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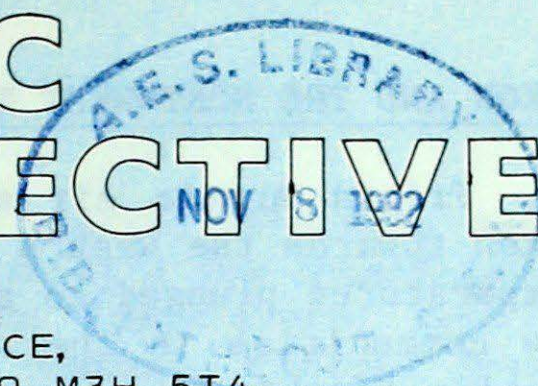
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A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES



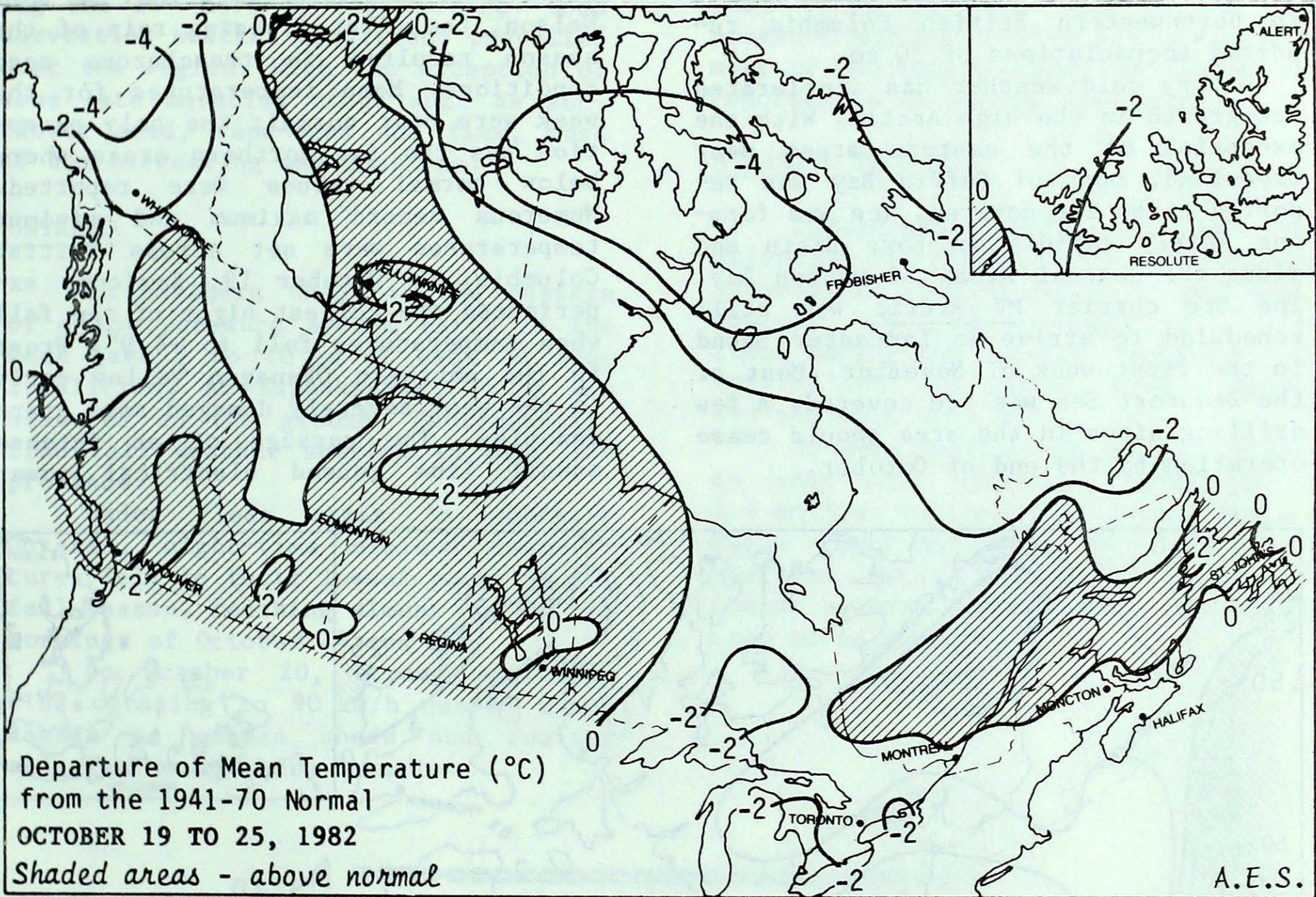
THE CANADIAN CLIMATE CENTRE,
ATMOSPHERIC ENVIRONMENT SERVICE,
4905 DUFFERIN ST., DOWNSVIEW, ONTARIO M3H 5T4

