

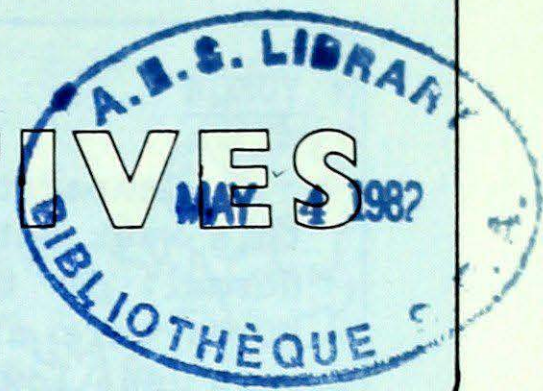


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A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES



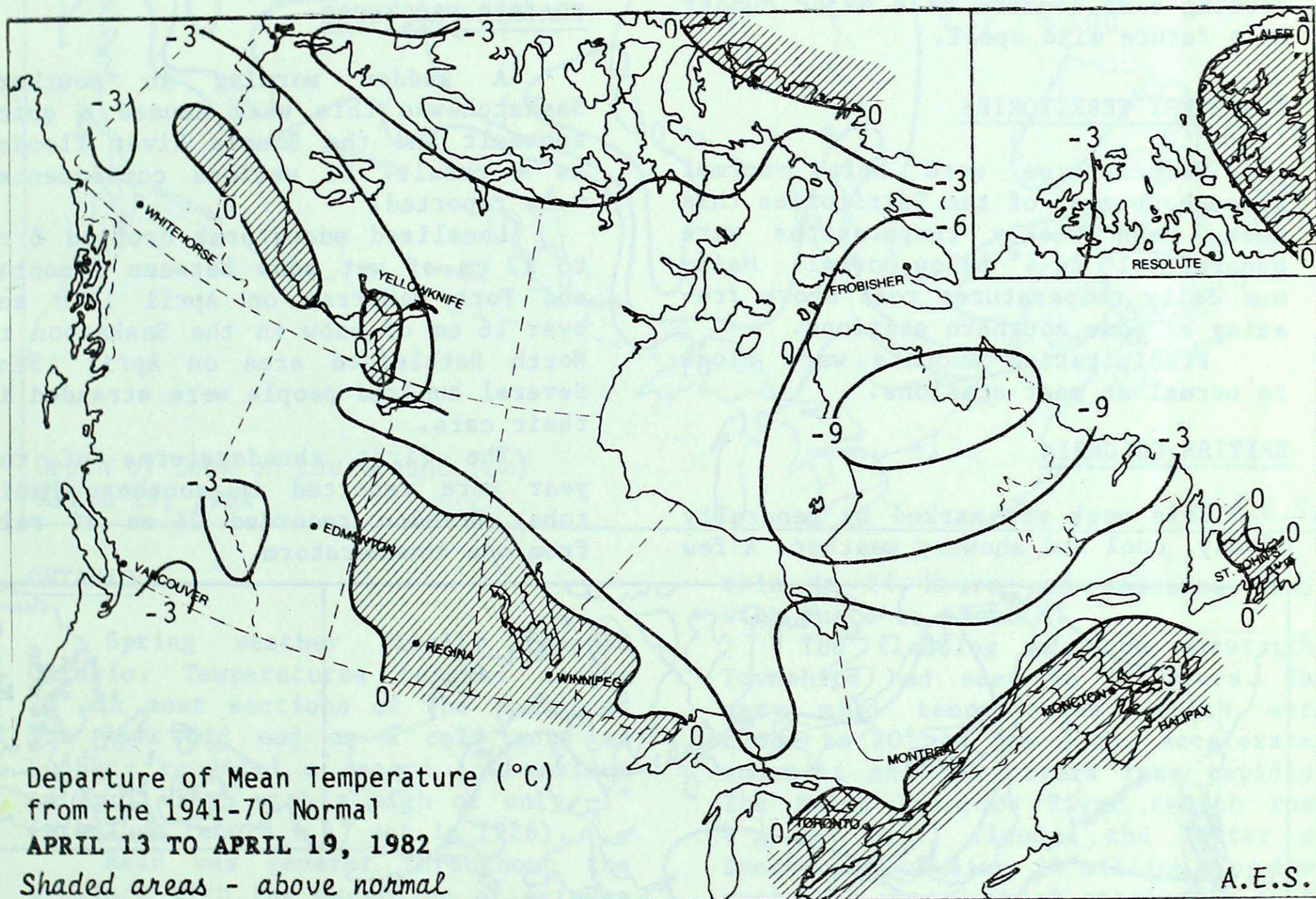
Canada

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

APRIL 23, 1982

(Aussi disponible en français)

VOL. 4 NO. 15



Departure of Mean Temperature (°C)
from the 1941-70 Normal
APRIL 13 TO APRIL 19, 1982
Shaded areas - above normal

A.E.S.

WEATHER HIGHLIGHTS FOR THE PERIOD - APRIL 13 TO 19, 1982

Severe flooding hits parts of Québec

Very mild air accompanied by heavy rain at the end of the week resulted in flooding that caused millions of dollars of damage in the Eastern Townships and the Beauce region of Québec. Some areas of the Eastern Townships recorded 80 mm of rain in 24 hours and the flooding was the worst in 42 years. The centre of Sherbrooke was flooded resulting in \$4 million in damage.

The very cold weather which dominated both Yukon and British Columbia retarded the snowmelt. As a result there is some concern that flooding could occur in some areas if rapid warming takes place.

Across the country the mercury varied from a maximum of 23.8° at Montréal, Québec to a minimum of -36.2° at Eureka, Northwest Territories.

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

YUKON

Temperatures moderated in Yukon this week but were still 2° to 4° below normal. In the south maximum temperatures were above freezing but minimums were as low as -17°. North of the Ogilvie Mountains temperatures were well below freezing throughout the day. As a result snow melt is well retarded causing some concern of a major runoff in a future mild spell.

NORTHWEST TERRITORIES

Temperatures were below normal throughout most of the Territories this week. Mean weekly temperatures were generally 1° to 4° below normal. Maximum daily temperatures rose above freezing at some southern stations.

Precipitation amounts were close to normal at most stations.

BRITISH COLUMBIA

This week was marked by generally cloudy, cool and showery weather. A few

low temperature records were set. Many areas recorded strong winds and some damage was reported at Kamloops on April 17th when winds gusted to 66 km/h.

