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# A WEEKLY REVIEW OF CANADIAN CLIMATE

# CLIMATIC PERSPECTIVES

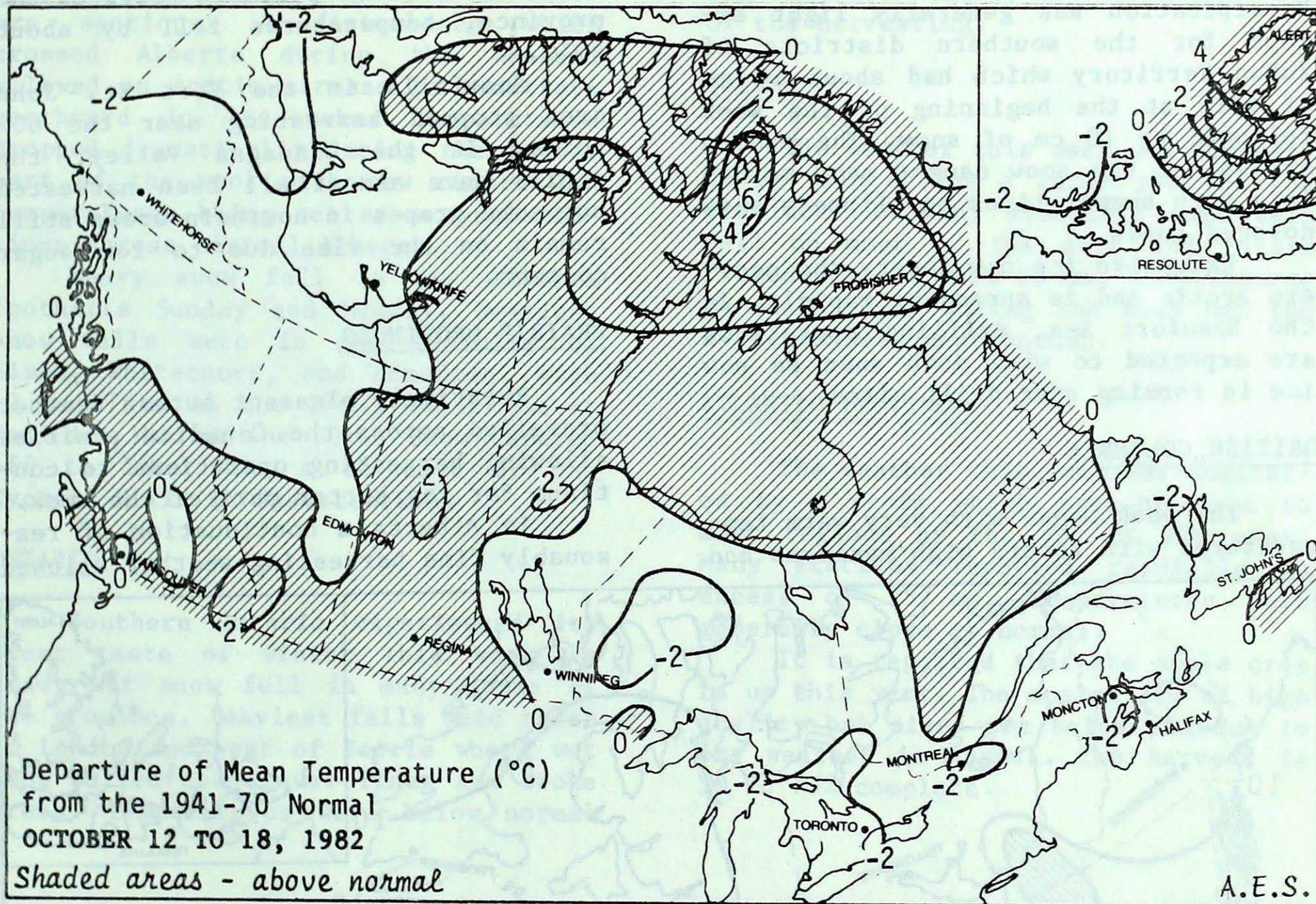
THE CANADIAN CLIMATE CENTRE,  
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## Canada

OCTOBER 22, 1982

(Aussi disponible en français)

VOL.4 NO.41



### WEATHER HIGHLIGHTS FOR THE PERIOD - OCTOBER 12 TO 20, 1982

#### Temperatures drop sharply in the west

The western half of Canada from British Columbia to Saskatchewan saw temperature drops of  $10^{\circ}$  to  $15^{\circ}\text{C}$  during the week. The cooling was accompanied by snow falls in many areas.

