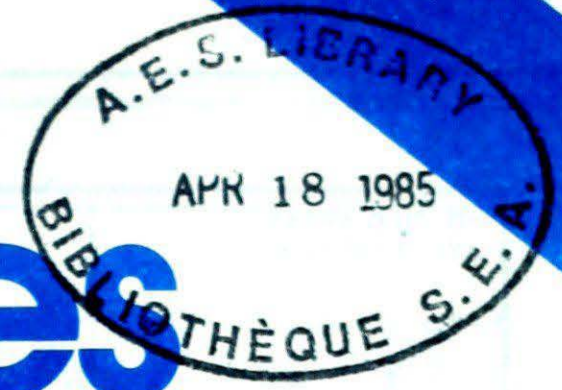


Climatic Perspectives

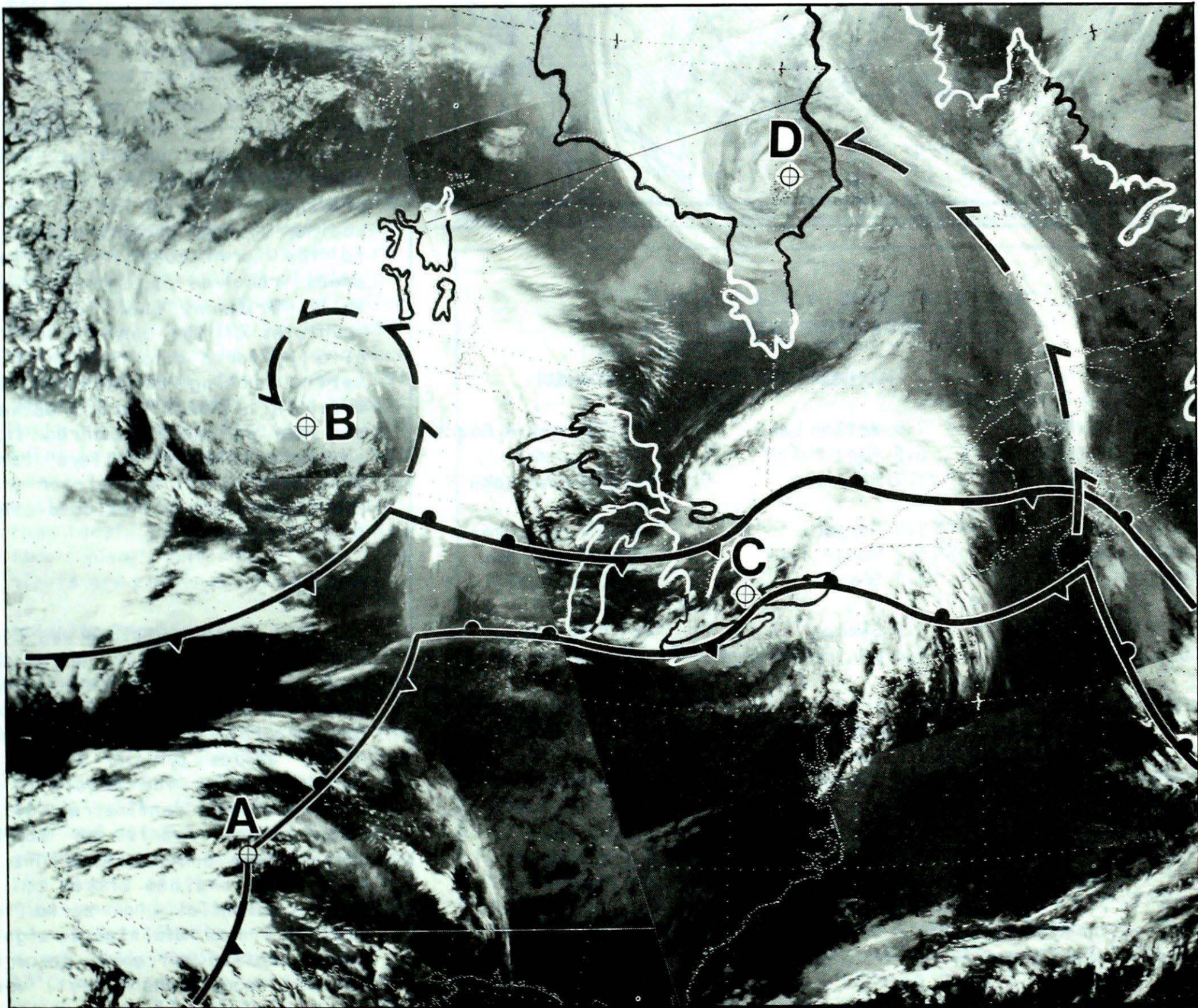


A weekly review of Canadian climate

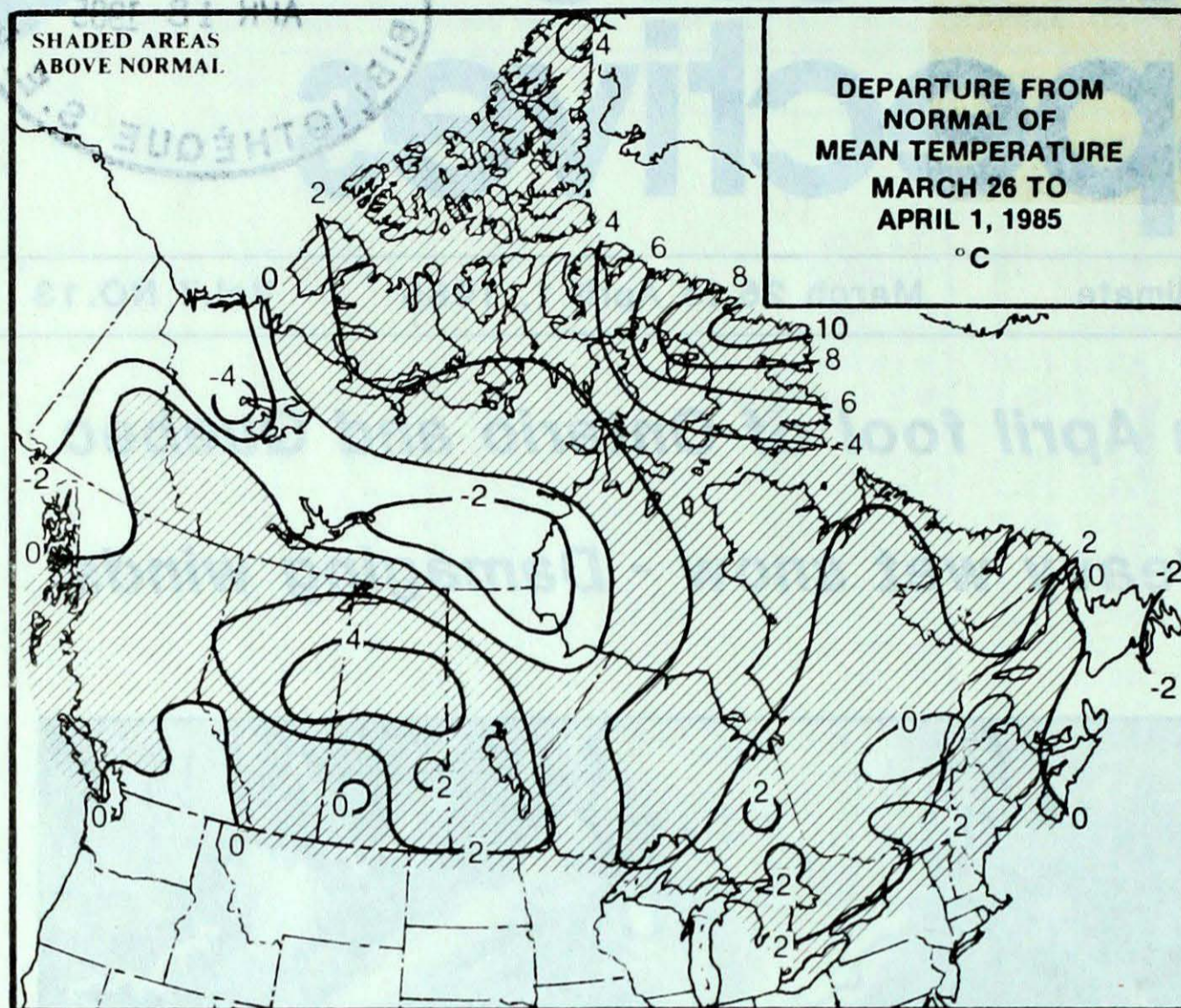
March 26 to April 1, 1985

Vol.7 NO.13

- ***Nature makes an April fool of Ontario and Quebec***
Freezing rain - Heavy wet snow - Damaging winds



This NOAA 9 satellite image of March 28, 1985 shows several storms crossing the continent. For more detail see page 3.

