	4	28	0	*	
PRINCE GEORGE	17	2	29	4	1	0	*		KENORA	17	-2	25	8	14	0	*	
PRINCE RUPERT	15	1	20	9	6	0	*		KINGSTON	20	0	24	13	*	0	X	
REVELSTOKE	20	1	31	10	5	0	*		LONDON	20	0	27	10	34	0	*	
SMITHERS	18	3	29	6	*	0	*		MOOSEHORN	14	-1	26	5	17	0	*	
VANCOUVER INT'L	19	2	28	13	0	0	*		NORTH BAY	18	0	24	9	18	0	*	
VICTORIA INT'L	18	2	28	10	0	0	*		OTTAWA INT'L	20	0	27	13	19	0	X	
WILLIAMS LAKE	18	3	31	7	9	0	X		PETAWAWA	19	0	28	9	54	0	X	
<b>YUKON TERRITORY</b>									PICKLE LAKE	16	-1	24	6	10	0	*	
DAWSON	13	-1	23	3	7	0	*		RED LAKE	16	-2	26	5	4	0	*	
MAYO	14	1	22	1	15	0	X		SUDBURY	18	0	26	8	16	0	X	
SHINGLE POINT A	12	3	21	2	3	0	*		THUNDER BAY	17	-1	28	9	13	0	*	
WATSON LAKE	15	0	27	3	3	0	*		TIMMINS	15	-1	26	5	110	0	*	
WHITEHORSE	14	0	22	7	9	0	*		TORONTO INT'L	20	-1	27	10	15	0	*	
<b>NORTHWEST TERRITORIES</b>									TRENTON	20	-1	26	13	46	0	X	
ALERT	2	-1	8	-3	*	*	*		WIARTON	19	0	27	10	12	0	X	
BAKER LAKE	9	-2	19	1	10	0	*		WINDSOR	21	0	28	13	33	0	*	
CAMBRIDGE BAY	6	-2	13	0	1	0	*		<b>QUEBEC</b>								
CAPE DYER	2	-3	11	-3	*	9	*		BAGOTVILLE	18	1	29	9	20	0	*	
CLYDE	1	-3	6	-2	1	0	*		BLANC SABLON	14	2	21	9	*	0	X	
COPPERMINE	9	-1	18	3	1	0	*		INUKJUAQ	10	1	20	5	2	0	*	
CORAL HARBOUR	5	-3	13	2	40	0	X		KUUJUAQ	16	5	27	5	29	0	*	
EUREKA	*	*	7	0	*	0	*		KUUJUARAPIK	11	1	27	4	33	0	*	
FORT SMITH	17	1	30	8	17	0	X		MANIWAKI	19	1	27	9	37	0	*	
FROBISHER BAY	6	-2	14	2	29	0	*		MONT JOLI	16	0	27	9	19	0	*	
HALL BEACH	4	-2	8	0	0	0	*		MONTREAL INT'L	20	0	26	12	42	0	*	
INUVIK	15	4	25	6	5	0	X		NATASHQUAN	15	1	19	11	9	0	*	
MOULD BAY	2	-1	9	-2	*	0	X		QUEBEC	19	0	26	11	24	0	*	
NORMAN WELLS	17	2	27	7	3	0	X		SCHEFFERVILLE	15	4	26	6	10	0	*	
RESOLUTE	2	-2	7	-1	2	0	*		SEPT-ILES	16	1	26	10	16	0	*	
							*		SHERBROOKE	19	2	27	9	59	0	*	
YELLOWKNIFE	17	1	28	11	3	0	*		VAL D'OR	16	0	27	6	41	0	*	
<b>ALBERTA</b>									<b>NEW BRUNSWICK</b>								
CALGARY INT'L	16	0	28	7	4	0	*		CHARLO	18	1	27	11	57	0	*	
COLD LAKE	17	0	29	6	7	0	*		CHATHAM	19	0	30	11	35	0	*	
CORONATION	15	2	30	6	18	0	*		FREDERICTON	20	1	28	11	91	0	*	
EDMONTON NAMAQ	16	-1	28	6	10	0	*		MONCTON	20	2	28	13	17	0	*	
FORT MCMURRAY	17	1	30	6	5	0	X		SAINT JOHN	18	1	25	11	56	0	*	
HIGH LEVEL	16	1	29	5	1	0	*		<b>NOVA SCOTIA</b>								
JASPER	17	2	30	5	4	0	X		GREENWOOD	20	1	28	12	22	0	*	
LETHBRIDGE	18	-1	33	1	7	0	*		SHEARWATER	20	1	28	14	61	0	*	
MEDICINE HAT	19	-1	31	9	10	0	*		SYDNEY	19	1	28	13	5	0	*	
PEACE RIVER	16	1	31	4	*	0	*		YARMOUTH	18	1	23	13	5	0	*	
<b>SASKATCHEWAN</b>									<b>PRINCE EDWARD ISLAND</b>								
CREE LAKE	15	-1	27	3	15	0	*		CHARLOTTETOWN	20	1	27	13	8	0	*	
ESTEVAN	18	-2	30	6	2	0	*		SUMMERSIDE	20	1	27	14	10	0	*	
LA RONGE	16	0	28	7	12	0	*		<b>NEWFOUNDLAND</b>								
REGINA	17	-2	29	5	4	0	*		CARTWRIGHT	14	1	24	5	13	0	*	
SASKATOON	17	-2	29	6	12	0	*		CHURCHILL FALLS	16	3	25	5	10	0	*	
SWIFT CURRENT	17	-2	29	6	16	0	X		GANDER INT'L	17	1	26	11	22	0	*	
YORKTON	15	-3P	25	4	24	0	*		GOOSE	17	2	24	9	16	0	*	
<b>MANITOBA</b>									PORT-AUX-BASQUES	16	0	20	12	28	0	*	
BRANDON	17	-2	27	4	6	0	*		ST JOHN'S	16	0	25	7	19	0	*	
CHURCHILL	12	0	27	5	22	0	*		ST LAWRENCE	16	2	25	10	5	0	X	
LYNN LAKE	14	-1P	24	4	13	0	*		WABUSH LAKE	15	3	26	8	18	0	*	

