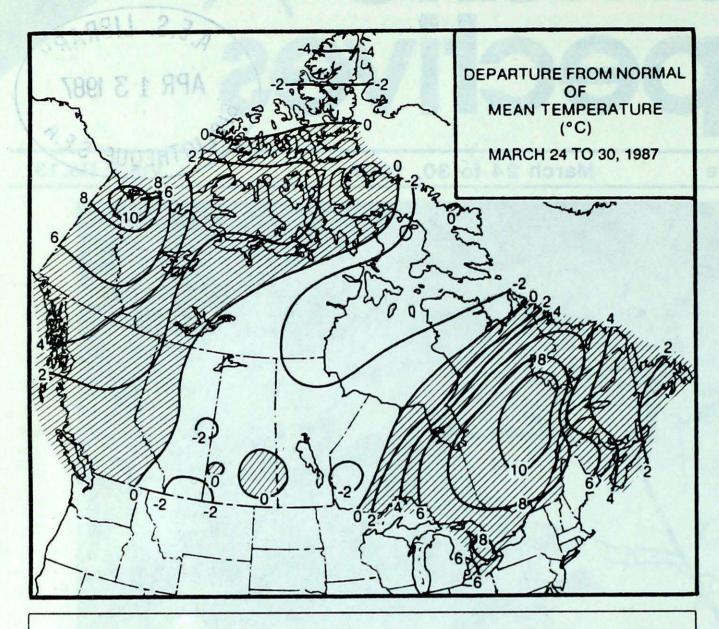


The massive cloud shield, which covers most of the eastern half of North America, is associated with a strengthening low pressure system which moved up from the American south and tracked toward the lower Lakes. The combination of a good moisture feed from the Gulf States and an Arctic airmass sweeping southeastwards from the prairies, behind the system, produced substantial snowfalls throughout the lower Great Lakes basin. G.O.E.S. Satellite photo, March 30, 1987.

- Spring shortlived as wintry blast hits central Canada
  - Cold and snow on the Prairies
    - Major snow storm hits Ontario





# WEEKLY TEMPERATURE EXTREME (C)

	MAXIMUM		MINIMUM				
BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES	HOPE MAYO HAY RIVER	19 9 6	FORT ST.JOHN TUCHITUA SHEPHERD BAY A	-23 -29 -43			
ALBERTA SASKATCHEWAN MANITOBA ONTARIO QUEBEC	CALGARY INT'L  KINDERSLEY DAUPHIN WINDSOR BAGOTVILLE SHERBROOKE	17 12 9 21 19	COLLINS BAY CHURCHILL BIG TROUT LAKE KUUJJUAQ	-31 -28 -32 -30 -28			
NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND C NEWFOUNDLAND	CHATHAM GREENWOOD HARLOTTETOWN DEER LAKE	19 17 10 11	CHATHAM AMHERST SUMMERSIDE CHURCHILL FALLS	-8 -8 -8			
ACR	OSS THE NAT	ION	pu bases docte a control of the cont				
WARMEST MEAN TEMPERA	TURE	9	WINDSOR				

-39

EUREKA

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COOLEST MEAN TEMPERATURE

ACROSS THE COUNTRY...

### Yukon and Northwest Territories

A major Pacific weather system produced significant snowfalls in the southern and central Yukon. More than 20 cm of snow fell in the Cassiar Mountains of the southeast, disrupting traffic on the Alaska Highway. Daily maximum temperature records were broken in the Yukon, while in the southern Mackenzie District daytime highs only managed to climb to near freezing, as an Arctic air mass established itself over the Territories. On March 27, Whitehorse set a new monthly sunshine record of 205.1 hours surpassing the previous record of 195.1 hours in 1974. Although weather conditions were seasonally fair over southern Baffin Island, snow, blizzards and dangerous windchills were reported in the Keewatin District and along the Hudson Bay coast.

### British Columbia

It was a pleasant week, with cool nights and seasonally mild, sunny days. Although daily high temperature records were broken at several locations, an Arctic air mass kept the southeast portion of the province on the cool side. The snow cover was melting rapidly in northern B.C.. Skiing is excellent only at the higher elevations in the interior. Apricot trees are in bloom in the Okanagan Valley.