The weather in the east was rainy with temperatures close to normal. Temperatures averaged above normal in

the Arctic but minimums below  $-20^{\circ}\text{C}$  were becoming more frequent.

Rocky Mountain House, Alberta, had the highest maximum temperature this week,  $25.7^{\circ}\text{C}$ , and Mould Bay, N.W.T., had the lowest minimum,  $-31.7^{\circ}\text{C}$ . The weekly rainfall at Kapuskasing, Ontario was 49.4 mm.

NOTE: The data shown in this publication are based on unverified reports from approximately 225 Canadian and 115 northern United States Synoptic stations.



YUKON AND THE NORTHWEST TERRITORIES

Although the week began with temperatures well above normal in the Yukon, a cold air mass brought snow and wintery temperatures by the end of the week. Generally, temperatures averaged near or above normal for the week, but in the high Arctic minimum temperatures fell below  $-20^{\circ}\text{C}$  at several stations. Precipitation was generally light except for the southern districts of Yukon Territory which had about 10 mm of rain at the beginning of the week followed by 10 cm of snow. The sudden arrival of the snow caught many motorists with summer tires on slippery snow covered roads.

Extensive ice now covers the eastern Arctic and is spreading rapidly. In the Beaufort Sea, drilling operations are expected to wind down soon as new ice is forming near drill sites.

BRITISH COLUMBIA

The week began with very warm temperatures with record high maximums and

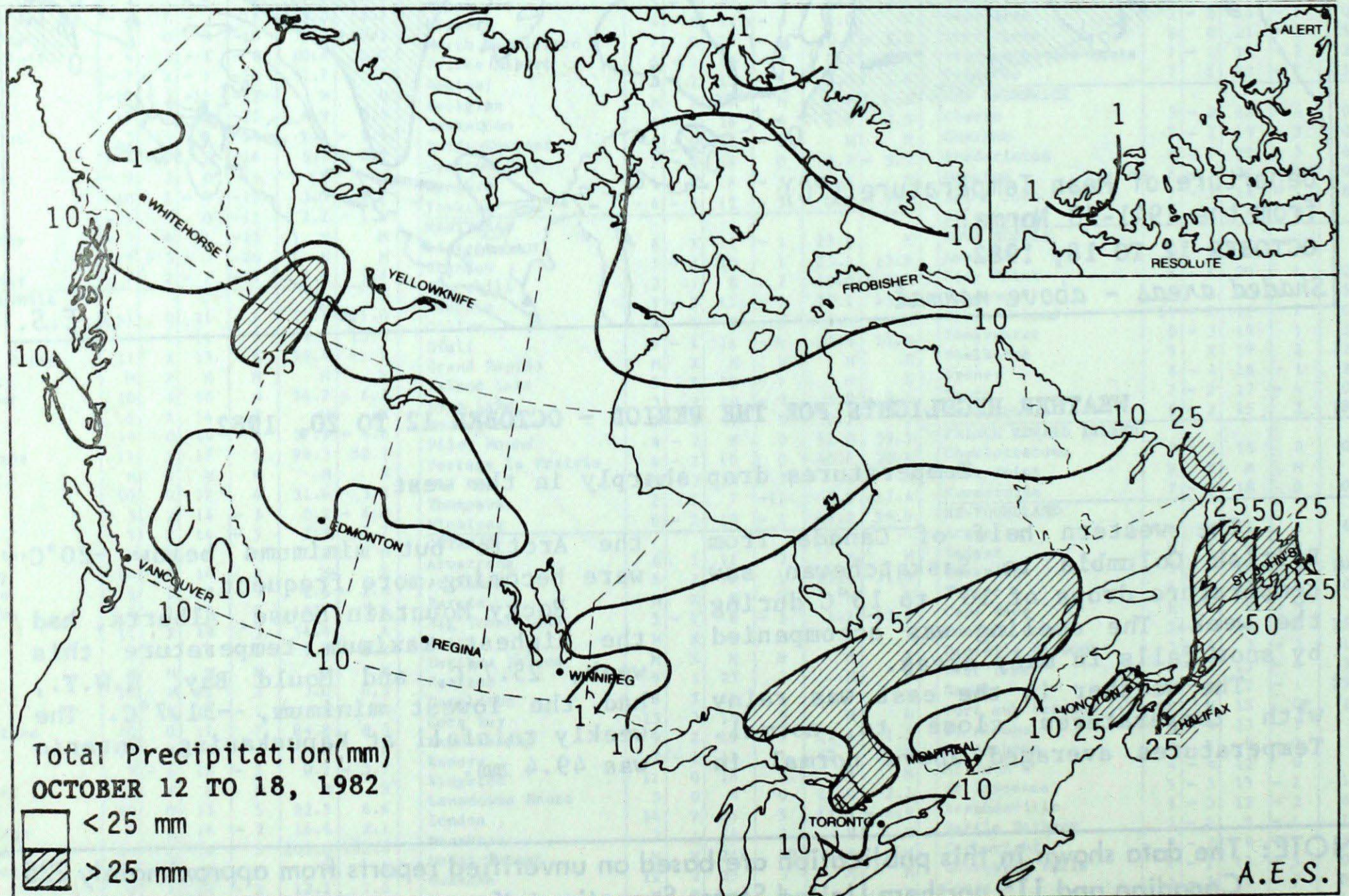
minimums at several stations on the 12th and 13th. Fort Nelson reached  $17.4^{\circ}\text{C}$  on the 12th beating the old record of  $17.2^{\circ}\text{C}$  set in 1947. By the end of the week, temperatures had fallen considerably. At Fort Nelson maximums dropped to below  $0^{\circ}\text{C}$  and minimums dropped to  $-15^{\circ}\text{C}$ , with the passage of a cold front on the 15th which brought 19 cm of snow. In southern parts of the province, temperatures fell by about  $10^{\circ}\text{C}$ .

