

# CLIMATIC PERSPECTIVES

THE CANADIAN CLIMATE CENTRE,  
ATMOSPHERIC ENVIRONMENT SERVICE,

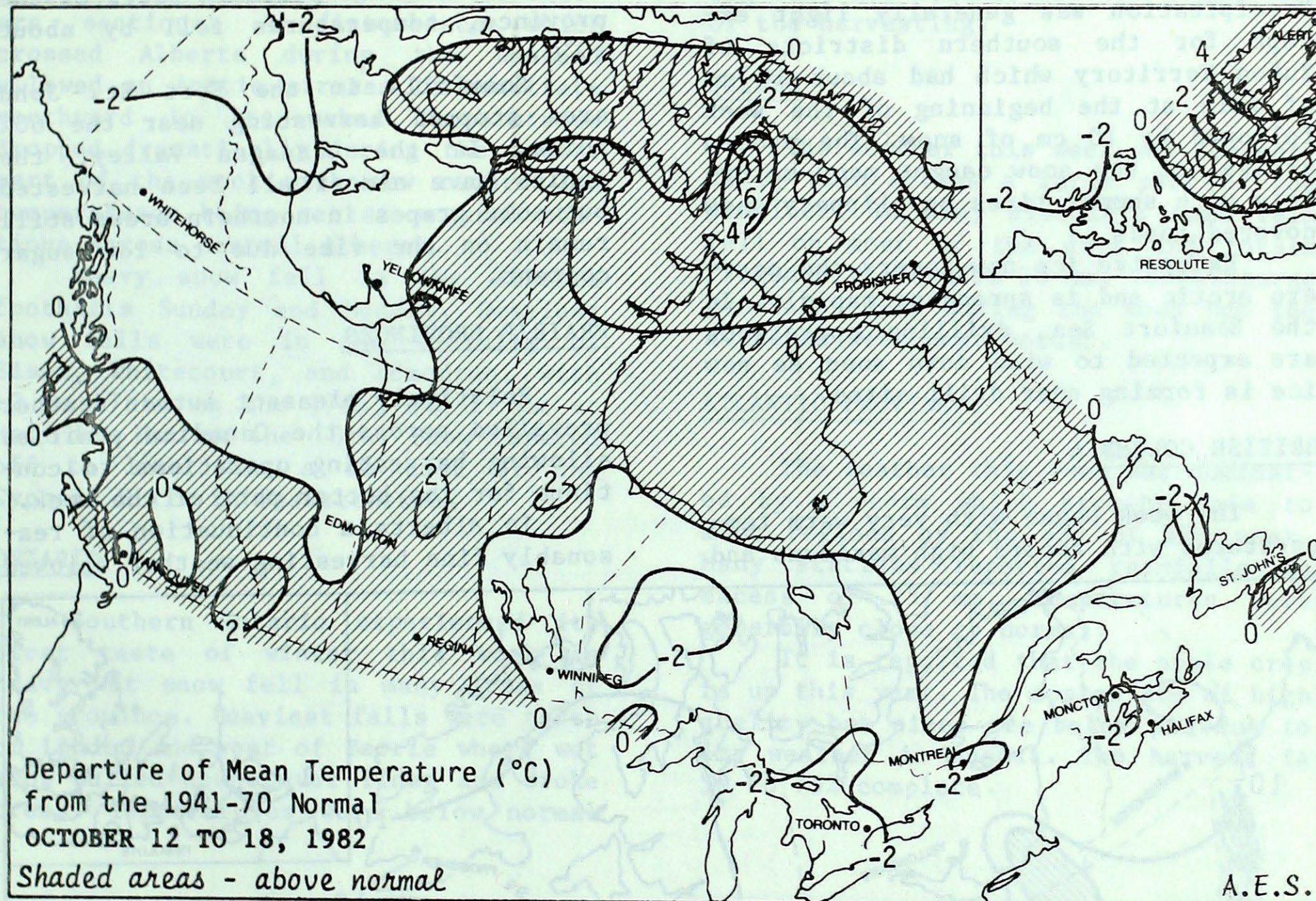
4905 DUFFERIN ST., DOWNSVIEW, ONTARIO M3H 5T4

Canada

OCTOBER 22, 1982

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## 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.