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



TEMPERATURE, PRECIPITATION AND MAXIMUM WIND DATA FOR THE WEEK ENDING 0600 GMT AUGUST 19, 1986

STATION	TEMPERATURE				PRECIP.		WIND MX		STATION	TEMPERATURE				PRECIP.		WIND MX	
	AV	DP	MX	MN	TP	SOG	DIR	SPD		AV	DP	MX	MN	TP	SOG	DIR	SPD
<b>BRITISH COLUMBIA</b>									THE PAS	18	*	30	6	11	0	300	78
CAPE ST. JAMES	14	0	17	10	13	0	310	72	THOMPSON	15	1	31	3	33	0	260	50
CRANBROOK	20	3	32	9	0	0	210	50	WINNIPEG INT'L	19	1	33	6	0	0	340	43
FORT NELSON	14	-1	26	4	15	0	280	69	<b>ONTARIO</b>								
FORT ST. JOHN	15	0	26	7	4	0	250	63	ATIKOKAN	17	0	29	3	1	0		*
KAMLOOPS	22	1	32	9	2	0		*	BIG TROUT LAKE	15	*	25	8	33	0	320	65
PENTICTON	21	2	33	9	0	0	260	37	GORE BAY	19	1	26	10	2	0		*
PORT HARDY	14	0	21	6	0	0	340	46	KAPUSKASING	17	2	27	4	1	0	220	44
PRINCE GEORGE	14	*	26	0	6	0	290	46	KENORA	18P	1P	26P	11P	0	0	280	37
PRINCE RUPERT	13	0	18	5	28	0	280	31	KINGSTON	19P	0P	25P	10P	35	0		X
REVELSTOKE	20	2	31	7	1	0	320	63	LONDON	21	2	29	9	1	0	260	37
SMITHERS	14	-1	25	1	8	0	290	37	MOOSONEE	17	3	28	2	2	0	220	50
VANCOUVER INT'L	18	1	24	11	0	0	300	43	NORTH BAY	18	1	25	8	9	0	230	39
VICTORIA INT'L	17	1	25	8	0	0		*	OTTAWA INT'L	20	1	29	10	16	0		X
WILLIAMS LAKE	15	*	26	2	2	0		X	PETAWAWA	18	0	28	5	8	0		X
<b>YUKON TERRITORY</b>									PICKLE LAKE	17P	2P	28P	8P	11	0		*
DAWSON	10	*	21	-2	5	0	270	41	RED LAKE	18	2	28	5	16	0	320	54
MAYO	11	-2	21	1	32	0		X	SUDBURY	19	2	28	8	7	0		X
SHINGLE POINT A	9	0	19	2	21	0		*	THUNDER BAY	17P	1P	27P	6P	6P	0	190	33
WATSON LAKE	11	-3	22	3	17	0	290	65	TIMMINS	17P	2P	28P	6P	7	0		*
WHITEHORSE	9	-3	19	2	16	0	290	63	TORONTO INT'L	20	1	30	9	53	0	300	52
<b>NORTHWEST TERRITORIES</b>									TRENTON	20	1	27	9	18	0		X
ALERT	4	3	12	-4	2P	0	210	54	WIARTON	18	1	28	7	1	0		X
BAKER LAKE	9	-1	18	4	20	0	330	63	WINDSOR	21	0	30	11	12	0	250	65
CAMBRIDGE BAY	5	-1	11	1	6	0	330	41	<b>QUEBEC</b>								
CAPE DYER	2	-3	6	-1	40	0	180	39	BAGOTVILLE	18	1	27	6	8	0	230	35
CLYDE	0	-4	7	-3	12	0	320	50	BLANC SABLON	15P	*	21P	9P	4	0		X
COPPERMINE	6	*	11	-1	0	0	050	41	INUKJUAK	8	-2	16	4	13	0	190	63
CORAL HARBOUR	6P	-2P	15P	0P	10	0		X	KUUJUAQ	10	0	24	1	28	0	240	56
