

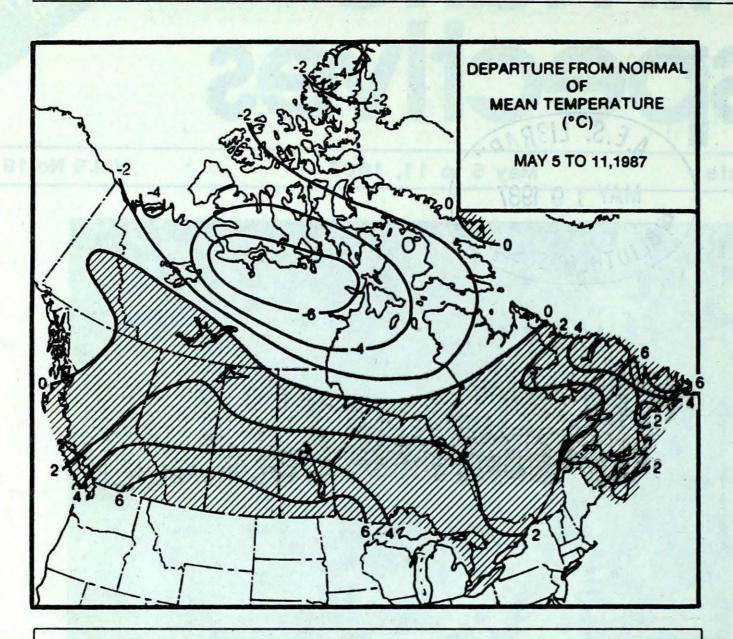
This NOAA 9 photograph of May 7, 1987, shows the snow pack covering the Coastal and Rocky mountain ranges. In general, amounts as of May 1, were 10 to 25 percent above normal in northern B.C., while the vast majority of areas in the southern half of the province had a snow pack water equivalent that was below normal. In the Kootenays and the Okanagan, the pack is only 60% of normal. This diminishes the chance of flooding in the lower valleys, when the mountain snowmelt begins later this month.

Warm, dry weather worsens forest fire hazard across the country High temperature records set in most provinces



TEMPERATURE

a lande main a chartering and a fami



WEEKLY TEMPERATURE EXTREME (C)

MAXIMUM

MINIMUM

| BRITISH COLUMBIA YUKON TERRITORY NORTHWEST TERRITORIES | LYTTON DAWSON FORT SMITH FORT MCMURRAY | 34 15 23 31 | DEASE LAKE KOMAKUK BEACH A GLADMAN POINT A EDSON | -4 -19 -28 -2 |
|----------------------------------------------------------------------|-------------------------------------------------|----------------------|-----------------------------------------------------------|------------------------------|
| ALBERTA SASKATCHEWAN MANITOBA ONTARIO QUEBEC | BROADVIEW DAUPHIN KENORA MANIWAKI | 32 34 31 25 | COLLINS BAY CHURCHILL NAGAGAMI I NUKJUAK | -2 -5 -12 -6 -11 |
| NEW BRUNSWICK NOVA SCOTIA PRINCE EDWARD ISLAND NEWFOUNDLAND | FREDERICTON GREENWOOD SUMMERSIDE GOOSE | 26 26 23 25 | ST STEPHEN SYDNEY CHARLOTTETOWN WABUSH LAKE | -2 -1 -1 -9 |
| ACR | OSS THE NATIO | DN | | 26 85 61 849 10 61 |
| WARMEST MEAN TEMPERAT | | 19 18 | LYTTON ALERT | BC NWT |
| the country | 880108 | | | |

ACROSS THE COUNTRY ...

Yukon and Northwest Territories

In sharp contrast to the warmer than usual weather all across southern Canada, the temperatures in the Territories were generally colder than normal, particularly in the central Keewatin. However, a continuation of the mild weather in the Yukon resulted in the river ice breaking up on the 9th of May at Dawson which was close to the normal break-up date. A low pressure system moved north from Quebec over Baffin Island on the 8th, producing significant snowfalls and blizzard conditions. Some communities received up to 40 cm of snow.

British Columbia

A well-established upper ridge brought warm, dry conditions to most of the province except the north coast which took the brunt of Pacific weather systems being diverted northward. Temperatures and sunshine amounts were well above normal, particularly in the southern interior and on the south coast where several daily maximum temperature records were set. Despite the heavy rain of the previous week, the hot, dry weather created a forest fire hazard in the southern interior as well as in the northeastern parts of the province.

Prairies

It was sunny, warm and dry across all prairie provinces. Many daily maximum temperature records were set with the mercury climbing above 30°C in all three provinces.

These conditions have aggravated the forest fire situation. A forest fire at Wallace Lake in eastern Manitoba was fanned by strong winds and high temperatures on the 8th, causing the destruction of approximately 70 cottages. One of the worst forest fires in Saskatchewan in 30 years is burning north of Prince Albert. The fine weather has benefited seeding operations in the agricultural sector.