## 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

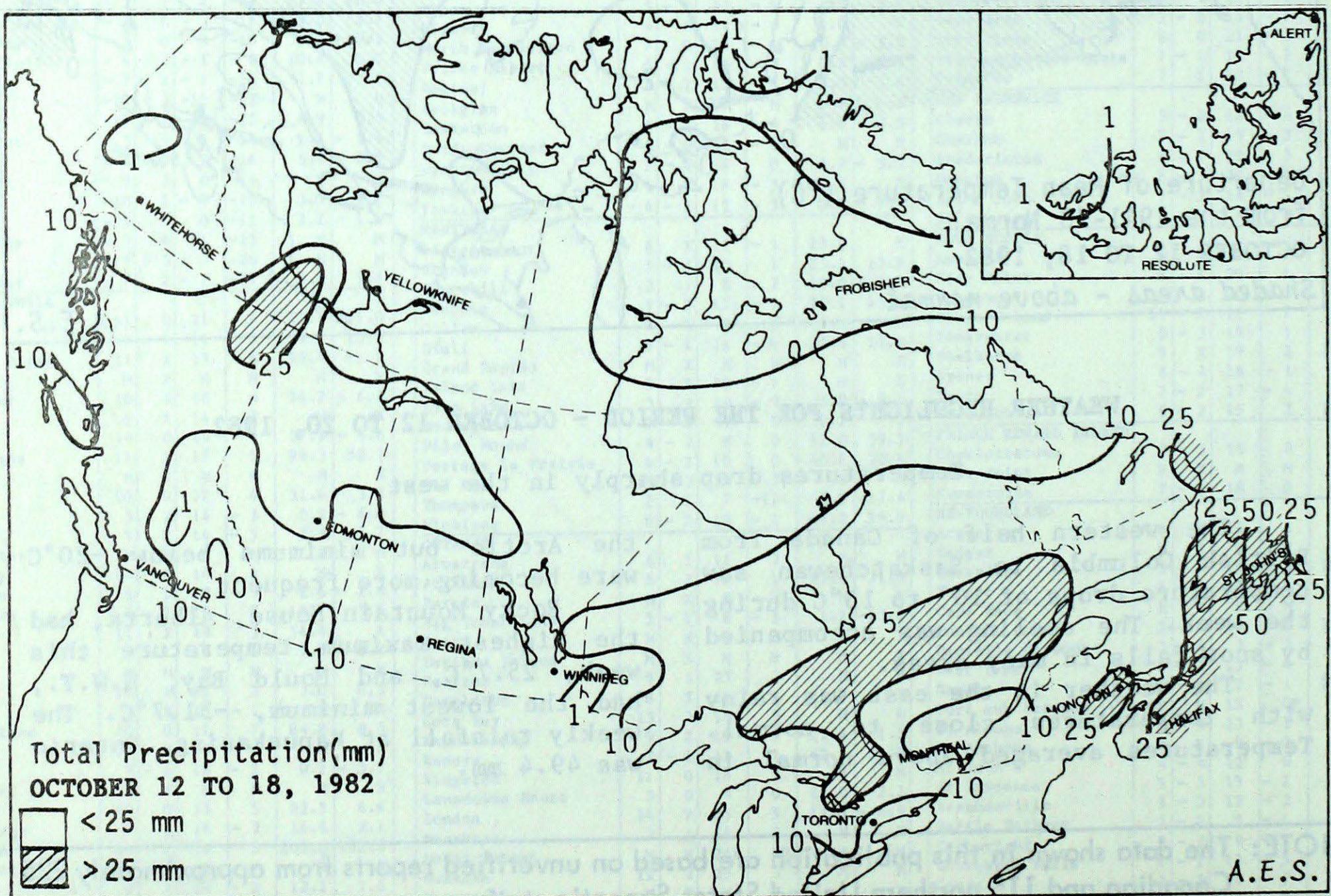
minimums at several stations on the 12th and 13th. Fort Nelson reached  $17.4^{\circ}\text{C}$  on the 12th beating the old record of  $17.2^{\circ}\text{C}$  set in 1947. By the end of the week, temperatures had fallen considerably. At Fort Nelson maximums dropped to below  $0^{\circ}\text{C}$  and 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.