Snowfalls in the Fort St. John area stopped harvesting near the 60% point. In the Okanagan Valley, the apples have almost all been harvested but some grapes in northern areas still remain on the vine due to low sugar content.

PRAIRIE PROVINCES

Relatively pleasant autumn weather prevailed across the Canadian prairies allowing harvesting operations to continue for the better part of the week.

In Alberta a continuation of reasonably fine harvesting weather allowed





considerable progress to be made. Only 10 percent of the cut crop remained unharvested, most of it in scattered areas in west and central Alberta and in the western Peace district. Harvesting in Saskatchewan and Manitoba is nearly complete and only fall field work remains to be done.

Temperatures for the most part remained on the mild side but cooler temperatures were experienced in eastern sections. A disturbance which crossed Alberta during the weekend allowed an Arctic airmass to penetrate southward in its wake. Temperatures dropped dramatically during the latter part of the week with new record low temperatures being set at several stations across central Alberta.

Heavy snow fell in the Alberta foothills Sunday and Monday. Heaviest snow falls were in the vicinity of Edson, Whitecourt, and Edmonton, with 12 to 17 cm on the 17th, and 17 cm at Medicine Hat on the 18th. Snow tapered off to less than a cm east of the Cypress Hills in Saskatchewan.

#### ONTARIO

Southern Ontario experienced its first taste of winter this week as heavy wet snow fell in many areas of the province. Heaviest falls were north of London and west of Barrie where wet snow pulled down power lines and broke trees. Temperatures were below normal

with daytime highs on the 16th hovering around an unseasonably cold 5°C.

Northern Ontario remained cool and wet with 5 to 6 days during the week having measurable rain or snow. The extremes northwestern parts of Ontario ended the week with 5 cm of snow still on the ground.

The Ontario harvest continues to wind down with corn and soybean awaiting only dry weather for the conclusion of the harvesting.

#### QUÉBEC

The weather this week was dominated by rain across a large part of the province. In many districts some rain fell on most of the days and totals frequently exceeded 25 mm. Temperatures generally fell during the week but the averages were near normal.

#### ATLANTIC PROVINCES

The weather this week was dominated by a storm which brought rain to most regions by the end of the week. Many stations reported rainfalls in excess of 25 mm. Temperatures were generally close to normal.

It is reported that the apple crop is up this year. The apples are of high quality but sizes are below par due to dry weather in August. The harvest is 50 to 75% complete.