EUREKA	5	1	10	0	0	0	020	43	KUUJUARAPIK	10	0	23	4	34	0	170	63
FORT SMITH	13	-1	23	3	20	0		X	MANIWAKI	18	1	29	7	74	0		*
FROBISHER BAY	5P	-2P	9P	2P	57	0	140	74	MONT JOLI	16	0	25	9	10	0	250	59
HALL BEACH	2	-2	6	-1	20	0	080	50	MONTREAL INT'L	20	0	29	11	12	0	030	37
INUVIK	11	-1	21	2	8	0		X	NATASHQUAN	15	2	24	7	7	0	270	69
MOULD BAY	4	2	10	-1	0	0		X	QUEBEC	18	1	26	7	15	0	250	41
NORMAN WELLS	13	0	24	1	22	0		X	SCHEFFERVILLE	12	1	21	4	24	0	230	63
RESOLUTE	4	1	7	1	3	0	050	56	SEPT-ILES	15	1	22	5	6	0	210	56
								*	SHERBROOKE	18	2	28	6	3	0		*
YELLOWKNIFE	13	-1	21	6	49	0	030	41	VAL D'OR	17	2	26	6	6	0	210	41
<b>ALBERTA</b>									<b>NEW BRUNSWICK</b>								
CALGARY INT'L	17	2	30	6	1	0	270	59	CHARLO	17	0	27	8	12	0		*
COLD LAKE	16	0	29	4	0	0	270	56	CHATHAM	18	0	28	7	54	0	250	41
CORONATION	16	-1	31	4	1	0	180	41	FREDERICTON	18	-1	26	8	9	0	250	39
EDMONTON NAMAO	17	1	29	6	0	0	340	81	MONCTON	18	0	25	9	17	0	220	39
FORT MCMURRAY	15	0	29	3	4	0		X	SAINT JOHN	16P	0P	23P	9P	22	0	230	35
HIGH LEVEL	14	0	26	5	16	0	360	74	<b>NOVA SCOTIA</b>								
JASPER	15	0	27	2	3	0		X	GREENWOOD	17	-1	25	8	13	0	270	48
LETHBRIDGE	19	1	33	8	2	0	280	74	SHEARWATER	18	0	25	11	30	0		*
MEDICINE HAT	20P	1P	33P	11P	1	0		*	SYDNEY	17	-1	25	11	7	0		*
PEACE RIVER	15	1	27	5	8	0	280	52	YARMOUTH	17	0	23	9	14	0		*
<b>SASKATCHEWAN</b>									<b>PRINCE EDWARD ISLAND</b>								
CREE LAKE	14	0	29	3	17	0	280	50	CHARLOTTETOWN	19	0	25	13	7	0		*
ESTEVAN	19	0	32	5	9	0	320	43	SUMMERSIDE	18	0	25	12	16	0	300	43
LA RONGE	18P	3P	31	3P	2	0	310	56	<b>NEWFOUNDLAND</b>								
REGINA	18	1	33	5	2	0	300	43	CARTWRIGHT	15P	3P	24P	9P	15	0	220	41
SASKATOON	19	2	32	8	1	0	320	56	CHURCHILL FALLS	15	2	26	5	3	0	250	56
SWIFT CURRENT								0	GANDER INT'L	18	2	27	9	0	0	290	33
YORKTON	17	0	31	3	0	0	310	50	GOOSE	18P	3P	28P	9P	16	0	260	56
<b>MANITOBA</b>									PORT-AUX-BASQUES	15	1	21	11	16	0	290	63
BRANDON	17	0	29	2	0	0	350	44	ST JOHN'S	16	0	24	9	0	0	280	46
CHURCHILL	10	-2	17	3	17	0	290	59	ST LAWRENCE	14	0	21	6	3	0		X
LYNN LAKE	14	0	29	2	30	0	260	80	WABUSH LAKE	13	1	24	3	15	0	200	67

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 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

