Climatic Climatic Perspectives

A weekly review of Canadian climate

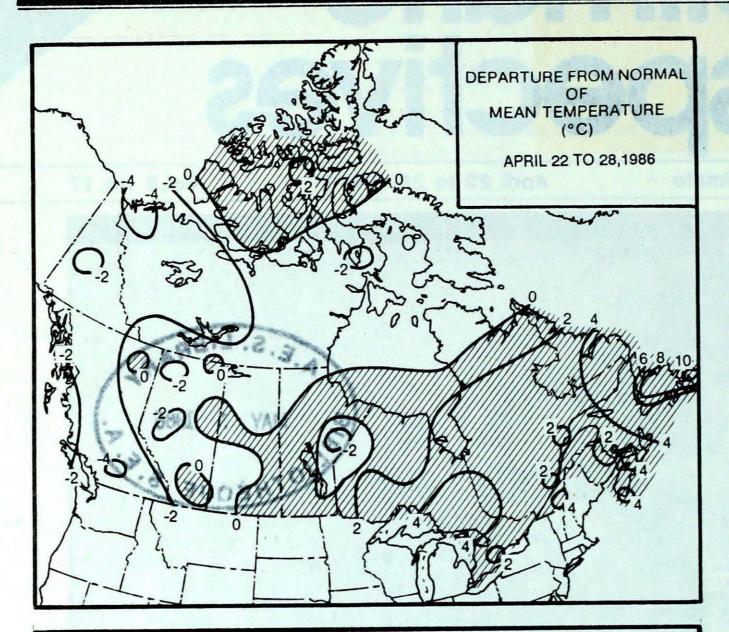
April 22 to 28, 1986

Vol.8 No.17



This NOAA 6 photograph of April 25, 1986, shows the Mackenzie District of the Northwest Territories. All lakes and rivers are still ice covered, and as much as 50 cm of snow still blankets the ground. The tree-less Arctic tundra (top right) is very distinguishable due to the lack of tall vegetation, as compared to the coniferous forested Mackenzie Valley.

- Cool unsettled weather in B.C. setback for agriculture
- Record warmth follows cold in Ontario and Quebec
- Record high temperatures for April in Newfoundland



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NEW BRUNSWICK	CHATHAM SAINT JOHN	20	CHARLO	-1			
NOVA SCOTIA PRINCE EDWARD ISLAND	GREENWOOD CHARLOTTETOWN	22 18	AMHERST CHARLOTTETOWN SUMMERSIDE	2			
NEWFOUNDLAND	ST JOHN'S	24	CHURCHILL FALLS	-12			
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ACROSS THE COUNTRY...

Yukon and Northwest Territories

Overall, temperatures in the Yukon and Northwest Territories were unseasonably cool, but in the southern Yukon and Mackenzie District readings did manage to reach the double digits. Snow depths in the Yukon are still considered to be above normal, and western sections received an additional 2 to 4 cm this week. The south Klondike Highway, between Whitehorse and Skagway Alaska, was opened April 26. There were periods of snow throughout the Northwest Territories and on Baffin Island, with falls ranging up to 10 cm. In many cases, snow depths on Baffin Island still exceed 100 cm.

British Columbia

An upper cold low plagued the province, giving cool unsettled conditions throughout. Sunshine was scarce, with many locations receiving half their normal amount. In the Okanagan, showery weather conditions hindered the spraying and pollination of the fruit crops. Early morning frost was reported in the southern valleys on a number of occasions. In the Kootenays, 25 cm of snow fell in the mountain passes over the weekend. In the north it was dry and relatively sunny, with convective build-ups and showers developing during the afternoons.

Prairie Provinces

It was unsettled, cloudy and damp throughout most of the period Temperatures were on the cool side, with a few daily low temperature records set in Alberta Earlier in the week, under sunny skies, readings in Alberta briefly climbed into the low twenties. A fair amount of rain fell in all three provinces, with the highest rainfall totals, almost 30 mm, reported in southern Manitoba. In the Alberta foothilb, 10 to 20 centimetres of snow fell early in the week, while up to 15 cm of snow fell in extreme south eastern Manitoba over the weekend Spring field work has begun in Saskatchewan, but fields are much too soggy in southern Manitoba.