PRECIPITATION

Ontario

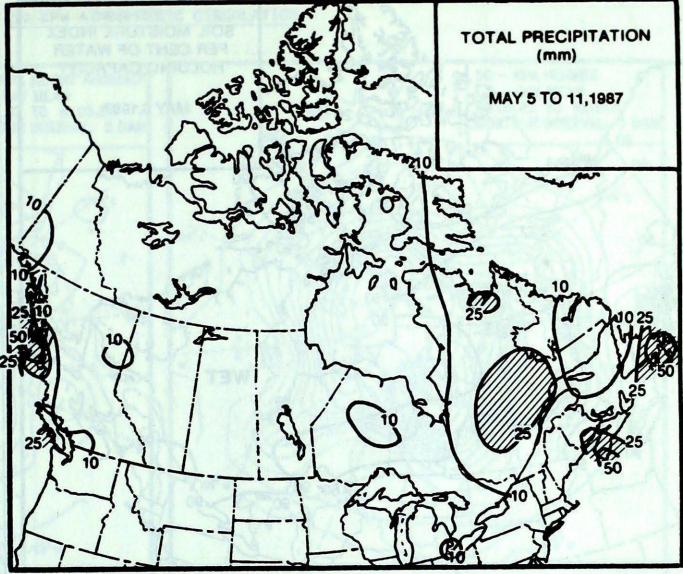
Very dry weather with above normal temperatures has worsened the forest fire situation in the province, particularly in the central and western regions. Lightning strikes and sparks from heavy machinery are a big concern. More than one thousand forestry workers have been laid off due to ministry orders restricting work only during the cooler morning hours. Agricultural regions in the south are badly in need of rain. Sarnia, for example, has only received 0.2 mm of rain so far this month. Great Lakes water levels have dropped 25 significantly from the record levels of last October.

Quebec

A typical mixture of spring weather occurred across the province. Daily high temperature records were set in the north early in the week which was followed by a cold outbreak resulting in some low temperatures records in the Saguenay-Lake St. John region. The generally warm, dry conditions increased the forest fire hazard in southern and central regions. The number of fires and area burned so far this year has been double the average over the past five years. Pea-sized hail, fell at both Mirabel and Ottawa airports during the morning of the 11th, but no major damage was reported.

Atlantic

In the Maritimes, the week started out with rain, however a significant amount of sunshine and warm temperatures were recorded during the second half of the period.



HEAVIEST WEEKLY PRECIPITATION (mm)

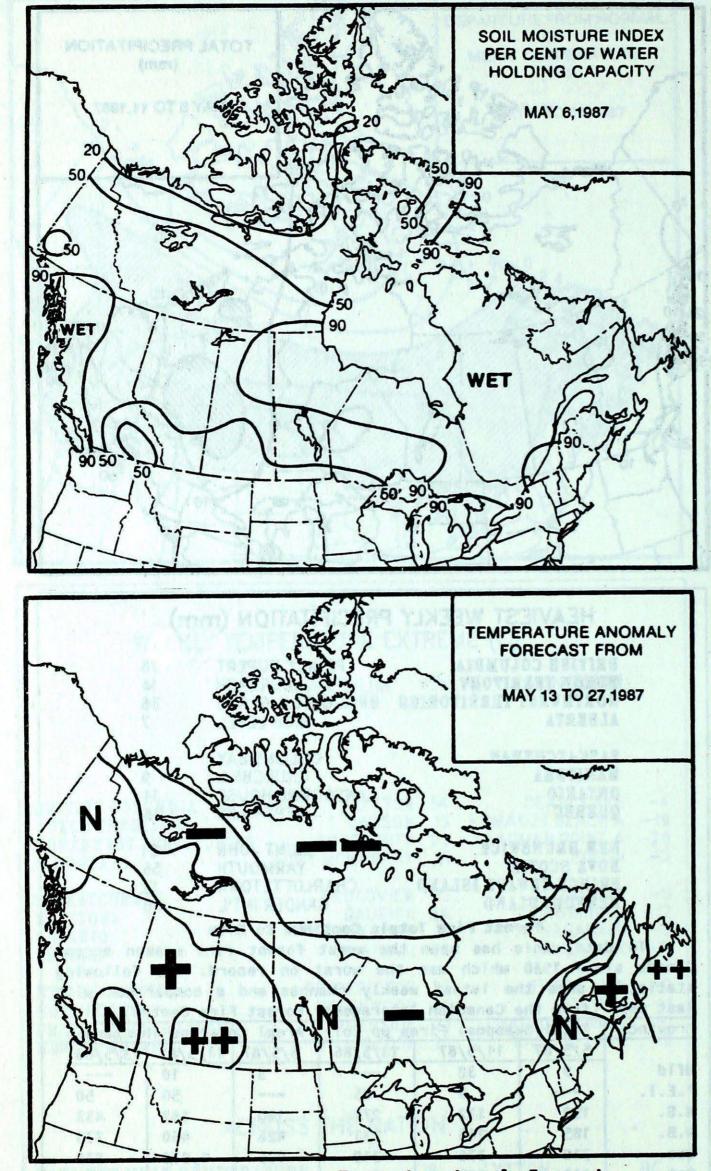
| BRITISH COLUMBIA | PRINCE RUPERT | 76 | |
|-----------------------|----------------------|-----|----|
| YUKON TERRITORY | BURWASH | 14 | |
| NORTHWEST TERRITORIES | BROUGHTON ISLAND | 36 | |
| ALBERTA | HIGH LEVEL | 7 | |
| SASKATCHEWAN | COLLINS BAY | 9 9 | |
| MANITOBA | CHURCHILL | 9 | |
| ONTARIO | LANSDOWNE HOUSE | 14 | |
| QUEBEC | SEPT-ILES | 34 | |
| NEW BRUNSWICK | SAINT JOHN | 31 | |
| NOVA SCOTIA | YARMOUTH | 55 | |
| PRINCE EDWARD ISLAND | CHARLOTTETOWN | 12 | |
| NEWFOUNDLAND | GANDER INT'L | 50 | |
| Forest Fire Tota | als Continue to Rise | | |
| | to would found find | | 00 |