### Prairies

Disturbances produced snowfalls in all three provinces, with an Arctic airmass slipping southwards by the weekend. Near seasonal temperatures earlier in the week gave way to below normal values after the 28th, as an area of high pressure covered the region. After the middle of the week, daytime readings were suppressed well below the freezing mark, with over night minimums plugging to the minus twenties and thirties. A few daily low temperature records were broken in the north. Most areas had fresh snowfalls, ranging from a trace to 10 cm. Blowing snow was reported in some districts on the 27th. Temperatures started to moderate, from the west, over the weekend.

#### Ontario

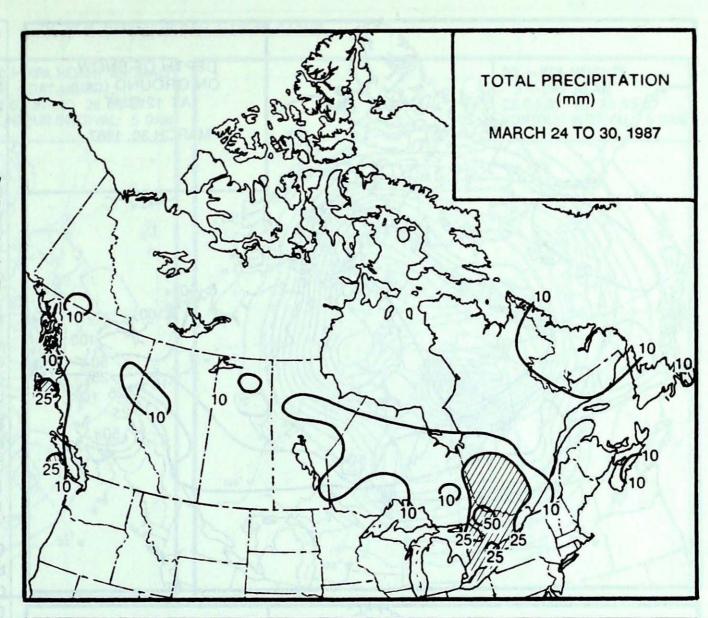
In spite of the numerous new daily warm temperature records set in the province on March 23 and 24, the sunny, dry weather of the previous three weeks came to a gradual end. By mid-week, rain was reported falling in the south, and a mixture of rain and snow in the north. Winter returned with a vengeance the final day of the period, as a complex low pressure system emerged out of the American mid-west, bringing with it a mixed bag of precipitation on the 29th. As Arctic air spilled southeastwards behind a cold front, the rain in the south, on the evening of the 30th, changed to a mixture of freezing rain, ice pellets and snow. On the morning of the 31st, already up to 15 cm of fresh snow covered southern Ontario. Needless to say, after the beautiful stretch of spring weather experienced earlier, morning rush hour traffic was in chaos.

# Quebec

Mild temperatures and sunshine dominated the weather picture most of the week, but cloudy skies were more prevalent in the northern sections of the province. No less than 39 daily temperature records were broken during the period, with the mercury soaring to 19°C in the Eastern Townships and the Laurentians earlier in the week. The weather was excellent for spring skiing, but ski resorts have had to close some of their lower slopes. Difficulties have been experienced with maple syrup production because the mild weather has greatly reduced sap flows. Spring flooding was reported in the Beauce region. The Chaudiere River has been flowing over it's banks since the 27th, although flood waters are reported to be now receding.

### Maritimes

It was a mild week, with sunny weather conditions during the early and latter parts of the period. In New Brunswick, the mercury soared to