Onterio

This was a week of record breaking temperatures. In the south, an area of high pressure gave mostly dry conditions, while disturbances brought inclement weather, including snow, to northern Ontario. The early part of the week was unseasonably cold, as an Arctic airmass spilled southwards across the province. No less than twenty daily low temperature records were broken on April 22 and 23, with readings even in the south falling well below the freezing mark; southern Ontario received an overnight dusting of snow. By mid-week a southerly flow pumped very mild air back into the province. Under sunny skies, readings over the weekend rebounded to record high values. In areas not affected by the cold waters of the Great Lakes, temperatures soared to the mid to high twenties. On April 27, the temperature at Timmins reached a record 30°C.

Quebec

Fine sunny weather continued from last week, and conditions were perfect for the St. Hubert Airshow. The week began on the cool side, with several daily low temperature records being set. By the weekend, temperatures rebounded to record high values, and eighteen new daily maximum temperature records were established. Val d'Or set a new monthly temperature record of 27°C on April 27. The week was sunny and very dry, except in eastern sections of the province, where there was up to 26 mm of rain. Seeding continues in the southern parts of the province, but there is a lack of moisture needed for germination.

Maritimes

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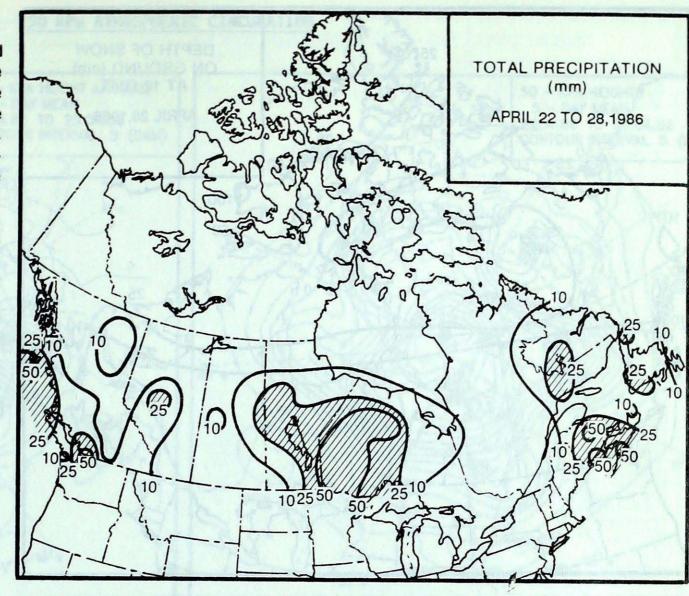
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A stationary weather system, situated near Nova Scotia, gave dull and wet weather conditions for most of the week. Heaviest precipitation occurred on April 23, with a number of locations in New Brunswick and Prince Edward Island reporting daily totals in the 20 to 25 millimetre range. Coastal areas were plagued by fog and drizzle. Sunshine was more prevalent in



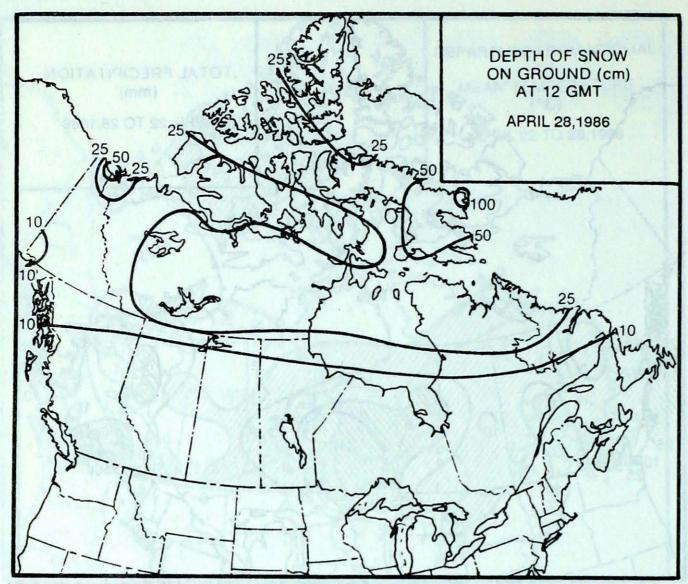
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YUKON TERRITORY	BURWASH	4
NORTHWEST TERRITORIES	BAKER LAKE	7
ALBERTA	WHITECOURT	32
SASKATCHEWAN	LA RONGE	23
MANITOBA	THE PAS	39
ONTARIO	SIOUX LOOKOUT	77
QUEBEC	SEPT-ILES	26
NEW BRUNSWICK	SAINT JOHN	63
NOVA SCOTIA	SHELBURNE	51
PRINCE EDWARD ISLAND	SUMMERSIDE	
NEWFOUNDLAND	STEPHENVILLE	34

