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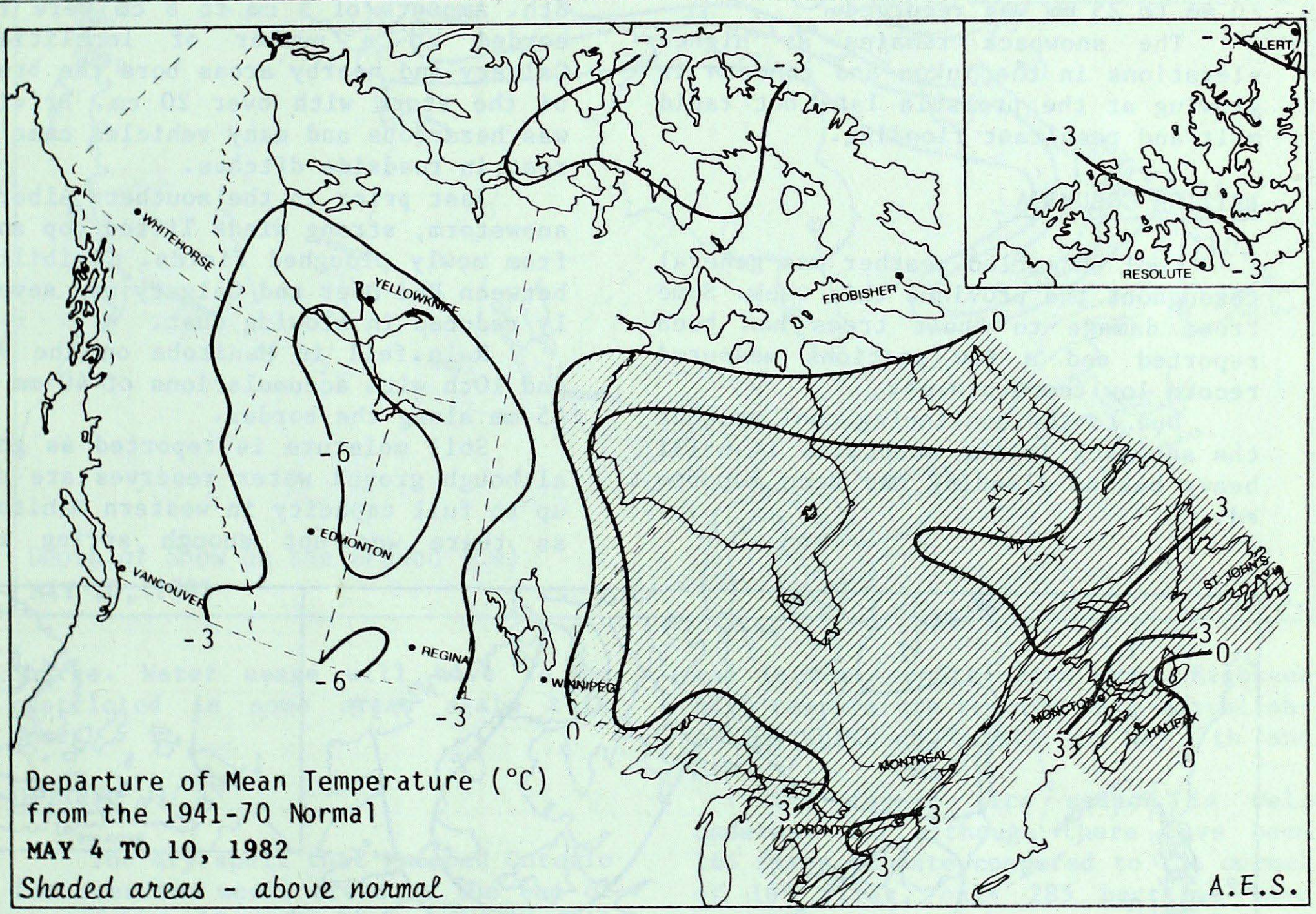
A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES

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

Canada

MAY 14, 1982 (Aussi disponible en français) VOL.4 NO.18



Departure of Mean Temperature (°C)
from the 1941-70 Normal
MAY 4 TO 10, 1982
Shaded areas - above normal

WEATHER HIGHLIGHTS FOR THE PERIOD - MAY 4 TO 10, 1982

Heavy snowfalls in Alberta

Heavy snowfalls were reported across southern Alberta at the beginning of the week as 10 cm to 15 cm fell. Southern Alberta was also hit by a spring snowstorm. Calgary and nearby areas recorded 20 cm and driving was hazardous. Just prior to the snowstorm, strong winds lifted top soil from newly ploughed fields. Visibility was severly reduced between Red Deer and Calgary.

Soil moisture reserves are reported as good in the Prairies although farm water resources are not up to full capacity in many areas due to a lack of spring recharge.

Temperatures varied from 29.8° at Montreal, Québec to -26.1° at Eureka, Northwest Territories. Langara, British Columbia recorded the greatest weekly precipitation total, 57.2 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 showing some warming, temperatures still cannot get up to seasonal normal. Mean temperatures were 1° to 6° below normal throughout the Territories.

Precipitation was light except in the southern Mackenzie District where 10 mm to 25 mm was recorded.

The snowpack remains at higher elevations in the Yukon and concern is growing at the probable late but rapid melt and resultant flooding.

BRITISH COLUMBIA

Cool unsettled weather was general throughout the province this week. Some frost damage to fruit trees has been reported and a few stations measured record low temperatures.

Due to the continuing cool weather the snowpack in the mountains is still heavy but no flooding has been reported.

PRAIRIE PROVINCES

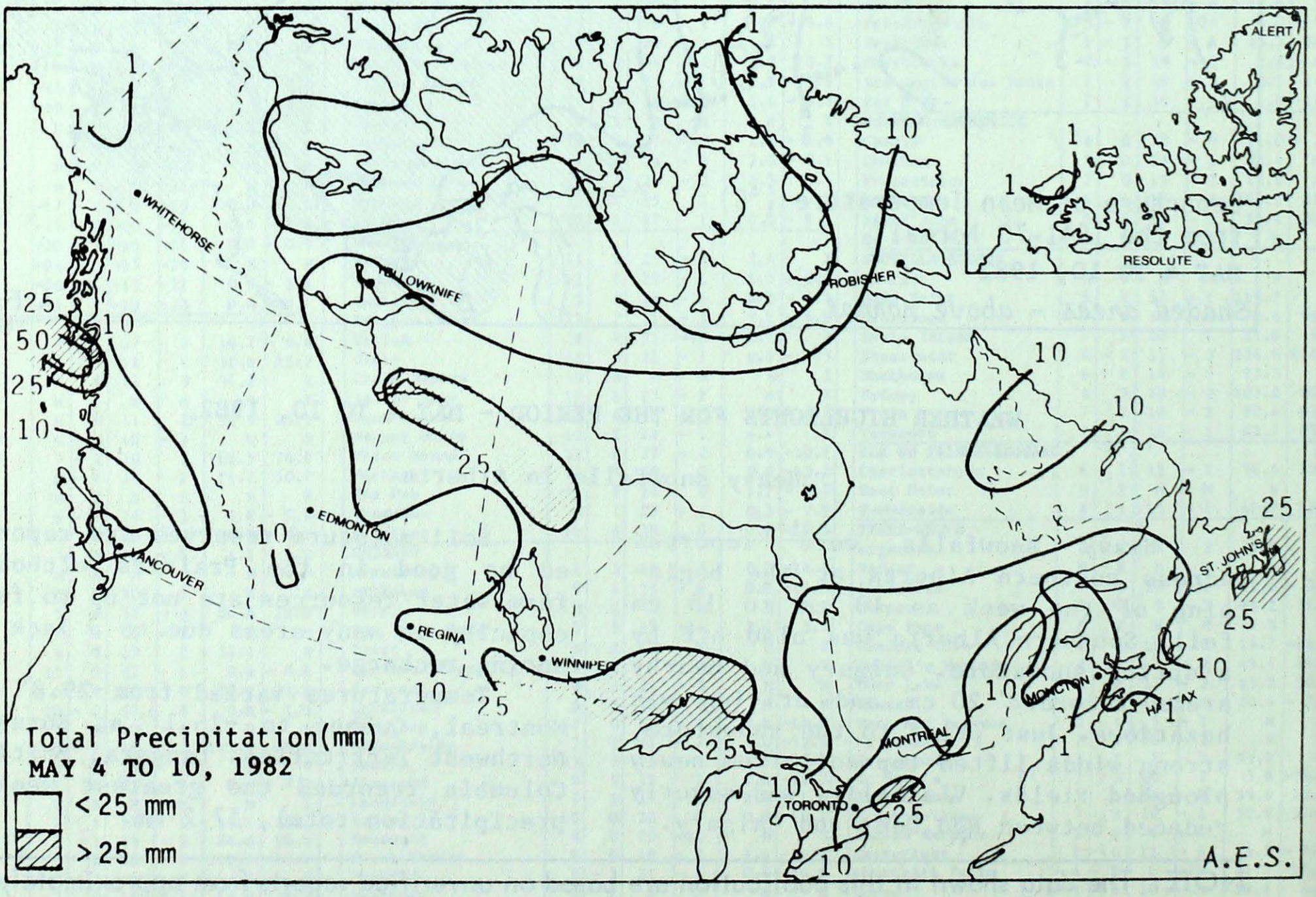
Heavy snowfalls were reported in northern areas at the beginning of the week. Amounts of 10 cm to 15 cm were recorded across northern Alberta dropping to 3 cm to 6 cm in Manitoba.