**ACROSS THE COUNTRY...****Yukon and Northwest Territories**

It was generally cloudy and unseasonably cool in the Yukon and Mackenzie District. On the other hand, above normal mean temperatures were observed in the eastern Arctic, especially on Baffin Island. Daily temperatures ranged from a low -46°C at Eureka to a high of 8°C at Watson Lake. Some areas in the Yukon and the eastern Arctic received 10 cm of new snow. Whitehorse has set a new winter season snowfall record up to the end of March with 175 cm. The normal snowfall for the same period is 122.3 cm.

British Columbia

In the north and the Peace River District it was relatively pleasant, but unsettled weather conditions plagued the rest of the province. A series of approaching weather systems brought heavy rains to the north coast, while inland areas received substantial snowfalls. Frequent snow fell in the mountains of the central interior, allowing for a continuation of good spring skiing conditions. Many mountain highways were treacherous and some avalanches occurred. In the southern interior valleys farmers were burning off the winter grass. The temperature at Kamloops climbed to 22°C on April 1.

Prairies

The weather picture was cloudy and damp in the east, while skies were variably sunny in the west. Temperatures were seasonably cool, but gradually moderated to above normal values by the end of the period. During the middle of the week, several centimetres of new snow covered parts of southern Saskatchewan and Manitoba. The ice on most rivers has broken up. The flood potential in agricultural districts has diminished significantly due to extremely favourable weather conditions. Last week's major snow storm in southern Alberta was very beneficial, increasing the soil moisture reserves for the upcoming growing season.

WEEKLY TEMPERATURE EXTREMES ($^{\circ}\text{C}$)

| | MAXIMUM | MINIMUM |
|-----------------------|----------------------|----------------------|
| YUKON TERRITORY | 7.5 Watson Lake | -32.2 Komakuk Beach |
| NORTHWEST TERRITORIES | 6.5 Fort Smith | -46.0 Eureka |
| BRITISH COLUMBIA | 21.7 Kamloops | -16.7 Dease Lake |
| ALBERTA | 18.8 Calgary | -24.5 High Level |
| SASKATCHEWAN | 16.2 Moose Jaw | -30.0 Cree Lake |
| MANITOBA | 10.5 Brandon | -28.1 Churchill |
| ONTARIO | 18.9 Simcoe | -24.5 Big Trout Lake |
| QUEBEC | 13.4 Montréal/Dorval | -28.0 Nitchequon |
| NEW BRUNSWICK | 14.5 Fredericton | -9.7 Charlo |
| NOVA SCOTIA | 14.4 Yarmouth | -12.5 Truro |
| PRINCE EDWARD ISLAND | 7.1 Summerside | -11.3 Charlottetown |
| NEWFOUNDLAND | 6.9 Burgeo | -25.3 Wabush Lake |

ACROSS THE NATION

| | | |
|---------------------------|-------|--------------|
| Warmest mean temperature | 7.4 | Lytton, B.C. |
| Coollest mean temperature | -32.6 | Eureka, NWT |

Ontario

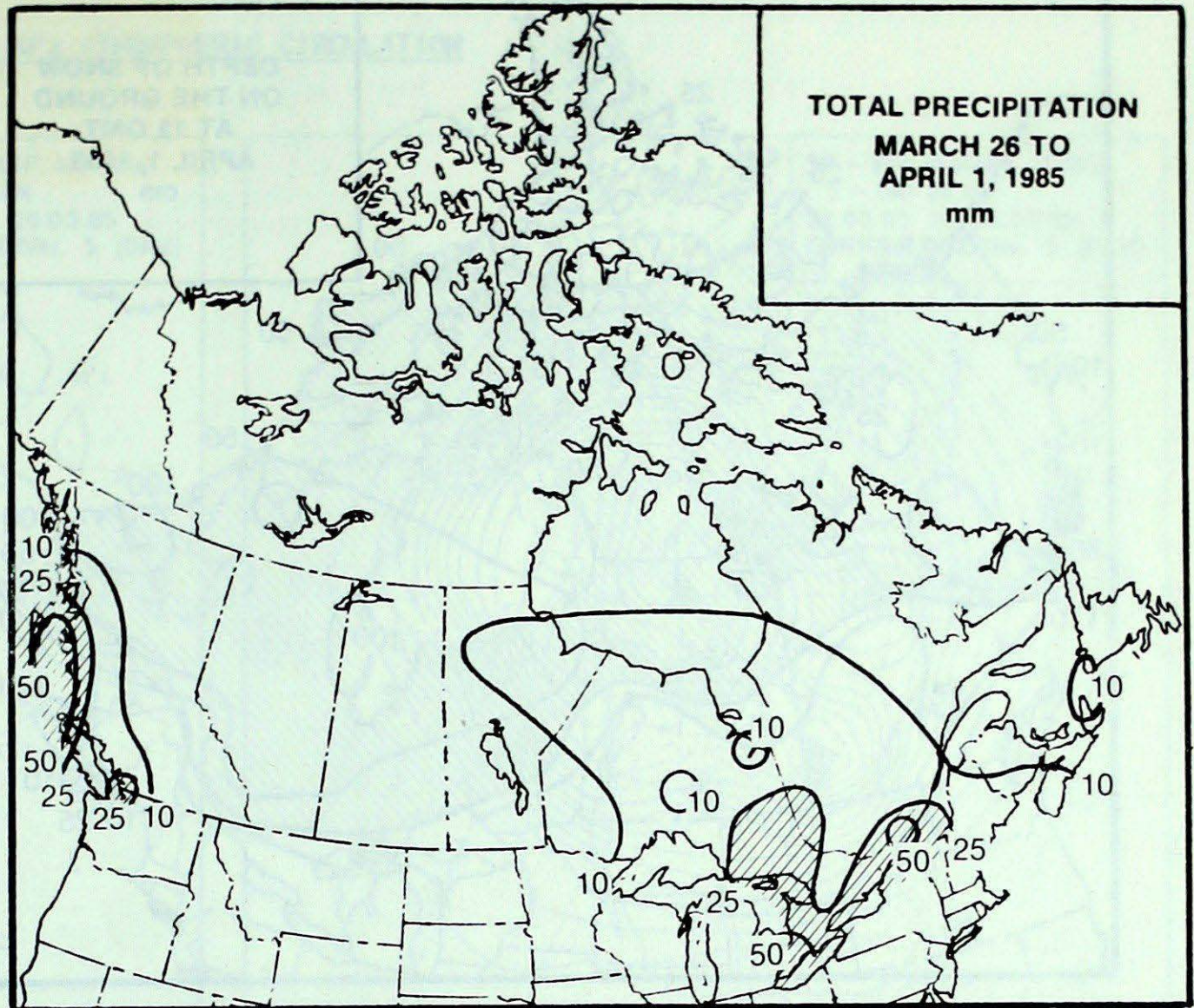
A vigorous storm tracked out of the mid-west on March 31, bringing a combination of freezing rain, heavy snow and gale force winds to a large portion of the province. In southern Ontario many large trees weighted by a thick coating of ice were unable to withstand the 70 km/h winds, and toppled across hydro lines and roads. In some cases electric power was not restored until the next day. Many southern locations received between 10 and 15 millimetres of freezing rain, while up to 25 cm of snow fell in central Ontario. In the extreme northwest 20 cm of new snow fell earlier in the week. Only residents in northern Ontario were spared from the inclement weather.

Québec

On April 1, between 15 and 20 centimetres of new snow blanketed southwestern Québec, pleasing most skiing enthusiasts. Montréal received more than 40 mm of precipitation this week, 20 mm of which fell as rain earlier in the week. Temperatures across the province fluctuated from day to day, but generally averaged near normal. Maple syrup production was in full swing in the Eastern Townships, but near the St. Lawrence Valley weather conditions have been less than ideal. To stimulate a good sap flow sunny warm days and cool nights are required.