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#### CLIMATIC PERSPECTIVES

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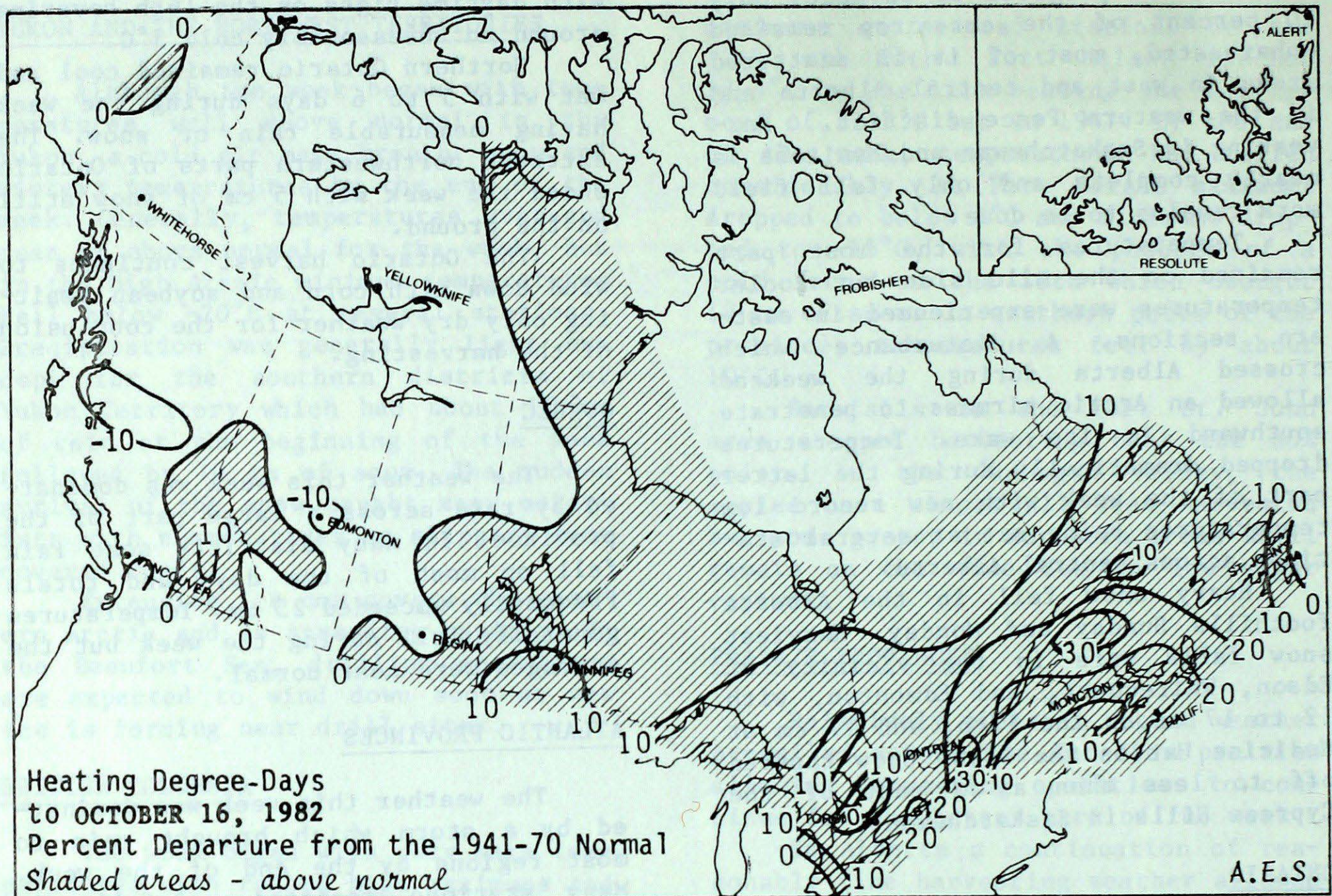
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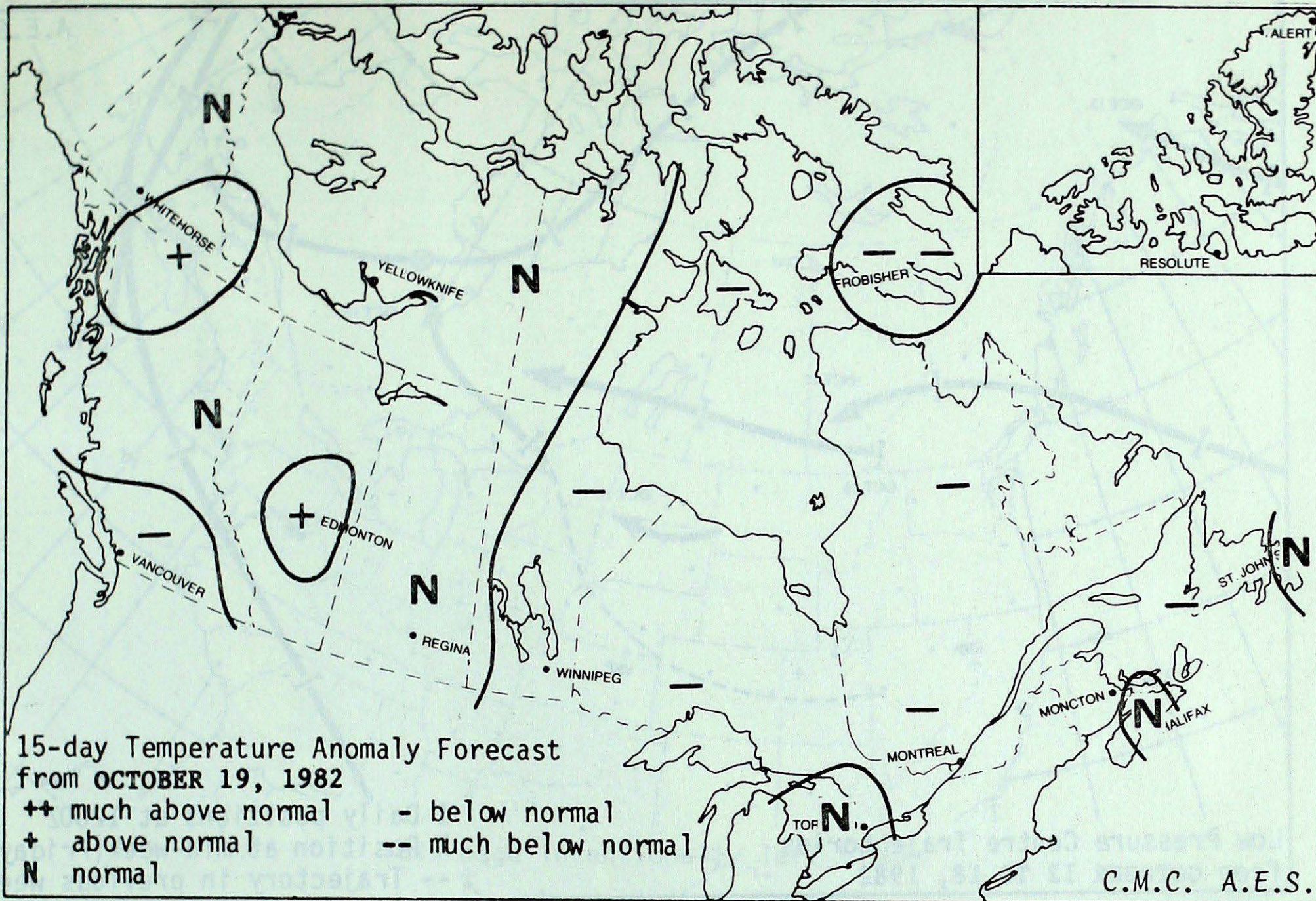
## HEATING DEGREE-DAY SUMMARY TO OCTOBER 16, 1982