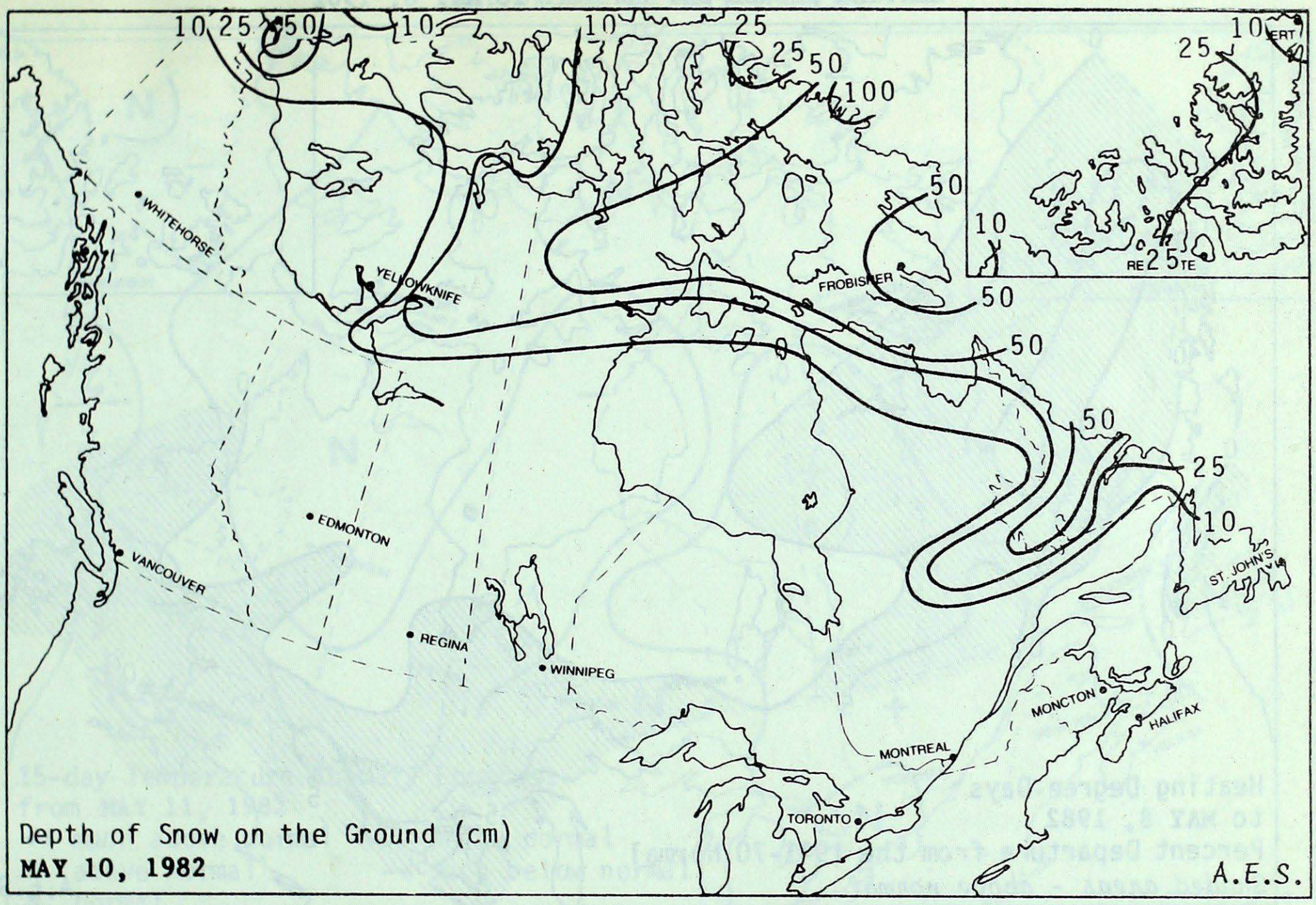
Southern Alberta was also hit by a spring snowstorm during the 7th and 8th. Amounts of 5 cm to 8 cm were recorded at a number of localities. Calgary and nearby areas bore the brunt of the storm with over 20 cm. Driving was hazardous and many vehicles came to rest in roadside ditches.

Just prior to the southern Alberta snowstorm, strong winds lifted top soil from newly ploughed fields. Visibility between Red Deer and Calgary was severly reduced in blowing dust.

Rain fell in Manitoba on the 9th and 10th with accumulations of 40 mm to 45 mm along the border.

Soil moisture is reported as good although ground water reserves are not up to full capacity in western Manitoba as there was not enough spring re-





Depth of Snow on the Ground (cm)
MAY 10, 1982

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charge. Water usage will have to be restricted in some areas again this year.

ONTARIO

The dry spell that gripped Ontario for over two weeks broke at the end of the week as 10 mm to 25 mm of rain fell in most southern regions giving much needed moisture to the newly sown fields. Many areas in eastern Ontario measured record daily precipitation amounts on May 8th. Rain also fell in the north with Sioux Lookout recording 33 mm on the 5th.

Temperatures were generally seasonable although dropping markedly with the advance of cold air following the warm rains.

QUEBEC

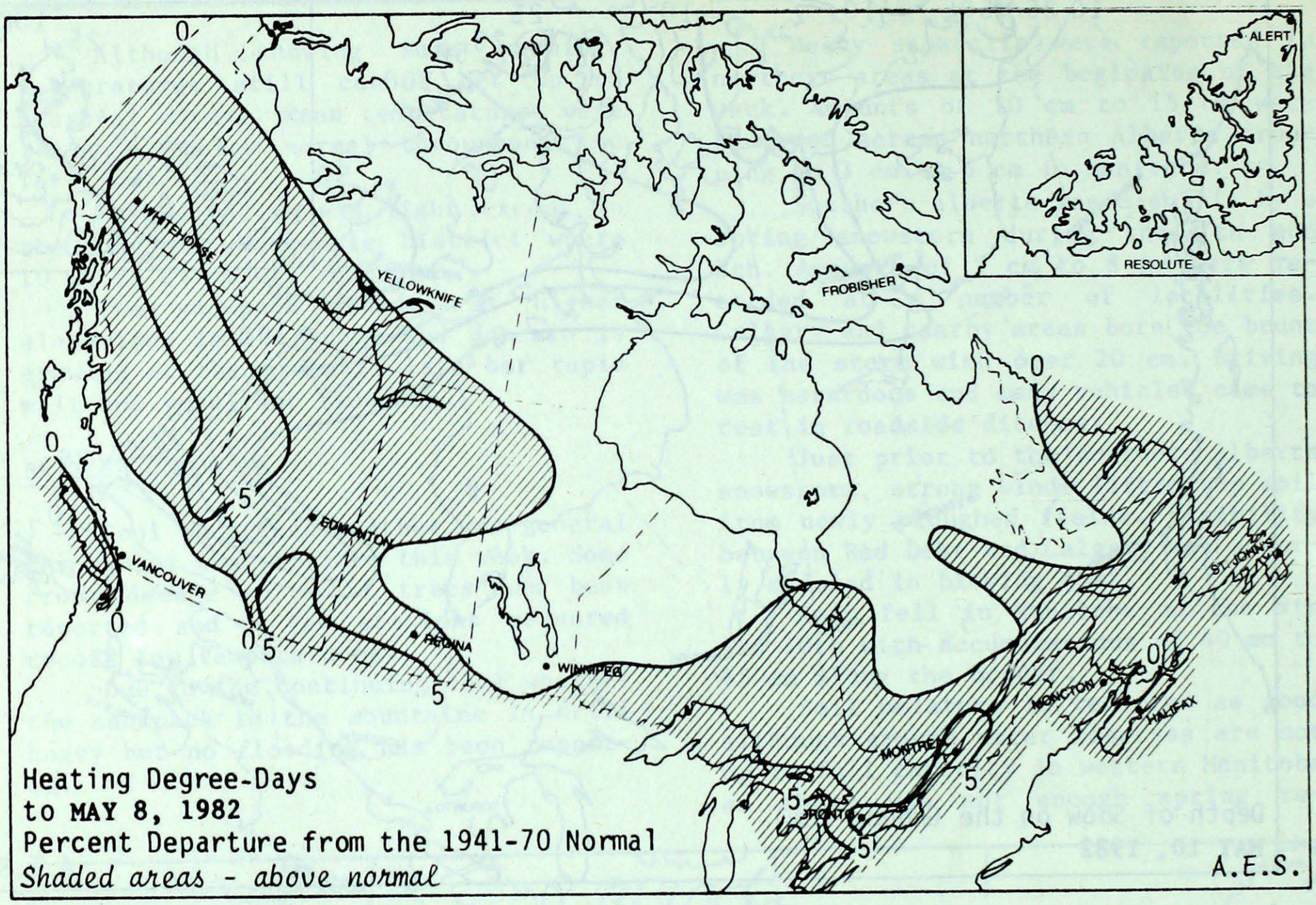
Temperatures were generally above normal and were more than 6° above normal in the Lac-Ste.-Jean area. Eighteen high temperature records were established in southern Québec on May 7th and 8th.