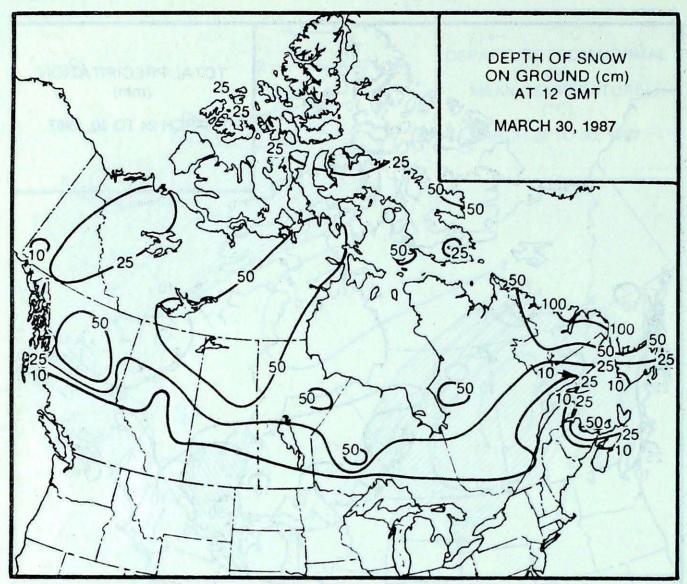
HEAVIEST WEEKLY	PRECIPITATION (mn	n)	
BRITISH COLUMBIA	PRINCE RUPERT	40	-
YUKON TERRITORY	MORLEY RIVER	15	
NORTHWEST TERRITORIES	CAPE DORSET A	7	1
ALBERTA	GRANDE PRAIRIE	10	
SASKATCHEWAN	COLLINS BAY	13	N/ALA
MANITOBA	GILLAM	12	$\wedge \wedge 1$
ONTARIO	NORTH BAY	50	
QUEBEC	MANIWAKI	31	
NEW BRUNSWICK	CHATHAM	9	
NOVA SCOTIA	SABLE ISLAND	18	
PRINCE EDWARD ISLAND	CHARLOTTETOWN	9	
NEWFOUNDLAND	PORT-AUX-BASQUES	21	145

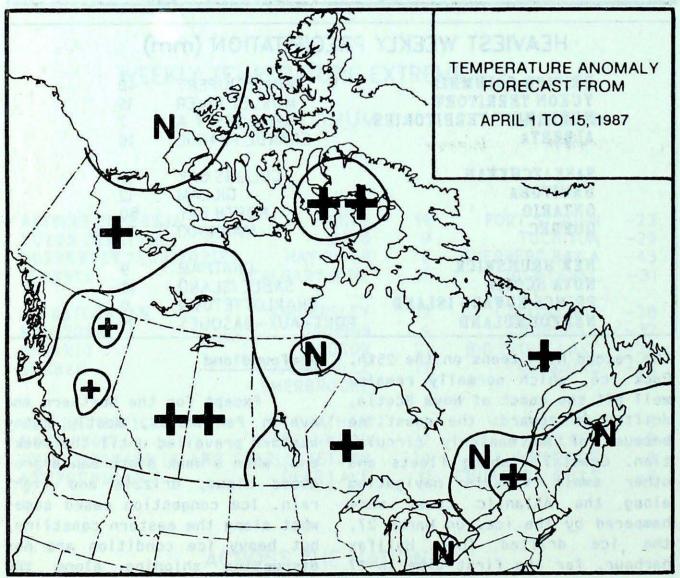
the record high teens on the 25th. Pack ice, which normally remains well off the coast of Nova Scotia, drifted in towards the coastline because of an easterly circulation. Coastal fishing fleets and other small vessels navigating along the Atlantic coast were hampered by the ice. On March 27, the ice drifted into Halifax harbour, for the first time in 27 years, disrupting a lot of marine traffic. Ferry services between Halifax and Dartmouth were halted because of the ice, stranding many passengers. Shipping returned to normal over the weekend, when the ice finally moved out of the normally ice-free ocean port.

# **Newfoundland**

Except for the Northern and Avalon Peninsulas, mostly sunny weather prevailed until the weekend, when a weak disturbance produced cloud, drizzle and light rain. Ice congestion eased somewhat along the eastern coastline, but heavy ice condition are now disrupting shipping along the south coast near Placentia and St. Mary's Bay.

In Labrador, temperatures were unseasonably mild. A weak weather system lingering over the area most of the week gave generally cloudy conditions with periods of snow and rain.