To date, this has been the worst forest fire season across Canada since 1980 which was the worst on record. The following statistics show the latest weekly changes and a comparison with last year (from the Canadian Interagency Forest Fire Centre).

The ice conditions in the Northumberland Strait have improved and the seasonal ferry service between Caribou, N.S. and Wood Island, P.E.I. began on the 7th. There has been a delay in the commencement of lobster fishing along the north shore of P.E.I. because of ice conditions. In Newfoundland and Labrador, the week's weather was variable but warm, with many daily temperature records being set throughout the week.

| Province | Total Se | easonal Fir | es up to: | Areal Coverage (hectares) | | | | | | |
|-------------------|-----------|-------------|------------|---------------------------|---------|---------|--|--|--|--|
| The second second | 5/5/87 | 11/5/87 | 13/5/86 | 5/5/87 | 11/5/87 | 13/5/86 | | | | |
| Nfld | 9 | 32 | | 3 | 10 | | | | | |
| P.E.I. | | 9 | 25 | | 50 | 50 | | | | |
| N.S. | 159 | 172 | 272 | 180 | 183 | 433 | | | | |
| N.B. | 185 | 215 | 231 | 426 | 460 | 776 | | | | |
| Que. | 310 | 378 | 319 | 905 | 1,070 | 876 | | | | |
| Ont. | 430 | 615 | 314 | 3,710 | 12,013 | 722 | | | | |
| Man. | 88 | 161 | 3 | 3,487 | 34,475 | 25 | | | | |
| Sask. | 74 | 132 | 37 | 1,190 | 70,171 | 3,001 | | | | |
| Alta. | 178 | 256 | 61 | 4,920 | 23,798 | 204 | | | | |
| B.C. | 238 | 262 | 122 | 3,180 | 3,192 | 757 | | | | |
| N.W.T. | 3 | 8 | the second | 1 | 12 | n and | | | | |
| Y.T. | ant 42.50 | 5 | 0.000 | 3 | 4 | 0 | | | | |

FORECAST



CLIMATIC PERSPECTIVES VOLUME 9

Managing Editor P.R. Scholefield Editors-in-charge

weekly A.K. Radomski monthly A. A. Caillet Data Manager M. Skarpathiotakis Art Layout M. Baptiste Word Processing D. Kilmury/P. Burke Translation D. Pokorn Cartography G. Young/T. Chivers C. Czaja

Regional Correspondents

Atlantic: F.Amirault; Que.: J.Miron Ont.:B.Smith; Central:B.Tortorelli; Western: W.Prusak; Pac.: E.Coatta; Yukon Weather Centre; Frobisher Bay & Yellowknife Weather Offices; Newfoundland Weather Centre: G.MacMillan; AES Satellite Data Lab; Ice Central Ottawa

ISSN 0225-5707 UDC 551.506.1(71)

Climatic Perspectives is a weekly bilingual publication of the Canadian Climate Centre, Atmospheric Environment Service, 4905 Dufferin St., Downsview, Ont. Canada M3H 5T4. Phone (416)667-4906/4711.

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 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.