The forest fire season is well underway and although there have been 166 fires to date compared to the normal of 168 fires, only 285 hectares have been burned over compared to the normal 747 hectares.

ATLANTIC PROVINCES

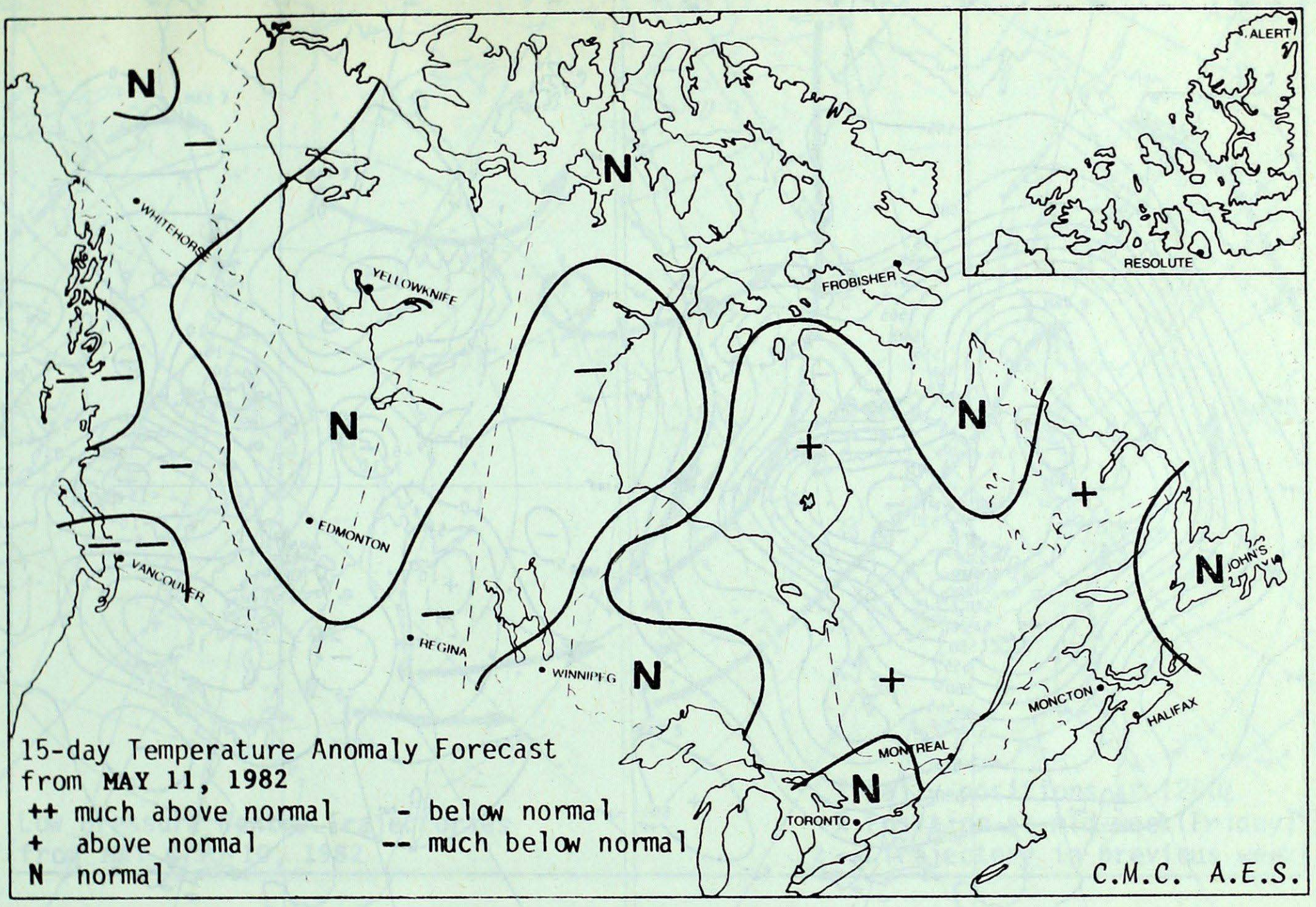
The Atlantic Provinces enjoyed generally fair spring weather this week. Some daily maximum temperature records were set. Yarmouth reached 23° on May 10th (old record 21° in 1957). Three stations in Newfoundland set new records on May 8th; the most notable was Hopedale with 15° (old record 11° in 1944).

HEATING DEGREE-DAY SUMMARY TO MAY 8, 1982

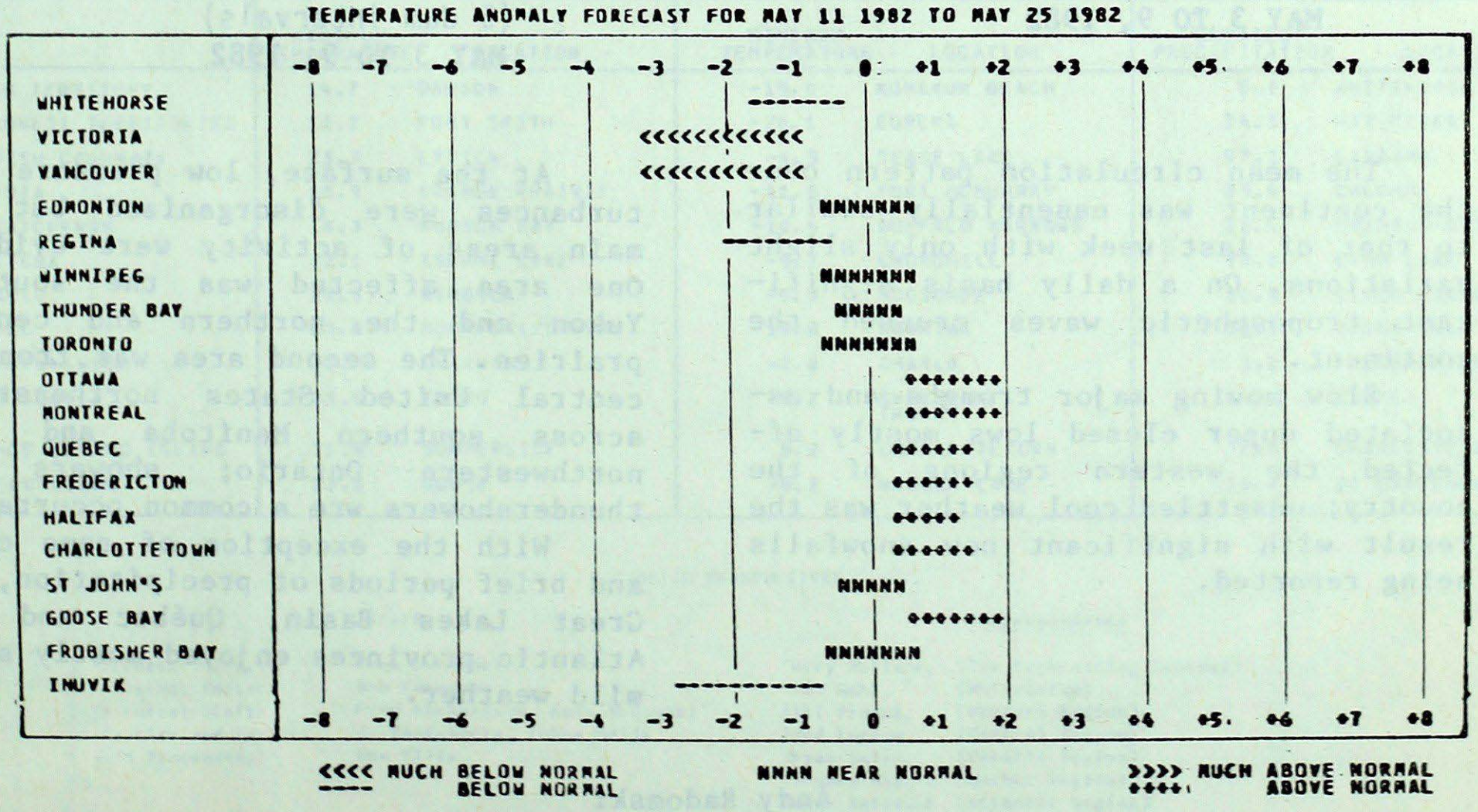


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	280.5	19.5	11077.5	-294.5	97
Inuvik	193.5	-2.5	9307.0	-235.0	98
Whitehorse	123.0	18.0	6974.5	499.5	108
Vancouver	64.5	6.5	2818.5	12.5	100
Edmonton Mun	92.0	20.0	5415.0	85.0	102
Calgary	97.5	11.5	5261.0	249.0	105
Regina	81.5	2.5	5872.0	204.0	104
Winnipeg	57.5	-21.5	5610.5	-45.5	99
Thunder Bay	72.0	-16.0	5557.5	155.5	103
Windsor	17.0	-34.0	3794.5	323.5	109
Toronto	40.5	-23.5	4242.5	331.5	108
Ottawa	32.5	-32.5	4675.0	162.0	104
Montreal	37.0	-23.0	4621.5	296.5	107
Quebec	57.0	-19.0	5102.0	254.0	105
Saint John, N.B.	79.5	-14.5	4578.5	134.5	103
Halifax	90.0	-1.0	3914.0	111.0	103
Charlottetown	79.0	-22.0	4336.5	30.5	101
St. John's, Nfld.	83.5	-28.5	4301.0	1.0	100