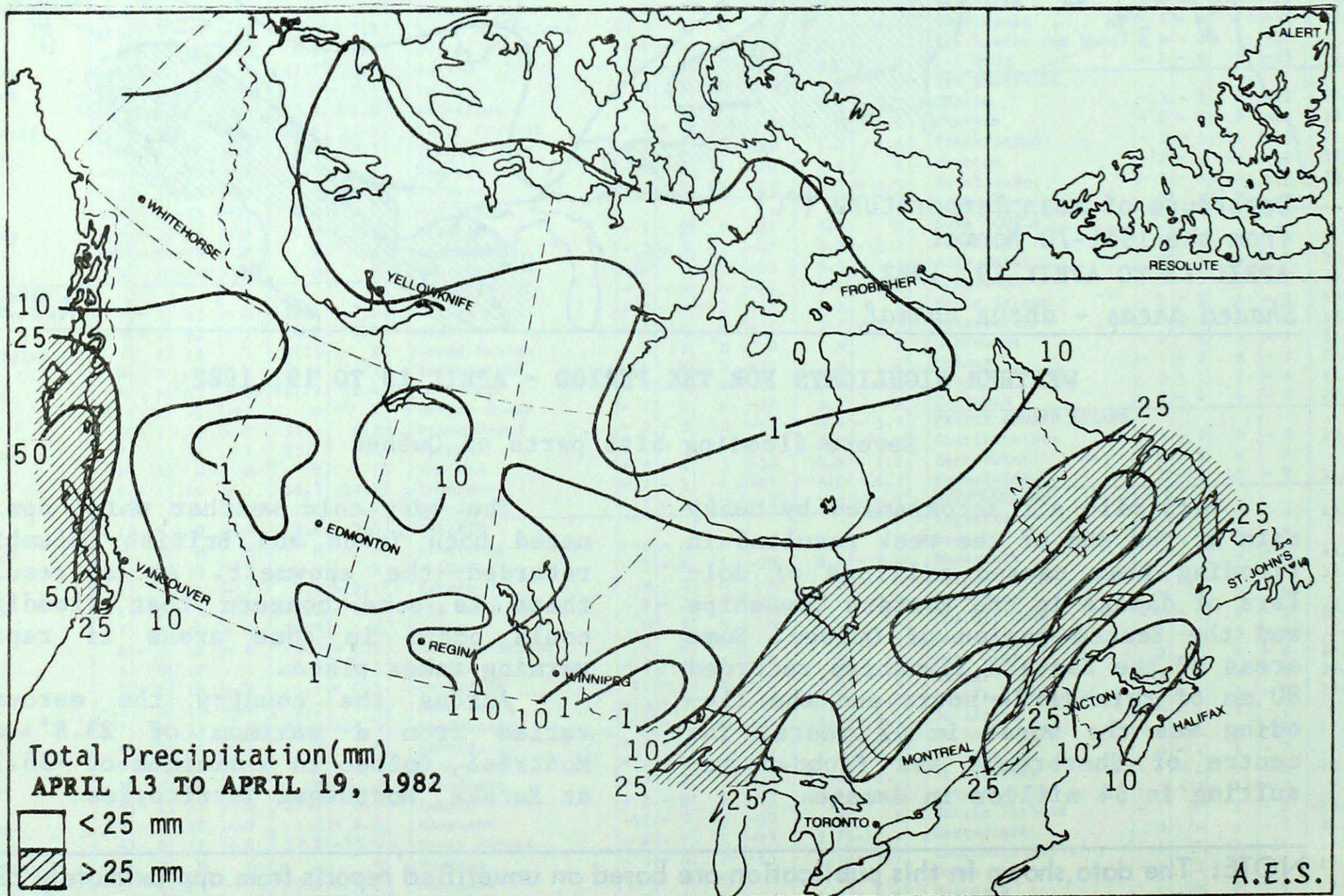
The cool weather has retarded snow melt and there is some concern about flooding should a sudden mild spell occur.