# 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.

### CLIMATIC PERSPECTIVES VOLUME 9

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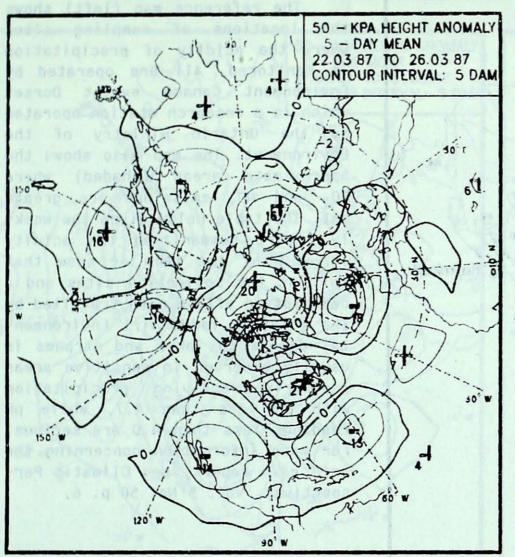
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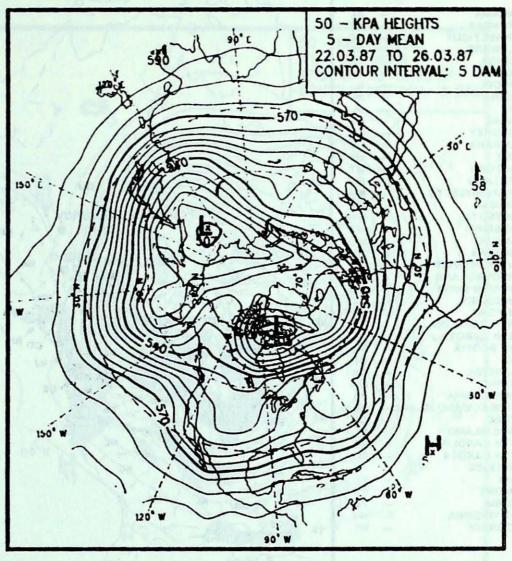
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# 50 KPa ATMOSPHERIC CIRCULATION