Canada

OCTOBER 29, 1982

(Aussi disponible en français)

VOL. 4 NO. 42



WEATHER HIGHLIGHTS FOR THE PERIOD - OCTOBER 19 TO 25, 1982

Some frost damage of grapes in the northern Okanagan

Frost inflicted damage on the grape canopies in the northern Okanagan Valley when overnight temperatures fell below freezing early in the period. Towards the end of the week, a warm southerly flow over western Canada re-

sulted in temperatures approaching 20°.

Temperatures ranged from 22.2° at Moose Jaw, Sask. to -37.2° at Eureka, N.W.T. Maximum rainfall for the week was 226.8 mm at Cape Scott, B.C.

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

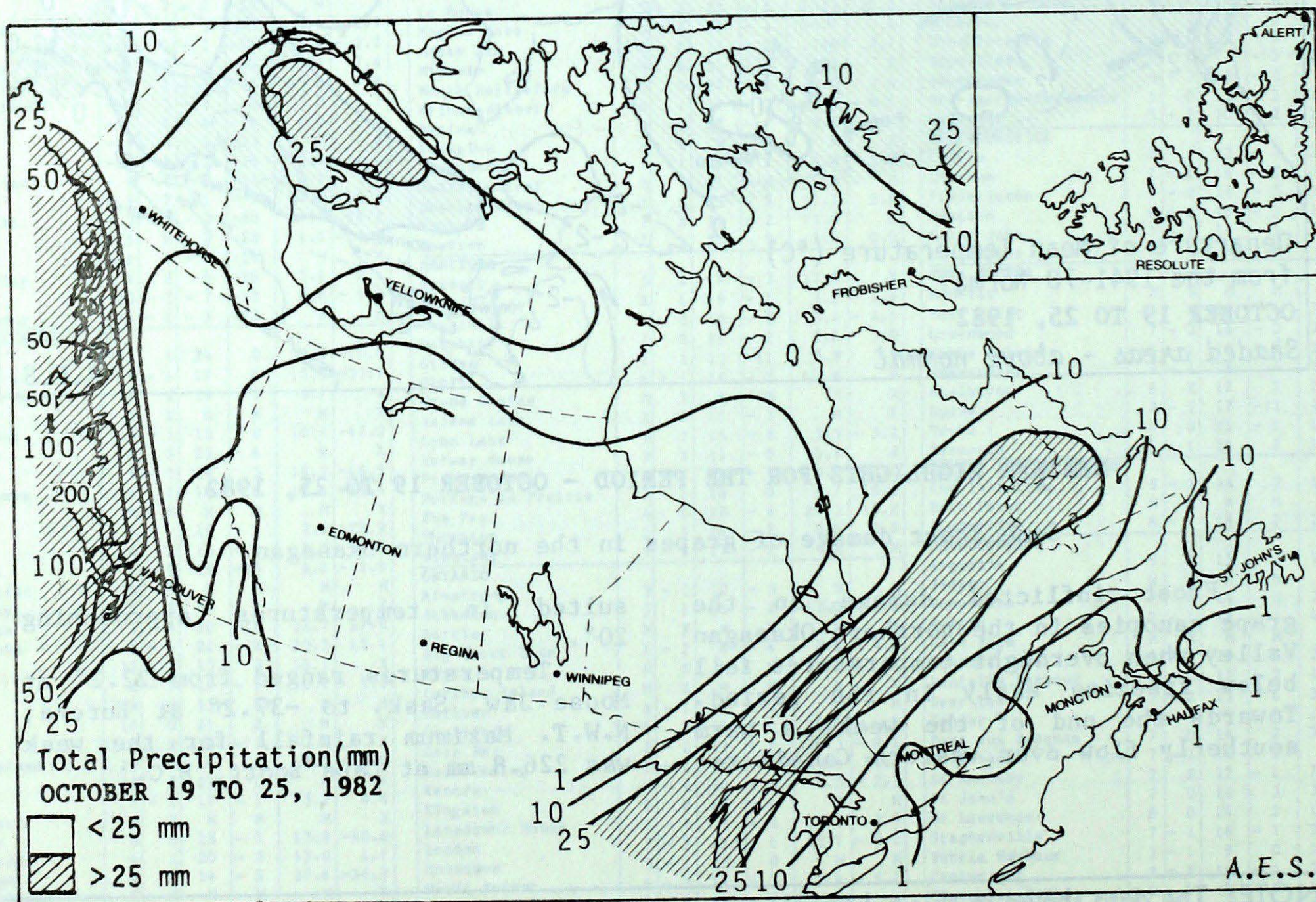
Frigid Arctic air moved over the Yukon towards the week's end; overnight temperatures plunged to about -30° in a few communities in the north. The exception to this trend was in the Liard Basin where temperatures remained near normal. Snow fell fairly steadily in all areas of the Yukon during the week. Over the weekend the Haines road summit in northwestern British Columbia reported accumulations of 30 cm.