## QUEBEC

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.

### CLIMATIC PERSPECTIVES

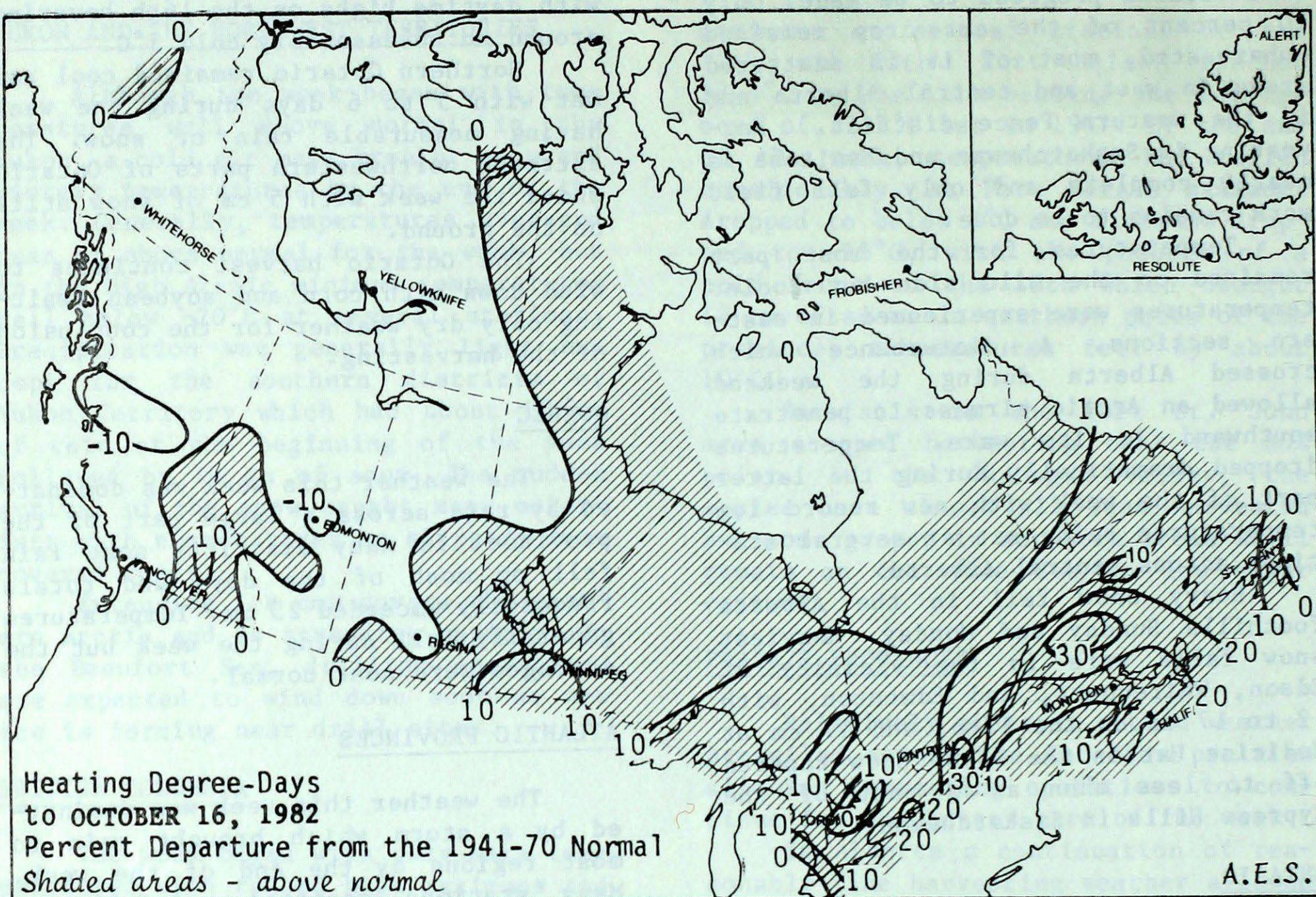
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