Atlantic Provinces

Varying amounts of cloud and sun were reported over the Maritimes and Newfoundland during the period, while Labrador, under the influence of an on-shore flow, was cloudy with frequent periods of snow and drizzle. Temperatures were generally mild, especially during the middle of the week, when daytime readings soared to the mid-teens. Both Charlottetown and Halifax set a new daily temperature record of 13°C on March 29, while temperatures climbed to 15°C in New Brunswick. An approaching storm on April 1 dumped up to 20 cm of fresh snow in central Nova Scotia, resulting in the closure of rural schools.

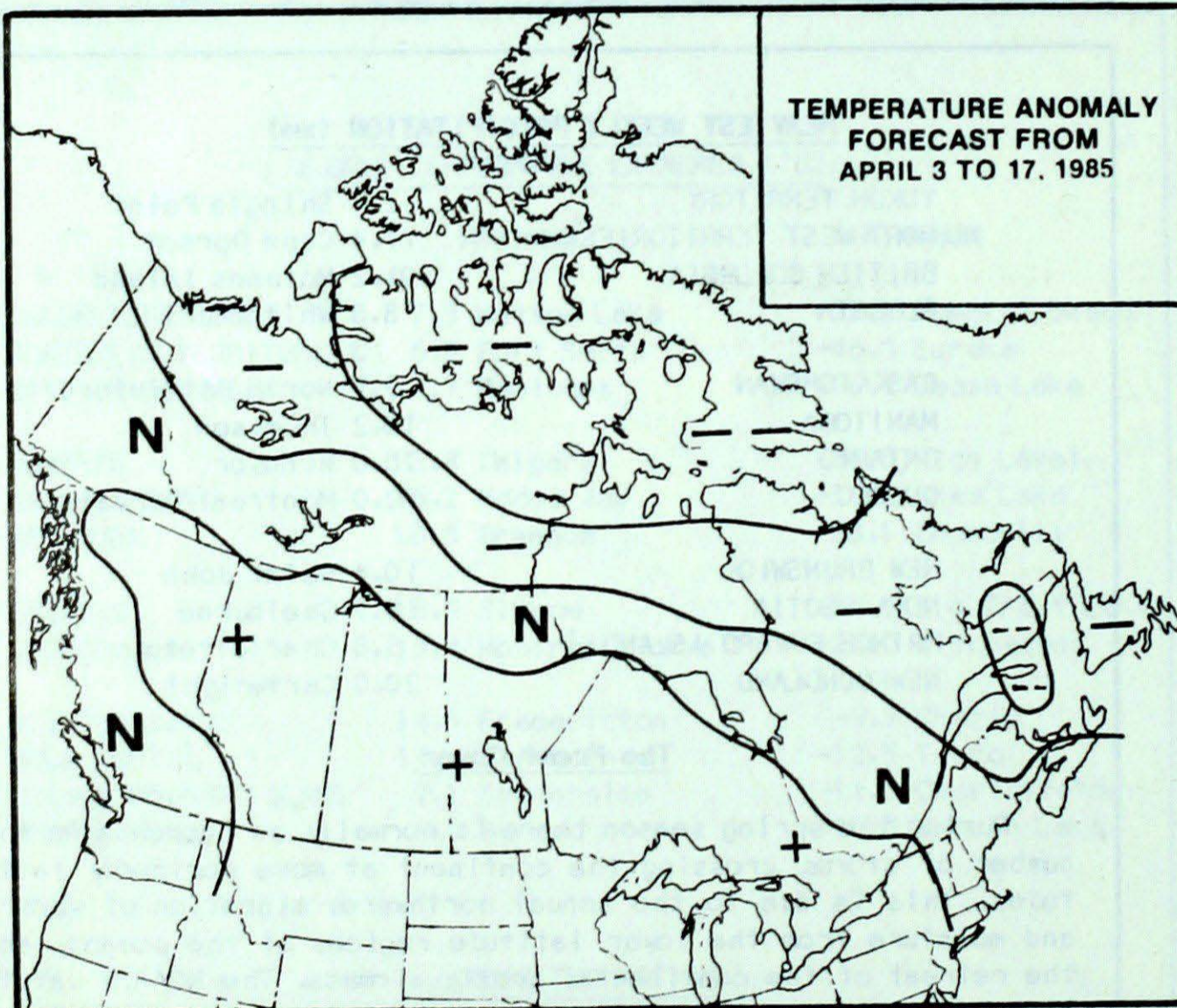
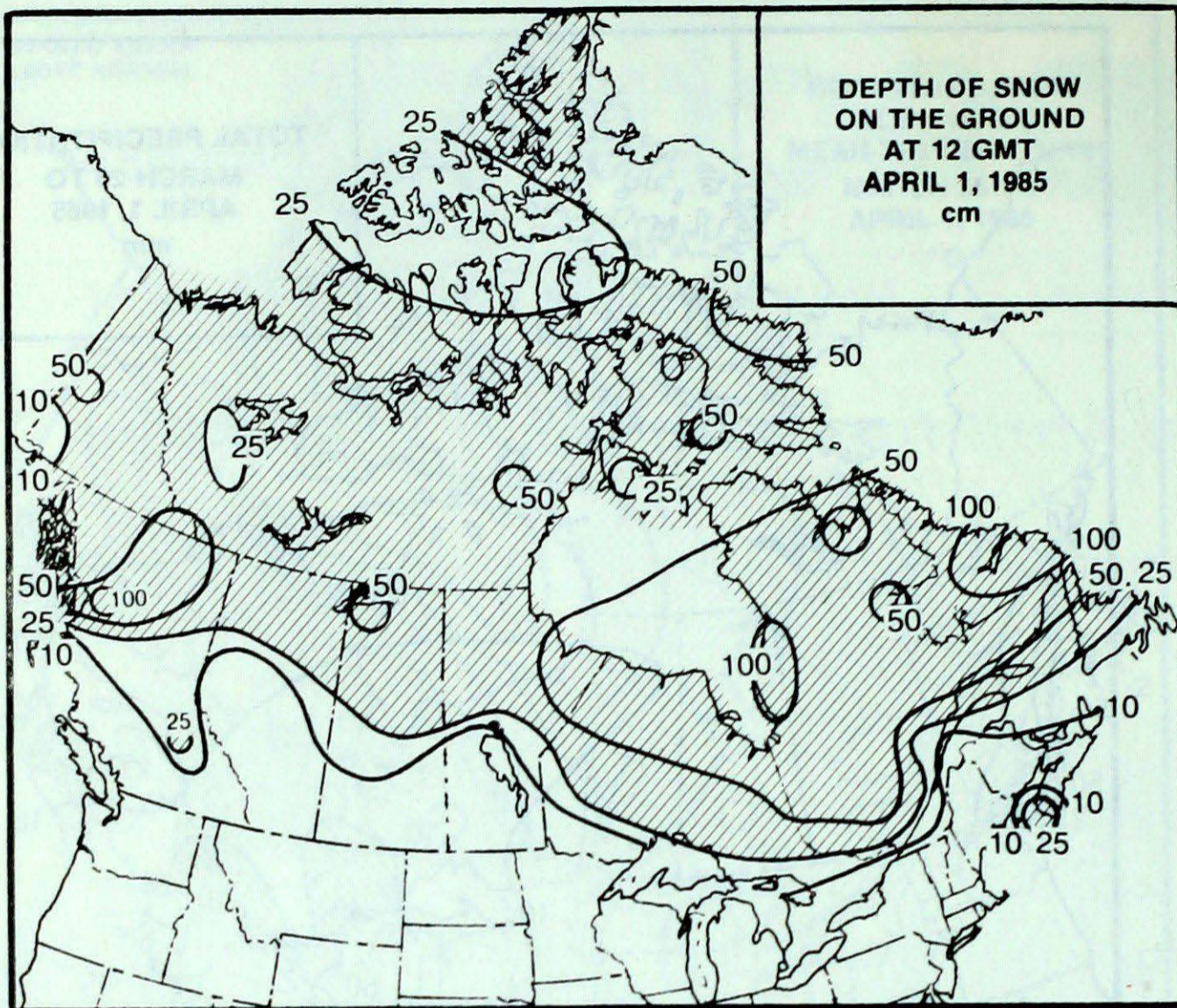