| STATION       | MONTHLY CUMULATIVE TOTAL | MONTHLY DIFF. FROM 1941-70 NORMAL | SEASONAL TOTAL | SEASONAL DIFF. FROM 1941-70 NORMAL | SEASONAL PERCENT OF NORMAL |
|---------------|--------------------------|-----------------------------------|----------------|------------------------------------|----------------------------|
| Resolute      | 990.5                    | 9.5                               | 1938.0         | 58.0                               | 103                        |
| Inuvik        | 635.0                    | -44.0                             | 996.0          | -61.0                              | 94                         |
| Whitehorse    | 426.5                    | -34.5                             | 721.0          | -41.0                              | 95                         |
| Vancouver     | 165.5                    | -19.5                             | 258.0          | -2.0                               | 99                         |
| Edmonton      | 233.5                    | -87.5                             | 384.5          | -65.5                              | 85                         |
| Calgary       | 276.0                    | -49.0                             | 450.0          | -37.0                              | 92                         |
| Regina        | 290.0                    | -16.0                             | 372.0          | -9.0                               | 98                         |
| Winnipeg      | 301.5                    | 26.5                              | 376.5          | 42.5                               | 113                        |
| Thunder Bay   | 309.5                    | 3.5                               | 470.0          | 46.0                               | 111                        |
| Windsor       | 119.5                    | -6.5                              | 135.5          | -1.5                               | 99                         |
| Toronto       | 178.0                    | 14.0                              | 229.0          | 36.0                               | 119                        |
| Ottawa        | 206.0                    | -1.0                              | 274.0          | 29.0                               | 112                        |
| Montreal      | 201.0                    | 25.0                              | 271.5          | 68.5                               | 134                        |
| Quebec        | 243.5                    | -0.5                              | 364.0          | 53.0                               | 117                        |
| Saint John    | 253.5                    | 0.5                               | 390.0          | 26.0                               | 107                        |
| Halifax       | 191.0                    | 13.0                              | 273.0          | 28.0                               | 111                        |
| Charlottetown | 233.5                    | 23.5                              | 324.0          | 50.0                               | 118                        |
| St John's     | 293.0                    | 8.0                               | 470.5          | -3.5                               | 99                         |