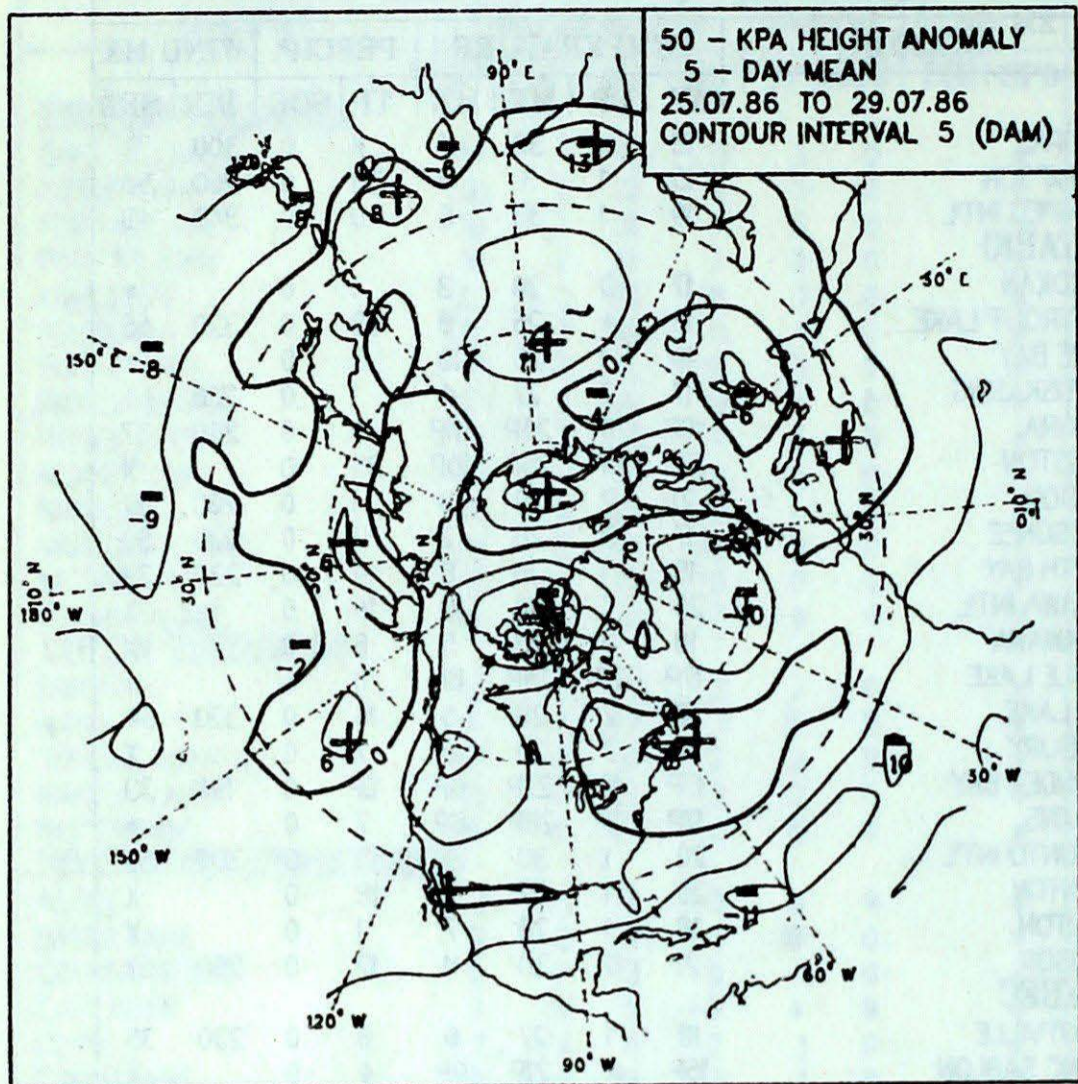
DIR = direction of maximum wind speed (deg. from true north)  
 SPD = maximum wind speed in km/hour