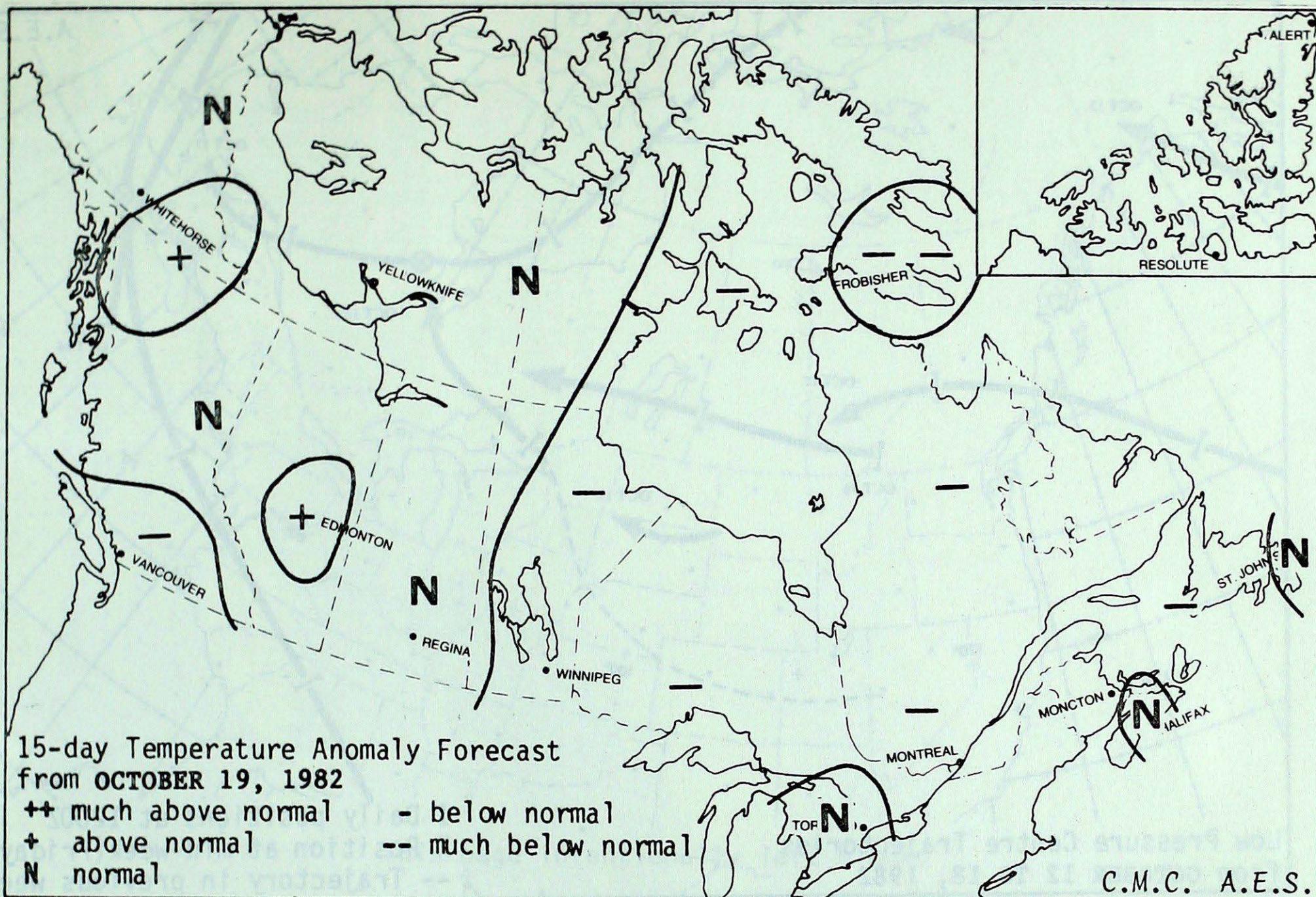
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## HEATING DEGREE-DAY SUMMARY TO OCTOBER 16, 1982