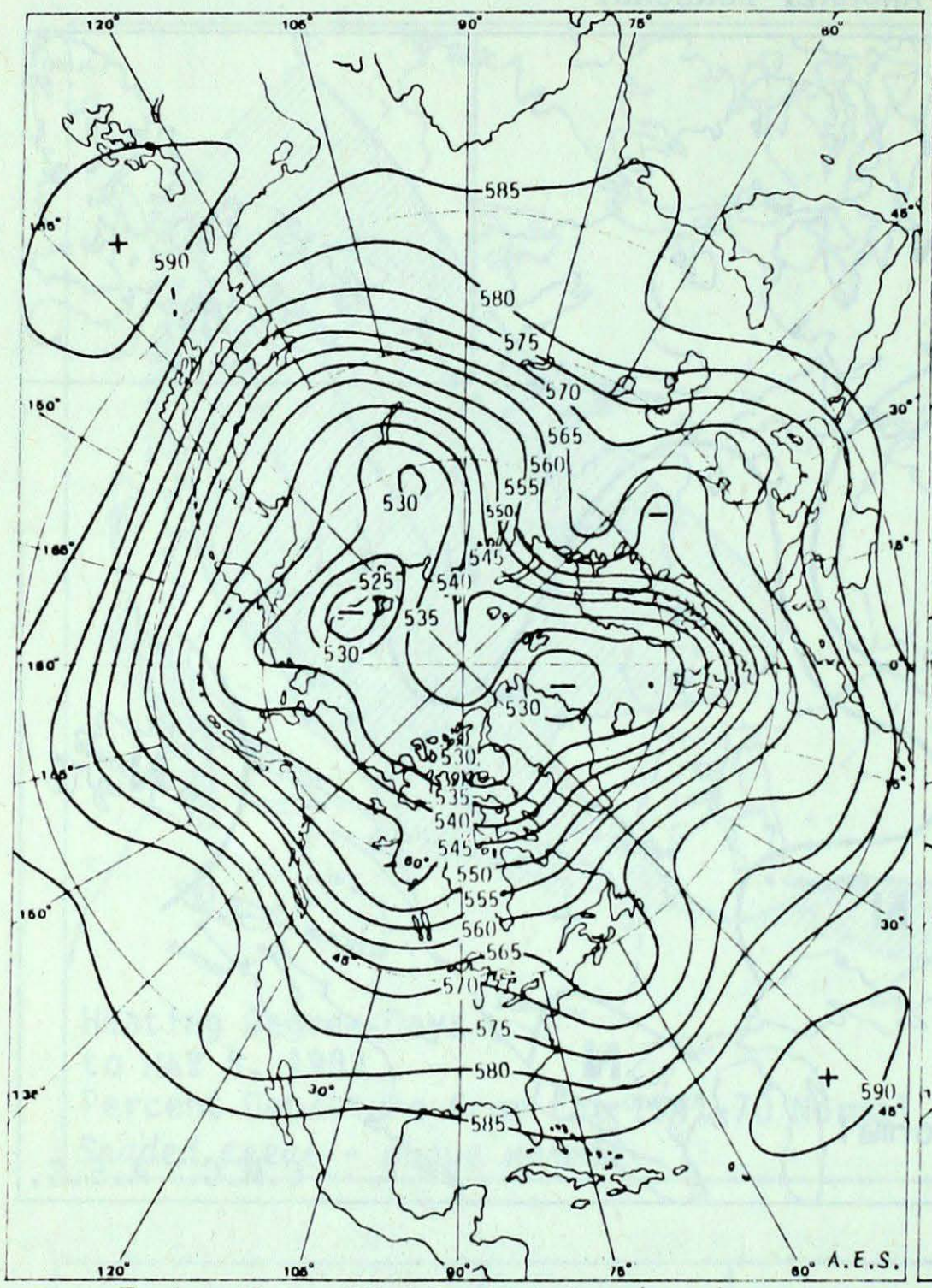
TEMPERATURE ANOMALY FORECAST



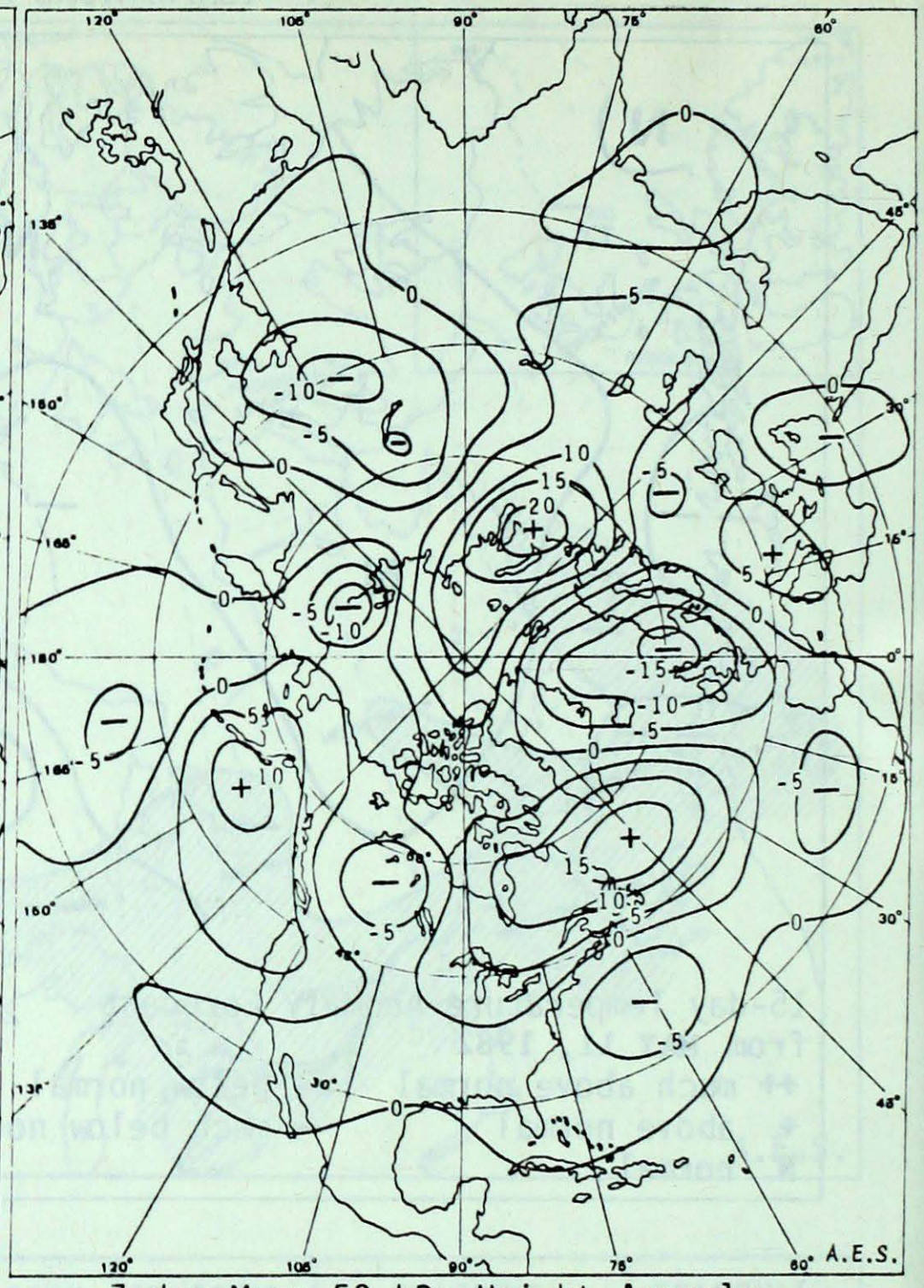
TEMPERATURE ANOMALY FORECAST FOR MAY 11 1982 TO MAY 25 1982



ATMOSPHERIC CIRCULATION



7-day Mean 50 kPa Height (dam)
MAY 3 TO 9, 1982



7-day Mean 50 kPa Height Anomaly
(5 dam intervals)
MAY 3 TO 9, 1982

The mean circulation pattern over the continent was essentially similar to that of last week with only slight variations. On a daily basis significant tropospheric waves crossed the continent.