X = not observed  
 P = value based on less than 7 days  
 \* = missing

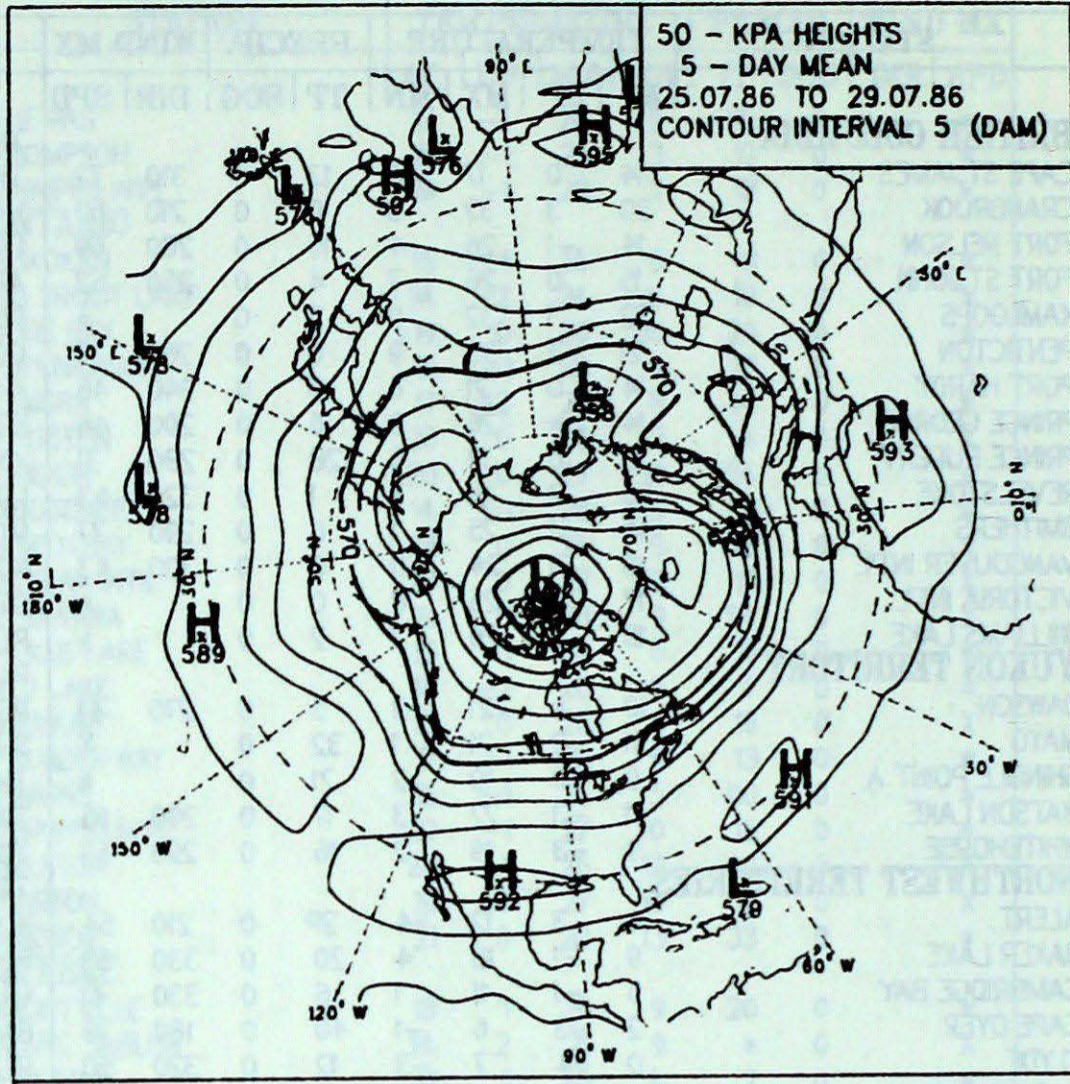


# CIRCULATION

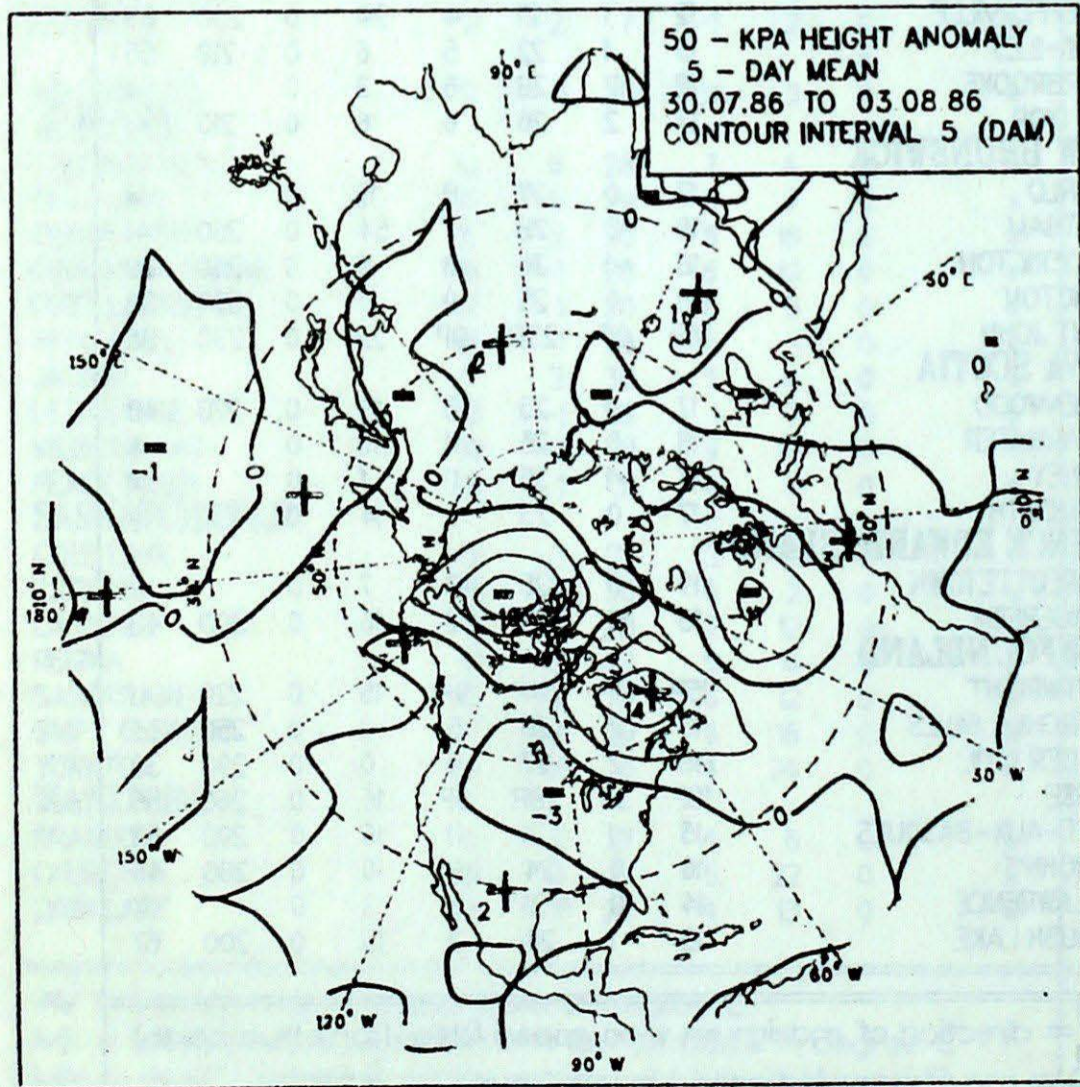