HEAVIEST WEEKLY PRECIPITATION (mm)

| | |
|-----------------------|----------------------|
| YUKON TERRITORY | 2.7 Shingle Point |
| NORTHWEST TERRITORIES | 11.4 Cape Dorset |
| BRITISH COLUMBIA | 91.2 McInnes Island |
| ALBERTA | 8.8 Whitecourt |
| SASKATCHEWAN | 9.1 North Battleford |
| MANITOBA | 10.2 Thompson |
| ONTARIO | 75.6 Windsor |
| QUEBEC | 52.0 Montreal/Dorval |
| NEW BRUNSWICK | 10.4 Saint John |
| NOVA SCOTIA | 18.7 Shelburne |
| PRINCE EDWARD ISLAND | 6.8 Charlottetown |
| NEWFOUNDLAND | 20.0 Cartwright |

The Front Cover

During the spring season there is normally an increase in the number of storms crossing the continent at more northerly latitudes. This is due to the annual northwards migration of warmth and moisture from the lower latitude regions of the oceans, and the retreat of the continental arctic airmass. The NOAA 9 satellite image of March 28, 1985 shows an example of this situation, and reveals four storms, each in a different stage of development, centred at A, B, C, and D. Temperatures south of the frontal system linking storms A and C were in the mid to high 20's while temperatures over Canada were near or below freezing.



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 7

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It began in 1978 and in 1983 was expanded to include a monthly supplement (formerly known as the *Canadian Weather Review*). 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 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.

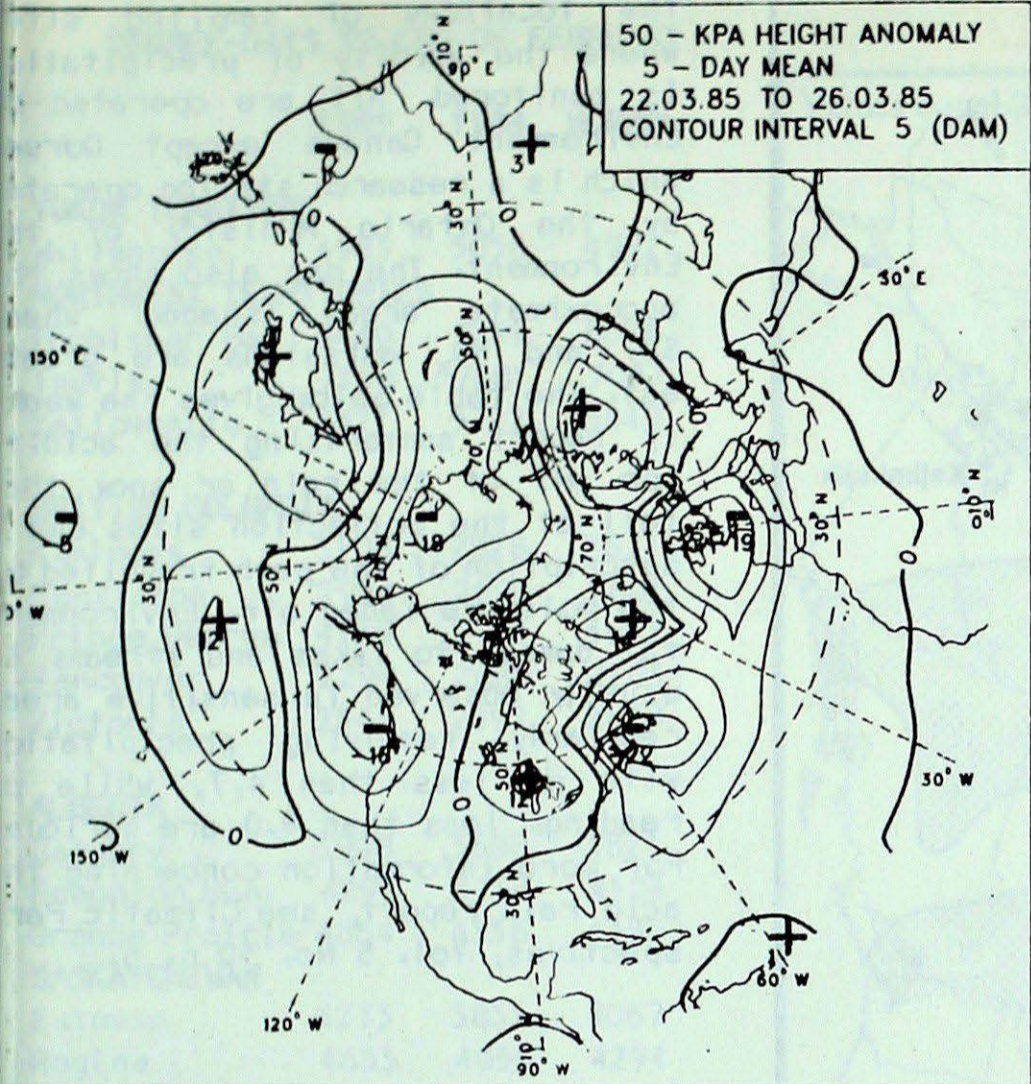
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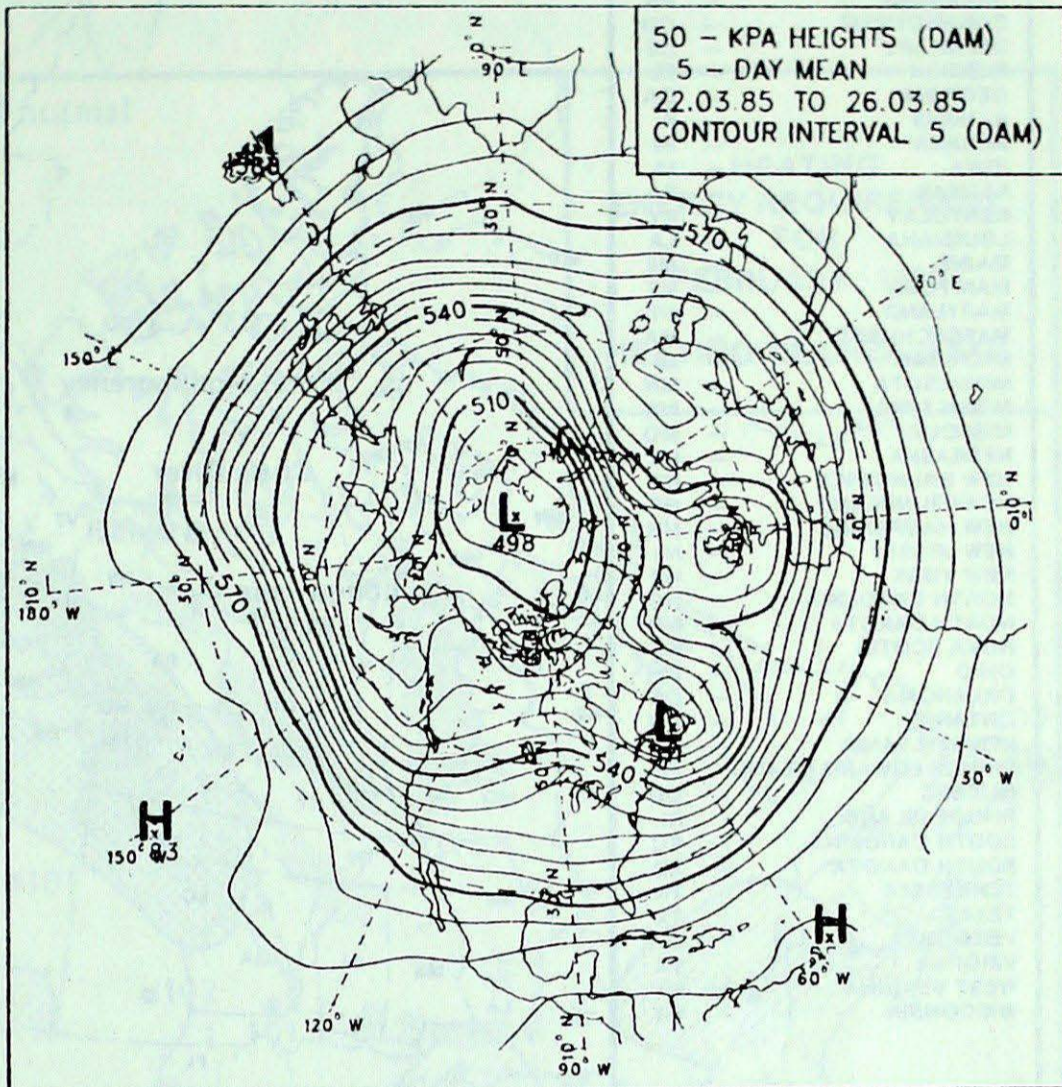
50 KPa ATMOSPHERIC CIRCULATION