Very cold weather has accelerated ice growth in the high Arctic. With the exception of the eastern areas near Greenland, most of Baffin Bay was reported to be ice covered. Ice was forming fairly rapidly in Foxe Basin and along the coastal areas of Hudson Bay. The Ore carrier MV Arctic was still scheduled to arrive in Lancaster Sound in the first week of November. Most of the Beaufort Sea was ice covered. A few drilling sites in the area should cease operating by the end of October.

BRITISH COLUMBIA

Cool temperatures prevailed across the province early in the period; however, towards the end of the week an influx of milder southwesterly air brought seasonable temperatures and abundant rainfall to the coastal and northern interior areas.

The southern interior did not receive as much precipitation. At Fort Nelson, the first freezing rain of the season resulted in treacherous road conditions. Mean temperatures for the week were near normal; the only exception was the far northern areas where below normal values were reported. Numerous record maximum and minimum temperatures were set across British Columbia. On October 19, Kamloops experienced the coldest night of the fall when temperatures fell to -4.9° . Frost in the northern Okanagan Valley early in the week severely damaged some grape canopies. The passage of an intense squall line caused electrical power



outages in the lower Fraser Valley; some areas were without electricity for the whole day.

PRAIRIE PROVINCES

A persistent ridge of high pressure gave the prairies pleasant autumn weather. A southerly flow of warm air resulted in daytime temperatures reaching the 20° mark on the weekend. Good harvesting weather conditions prevailed over the region. With the exception of some late maturing crops such as sunflower seed, rape-seed and flax, most of the harvesting was complete.

ONTARIO

In northern Ontario, the passage of a low pressure system early in the week gave 5 to 10 cm of snow to some localities. At Kapuskasing, 25 cm was measured on the ground. Subsequently, fine fall weather settled in over the province.

Under clear skies in southern Ontario, night-time minimum temperatures fell to their lowest point of the fall season, reaching almost -5° on the mornings of October 24 and 25.