### TEMPERATURE ANOMALY FORECAST

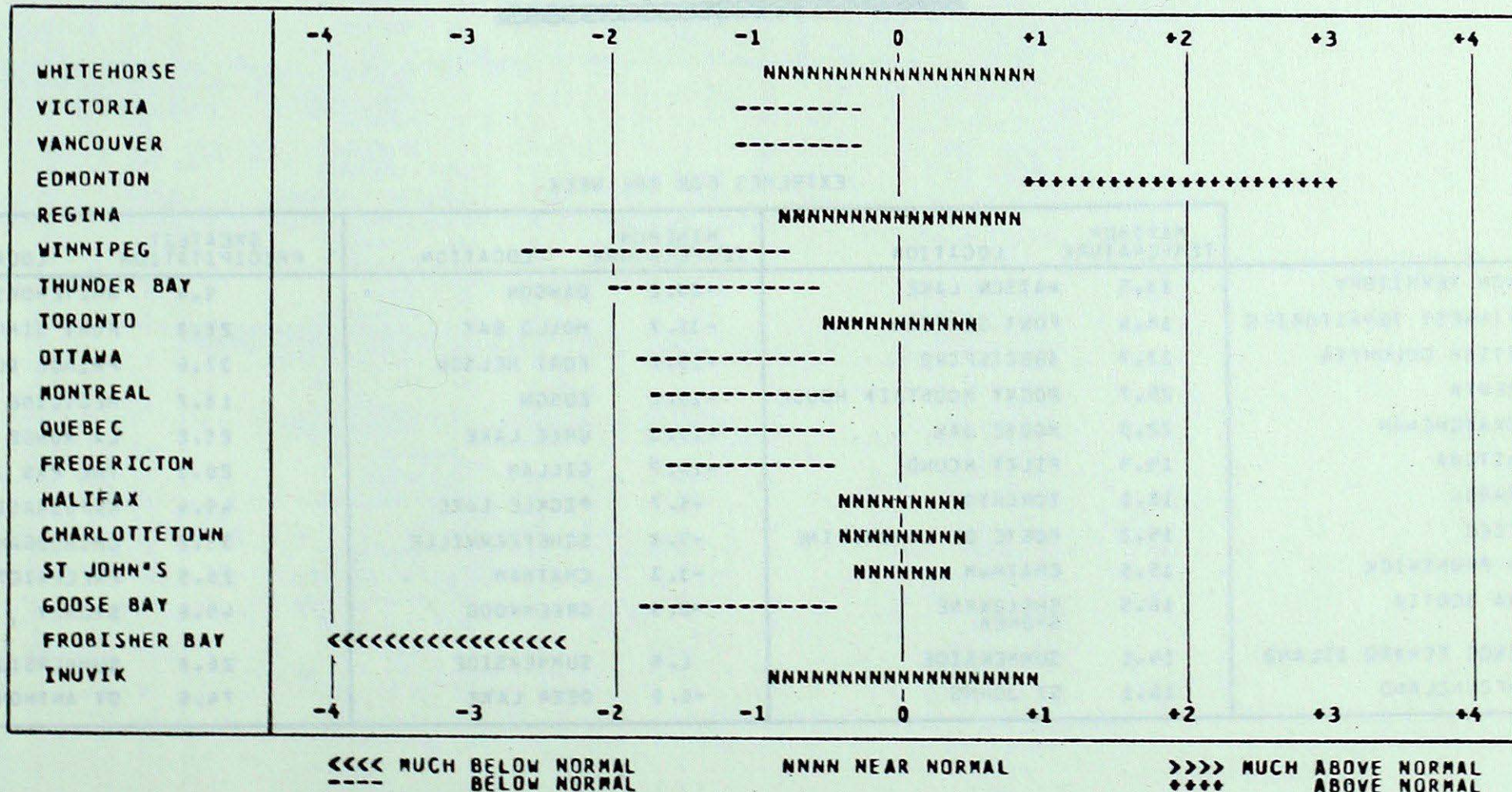


15-day Temperature Anomaly Forecast from OCTOBER 19, 1982