50 - KPa HEIGHT ANOMALY
5 - DAY MEAN
22.03.85 TO 26.03.85
CONTOUR INTERVAL 5 (DAM)

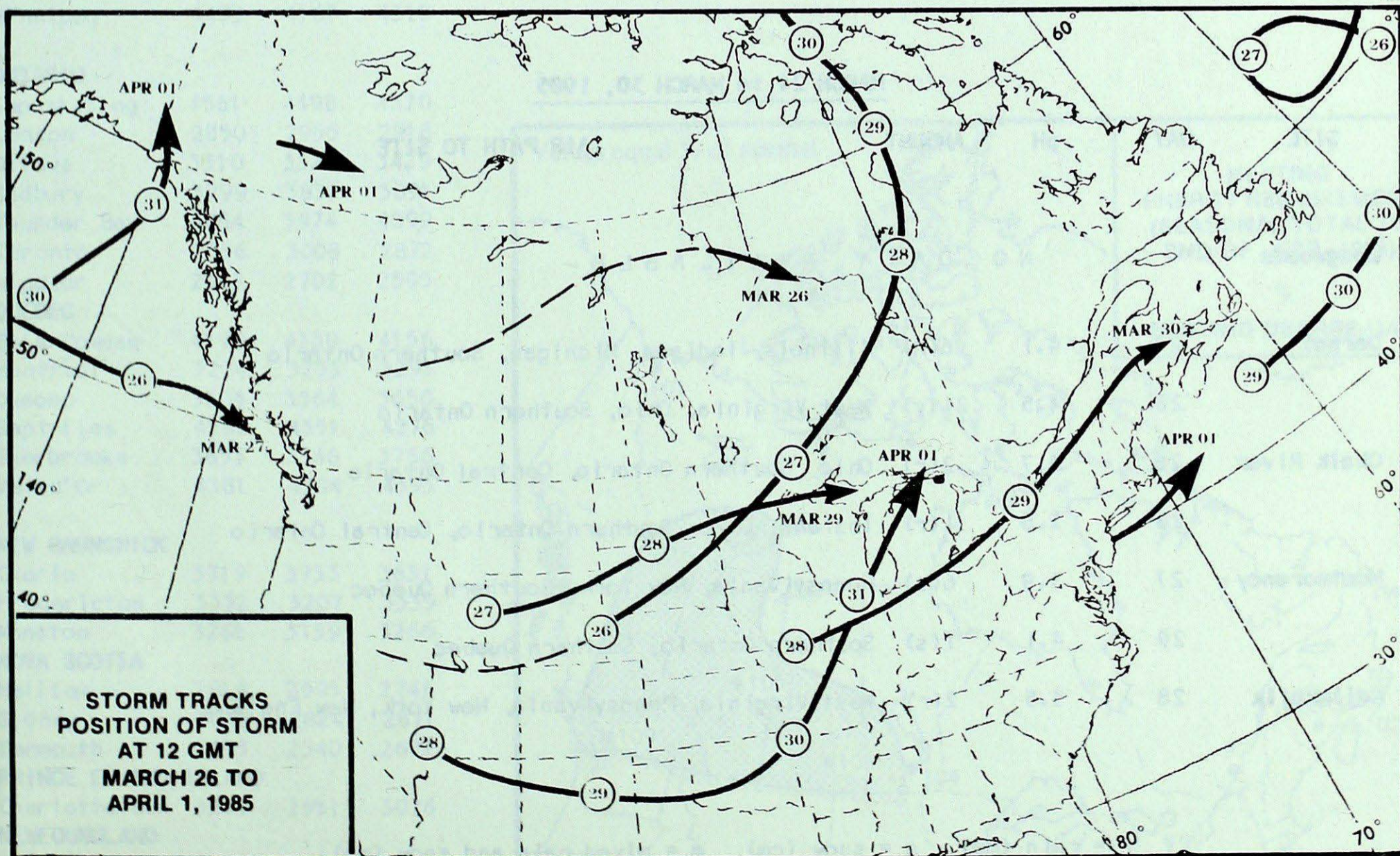


MEAN 50 KPa HEIGHT ANOMALY (dam)
March 22 to March 26, 1985

50 - KPa HEIGHTS (DAM)
5 - DAY MEAN
22.03.85 TO 26.03.85
CONTOUR INTERVAL 5 (DAM)

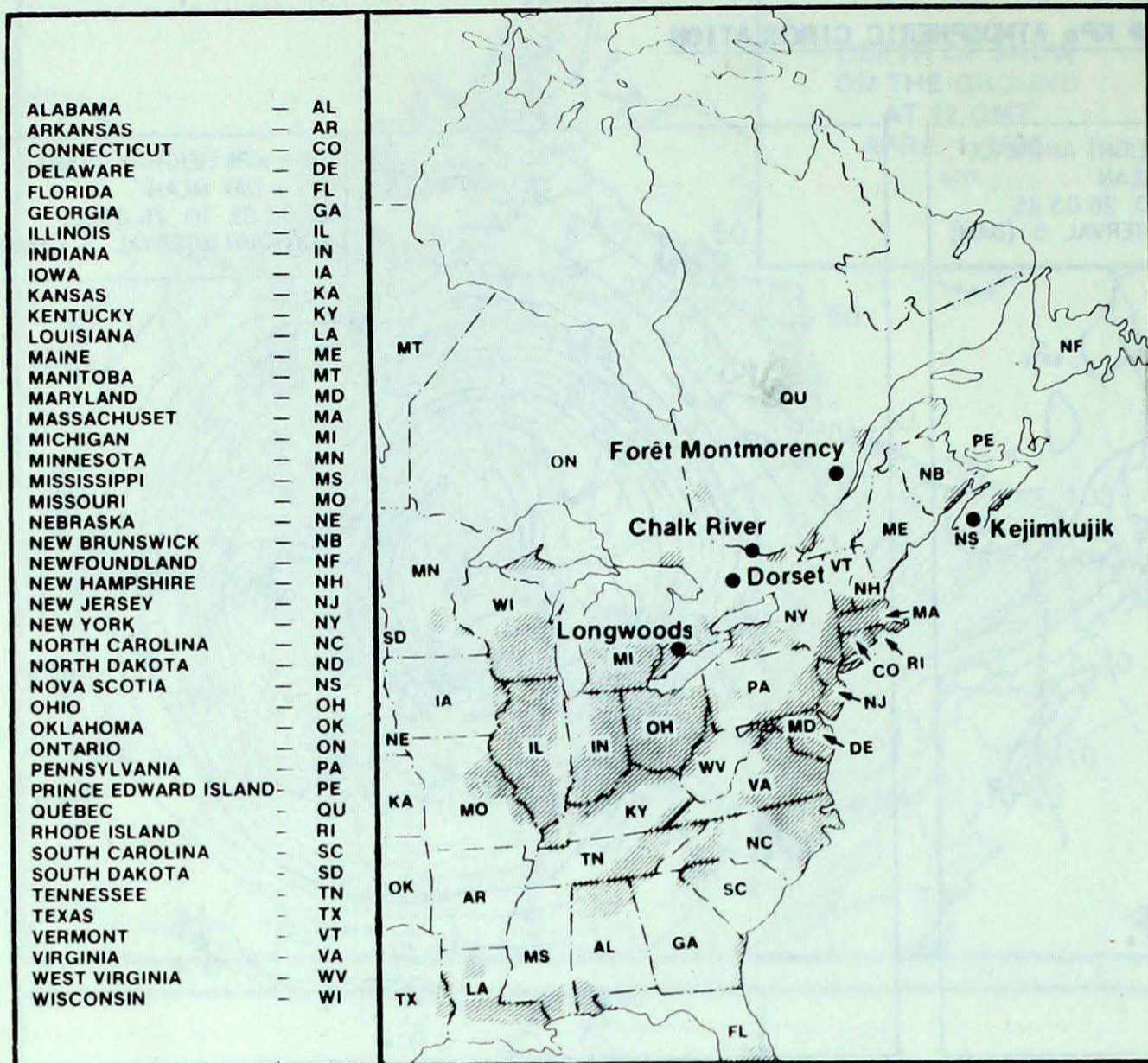


MEAN 50 KPa HEIGHTS (dam)
March 22 to March 26, 1985



STORM TRACKS
POSITION OF STORM
AT 12 GMT
MARCH 26 TO
APRIL 1, 1985

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 SO₂ and NO_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.