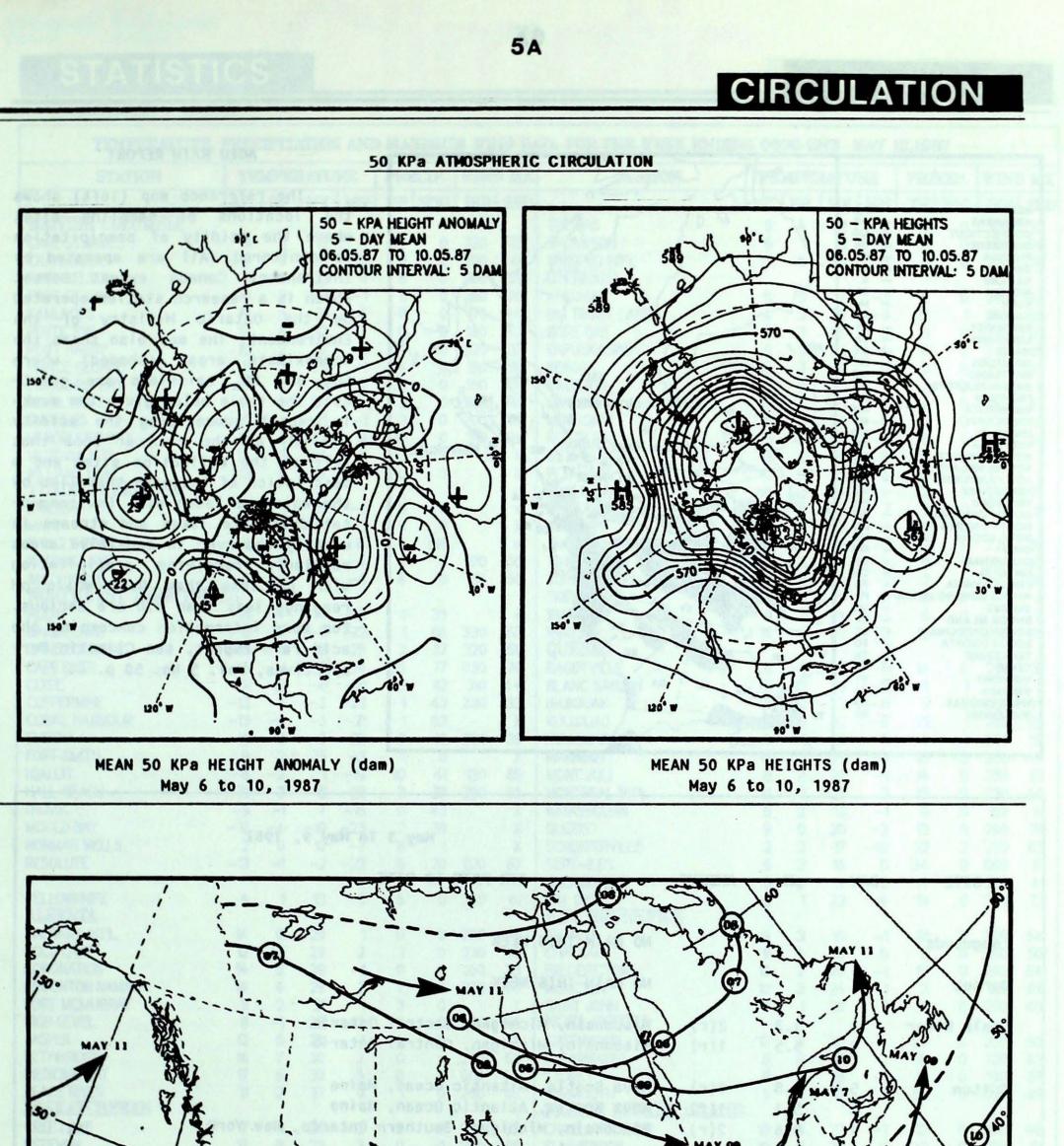
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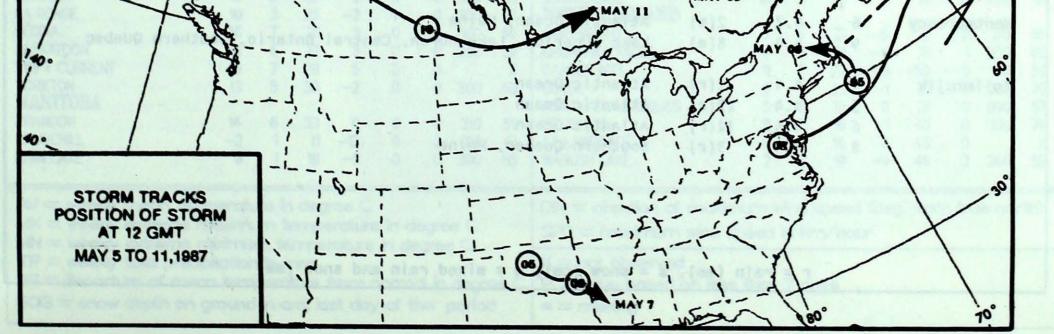
Temperature Anomaly Forecast This forecast is prepared by searching historical weather maps to find cases similar to the present. The historical outcome during the 15 days subsequent to the chosen analogues is assumed to be a forecast for the next 15 days from now.