++ much above normal    - below normal  
+ above normal            -- much below normal  
N normal

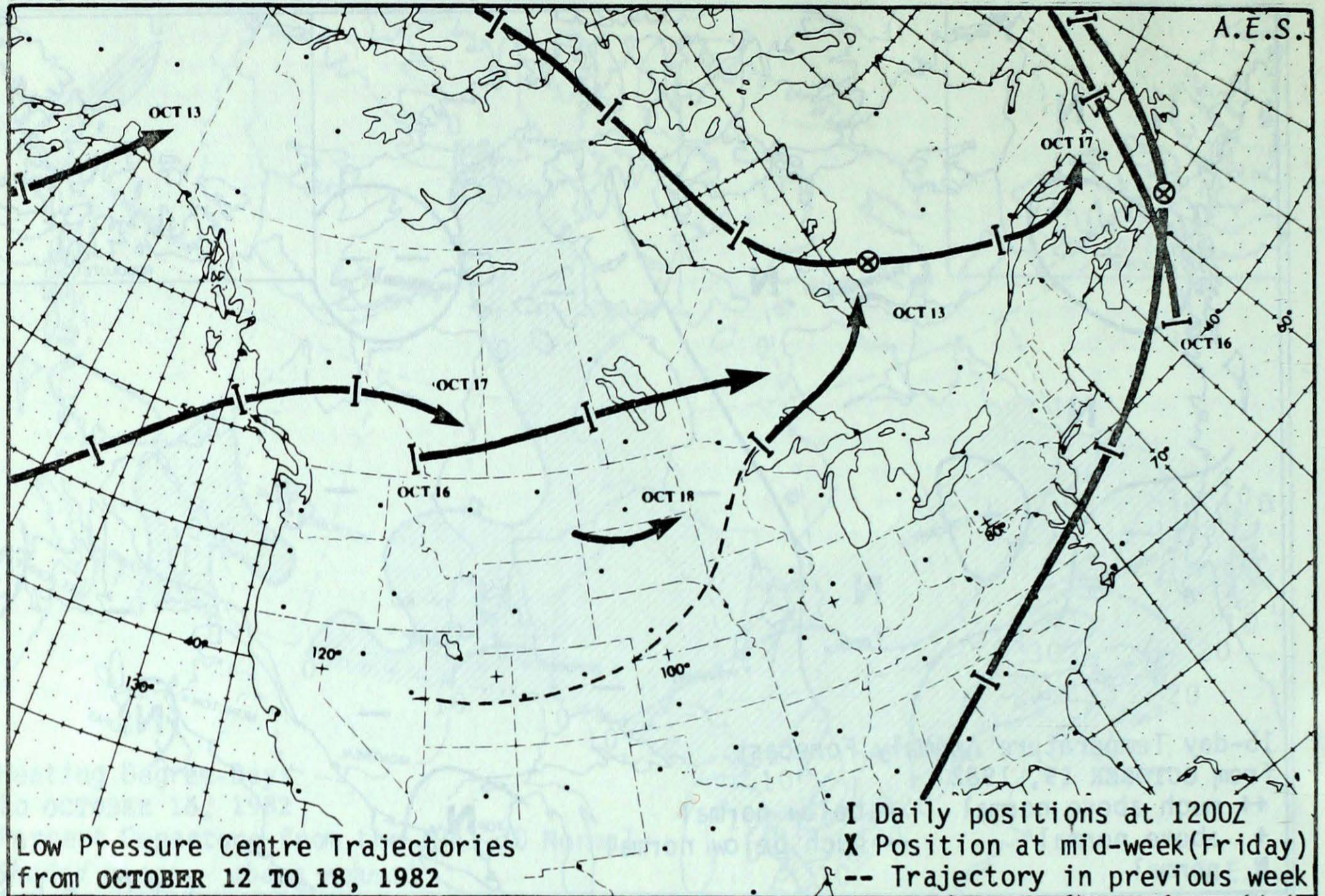
C.M.C. A.E.S.