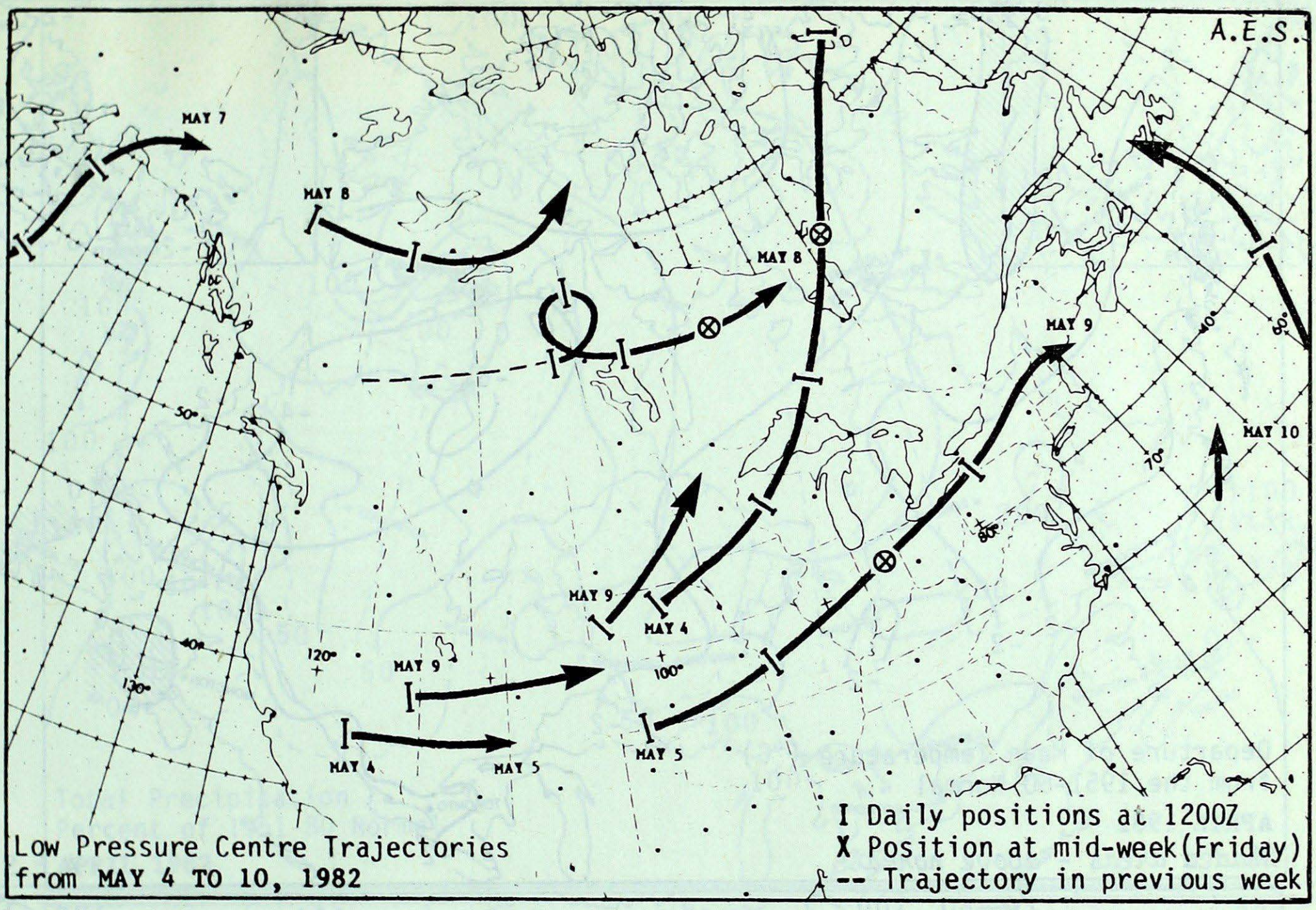
Slow moving major troughs and associated upper closed lows mostly affected the western regions of the country; unsettled cool weather was the result with significant new snowfalls being reported.

At the surface, low pressure disturbances were disorganized but two main areas of activity were evident. One area affected was the southern Yukon and the northern and central prairies. The second area was from the central United States northeastward across southern Manitoba and into northwestern Ontario; showers and thundershowers wre a common occurrance.

With the exception of some cloud and brief periods of precipitation, the Great Lakes Basin, Québec and the Atlantic provinces enjoyed mostly sunny mild weather.

Andy Radomski

LOW PRESSURE CENTRE TRAJECTORIES



Low Pressure Centre Trajectories
from **MAY 4 TO 10, 1982**

EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	14.7	DAWSON	-19.6	KOMAKUK BEACH	5.8	WHITEHORSE
NORTHWEST TERRITORIES	12.2	FORT SMITH	-26.1	EUREKA	24.3	HAY RIVER
BRITISH COLUMBIA	23.7	LYTTON	-4.9	DEASE LAKE	57.2	LANGARA
ALBERTA	18.9	GRANDE PRAIRIE	-11.6	FORT MCMURRAY	25.4	CALGARY
SASKATCHEWAN	18.3	HUDSON BAY	-10.4	BUFFALO NARROWS	28.4	URANIUM CITY
MANITOBA	22.1	ISLAND LAKE	-9.7	CHURCHILL	30.0	LYNN LAKE
ONTARIO	29.5	WINDSOR	-5.5	MOOSONEE	39.9	SIOUX LOOKOUT
QUEBEC	29.8	MONTREAL/DORVAL	-12.2	KOARTAK	30.6	BAGOTVILLE
NEW BRUNSWICK	25.7	CHATHAM	-2.0	CHARLO	3.0	FREDERICTON
NOVA SCOTIA	23.5	TRURO	-1.2	SHELBURNE TRURO	14.4	SYDNEY
PRINCE EDWARD ISLAND	21.6	SUMMERSIDE	0.0	CHARLOTTETOWN	2.8	CHARLOTTETOWN
NEWFOUNDLAND	23.0	GOOSE	-5.2	WABUSH LAKE	35.4	ST LAWRENCE

CLIMATIC PERSPECTIVES

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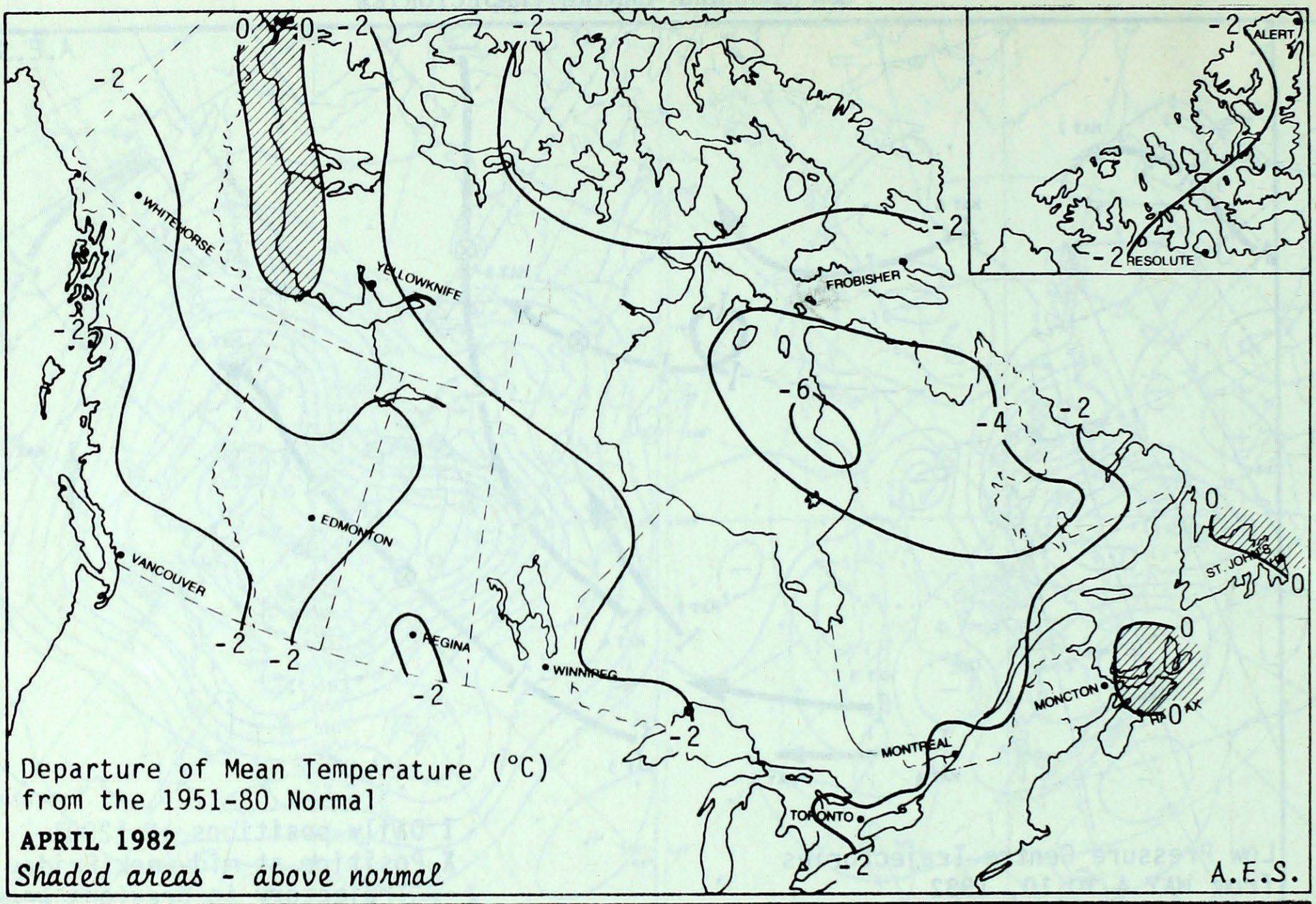
SEASONAL MAPS