On October 20, strong southwest winds gusting to 90 km/h caused minor damage to garden sheds and roofing shingles in southern Ontario.

QUÉBEC

The week started with warm weather over the province; a few localities reported daytime temperatures near the 20° mark in southern Québec. Towards mid-week a low pressure system moved into the province giving as much as 30 mm of rain to communities in central Québec. Other stations received less than 10 mm of rain. Behind the low pressure system, cooler air moved over most of the region. Corn harvesting was reported to be nearly completed.

ATLANTIC PROVINCES

Unseasonably mild air over the Atlantic Provinces set a few maximum temperature records early in the week. However, with the passage of a cold front during the weekend, very cool air settled over the region. Several record low minimums were set.

In Nova Scotia, the highest tobacco crop sale ever was estimated at 2.4 million dollars. The provincial tobacco yield was over 2577 kilograms/hectare. Recent dry weather in the orchards allowed harvesting of the apple crop to be nearly completed.

CLIMATIC PERSPECTIVES

Staff

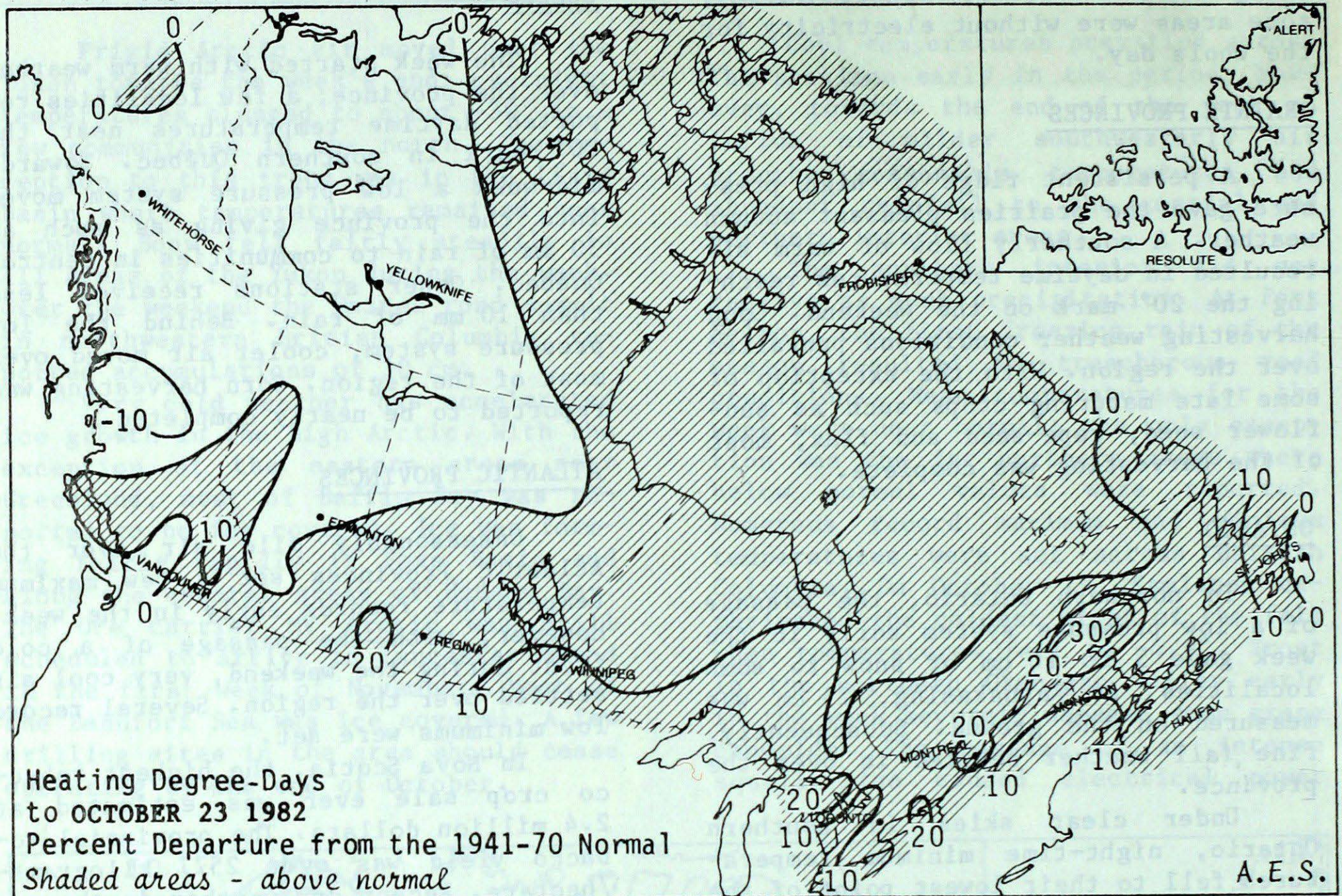
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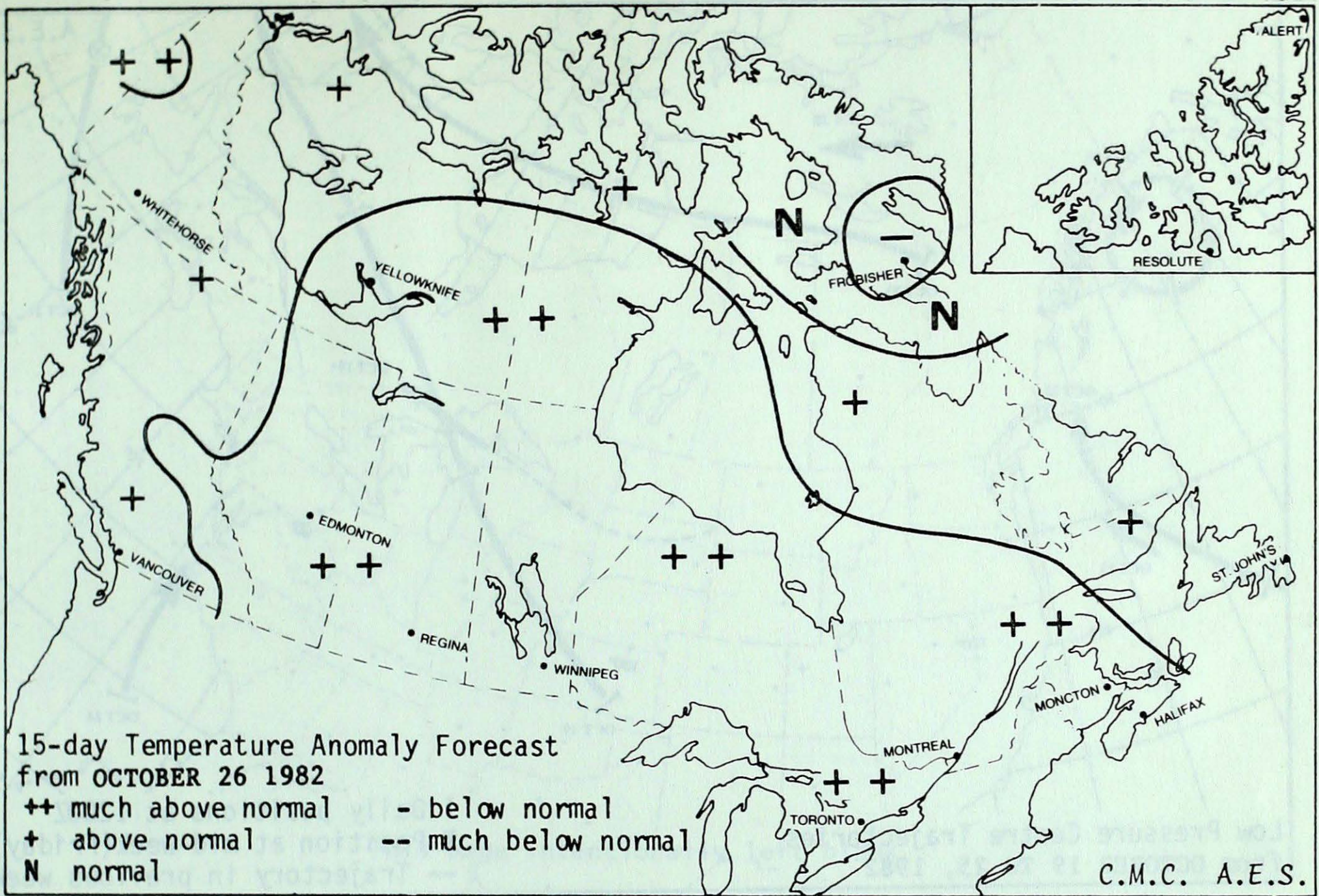
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HEATING DEGREE-DAY SUMMARY TO OCTOBER 23, 1982