## 50 KPa ATMOSPHERIC CIRCULATION



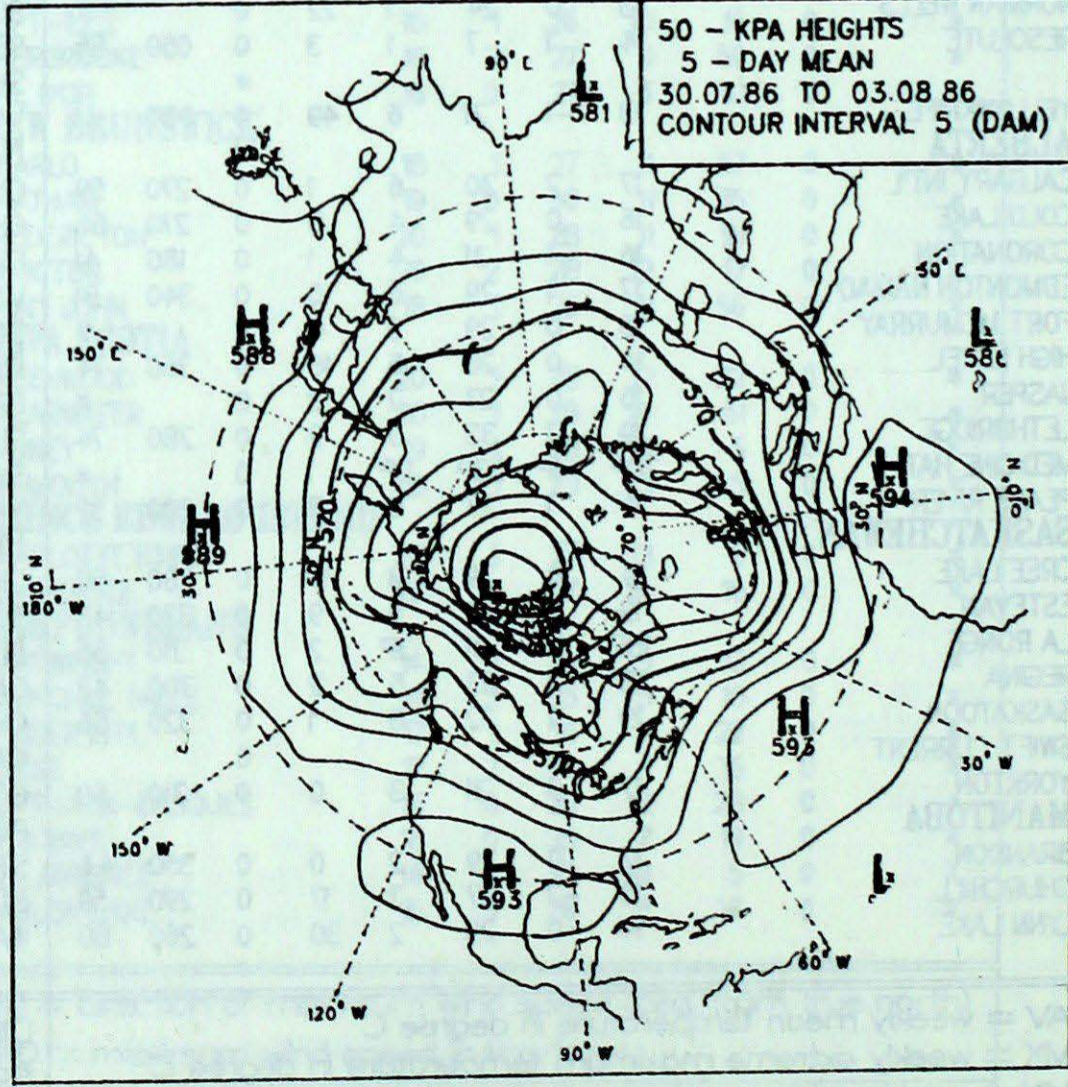
MEAN 50 KPa HEIGHT ANOMALY (dam)  
July 25 to July 29, 1986