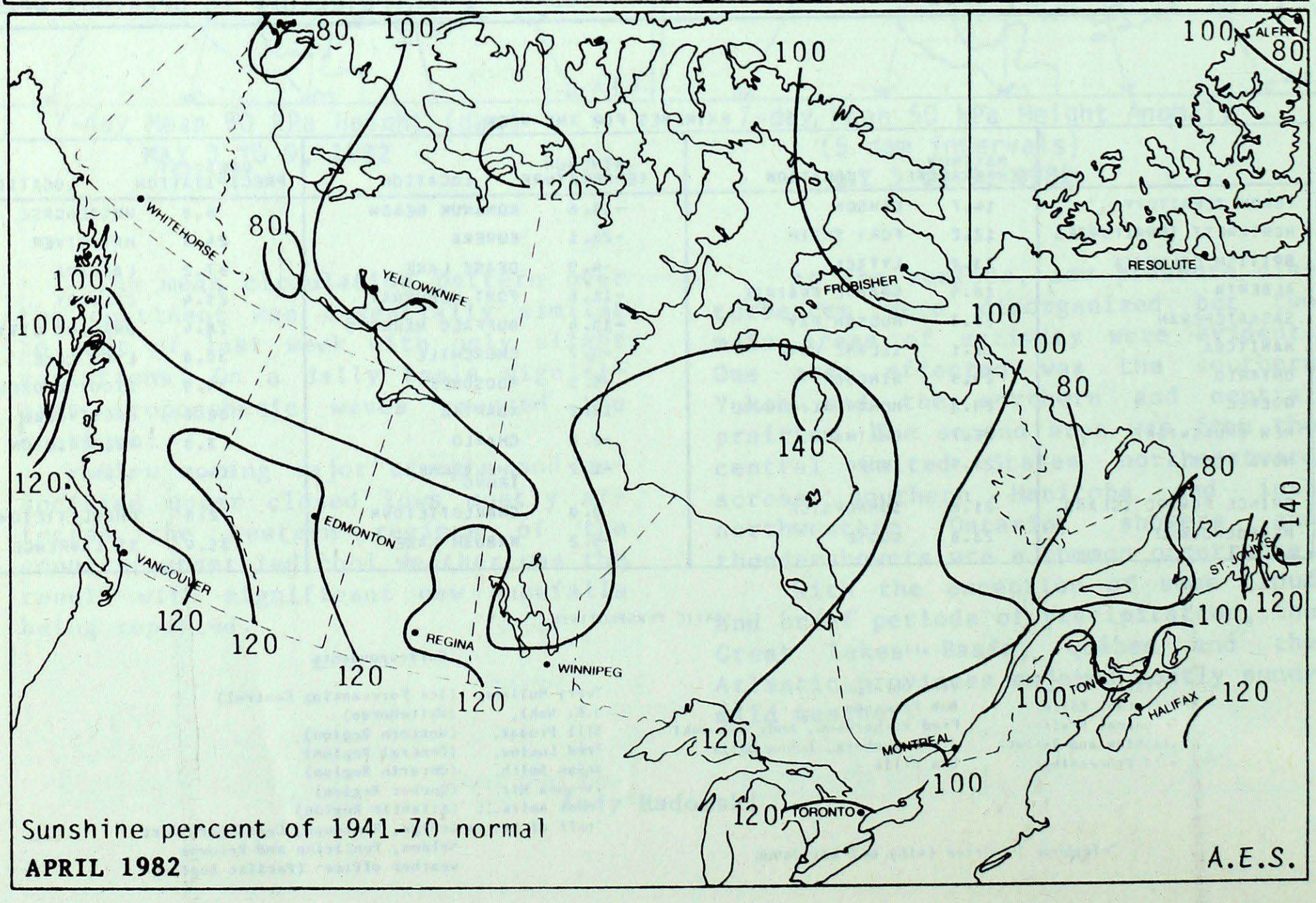


Departure of Mean Temperature (°C)
from the 1951-80 Normal

APRIL 1982

Shaded areas - above normal

A.E.S.



Sunshine percent of 1941-70 normal

APRIL 1982

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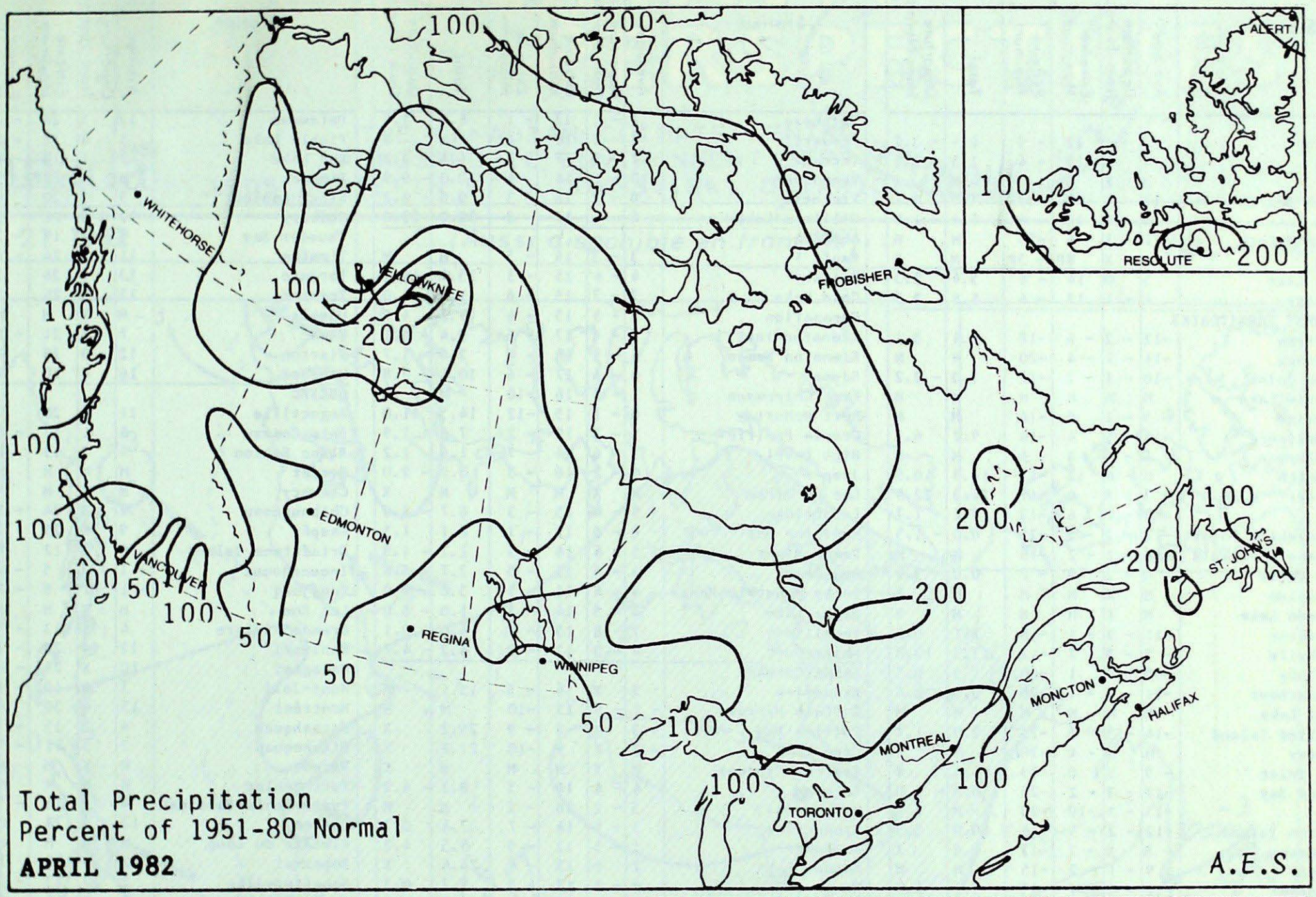
SEASONAL MAPS