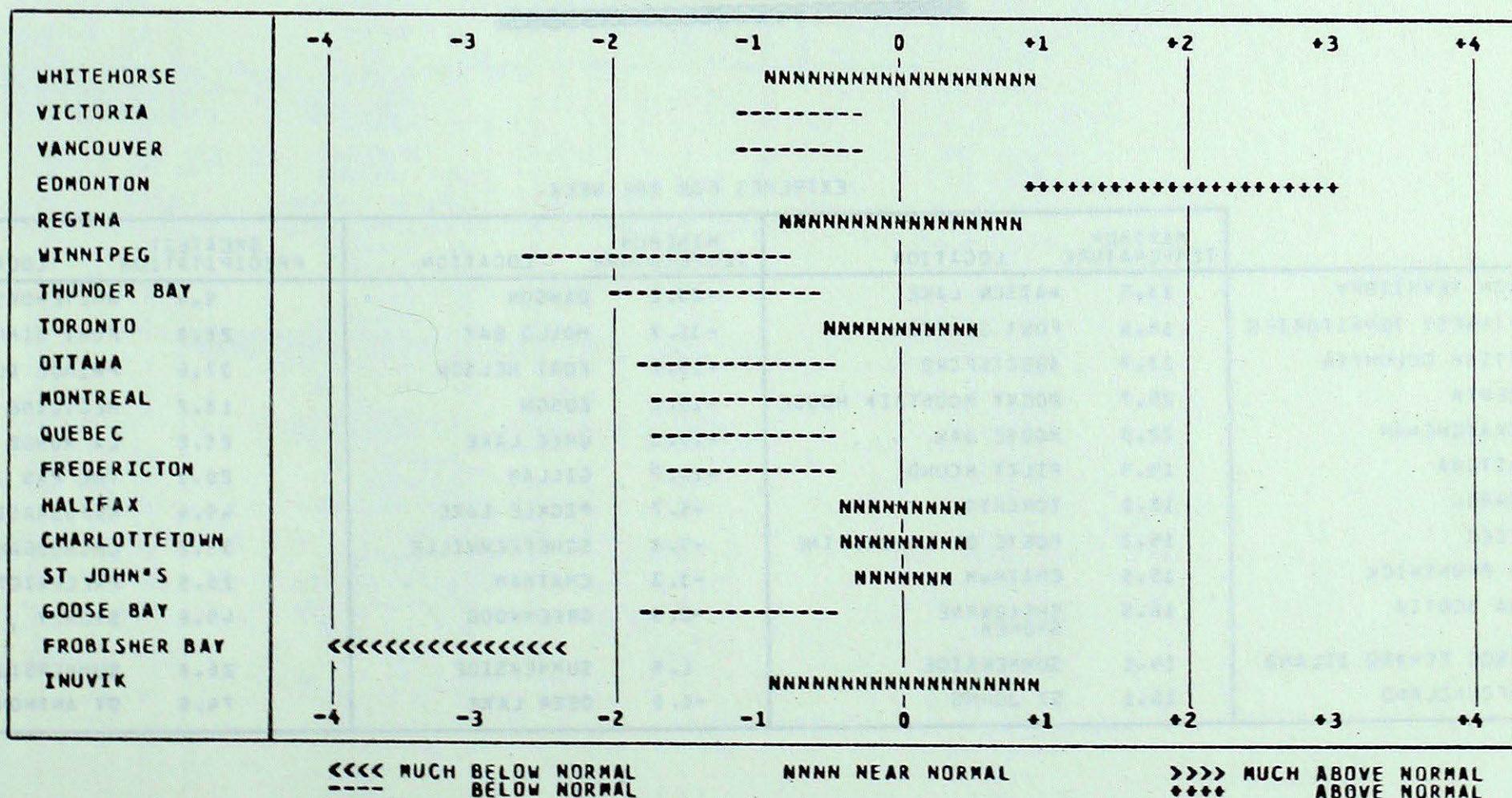


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	990.5	9.5	1938.0	58.0	103
Inuvik	635.0	-44.0	996.0	-61.0	94
Whitehorse	426.5	-34.5	721.0	-41.0	95
Vancouver	165.5	-19.5	258.0	-2.0	99
Edmonton	233.5	-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