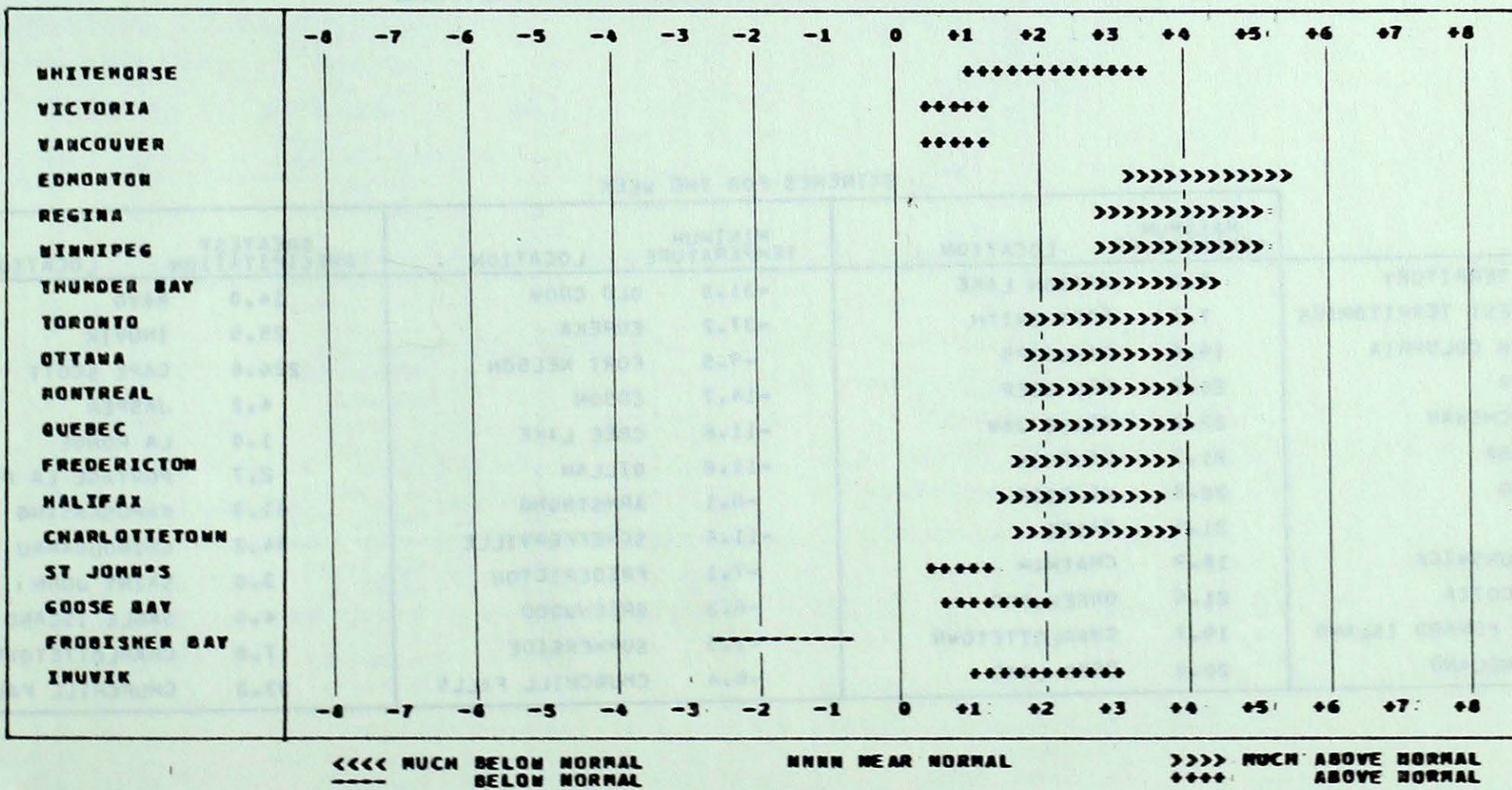


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	1264.5	42.5	2212.0	91.0	104
Inuvik	830.0	-43.0	1191.0	-60.0	95
Whitehorse	580.0	-9.0	874.5	-15.5	98
Vancouver	229.5	-15.5	322.0	2.0	101
Edmonton	343.5	-70.5	494.5	-48.5	91
Calgary	374.5	-43.5	548.5	-31.5	95
Regina	396.0	-6.0	478.0	1.0	100
Winnipeg	400.0	40.0	475.0	56.0	113
Thunder Bay	417.0	22.0	577.5	64.5	113
Windsor	188.5	12.5	204.5	17.5	109
Toronto	251.5	20.5	302.5	42.5	116
Ottawa	284.5	6.5	352.5	36.5	112
Montreal	279.0	37.0	349.5	80.5	130
Quebec	321.0	-4.0	441.5	49.5	113
Saint John	335.0	7.0	471.5	32.5	107
Halifax	256.0	18.0	338.0	33.0	111
Charlottetown	304.0	23.0	394.5	49.5	114
St John's	363.5	-3.5	541.0	-15.0	97