MARCH 24 to MARCH 30, 1985

| SITE | DAY | pH | AMOUNT | AIR PATH TO SITE |
|-------------|-----|-----|-------------------|--|
| Longwoods | | | NO DATA AVAILABLE | |
| Dorset | 27 | 4.1 | 6(r) | Illinois, Indiana, Michigan, Southern Ontario |
| | 28 | 4.5 | 21(r) | West Virginia, Ohio, Southern Ontario |
| Chalk River | 26 | 3.7 | 2(r) | Ohio, Southern Ontario, Central Ontario |
| | 28 | 3.8 | 1(r) | Indiana, Ohio, Southern Ontario, Central Ontario |
| Montmorency | 27 | 3.9 | 6(s) | Pennsylvania, New York, Southern Quebec |
| | 29 | 4.1 | 1(s) | Southern Ontario, Southern Quebec |
| Kejimikujik | 28 | 3.5 | 2(r) | West Virginia, Pennsylvania, New York, New England |

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

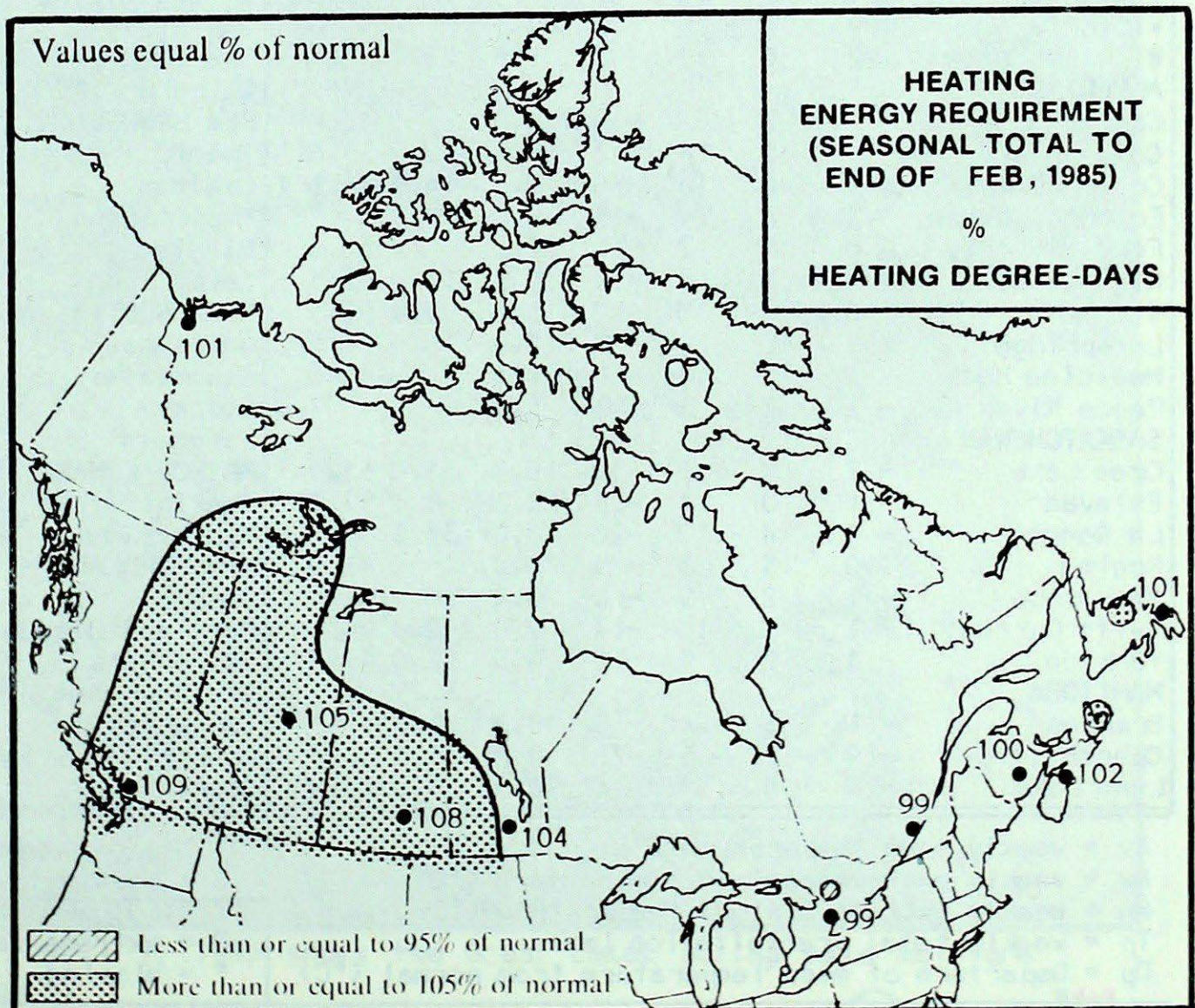
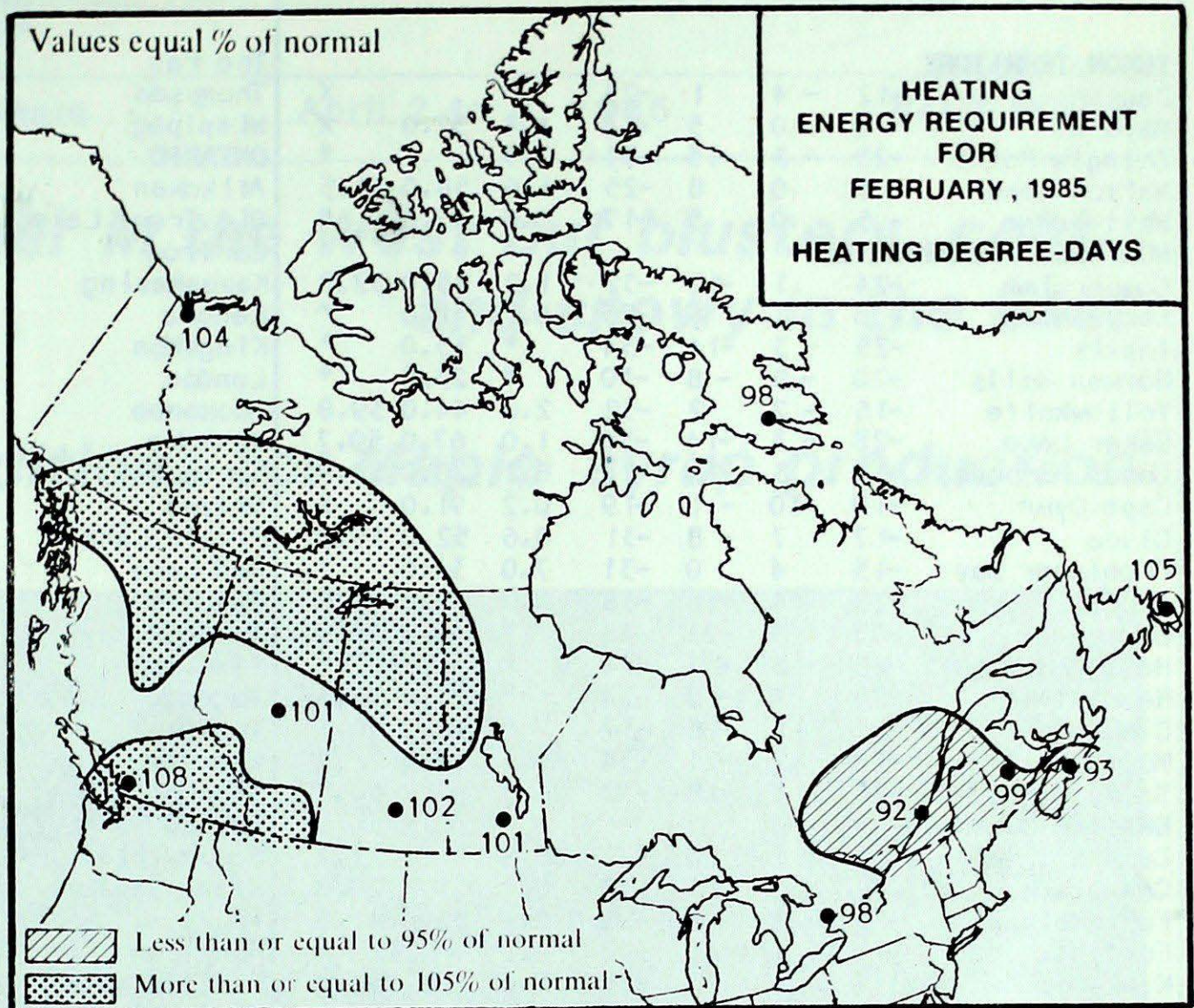
CORRECTED HEATING DEGREE-DAY DATA FOR FEBRUARY 1985