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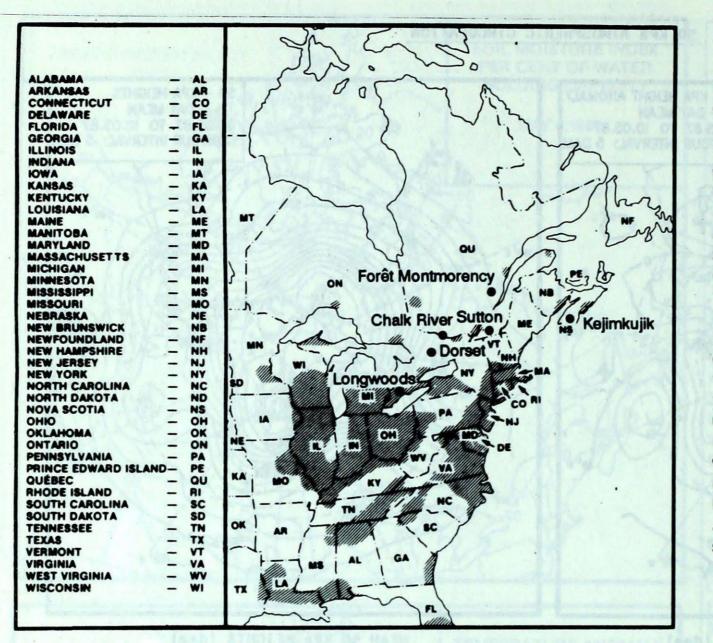
weekly & monthly supplement: \$35.00 foreign: \$42.00 Monthly issue: \$10.00 foreign: \$12.00 Orders must be prepaid by money order or cheque payable to Receiver General for Canada. Canadian Government Publishing Centre, Ottawa, Ontario K1A OS9 (613)994-1495



*** 調構



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 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.

| | | | | May 3 To May 9, 1987 |
|-------------|--------|------------|--------------|------------------------------------------------------------------------------|
| SITE | DAY | pH | AMOUNT | AIR PATH TO SITE |
| Longwoods | | | RSA | NO RAIN THIS WEEK |
| Dorset | | | | NO RAIN THIS WEEK |
| Chalk River | 8 9 | 5.3 5.5 | 2(r) 1(r) | Wisconsin, Michigan, Central Ontario Wisconsin, Michigan, Central Ontario |
| Sutton | 5 | 4.8 | 3(r) 1(r) | Nova Scotia, Altantic Ocean, Maine Nova Scotia, Atlantic Ocean, Maine |
| | 9 | 4.6 | 2(r) | Wisconsin, Michigan, Southern Ontario, New York |

1 15

Montmorency 6 4.7 2(m) Atlantic Ocean, Maine 9 4.4 8(m) Lake Superior, Lake Huron, Central Ontario, Southern Quebec

2(r) Kejimkujik 4.1 Atlantic Ocean 4 4.4 22(r) Atlantic Ocean 5 12(r) Atlantic Ocean 6 4.5 3(r) Southern Quebec, Maine 8 3.4

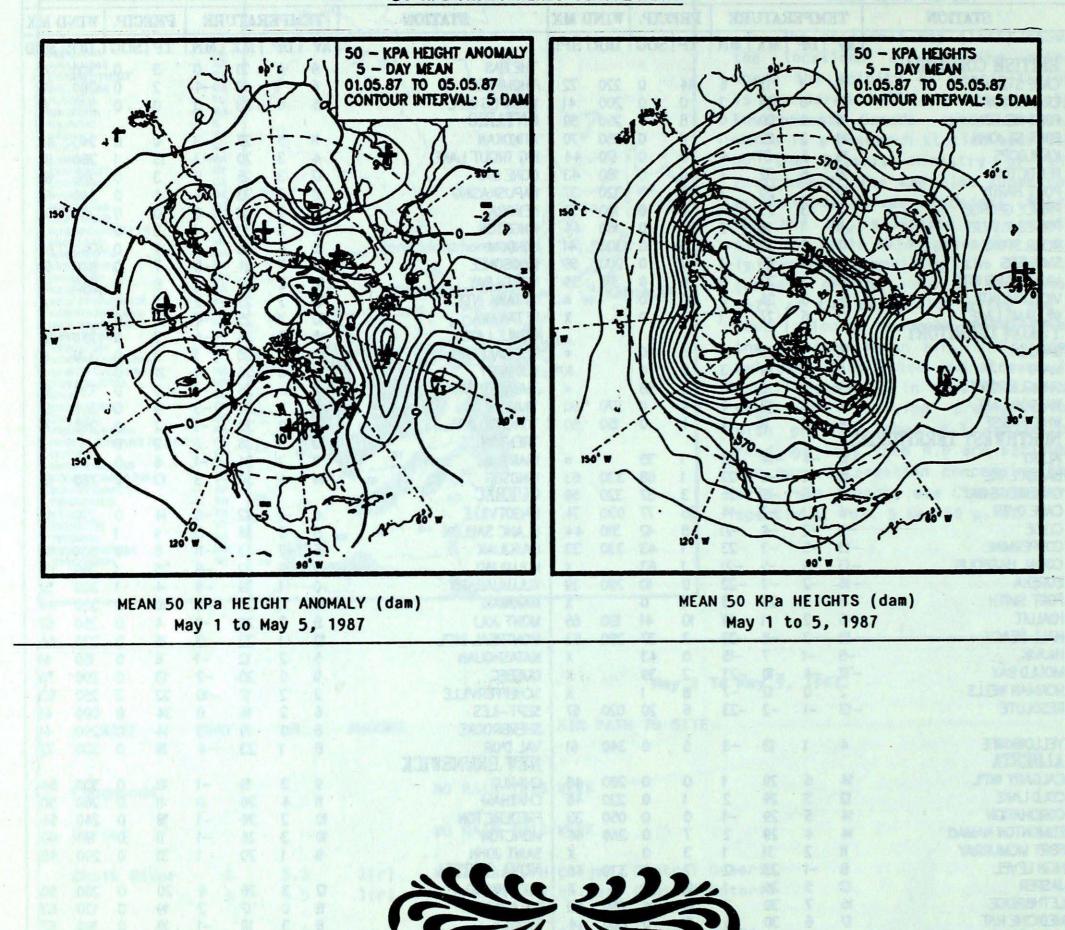
r = rain (mm), s = snow (cm), m = mixed rain and snow (mm)