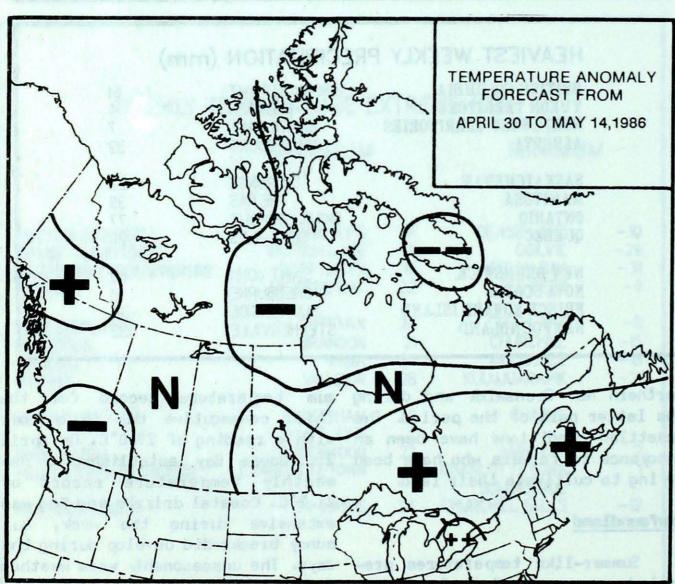
northern New Brunswick and during mum unsettled conditions have been an trying to cultivate their land.

Newfoundland

Summer-like temperatures prevailed over much of Newfoundland including Labrador. Numerous daily and monthly temperature records were shattered. On April 24, St. John's recorded the highest maximum temperature ever, 24.1°C, during the month of April. On April 26, Stephenville broke a monthly maxi-

temperature record for the the latter part of the period The third consecutive day in a row, with a reading of 23.8°C. On April annoyance to farmers who have been 25, Goose Bay established a new monthly temperature record of 21.2°C. Coastal drizzle and fog was extensive during the week, but sunny breaks did develop during the days. The unseasonably warm weather came to an abrupt end during the latter part of the weekend, as a cold front pushed southward across the district.





Temperature Anomaly Forecast

- much above normal
- above normal
- 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.

CLINATIC PERSPECTIVES VOLUME 8

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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.

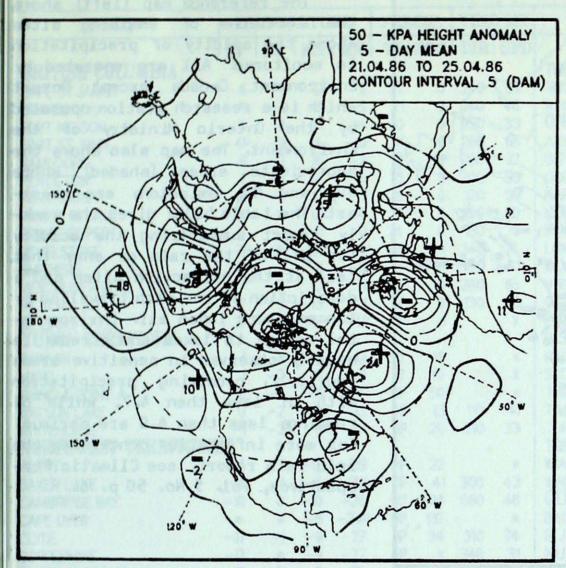
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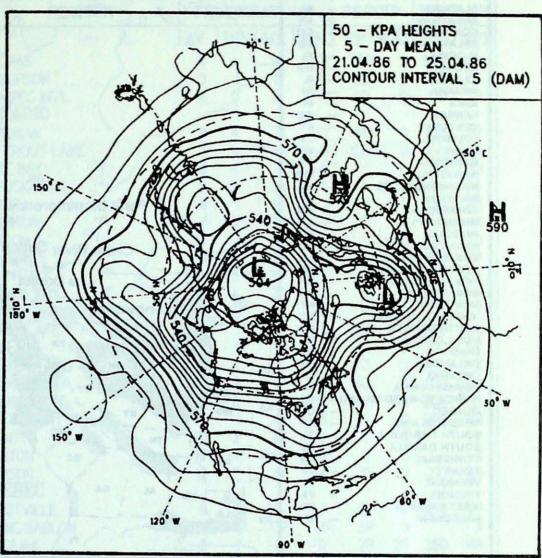
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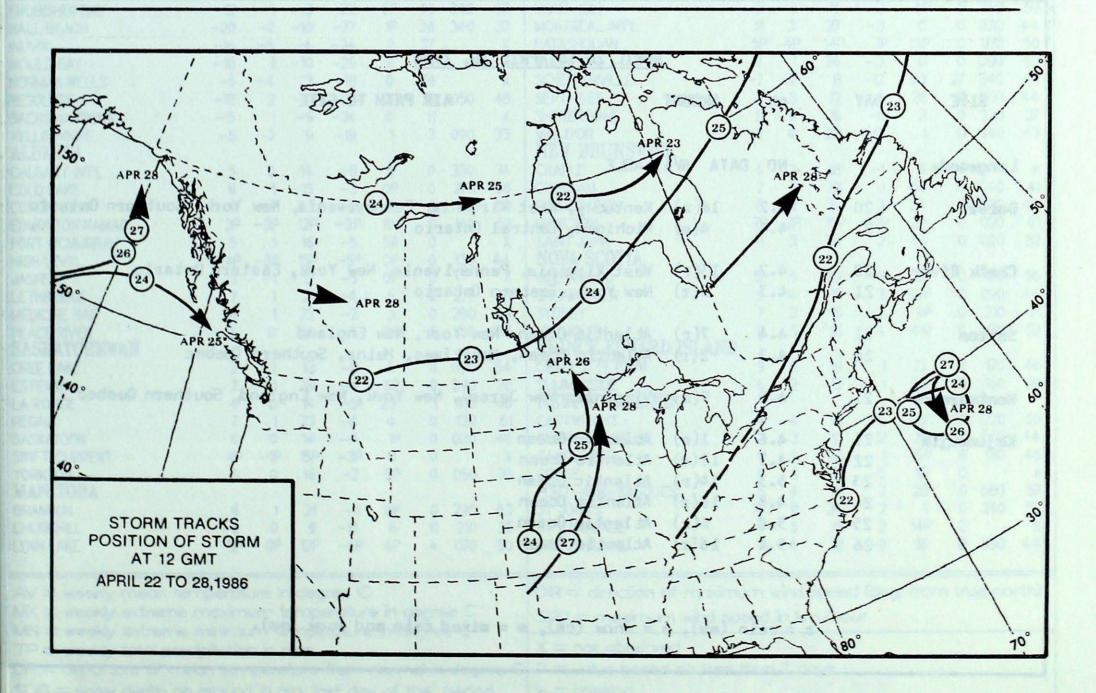
50 KPa ATHOSPHERIC CIRCULATION