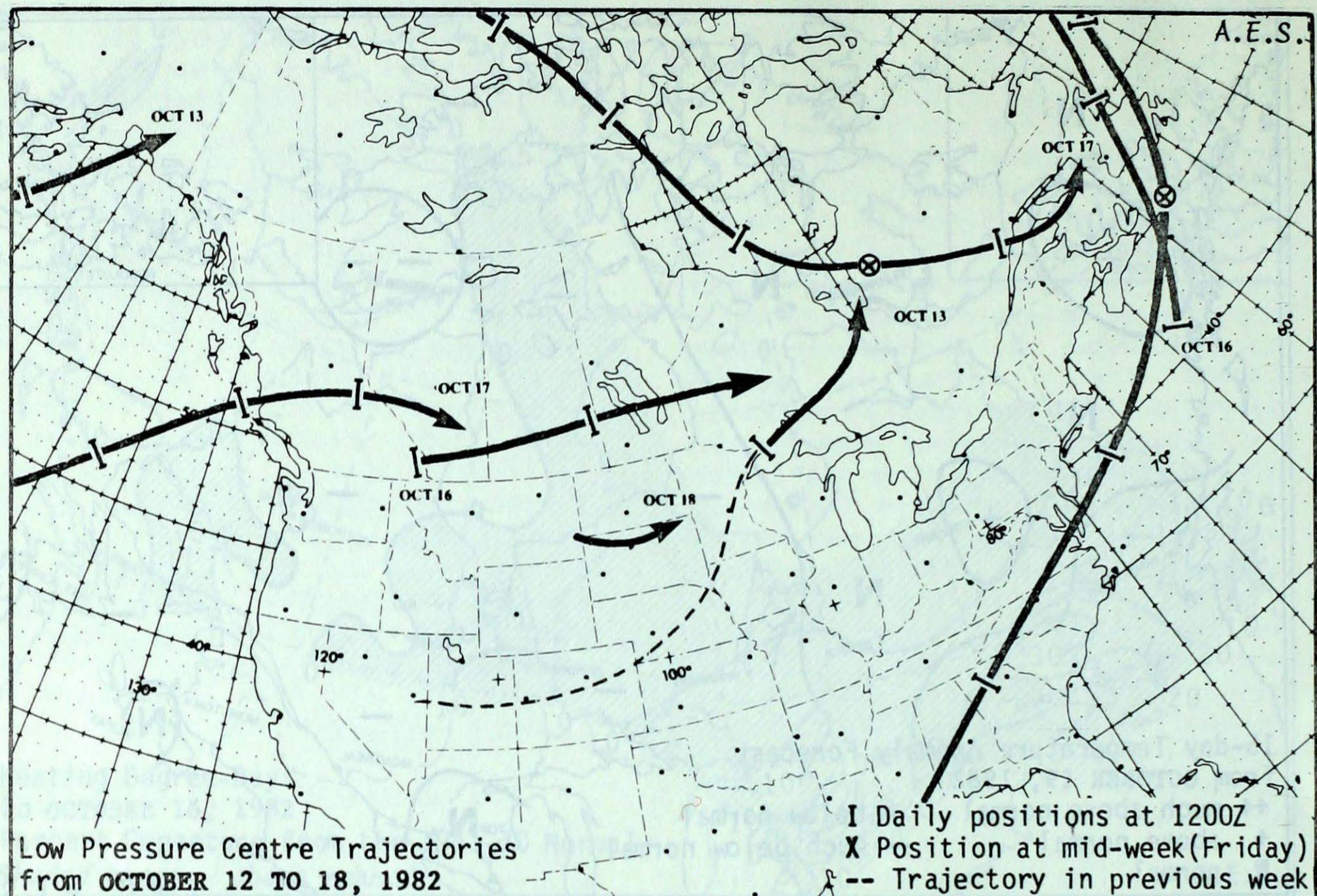
## TEMPERATURE ANOMALY FORECAST



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	MOLLO 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	PILCH MOUND	-10.7	GILLAM	20.3	THE PAS
ONTARIO	18.0	TORONTO	-5.7	PICKLE LAKE	49.4	KAFUSKASING
QUEBEC	15.2	FOSTE DE LA BALEINE	-5.8	SCHIEFFERVILLE	35.2	CHIBOUGAMAU
NEW BRUNSWICK	15.5	CHATHAM	-3.3	CHATHAM	25.5	FREDERICTON
NOVA SCOTIA	16.5	SHELBOURNE 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