STATISTICS

| STATION | TEMPERATURE | | | PRE | CIP. | WIN | DMX | STATION | | TEMPERATURE | | | | IP. | WIND MX | | |
|------------------------------------------------------------------------------------------------------------------|----------------------|--------|-----------|--------------|-------|------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------|----------------|--------------|----------------|----------|-------------|-------|------------|
| STATION | | | Sec. Sec. | | | | | - | | AV | DP | | MN | | | | |
| DEPENDENT COLUMNS | I AV I | DP | MX | MIN | TPI | SOG | DIR | SPD | | | UP | | | | | - | |
| BRITISH COLUMBIA | B 11 | Sec. 1 | | A. p | | | | - | THE PAS | 9 | 4 | 21 | 0 | 3 | 0 | 300 | 72 |
| CAPE STJAMES | 9 | 1 | 13 | 6 | 14 | 0 | 220 | 72 | THOMPSON | 6 | 1 | 18 | -4 | 2 | 0 | 280 | 74 |
| CRANBROOK | 17 | 6 | 29 | 3 | 0 | 0 | 200 | 41 | WINNIPEG INT'L | 15 | 6 | 33 | 3 | 0 | 0 | 320 | 61 |
| FORT NELSON | 9 | 0 | 20 | 0 | 8 | 0 | 250 | 59 | ONTARIO | | | | | | | | |
| FORT ST.JOHN | 10 | 2 | 22 | -1 | 11 | 0 | 260 | 70 | ATIKOKAN | 11 | 5 | 27 | -3 | 0 | 0 | 240 | 48 |
| KAMLDOPS | 19 | 5 | 31 | 4 | 0 | 0 | 170 | 44 | BIG TROUT LAKE | 4 | 3 | 20 | -3 | 13 | 1 | 280 | 80 |
| PENTICTON | 18 | 6 | 32 | ż | Ō | Ó | 180 | 43 | GORE BAY | 2 | 3 | 25 | 0 | 3 | 0 | 260 | 69 |
| PORT HARDY | 10 | 2 | 20 | 2 | 14 | ŏ | 320 | 37 | KAPUSKASING | 8 | 2 | 23 | -4 | 4 | 0 | 340 | 65 |
| | 11 | 3 | 25 | -1 | 4 | ŏ | 180 | 59 | KENORA | 15 | 7 | 31 | 6 | Ó | 0 | 250 | 56 |
| PRINCE GEORGE | | 3 | | I ALL S COMM | 76 | ŏ | 160 | 44 | KINGSTON | 13 | 3 | 21 | 1 | 2 | õ | 200 | X |
| PRINCE RUPERT | 9 | 1 | 16 | 2 | | | | (C) | LONDON | 15 | 4 | 28 | 1 | 4 | õ | 240 | 63 |
| REVELSTOKE | 17 | 5 | 30 | 4 | 3 | 0 | 300 | 41 | | 6 | - | 24 | -5 | i | õ | 300 | 59 |
| SMITHERS | 9 | 1 | 21 | -1 | 3 | 0 | 200 | 65 | MOOSONEE | | 2 | | | | | | |
| VANCOUVER INT'L | 15 | 3 | 23 | 8 | 16 | 0 | 310 | 39 | NORTH BAY | 10 | 2 | 22 | -1 | 8 | 0 | 240 | 59 |
| VICTORIA INT'L | 14 | 3 | 26 | 6 | 10 | 0 | | * | OTTAWA INT'L | 2 | 2 | 25 | 2 | 11 | 0 | | X |
| WILLIAMS LAKE | 13 | 6 | 27 | 1 | 0 | 0 | | X | PETAWAWA | 10 | 1 | 25 | -4 | 13 | 0 | | X |
| YUKON TERRITORY | | | | | | | | | PICKLE LAKE | 8 | 3 | 24 | -4 | 2 | 0 | 250 | 85 |
| DAWSON | 6 | 1 | 15 | -4 | 6 | 0 | | * | REDLAKE | 11 | 5 | 28 | 1 | 2 | 0 | 320 | 61 |
| MAYO | 6 | 0 | 14 | -3 | 5 | 0 | | X | SUDBURY | 11 | 3 | 26 | -1 | 3P | 0 | | X |
| SHINGLE POINT A | -9 | -2 | 0 | -16 | 0 | 58 | | * | THUNDER BAY | 11 | 4 | 25 | -1 | 2 | 0 | 330 | 59 |
| WATSON LAKE | Á | -1 | 13 | -4 | 4 | 0 | 270 | 50 | TIMMINS | 9 | 3 | 24 | -3 | 9 | 0 | 360 | 65 |