MEAN 50 KPa HEIGHTS (dam)  
July 25 to July 29, 1986



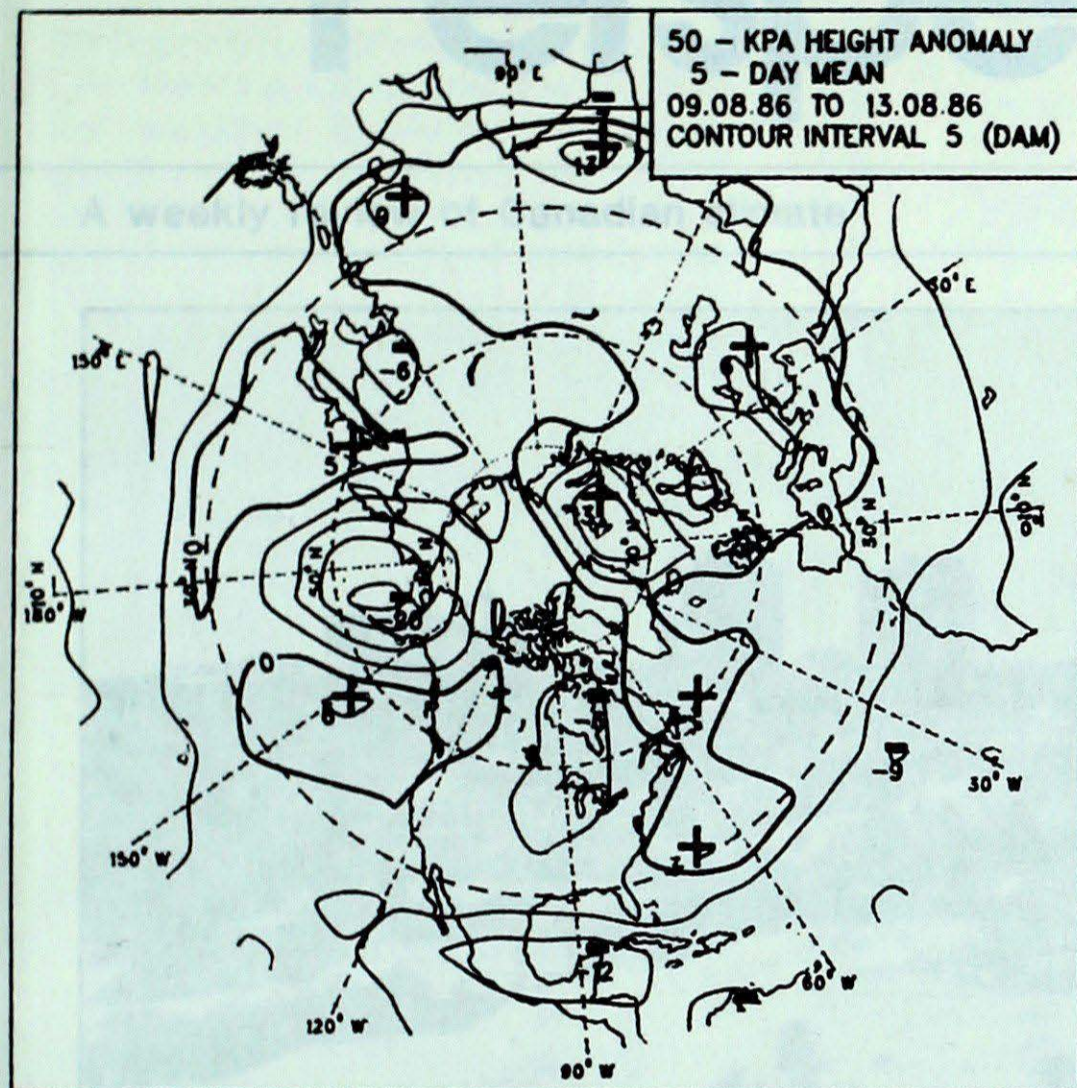
MEAN 50 KPa HEIGHT ANOMALY (dam)  
July 30 to August 3, 1986