Station	Temperature (°C)				Precip. (mm)		Station	Temperature (°C)				Precip. (mm)		Station	Temperature (°C)				Precip. (mm)		
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal		Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal		Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure	
TUXTON															PETAWAWA	6	X	14	-3	11.5	
Burwash	-3	-2	9	-19	1.0	-2.7	SMITHERS	6	1	17	-6	10.6	-2.9	PICKLE LAKE	1	-4	6	-6	12.6		
Dawson	-6	-3	10	-23	1.4	-4.8	STEWART	7	X	14	-2	M	X	RED LAKE	4	-2	11	-2	11.0		
Faro	M	X	M	M	M	X	TERRACE	8	1	14	-2	15.4	-43.1	SIMCOE	M	M	17P	3P	M		
Konakuk Beach	-13	-4	-4	-21	M	M	VANCOUVER	10	0	17	2	15.2	-6.2	SIOUX LOOKOUT	4	-2	11	-3	M		
Mayo	-3	-2	9	-17	0.4	-4.3	VICTORIA	10	0	20	2	3.0	-12.6	SUDBURY	6	-2	14	-1	11.8	-1	
Shingle Point	-12	-3	-4	-23	M	M	WILLIAMS LAKE	5	0	19	-6	3.6	-2.7	THUNDER BAY	6	-1	17	-4	23.6	1	
Teslin	M	X	8P	-9P	M	X	ALBERTA							TIMMINS	5	-2	15	-1	36.6	2	
Watson Lake	0	-1	14	-13	2.8	-5.5	BANFF	8	3	22	-6	5.4	-0.5	TORONTO	8	-2	18	-1	4.7	-1	
Whitehorse	0	-1	13	-12	9.4	5.1	CALGARY	9	2	25	-7	3.7	0.0	TRENTON	9	-2	18	-1	5.3	-1	
<b>NORTHWEST TERRITORIES</b>							COLD LAKE	6	0	22	-4	2.6	1.1	UPLANDS	M	X	M	M	M		
Cape Parry	M	M	OP	-12	M	M	CORONATION	6	0	23	-10	4.8	1.8	WAWA	5	X	15	-5	26.6	2	
Cape Young	-6	0	0	-18	M	M	EDMONTON INTL	6	0	25	-10	13.8	11.9	WIARTON	8	-2	15	1	43.9	2	
Clinton Point	-7	0	-1	-13	M	M	EDMONTON NAMAO	7	1	24	-6	6.4	2.4	WINDSOR	9	-3	17	-1	1.0	-1	
Coppermine	-7	-1	1	-17	6.9	0.6	EDSON	6	1	25	-15	11.4	9.0	QUEBEC							
Fort Reliance	-1	1	8	-7	1.8	-4.9	FORT CHIPEWYAN	3	1	19	-5	M	M	BAGOTVILLE	6	-1	11	1	33.0	1	
Fort Simpson	-1	0	18	-19	26.0	16.1	FORT McMURRAY	5	1	22	-6	12.3	8.0	BAIE-COMEAU	6	0	11	-5	32.9		
Fort Smith	1	0	17	-7	7.3	0.0	GRANDE PRAIRIE	4	0	25	-14	9.8	6.0	BLANC-SABLON	2	-2	7	-3	22.9	-	
Hay River	1	0	16	-7	6.0	-2.0	HIGH LEVEL	2	0	20	-13	11.8	10.5	BORDER	M	M	M	M	M		
Inuvik	-12	-4	0	-22	7.6	0.5	JASPER	7	1	21	-8	2.2	-5.1	CHEVREY	M	X	M	M	M		
Lady Franklin Point	-7	0	-1	-16	2.1	-3.1	LAC LA BICHE	M	X	M	M	X		CHIBOUGAMAU	4	X	9	-1	35.2		
Nicholson Peninsula	-8	0	-3	-16	M	M	LETHBRIDGE	9	1	25	-8	5.9	0.1	GASPE	6	X	15	-5	21.2		