| WHITEHORSE | Ā | -1 | 11 | -4 | 4 | ŏ | 150 | 50 | TORONTO INT'L | 14 | 3 | 30 | -1 | 2 | Ó | 260 | 76 |
| NORTHWEST TERRITO | RIFC | | | 7 | | | 20 | | TRENTON | 13 | 3 | 26 | ż | 2 | Ō | See. | X |
| | | | -14 | - 77 | | 35 | | * | WIARTON | 11 | 2 | 24 | -1 | 6 | õ | | x |
| ALERT | -18 | -4 | | -23 | | | 220 | MI 110 105 1 | | 16 | 2 | 30 | 3 | 13 | Ö | 280 | 59 |
| BAKER LAKE | -15 | -6 | -8 | -22 | 1 | 68 | 330 | 63 | WINDSOR | N | 4 | 20 | 2 | IJ | U | 200 | J 3 |
| CAMBRIDGE BAY | -18 | -6 | -8 | -25 | 3 | 37 | 320 | 59 | QUEBEC | 1 | | ~ | | | 0 | 270 | 56 |
| CAPE DYER | -6 | 1 | -2 | -14 | 35 | Π | 030 | 74 | BAGOTVILLE | 6 | -1 | 22 | -6 | 14 | 0 | 270 | 56 |
| CLYDE | -11 | -2 | -4 | -21 | 8 | 42 | 310 | 44 | BLANC SABLON | 5 | 3 | 16 | -5 | 9 | 1 | | X |
| COPPERMINE | -13 | -5 | -3 | -23 | 1 | 43 | 330 | 33 | INUKJUAK | -6 | -2 | 3 | -11 | 8 | 49 | 030 | 46 |
| CORAL HARBOUR | -13 | -5 | -5 | -21 | 1 | 63 | | X | KUUUUAQ | -1 | 0 | 12 | -9 | 25 | 1 | 260 | 85 |
| EUREKA | -16 | -2 | -9 | -22 | 0 | 10 | 290 | 39 | KUUJUARAPIK | 0 | 1 | 19 | -9 | 4 | 1 | 300 | 52 |
| FORT SMITH | 8 | 2 | 23 | -3 | 16.14 | 0 | | X | MANIWAKI | 10 | 1 | 25 | -3 | 10 | 0 | 300 | 44 |
| IQALUIT | -6 | -2 | 1 | -19 | 10 | 41 | 130 | 65 | MONT JOLI | 8 | 2 | 20 | -1 | 14 | 0 | 250 | 67 |
| and the second | -13 | -3 | -8 | -22 | 3 | 37 | 290 | 63 | MONTREAL INT'L | 12 | 1 | 22 | 3 | 15 | Ó | 230 | 44 |
| HALL BEACH | | | -07 | -15 | ő | 43 | 230 | X | NATASHQUAN | 5 | 2 | 12 | -1 | 6 | 0 | 150 | 61 |
| INUVIK | -5 | -1 | | | ů, | | | | | 5 | ő | 20 | -2 | 13 | õ | 290 | 70 |
| MOULD BAY | -17 | -4 | -10 | -23 | 2 | 39 | | X | QUEBEC | 3 | | | | | 10000 | 250 | 63 |
| NORMAN WELLS | 2 | 0 | 12 | -7 | 8 | 1 | | X | SCHEFFERVILLE | 2 | 2 | 17 | -10 | 22 | 2 | | |
| RESOLUTE | -13 | -1 | -2 | -23 | 6 | 20 | 020 | 67 | SEPT-ILES | 6 | 2 | 16 | 0 | 34 | 0 | 090 | 61 |
| | | | | | | | | | SHERBROOKE | 8 | 0 | 19 | -3 | 14 | 0 | 290 | 41 |
| YELLOWKNIFE | 4 | 1 | 13 | -3 | 5 | 0 | 340 | 61 | VAL D'OR | 8 | 1 | 23 | -4 | 19 | 0 | 330 | 72 |
| ALBERTA | | | | | | | | | NEW BRUNSWICK | | | | | | | | |
| CALGARY INT'L | 14 | 6 | 29 | 1 | 0 | 0 | 280 | 48 | CHARLO | 9 | 3 | 19 | -1 | 18 | 0 | 300 | 54 |
| COLD LAKE | 12 | 3 | 29 | 2 | 1 | 0 | 220 | 46 | CHATHAM | 11 | 4 | 26 | 0 | 11 | 0 | 260 | 50 |
| CORONATION | 14 | 5 | 29 | -1 | Ó | Ó | 050 | 33 | FREDERICTON | 10 | 2 | 26 | -1 | 18 | 0 | 240 | 54 |
| EDMONTON NAMAO | 14 | A | 29 | 2 | 7 | õ | 360 | 46 | MONCTON | 10 | 3 | 26 | -1 | 11 | 0 | 180 | 63 |
| FORT MCMURRAY | | 5 | 31 | 1 | 3 | õ | 500 | TV V | SAINT JOHN | 9 | 1 | 20 | 1 | 31 | 0 | 200 | 48 |