Total Precipitation
Percent of 1951-80 Normal
APRIL 1982

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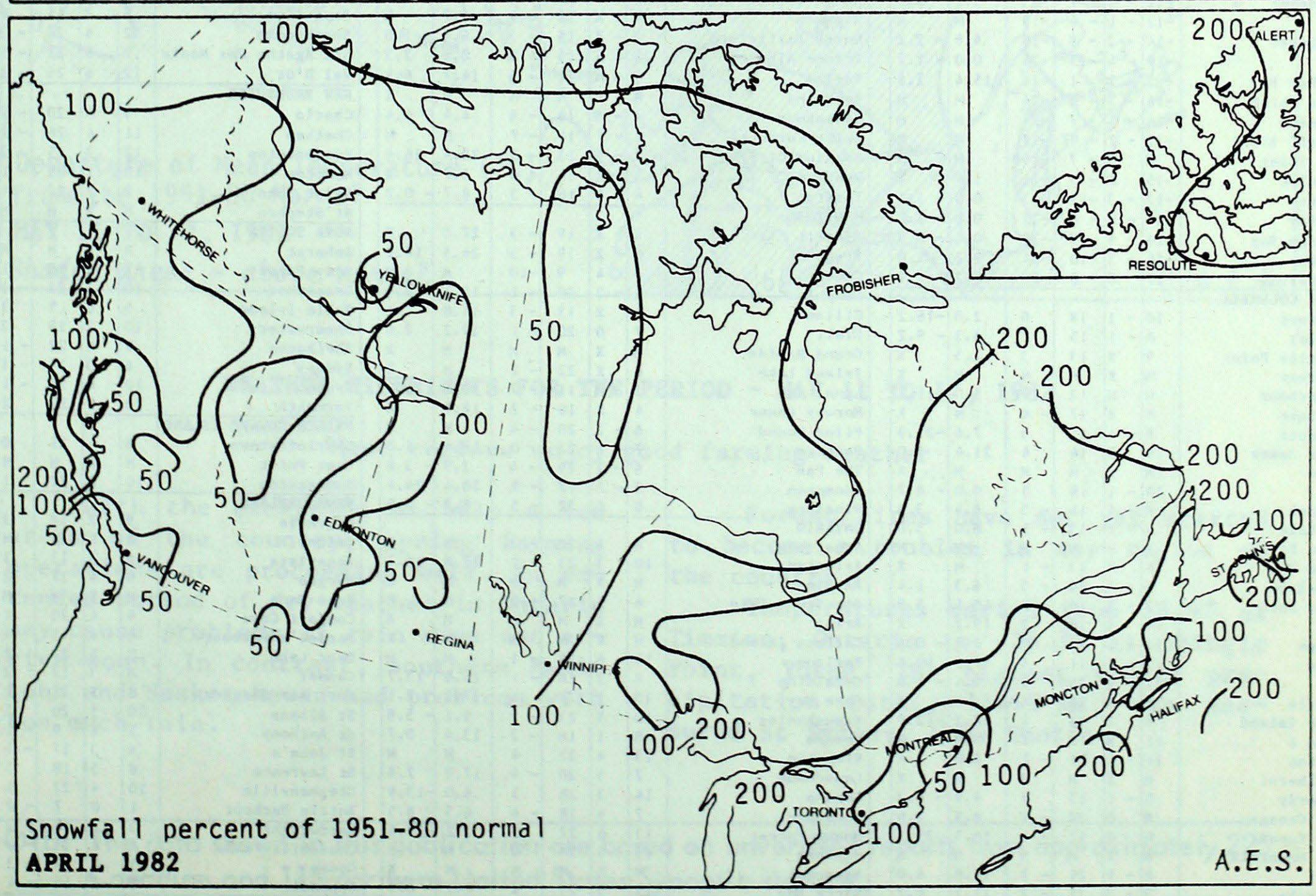

Snowfall percent of 1951-80 normal
APRIL 1982

A.E.S.