SEASONAL TOTAL OF HEATING

ENERGY REQUIREMENT

DEGREE-DAYS TO END OF FEBRUARY

| | 1985 | 1984 | NORMAL |
|------------------------------|------|------|--------|
| YUKON TERRITORY | | | |
| Whitehorse | 4983 | 5056 | 4992 |
| NORTHWEST TERRITORIES | | | |
| Frobisher Bay | 6440 | 7259 | 6676 |
| Inuvik | 7158 | 7081 | 7067 |
| Yellowknife | 6421 | 5722 | 6049 |
| BRITISH COLUMBIA | | | |
| Kamloops | 3108 | 2828 | 2871 |
| Pentlcton | 2924 | 2592 | 2601 |
| Prince George | 4129 | 3722 | 3933 |
| Vancouver | 2294 | 2080 | 2103 |
| Victoria | 2341 | 2097 | 2128 |
| ALBERTA | | | |
| Calgary | 3998 | 3608 | 3821 |
| Edmonton Mun. | 4293 | 3718 | 4104 |
| Grande Prairie | 4864 | 4136 | 4482 |
| SASKATCHEWAN | | | |
| Estevan | 4273 | 3831 | 4067 |
| Regina | 4653 | 4059 | 4294 |
| Saskatoon | 4776 | 4148 | 4480 |
| MANITOBA | | | |
| Brandon | 4744 | 4111 | 4427 |
| Churchill | 6200 | 5841 | 6191 |
| The Pas | 5158 | 4479 | 4922 |
| Winnipeg | 4495 | 4167 | 4318 |
| ONTARIO | | | |
| Kapuskasing | 4561 | 4498 | 4570 |
| London | 2850 | 2955 | 2918 |
| Ottawa | 3310 | 3327 | 3429 |
| Sudbury | 3799 | 3852 | 3891 |
| Thunder Bay | 4084 | 3974 | 4099 |
| Toronto | 2856 | 3008 | 2872 |
| Windsor | 2583 | 2702 | 2595 |
| QUEBEC | | | |
| Bale Comeau | 4178 | 4130 | 4156 |
| Montréal | 3274 | 3253 | 3293 |
| Quebec | 3604 | 3564 | 3650 |
| Sept-Îles | 4286 | 4351 | 4276 |
| Sherbrooke | 3653 | 3546 | 3766 |
| Val-d'Or | 4381 | 4304 | 4393 |
| NEW BRUNSWICK | | | |
| Charlo | 3719 | 3733 | 3631 |
| Fredericton | 3332 | 3207 | 3335 |
| Moncton | 3261 | 3139 | 3266 |
| NOVA SCOTIA | | | |
| Halifax | 2814 | 2595 | 2746 |
| Sydney | 3033 | 2824 | 2871 |
| Yarmouth | 2635 | 2540 | 2672 |
| PRINCE EDWARD ISLAND | | | |
| Charlottetown | 3205 | 2951 | 3076 |
| NEWFOUNDLAND | | | |
| Gander | 3502 | 3380 | 3332 |
| St. John's | 3119 | 3034 | 3082 |