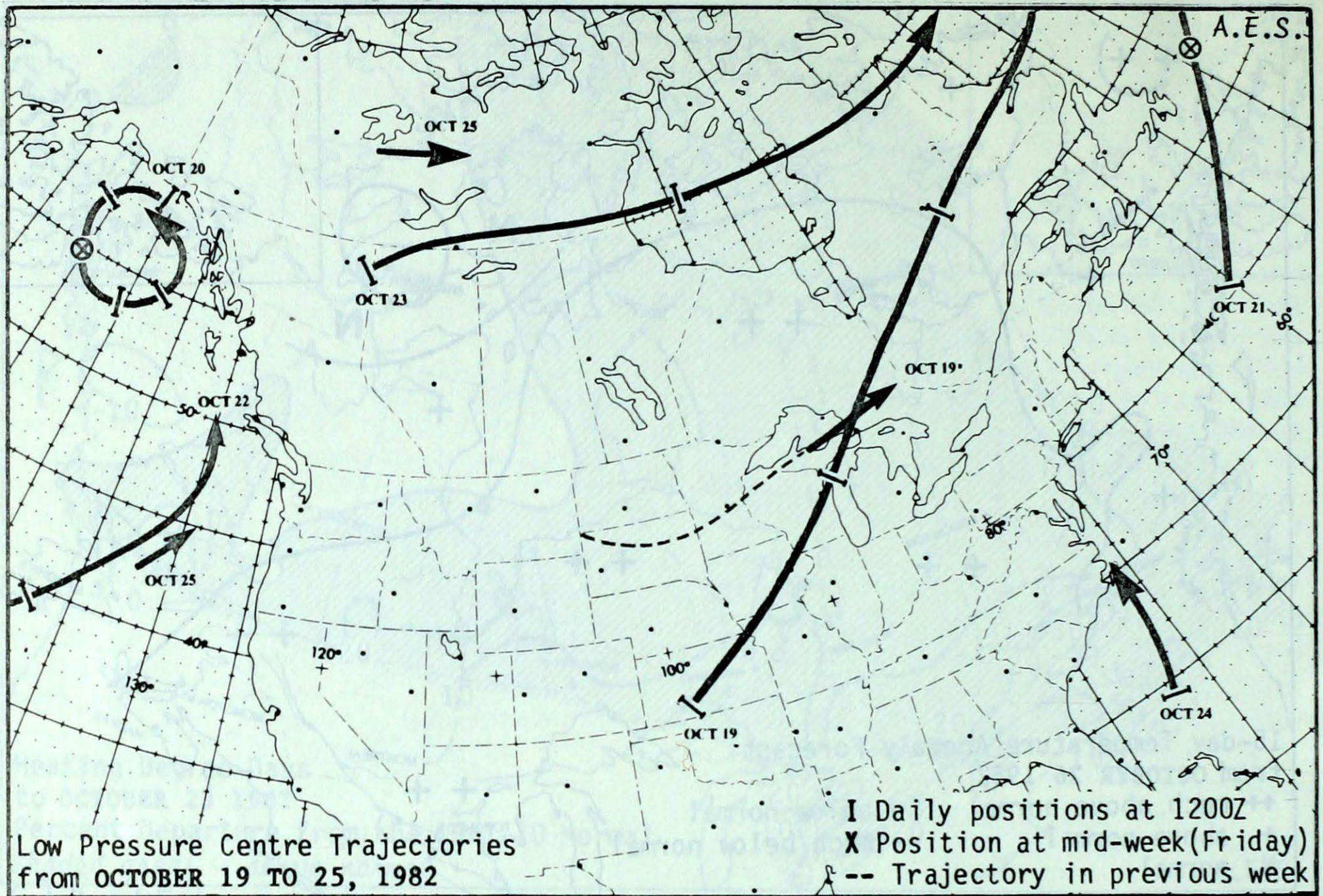
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR OCT 26 1982 TO NOV 9 1982



LOW PRESSURE CENTRE TRAJECTORIES



EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	5.2	WATSON LAKE	-31.0	OLD CROW	14.0	MAYO
NORTHWEST TERRITORIES	7.7	FORT SMITH	-37.2	EUREKA	25.5	INUVIK
BRITISH COLUMBIA	19.8	KAMLOOPS	-9.5	FORT NELSON	226.8	CAPE SCOTT
ALBERTA	20.5	RED DEER	-14.7	EDSON	4.2	JASPER
SASKATCHEWAN	22.2	MOOSE JAW	-11.6	CREE LAKE	1.0	LA RONGE
MANITOBA	21.3	DAUPHIN	-11.8	GILLAM	2.7	PORTAGE LA PRAIRIE
ONTARIO	20.8	WINDSOR	-8.1	ARMSTRONG	61.8	KAPUSKASING
QUEBEC	21.4	GASPE	-11.4	SCHEFFERVILLE	34.2	CHIBOUGAMAU
NEW BRUNSWICK	18.9	CHATHAM	-7.1	FREDERICTON	3.0	SAINT JOHN
NOVA SCOTIA	21.6	GREENWOOD	-6.3	GREENWOOD	4.4	SABLE ISLAND
PRINCE EDWARD ISLAND	19.7	CHARLOTTETOWN	-1.5	SUMMERSIDE	7.8	CHARLOTTETOWN
NEWFOUNDLAND	20.0	DEER LAKE	-8.4	CHURCHILL FALLS	33.2	CHURCHILL FALLS

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. OCTOBER 26, 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 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, 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, Newfoundland stations.

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