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. MAY 11, 1982

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
YUKON						
Burwash	3	- 1	12	- 9	0.4	- 3.2
Dawson	5	0	15	- 4	1.5	- 3.1
Faro	M	X	M	M	M	X
Komakuk Beach	-12	- 4	- 6	-20	1.0	0.1
Mayo A	5	0	13	- 4	5.4	1.9
Shingle Point	-11	- 3	- 6	-20	M	M
Teslin	M	X	8P	- 5P	M	X
Watson Lake	5	0	14	- 4	5.4	2.3
Whitehorse	4	- 1	12	- 6	5.8	3.5
NORTHWEST TERRITORIES						
Cape Parry	-12	- 2	- 6	-18	7.1	5.1
Cape Young	-11	- 1	- 4	-20	M	M
Clinton Point	-10	- 1	- 2	-17	1.0	- 2.2
Contwoyto Lake	M	M	M	M	M	M
Coppermine	- 9	- 1	0	-16	M	M
Fort Reliance	- 6	- 5	4	-16	9.2	6.1
Fort Simpson	1	- 6	9	- 6	M	M
Fort Smith	0	- 6	12	-11	14.3	10.9
Hay River	- 3	- 7	6	-11	24.3	22.9
Inuvik	- 6	- 1	6	-13	2.2	- 1.7
Lady Franklin Point	-12	- 2	- 3	-25	0.0	- 1.5
Nicholson Peninsula	-10	- 2	- 2	-18	M	M
Norman Wells	0	- 2	9	- 7	0.0	- 3.9
Port Radium	M	X	M	M	M	X
Robertson Lake	M	X	M	M	M	X
Tuktoyaktuk	-11	- 3	- 1	-18	2.1	0.7
Yellowknife	- 3	- 5	7	-12	13.3	10.8
Baker Lake	-10	0	1	-20	1.3	0.5
Coral Harbour	-11	- 1	- 1	-20	0.0	- 2.4
Ennadai Lake	M	M	M	M	M	M
Jenny Lind Island	-16	- 3	- 5	-22	2.0	1.7
Pelly Bay	M	M	- 4	-20P	M	M
Rankin Inlet	- 9	X	0	-19	5.6	X
Shepherd Bay	-17	- 3	- 2	-25	0.0	- 1.0
Alert	-15	- 1	-10	-23	M	M
Broughton Island	-12	- 2	- 5	-16	10.0	5.5
Cape Dorset	- 8	X	- 2	-12	0.6	X
Cape Dyer	- 9	- 1	- 2	-15	M	M
Cape Hooper	-12	- 2	- 7	-15	3.7	- 4.3
Clyde	-12	- 1	- 4	-19	M	M
Dewar Lakes	-14	- 2	- 9	-18	4.8	- 2.2
Eureka	-19	- 4	-13	-26	0.0	- 1.2
Frobisher Bay	- 7	- 1	1	-16	15.4	7.6
Gladman Point	-16	- 3	- 2	-24	M	M
Hall Beach	-16	- 4	- 7	-24	M	M
Longstaff Bluff	-12	- 2	- 9	-17	M	M
Mackar Inlet	M	M	- 7	-19P	M	M
Pond Inlet	-15	X	- 9	-21	1.4	X
Resolute	-17	- 3	-12	-23	0.0	- 1.6
Byron Bay	-14	- 3	- 8	-22	0.0	- 1.2
Cambridge Bay	-16	- 4	- 9	-24	0.6	- 0.8
Mould Bay	-16	- 3	-10	-24	2.2	1.0
Sachs Harbour	-11	0	- 5	-20	0.2	- 1.1
BRITISH COLUMBIA						
Abbotsford	10	- 1	18	0	2.0	-16.2
Alert Bay	8	- 1	15	2	4.3	- 9.2
Amphitrite Point	9	X	13	3	1.5	X
Blue River	M	X	M	M	M	X
Bull Harbour	M	M	12	7P	5.0	-11.1
Burns Lake	6	X	17	- 4	M	X
Cape Scott	8	- 1	12	5	7.6	-21.9
Cape St James	8	0	14	4	21.4	4.0
Clinton	M	X	M	M	M	X
Comox	10	- 1	18	3	0.0	- 8.7
Cranbrook	6	- 4	16	- 3	8.4	3.3
Dease Lake	4	- 1	13	- 5	8.0	5.0
Estevan Point	M	M	M	M	M	M
Ethelda Bay	6	X	13	- 1	M	X
Fort Nelson	4	- 4	14	- 5	6.3	1.4
Fort St John	5	- 3	14	- 2	10.5	5.9
Hope	11	X	18	2	19.2	X
Kamloops	11	- 1	23	0	2.2	- 0.4
Langara	7	- 1	11	4	57.2	40.6
Lytton	12	- 2	24	3	0.4	- 1.8
Mackenzie	M	X	18	- 4P	M	X
McInnes Island	8	- 1	13	4	18.2	-12.9
Nanaimo A	11	X	19	1	M	X
Penticton	11	- 1	21	- 2	8.0	3.8
Port Alberni	M	X	M	M	M	X
Port Hardy	8	- 1	13	3	4.9	- 8.3
Prince George	8	0	20	- 1	8.9	1.6
Prince Rupert	6	0	11	- 1	56.5	29.3
Puntzi Mountain	M	X	M	M	M	X
Quesnel	8	- 1	21	- 3	10.8	6.0
Revelstoke	9	- 3	21	- 2	15.2	6.2
Sandspit	7	- 1	11	4	10.7	- 0.3
Smithers	7	- 1	17	- 1	6.9	1.8
Stewart	7	X	16	1	M	X
Terrace	7	- 2	17	- 1	4.4	- 4.2
Vancouver	10	- 1	16	4	0.0	- 9.9
Victoria	9	- 2	16	3	0.0	- 6.2
Williams Lake	6	- 1	17	- 2	30.0	25.0
ALBERTA						
Banff	3	- 3	14	- 5	M	M
Calgary	4	- 4	15	- 3	25.4	14.1
Cold Lake	2	- 7	15	- 6	1.1	- 4.0
Coronation	3	- 5	15	- 6	9.2	4.6
Edmonton Intl	4	- 4	17	- 6	0.4	- 6.1
Edmonton Namao	4	- 5	16	- 4	2.4	- 1.7
Edson	4	- 4	17	- 6	10.1	- 7.8
Fort Chipewyan	- 1	- 8	16	-10	M	M
Fort McMurray	0	- 7	15	-12	14.5	11.0
Grande Prairie	5	- 3	19	- 2	7.6	1.9
High Level	2	- 6	14	- 7	1.4	1.2
Jasper	6	- 2	16	- 3	3.2	- 2.0
Lac La Biche	M	X	M	M	M	X
Lethbridge	5	- 4	15	- 3	6.7	- 4.9
Medicine Hat	6	- 5	15	- 1	8.1	1.5
Peace River	5	- 4	16	- 5	1.2	- 1.8
Red Deer	4	- 4	15	- 5	2.7	- 5.6
Rocky Mountain House	4	- 4	15	- 5	3.0	- 9.0
Slave Lake	4	- 5	14	- 4	1.0	- 8.0
Vermilion	1	- 8	15	- 7	4.6	0.1
Whitecourt	4	- 3	17	- 2	4.2	- 4.7
SASKATCHEWAN						
Broadview	3	X	14	- 5	13.1	X
Buffalo Narrows	- 1	- 9	13	-10	M	M
Colling Bay	- 3	X	6	- 9	25.2	X
Cree Lake	- 2	X	9	-10	21.8	X
Eastend Cypress	M	X	M	M	M	X
Estevan	4	- 4	16	- 3	8.2	- 4.2
Hudson Bay	5	- 2	18	- 2	M	M
Kindersley	3	- 5	14	- 7	7.4	0.7
La Ronge	1	- 5	12	- 5	9.5	4.2
Meadow Lake	2	X	15	- 6	24.6	X
Moose Jaw	4	- 5	13	- 5	9.7	0.3
Nipawin	4	X	18	- 4	5.2	X
North Battleford	2	- 7	15	- 7	6.4	1.0
Prince Albert	3	- 5	15	- 5	8.8	2.3
Regina	4	- 4	11	- 5	14.7	6.3
Rockglen	M	X	M	M	M	X
Saskatoon	4	- 5	14	- 6	4.4	- 1.4
Swift Current	1	- 7	11	- 7	M	M
Uranium City	- 2	- 5	13	- 9	28.4	26.4
Wynyard	3	X	14	- 4	5.7	X
Yorkton	4	- 4	16	- 3	8.7	- 0.2
MANITOBA						
Biasett	8	X	19	- 1	27.0	X
Brandon	6	- 2	19	- 3	26.5	14.2
Churchill	- 1	4	9	-10	M	M
Dauphin	6	- 2	20	- 1	18.1	8.1
Gillam	4	X	13	- 5	14.8	X
Gimli	7	0	20	- 1	17.2	2.0
Grand Rapids	M	X	M	M	M	X
Island Lake	6	X	22	- 2	M	X
Lynn Lake	1	- 4	11	- 7	30.0	24.0
Norway House	4	X	16	- 2	18.8	X
Pilot Mound	6	- 2	20	- 4	M	M
Portage	7	- 1	22	0	15.4	1.0
The Pas	4	- 2	19	- 4	2.9	- 3.8
Thompson	3	- 2	17	- 9	28.4	24.4
Winnipeg	8	0	22	- 5	8.3	- 3.9
ONTARIO						
Armstrong	8	4	20	- 3	M	M
Atikokan	10	3	23	- 2	27.8	14.7
Barrie	M	X	M	M	M	X
Big Trout Lake	6	5	17	- 5	M	M
Britt	M	X	M	M	M	X
Caribou Island	M	X	M	M	M	X
Earlton	13	6	28	- 1	M	M
Geraldton	8	3	18	- 1	26.6	15.7
Gore Bay	10	2	21	1	17.2	2.1
Kapuskasing	10	5	23	- 1	9.1	- 5.8
Kenora	8	1	18	- 2	13.4	0.7
Kingston	13	4	22	4	M	M
Lansdowne	7	5	20	- 4	17.2	7.8
London	14	3	28	3	6.0	-13.9
Moosonee	7	4	18	- 6	6.5	- 8.5
Mount Forest	13	5	27	0	2.2	-19.4
Muskoka	13	5	28	0	M	M
Nagagami	M	X	M	M	M	X
North Bay	13	5	25	4	7.2	- 8.9
Ottawa	15	4	29	5	21.8	9.4
Petawawa	13	X	28	- 2	11.8	X
Pickle Lake	8	4	18	- 2	16.4	4.4
Red Lake	7	1	18	- 1	24.6	13.4
Simcoe	M	M	28P	3P	M	M
Sioux Lookout	9	3	20	0	39.9	26.8
Sudbury	12	5	26	2	10.2	- 4.9
Thunder Bay	8	1	19	- 2	36.2	21.6
Timmins	11	5	24	- 1	1.6	-13.8
Toronto	13	3	26	3	13.2	- 2.6
Trenton	13	3	26	2	27.5	13.1
Upsala	M	X	M	M	M	X
Wawa	7	X	21	- 5	M	X
Wiarton	12	3	28	1	9.7	- 6.0
Windsor	16	4	30	6	4.6	-15.9
QUÉBEC						
Bagotville	11	4	26	0	30.6	14.4
Baie Comeau	6	1	13	- 3	12.0	- 8.7
Blanc Sablon	4	3	15	0	M	M
Border	M	M	M	M	M	M
Chevery	M	X	M	M	M	X
Chibougamau	9	X	24	- 3	6.8	X
Gaspé	9	X	25	- 2	0.0	X
Grindstone Island	6	2	12	0	7.7	- 8.3
Inoucdjouac	- 1	3	5	- 7	M	M
Kuujjuaq	- 1	1	8	- 7	11.0	2.5
Lac Eon	M	X	M	M	M	X
Grande Riviere	4	X	13	- 7	13.4	X
Maniwaki	12	4	28	- 1	15.8	6.5
Matagami	10	X	26	- 6	M	X
Mont-Joli	7	1	19	- 3	9.8	- 7.2
Montréal	15	4	30	4	7.4	- 5.3
Natashquan	4	2	15	- 3	8.6	-13.8
Nitchequon	2	3	11	- 9	17.2	5.2
Parent	M	X	M	M	M	X
Port Menier	M	M	M	M	M	M
Poste-de-la-Baleine	4	5	16	- 5	14.2	0.0
Québec	12	3	28	0	21.0	1.3
Rivière du Loup	M	M	M	M	M	M
Roberval	12	6	30	1	9.4	- 5.2
Schefferville	2	3	13	- 7	8.1	- 1.8
Sept-Iles	6	2	14	0	0.2	-17.4
Sherbrooke	12	4	27	- 3	24.6	3.8
Ste Agathe des Monts	12	6	27	- 1	6.8	-14.7
Val D'Or	12	6	26	- 1	9.4	- 1.9
NEW BRUNSWICK						
Charlo	9	4	20	- 2	0.0	-25.9
Chatham	11	4	26	- 1	0.0	-16.4
Fredericton	12	3	25	2	3.0	-11.2
Moncton	10	1	25	1	0.5	-13.6
Saint John	9	2	22	1	0.0	-21.2
St Stephen	M	X	M	M	M	X
NOVA SCOTIA						
Amherst	M	X	M	M	M	X
Eddy Point	7	X	16	1	2.4	X
Greenwood	10	1	23	- 1	6.4	- 7.5
Sable Island	5	0	9	3	7.0	-11.5
Shearwater	10	2	19	2	0.2	-21.7
Shelburne	9	X	22	- 1	0.0	X
Sydney	6	0	15	- 1	14.4	- 9.7
Truro	10	4	24	- 1	M	M
Yarmouth	10	2	23	2	0.0	-23.9
PRINCE EDWARD ISLAND						
Charlottetown	8	1	21	0	2.8	-14.4
East Point	M	X	M	M	M	X
Summerside	10	2	22	1	0.0	-15.5
NEWFOUNDLAND						
Argentia	8	X	18	3	7.9	X
Badger	M	X	M	M	M	X
Bonavista	6	3	13	1	12.0	- 1.6
Burgeo	8	4	17	2	19.5	-14.6
Cape Race	M	X	M	M	M	X
Comfort Cove	8	4	20	1	20.5	- 1.3
Daniel's Harbour	6	3	18	1	12.0	3.1
Deer Lake	9	5	22	2	12.7	- 6.4
Gander	8	3	17	2	21.2	7.4
Port aux Basques	8	5	17	1	5.4	-13.4
St Albans	10	5	20	1	M	M
St Anthony	3	X	9	- 1	24.5	X
St John's	8	3	17	- 1	27.2	8.7
St Lawrence	8	5	18	3	35.4	3.3
Stephenville	10	4	22	1	5.6	- 7.4
Battle Harbour	1	0	7	- 2	16.2	3.5
Cartwright	3	1	16	- 2	10.6	- 2.5
Churchill Falls	4	4	19	- 4	M	M
Goose	5	2	23	- 3	11.2	- 2.9
Hopedale	3	2	15	- 4	6.5	- 9.0
Wabush Lake	3	3	15	- 5	22.2	8.3

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