TEMPERATURE ANOMALY FORECAST FOR OCT 19 1982 TO NOV 2 1982





LOW PRESSURE CENTRE TRAJECTORIES



EXTREMES FOR THE WEEK

|                       | MAXIMUM TEMPERATURE | LOCATION             | MINIMUM TEMPERATURE | LOCATION      | GREATEST PRECIPITATION | LOCATION      |
|-----------------------|---------------------|----------------------|---------------------|---------------|------------------------|---------------|
| YUKON TERRITORY       | 13.5                | WATSON LAKE          | -23.2               | DAWSON        | 9.4                    | WHITEHORSE    |
| NORTHWEST TERRITORIES | 18.4                | FORT SIMPSON         | -31.7               | MOULD BAY     | 26.0                   | FORT SIMPSON  |
| BRITISH COLUMBIA      | 23.7                | ABBOTSFORD           | -15.7               | FORT NELSON   | 37.6                   | PRINCE RUPERT |
| ALBERTA               | 25.7                | ROCKY MOUNTAIN HOUSE | -15.2               | EDSON         | 18.7                   | MEDICINE HAT  |
| SASKATCHEWAN          | 22.5                | MOOSE JAW            | -10.3               | CREE LAKE     | 25.2                   | LA RONGE      |
| MANITOBA              | 19.9                | PILLET MOUND         | -10.7               | GILLAM        | 20.3                   | THE PAS       |
| ONTARIO               | 18.0                | TORONTO              | -5.7                | PICKLE LAKE   | 49.4                   | KAPUSKASING   |
| QUEBEC                | 15.2                | FOSIE DE LA BALEINE  | -5.8                | SCHEFFERVILLE | 35.2                   | CHIBOUGAMAU   |
| NEW BRUNSWICK         | 15.5                | CHATHAM              | -3.3                | CHATHAM       | 25.5                   | FREDERICTON   |
| NOVA SCOTIA           | 16.5                | SHELBURNE SYDNEY     | -2.9                | GREENWOOD     | 45.6                   | SYDNEY        |
| PRINCE EDWARD ISLAND  | 14.1                | SUMMERSIDE           | 1.5                 | SUMMERSIDE    | 26.8                   | SUMMERSIDE    |
| NEWFOUNDLAND          | 16.1                | ST JOHNS             | -6.0                | DEER LAKE     | 74.5                   | ST ANTHONY    |



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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. OCTOBER 19, 1982

Table with columns: Station, Temperature (°C) [Average, Departure from Normal, Extreme Maximum, Extreme Minimum], Precip. (mm) [Total, Departure from Normal]. Rows include Yukon, Northwest Territories, British Columbia, and Ontario stations.

Table with columns: Station, Temperature (°C) [Average, Departure from Normal, Extreme Maximum, Extreme Minimum], Precip. (mm) [Total, Departure from Normal]. Rows include Alberta, Saskatchewan, Manitoba, and Ontario stations.

Table with columns: Station, Temperature (°C) [Average, Departure from Normal, Extreme Maximum, Extreme Minimum], Precip. (mm) [Total, Departure from Normal]. Rows include Quebec, New Brunswick, Nova Scotia, Prince Edward Island, and Newfoundland stations.

- extreme value based on less than 7 days X = no normal due to short period M = not available at present time