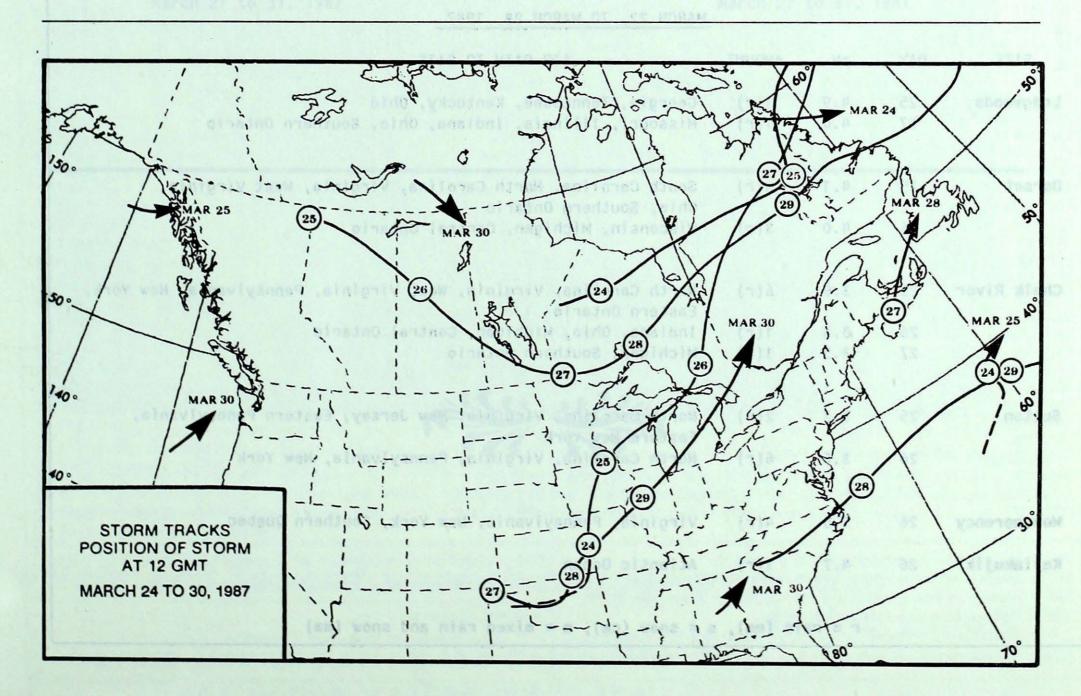


ACID RAIN REPORT



MEAN 50 KPa HEIGHT ANOMALY (dam) March 22 to 26, 1987

MEAN 50 KPa HEIGHTS (dam) March 22 to 26, 1987



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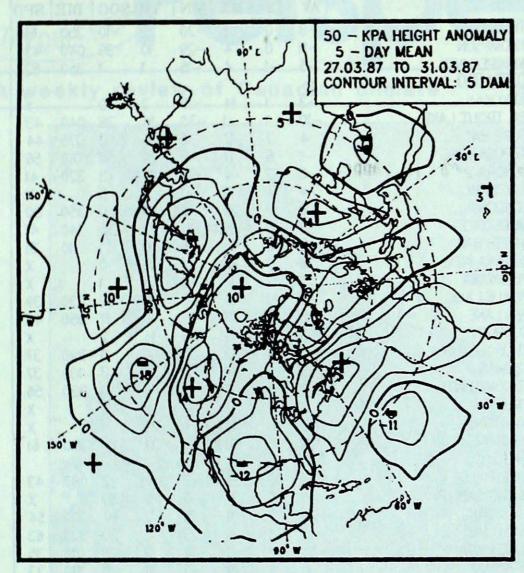
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### ACID RAIN REPORT

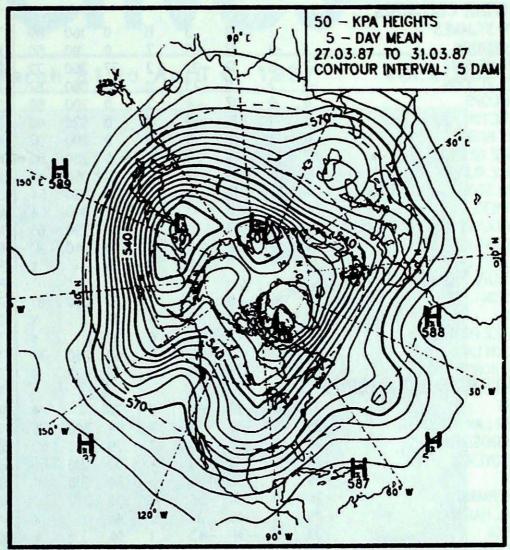
The reference map (left) shows the locations of sampling sites where the acidity of precipitation is monitored. All are operated by Environment Canada except Dorset which is a research station operated by the Ontario Ministry of the Environment. The map also shows the approximate areas (shaded) where 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.

SITE	DAY	рН	AMOUNT	AIR PATH TO SITE
Longwoods	25	4.9	1(r)	Georgia, Tennessee, Kentucky, Ohio
	27	4.0	1(r)	Missouri, Illinois, Indiana, Ohio, Southern Ontario
Dorset	25	4.1	4(r)	South Carolina, North Carolina, Virginia, West Virginia, Ohio, Southern Ontario
	26	4.0	3(r)	Wisconsin, Michigan, Central Ontario
Chalk River	25	3.9	6(r)	North Carolina, Virginia, West Virginia, Pennsylvania, New York, Eastern Ontario
	26	3.8	1(r)	Indiana, Ohio, Michigan, Central Ontario
	27	3.5	1(r)	Michigan, Southern Ontario
Sutton	25	3.7	2(r)	North Carolina, Virginia, New Jersey, Eastern Pennsylvania, Eastern New York
	26	3.6	6(r)	North Carolina, Virginia, Pennsylvania, New York
Mont∎orency	26	3.5	4(r)	Virginia, Pennsylvania, New York, Southern Quebec
Kejimkujik	26	4.7	1(r)	Atlantic Ocean

# 50 KPa ATMOSPHERIC CIRCULATION



MEAN 50 KPa HEIGHT ANOMALY (dam) March 27 to 31, 1987



MEAN 50 KPa HEIGHTS (dam) March 27 to 31, 1987



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	NIY LANE	-13	U	-1	-30		30	030	30	"ADOSH LAKE	du Z	11				<b>Z</b> 1	100	

X = not observed

\* = missing

P =value based on less than 7 days

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