TEMPERATURE, PRECIPITATION AND BRIGHT SUNSHINE DATA FOR THE WEEK ENDING 0600 GMT APRIL 2, 1985

| STATION | TEMP | | | | PRECIP | | SUN | STATION | TEMP | | | | PRECIP | | SUN |
|------------------------------|------|----|-----|-----|--------|------|------|-----------------------------|------|----|----|-----|--------|-------|------|
| | Av | Dp | Mx | Mn | Tp | SOG | H | | Av | Dp | Mx | Mn | Tp | SOG | H |
| YUKON TERRITORY | | | | | | | | The Pas | -3 | 4 | 5 | -13 | 0.8 | 9.0 | 62.6 |
| Dawson | -12 | -4 | 1 | -25 | * | | X | Thompson | -8 | 3 | 5 | -21 | 10.2 | 23.0 | 52.8 |
| Mayo A | -6 | 0 | 5 | -18 | 1.4 | 32.0 | X | Winnipeg | 0 | 3 | 8 | -6 | * | | * |
| Shingle Point | -25 | -3 | -15 | -31 | 2.7 | | * | ONTARIO | | | | | | | |
| Watson Lake | -5 | 0 | 8 | -25 | 1.6 | 58.0 | 31.5 | Atikokan | -2 | 2 | 7 | -16 | 7.0 | 3.0 | * |
| Whitehorse | -5 | 0 | 5 | -17 | 0.6 | 32.0 | * | Big Trout Lake | -8 | 3 | 7 | -24 | 10.0 | 80.0 | 44.6 |
| NORTHWEST TERRITORIES | | | | | | | | Earlton | -2 | 1 | 7 | -15 | * | 42.0 | X |
| Coppermine | -24 | 1 | -12 | -32 | 1.2 | 25.0 | 32.8 | Kapuskasing | -4 | 1 | 7 | -17 | 25.4 | 31.0 | * |
| Fort Smith | -8 | 1 | 7 | -25 | 0.7 | 40.0 | * | Kenora | -1 | 2 | 7 | -7 | 0.4 | 3.0 | X |
| Inuvik | -25 | -3 | -14 | -34 | * | 35.0 | * | Kingston | 2 | 1 | 12 | -7 | * | 2.0 | * |
| Norman Wells | -20 | -5 | -8 | -30 | * | 23.0 | * | London | 5 | 2 | 16 | -6 | 57.4 | 0.0 | * |
| Yellowknife | -16 | -2 | 2 | -32 | 2.0 | 44.0 | 39.8 | Mosoness | -6 | 2 | 6 | -20 | 9.4 | 63.0 | * |
| Baker Lake | -28 | -3 | -14 | -36 | 1.0 | 67.0 | 59.7 | Muskoka | 1 | 2 | 13 | -11 | * | 7.0 | X |
| Coral Harbour | -18 | 3 | -11 | -27 | 8.2 | 20.0 | 14.9 | North Bay | -1 | 1 | 10 | -9 | 26.4 | 46.0 | 16.0 |
| Cape Dyer | -10 | 10 | -1 | -19 | 0.2 | 91.0 | X | Ottawa | 2 | 2 | 15 | -7 | 32.8 | 10.0 | 26.3 |
| Clyde | -17 | 7 | -8 | -31 | 0.6 | 52.0 | 39.0 | Pickle Lake | -5 | 1 | 5 | -19 | 12.4 | 54.0 | X |
| Frobisher Bay | -15 | 4 | 0 | -31 | 7.0 | 34.0 | * | Red Lake | -4 | 0 | 6 | -14 | 8.6 | 15.0 | 42.6 |
| Alert | -27 | 4 | -10 | -38 | 0.0 | 45.0 | 41.6 | Sudbury | -2 | 2 | 6 | -10 | 31.2 | 29.0 | 17.1 |
| Eureka | -33 | 3 | -21 | -46 | * | 35.0 | 46.9 | Thunder Bay | 0 | 2 | 8 | -10 | 11.1 | 2.0 | * |
| Hall Beach | -20 | 6 | -7 | -34 | * | | X | Timmins | -3 | 2 | 8 | -19 | 34.0 | 63.0 | X |
| Resolute | -25 | 4 | -15 | -34 | * | 17.0 | 42.3 | Toronto | 4 | 2 | 18 | -6 | 23.3 | 0.0 | X |
| Cambridge Bay | -27 | 1 | -16 | -37 | * | 40.0 | 50.2 | Trenton | 3 | 1 | 15 | -4 | 42.6 | | X |
| Mould Bay | -28 | 2 | -21 | -34 | 0.4 | 17.0 | * | Warton | 2 | 1 | 12 | -8 | 38.6 | 1.0 | 20.7 |
| Sachs Harbour | -26 | 1 | -18 | -32 | * | | 50.1 | Windsor | 6 | 2 | 17 | -3 | 75.6 | | X |
| BRITISH COLUMBIA | | | | | | | | QUEBEC | | | | | | | |
| Cape St. James | 6 | 1 | 10 | 2 | 26.8 | | 27.7 | Bagotville | -3 | 0 | 6 | -14 | 8.6 | 21.0 | X |
| Cranbrook | 2 | 0 | 13 | -7 | 0.4 | | 29.8 | Blanc-Sablon | -2 | 2 | 4 | -13 | 5.9 | 59.0 | * |
| Fort Nelson | -3 | 1 | 12 | -14 | 0.4 | 53.0 | 44.6 | Inukjuak | -14 | 3 | -4 | -24 | 4.6 | 66.0 | 28.8 |
| Fort St. John | -1 | 1 | 10 | -10 | 2.1 | | X | Kuujuuaq | -13 | 1 | 3 | -24 | 4.8 | 121.0 | 24.3 |
| Kamloops | 7 | 1 | 22 | -3 | 2.0 | | 34.0 | Kuujuarapik | -10 | 2 | 2 | -23 | 11.7 | 32.0 | 30.6 |
| Penticton | 6 | -1 | 18 | -6 | 6.8 | | 25.7 | Maniwaki | 0 | 2 | 10 | -15 | 22.8 | 38.0 | 23.0 |
| Port Hardy | 5 | 0 | 10 | -1 | 82.0 | | 19.2 | Mont-Joli | -2 | 0 | 6 | -11 | 1.2 | 1.0 | 36.6 |
| Prince George | 2 | 0 | 9 | -8 | 3.6 | | 28.3 | Montreal | 2 | 1 | 13 | -10 | 52.0 | 8.0 | 28.8 |
| Prince Rupert | 4 | 0 | 10 | -4 | 56.4 | | 27.8 | Natashquan | -2 | 2 | 5 | -14 | * | 11.0 | * |
| Revelstoke | 3 | 0 | 8 | -5 | 20.2 | | 23.6 | Nitchequon | -13 | -2 | 1 | -28 | 1.0 | 93.0 | 40.0 |
| Smithers | 1 | 0 | 7 | -8 | 13.7 | | 17.7 | Québec | -1 | 0 | 7 | -12 | 14.4 | 46.0 | 33.0 |
| Vancouver | 7 | -1 | 14 | 1 | 35.6 | | 10.6 | Schefferville | -11 | 0 | 1 | -28 | 3.8 | 43.0 | 28.0 |
| Victoria | 7 | 0 | 16 | 0 | 19.7 | | 17.0 | Sept-Îles | -3 | 2 | 8 | -14 | 4.0 | 79.0 | 48.4 |
| Williams Lake | 2 | 0 | 13 | -8 | 1.8 | 22.0 | * | Sherbrooke | 0 | 3 | 11 | -12 | 35.4 | 16.0 | 50.8 |
| ALBERTA | | | | | | | | Val-d'Or | -5 | 0 | 6 | -17 | 32.6 | 62.0 | 17.4 |
| Calgary | 3 | 2 | 19 | -7 | 0.0 | | 43.9 | NEW BRUNSWICK | | | | | | | |
| Cold Lake | 1 | 5 | 14 | -7 | 0.4 | | 33.6 | Charlo | -2 | 1 | 13 | -10 | 2.2 | 16.0 | 36.5 |
| Coronation | -2 | 0 | 13 | -10 | 0.7 | 14.0 | 46.1 | Chatham | 0 | 1 | 11 | -9 | 2.4 | 0.0 | 35.2 |
| Edmonton Namao | 2 | 4 | 14 | -6 | 0.0 | | * | Fredericton | 1 | 1 | 15 | -8 | 6.4 | | * |
| Fort McMurray | 0 | 5 | 12 | -11 | 2.1 | | 40.6 | Moncton | 0 | 0 | 9 | -9 | 4.2 | 1.0 | 31.9 |
| High Level | -7 | 1 | 10 | -24 | 0.2 | 30.0 | 37.5 | Saint John | 1 | 1 | 13 | -7 | 10.4 | | * |
| Jasper | 0 | 0 | 10 | -10 | 5.6 | 0.0 | 32.3 | NOVA SCOTIA | | | | | | | |
| Lethbridge | 3 | 1 | 19 | -7 | 2.0 | | * | Greenwood | 2 | 0 | 13 | -6 | 13.1 | 0.0 | X |
| Medicine Hat | 3 | 0 | 18 | -6 | 1.3 | | 46.6 | Shearwater | 1 | -1 | 12 | -8 | 13.7 | | 33.2 |
| Peace River | -1 | 2 | 8 | -12 | 1.3 | | X | Sydney | * | * | * | -9 | 11.6 | 0.0 | 23.0 |
| SASKATCHEWAN | | | | | | | | Yarmouth | 3 | 0 | 14 | -4 | 16.2 | 28.0 | 48.9 |
| Cree Lake | -7 | X | 8 | -30 | 6.0 | 31.0 | 31.5 | PRINCE EDWARD ISLAND | | | | | | | |
| Estevan | -1 | 0 | 14 | -13 | 8.2 | 0.0 | 52.7 | Charlottetown | -2 | -1 | 5 | -11 | 6.8 | 6.0 | * |
| La Ronge | -4 | 4 | 12 | -20 | 0.0 | 34.0 | * | Summerside | -1 | -1 | 7 | -9 | 5.1 | 4.0 | 26.7 |
| Regina | 0 | 3 | 15 | -9 | 0.0 | | 48.9 | NEWFOUNDLAND | | | | | | | |
| Saskatoon | -1 | 2 | 9 | -10 | 0.4 | | * | Gander | -3 | -1 | 4 | -11 | 3.4 | 21.0 | 31.7 |
| Swift Current | -1 | 0 | 15 | -14 | 2.0 | 2.0 | * | Port aux Basques | -2 | -1 | 5 | -9 | 11.1 | 12.0 | * |
| Yorkton | -3 | 2 | 9 | -14 | 0.0 | 7.0 | 47.8 | St. John's | -3 | -2 | 3 | -12 | * | 16.0 | 42.2 |
| MANITOBA | | | | | | | | St. Lawrence | -3 | -3 | 3 | -10 | 2.4 | 21.0 | X |
| Brandon | -1 | 3 | 11 | -8 | 0.0 | 1.0 | * | Cartwright | -3 | 3 | 1 | -11 | 20.0 | 134.0 | 1.0 |
| Churchill | -19 | -2 | -5 | -28 | * | 31.0 | * | Churchill Falls | -8 | 2 | 3 | -24 | 4.8 | 93.0 | 27.3 |
| Lynn Lake | -8 | 4 | 4 | -24 | 10.0 | 36.0 | 35.9 | Goose | -3 | 3 | 5 | -14 | 14.7 | 102.0 | 12.9 |

Av = weekly mean temperature (°C)
Mx = weekly extreme maximum temperature (°C)
Mn = weekly extreme minimum temperature (°C)
Tp = weekly total precipitation (mm)
Dp = Departure of mean temperature from normal (°C)

SOG = snow depth on ground (cm), last day of the period
H = weekly total bright sunshine (hrs)
X = not observed
P = extreme value based on less than 7 days
* = missing