| | | 4 | | - | 7 | ő | 220 | 46 | NOVA SCOTIA | , | | 20 | | 51 | • | 200 | 10 |
| HIGH LEVEL | 0 | -1 | 23 | -2 | | | 330 | | | 12 | 3 | 26 | 4 | 20 | 0 | 260 | 50 |
| JASPER | L L | 2 | 26 | -1 | 0 | 0 | | X | GREENWOOD | the second s | | | | | 1 2 2 1 2 1 | 130 | 63 |
| LETHBRIDGE | 16 | 1 | 30 | 2 | 0 | * | 280 | 63 | SHEARWATER | 8 | 0 | 17 | 2 | 19 | 0 | | 67 |
| MEDICINE HAT | 17 | 6 | 30 | 5 | 0 | 0 | 060 | 44 | SYDNEY | 8 | 3 | 18 | -1 | 19 | 0 | 190 | |
| PEACE RIVER | 11 | 2 | 27 | 0 | 1 | 0 | 260 | 65 | YARMOUTH | 9 | 1 | 17 | 3 | 55 | 0 | 090 | 48 |
| SASKATCHEWAN | | | | | | | | | PRINCE EDWARD ISLAND | | | | | | | | |
| CREE LAKE | 7 | 1 | 26 | -3 | 3 | 0 | 330 | 63 | CHARLOTTETOWN | 10 | 3 | 22 | -1 | 12 | 0 | 190 | 46 |
| ESTEVAN | 17 | 8 | 32 | 3 | 0 | 0 | 300 | 65 | SUMMERSIDE | 10 | 3 | 23 | 0 | 10 | 0 | 200 | 61 |
| LA RONGE | 10 | 3 | 26 | -2 | 4 | 0 | 300 | 67 | NEWFOUNDLAND | | | | | | | | |
| REGINA | 16 | 7 | 31 | 3 | Ó | 0 | 160 | 56 | CARTWRIGHT | 7 | 5 | 21 | -5 | 3 | 0 | 170 | 65 |
| SASKATOON | 15 | 6 | 27 | 3 | õ | ŏ | 290 | 59 | CHURCHILL FALLS | 4 | 3 | 21 | -4 | 21 | 1 | 250 | 65 |
| SWIFT CURRENT | 16 | 7 | 28 | 5 | Ö | õ | 250 | X | GANDER INT'L | 11 | 7 | 22 | -3 | 50 | Ó | 170 | 59 |
| | | 5 | | 2 | | | 200 | 63 | GOOSE | 0 | 5 | 25 | -1 | 2P | ŏ | 160 | 70 |
| YORKTON | 13 | 2 | 30 | -2 | 0 | 0 | 300 | 03 | | 3 | and the second | 10 | State Strategy | 21 | 0 | 090 | 67 |
| MANITOBA | | | | | | | | | PORT-AUX-BASQUES | 2 | 2 | and a second | 0 | | | | |
| BRANDON | 14 | 6 | 33 | 0 | 0 | 0 | 310 | 59 | ST JOHN'S | 11 | 1 | 19 | -1 | 45 | 0 | 190 | 74 |
| CHURCHILL | -2 | 1 | 11 | -12 | 9 | 2 | 010 | 61 | ST LAWRENCE | 6 | • 3 | 16 | 0 | 43 | 0 | | X |
| LYNN LAKE | 6 | 1 | 18 | -5 | 0 | 0 | 300 | 65 | WABUSH LAKE | 2 | 2 | 19 | -9 | 49 | 3 | 260 | 52 |
| | | | | | | | | | | | | | | | | | 1.2 |
| AV = weekly mean te | mperat | une i | n dec | ree (| C | | | | DIR = direction of maxim | um | wind | spee | d (de | g. from | n tr | ue no | rth |
| MX = weekly extreme maximum temperature in degree C | | | | | | | | | SPD = maximum wind sp | | | | | | | | |
| MX = weeky extreme | | | | | | and the second | | | | | | | | THE WILL | | _ | |
| MN = weekly extreme | | | | au | | | | | | | | | | | | | |
| MN = weekly extreme TP = weekly total pre- | cipitatio | n in I | mm | | | | | | X = not observed | 44 | | | | | | | |
| MN = weekly extreme | cipitatio ean ten | n in i | mm | from | nom | nd in | deg | | | thar | n7 d | ays | | | | | |

CIRCULATION

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THE FALL FAURTHER SCRUCE LIBERTY