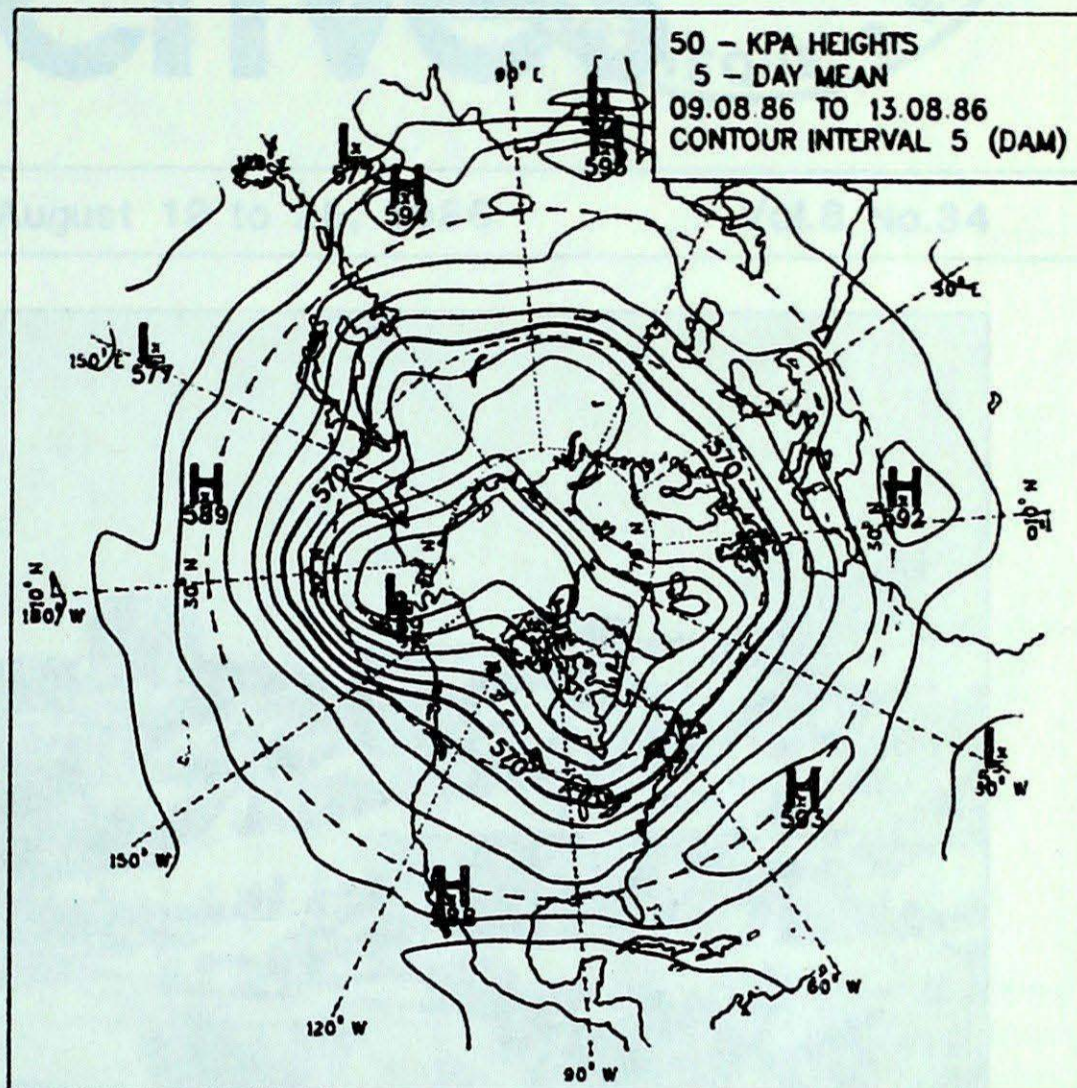
MEAN 50 KPa HEIGHTS (dam)  
July 30 to August 3, 1986



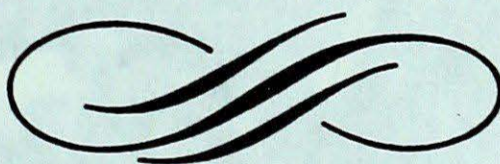
50 KPa ATMOSPHERIC CIRCULATION



MEAN 50 KPa HEIGHT ANOMALY (dam)  
August 9 to August 13, 1986



MEAN 50 KPa HEIGHTS (dam)  
August 9 to August 13, 1986



The weather office is located at the airport approximately 2 km northwest of the city proper. It serves the growing financial hub of Canada's Northwest Territories. For information see page 3.

Tropical storm Charley brushes past Atlantic Canada

— strongest winds and 1...

Cold Arctic air encompasses...

— snow and record low...





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