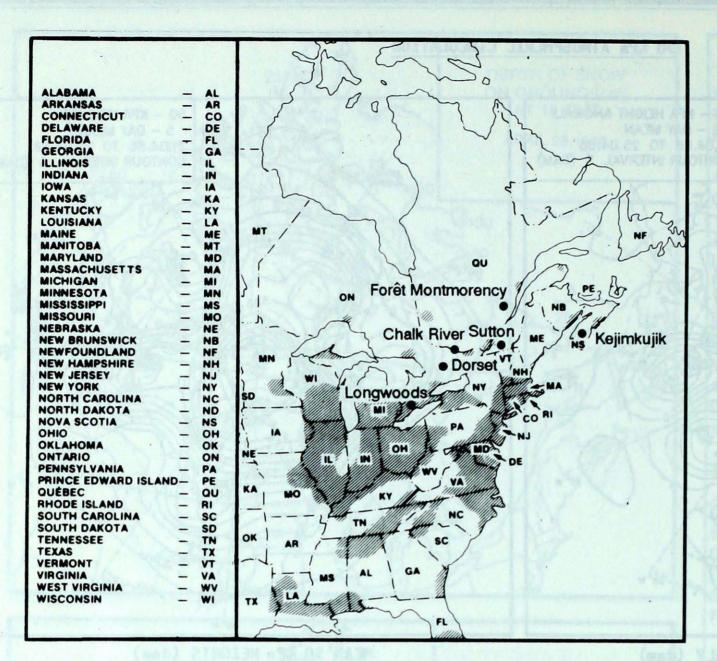


MEAN 50 KPa HEIGHT ANOMALY (dam) April 21 to April 25, 1986



MEAN 50 KPa HEIGHTS (dam) April 21 to April 25, 1986





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 NOx 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.

APRIL 20 TO APRIL 26, 1986								
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Sutton	21 26	4.4	7(r) 2(r)					
Hontmorency	21	4.3	9(m)	Virginia, New Jersey, New York, New England, Southern Quebec				
Kejimkujik	21 22 23 24 25 26	4.6 4.7 5.3 4.8 5.0 5.4	1(r) 11(r) 14(r) 16(r) 6(r) 16(r)	Atlantic Ocean				

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

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