Norman Wells	-6	-2	1	-15	3.7	-0.8	MEDICINE HAT	9	1	24	-3	18.7	16.1	GRINDSTONE ISLAND	8	0	11	4	23.7		
Port Radium	M	X	M	M	M	X	PEACE RIVER	4	-1	23	-11	16.9	13.3	INUKJUAK	1	1	6	-5	7.8	-	
Robertson Lake	M	X	M	M	M	X	RED DEER	8	2	25	-7	1.0	-2.8	KUUJUAQ	2	2	10	-6	3.2	-1	
Tuktoyaktuk	-9	-1	-2	-17	M	M	ROCKY MOUNTAIN HOUSE	7	1	26	-6	3.5	-1.9	LAC-EON	M	X	M	M	M		
Yellowknife	-1	0	8	-7	3.0	-5.2	SLAVE LAKE	5	0	23	-6	11.1	7.1	LA GRANDE-RIVIERE	3	X	13	-2	14.3		
Baker Lake	-4	2	3	-15	M	M	WHITECOURT	6	2	25	-10	17.2	13.4	MANIWAKI	7	-1	15	-3	8.0	-	
Coral Harbour	-4	2	1	-13	13.6	4.9	SASKATCHEWAN							MATAGAMI	5	X	12	-1	M		
Ennadai Lake	M	M	M	M	M	M	BROADVIEW	8	X	21	-3	2.2	X	MONT-JOLI	6	-1	13	-2	28.4	1	
Jenny Lind Island	-8	2	0	-24	M	M	BUFFALO NARROWS	5	2	20	-4	M	M	MONTRÉAL	8	-2	14	0	5.4	-	
Pelly Bay	-10	2	-2	-20	M	M	COLLINS BAY	0	X	13	-8	8.6	X	NATASHQUAN	4	-1	11	-5	20.2	-	
Rankin Inlet	-4	X	2	-13	13.6	X	CREE LAKE	2	X	17	-10	10.3	X	NITCHEQUON	3	2	11	-4	11.6	-	
Shepherd Bay	-8	3	0	-21	17.9	14.0	EASTEND	M	X	M	M	X		PARENT	M	X	M	M	M		
Broughton Island	-8	0	-5	-11	M	M	ELBOW	9	X	22	-2	M	M	PORT-MENIER	M	M	M	M	M		
Cape Dorset	-2	X	0	-10	16.0	X	ESTEVAN	9	2	22	-1	3.4	-1.2	POSTE-DE-LA-BALEINE	4	1	15	-1	16.8	-	
Cape Dyer	-9	-1	-2	-19	M	M	HUDSON BAY	6	1	20	-4	M	M	QUÉBEC	8	0	13	2	8.1	-	
Cape Hooper	M	M	-5P	-9	5.1	-2.7	KINDERSLEY	7	1	22	-3	8.5	7.9	RIVIÈRE-DU-Loup	M	M	M	M	M		
Clyde	-6	0	-2	-11	5.4	-2.2	LA RONGE	5	2	20	-5	25.2	19.3	ROBERVAL	7	0	14	0	27.2	1	
Dewar Lakes	-8	2	-4	-12	9.1	7.4	MEADOW LAKE	5	X	22	-4	10.7	X	SCHAFFERVILLE	0	0	7	-6	12.0	-	
Frobisher Bay	-2	2	3	-7	13.6	7.8	MOOSE JAW	8	0	23	-2	7.6	5.7	SEPT-ÎLES	5	0	11	-3	26.0		
Longstaff Bluff	-6	3	-4	-8	5.8	2.1	NIPAWIN	6	X	21	-3	4.2	X	SHERBROOKE	6	-3	15	-3	8.0	-	
Pond Inlet	-11	X	-4	-20	0.0	X	North Battleford	6	0	22	-3	6.0	2.6	STE-AGATHE-DES-MONTES	5	0	13	-2	24.0	-	
Alert	-16	4	-8	-23	M	M	PRINCE ALBERT	6	1	21	-2	3.9	-0.6	VAL-D'OR	5	-2	10	-2	23.0	-	
Eureka	-18	5	-12	-28	2.9	1.1	REGINA	7	X	M	M	X		NEW BRUNSWICK							
Gladman Point	-9	2	0	-23	6.2	3.1	ROCKGLEN	7	1	21	-2	1.0	-1.0	CHARLO	6	1	12	-3	22.0		
Hall Beach	-3	7	-1	-7	24.4	18.4	SASKATOON	8	1	21	-3	M	M	CHATHAM	7	-2	16	-3	14.4	-	
Mackar Inlet	-9	2	-3	-20	24.4	19.7	SWIFT CURRENT	8	1												