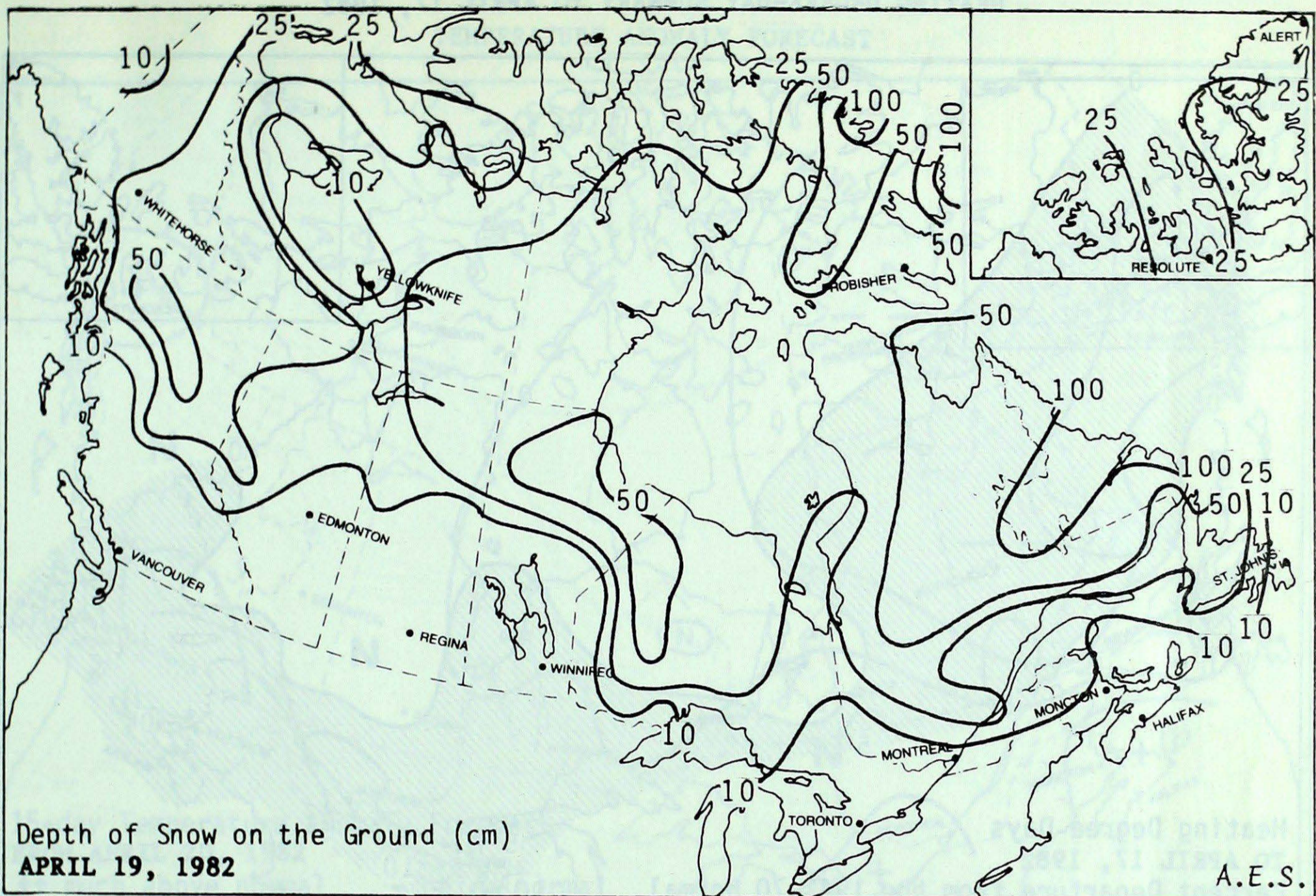
PRAIRIE PROVINCES

A sudden warming in southern Saskatchewan this week caused a quick snowmelt and the Souris River flooded as a result. No serious consequences were reported.

Localized snowstorms dropped 6 cm to 12 cm of wet snow between Edmonton and Fort McMurray on April 14th and over 16 cm of snow in the Saskatoon to North Battleford area on April 15th. Several hundred people were stranded in their cars.

The first thunderstorms of the year were reported in southern Manitoba. Brandon recorded 26 mm of rain from one thunderstorm.





ONTARIO

Spring weather finally reached Ontario. Temperatures reached nearly 20° in most sections of the province. The week did end on a cold note as Sudbury recorded a record low maximum on April 19th with a high of only -1° (previous record + 1° set in 1926).

Rain was general throughout the province with the exception of extreme northwestern areas where Trout Lake recorded snowfalls in excess of 15 cm on April 16th and 17th. Snowcover has disappeared from southern Ontario.

QUEBEC

The passage of very mild air accompanied by heavy rain at the end of the week resulted in flooding that caused millions of dollars worth of damage in the Eastern Townships and in the Beauce region. According to the "Journal of Montréal" some areas of the Eastern Townships recorded 80 mm of

rain in 24 hours and measured winds with gusts to 85 km/h.

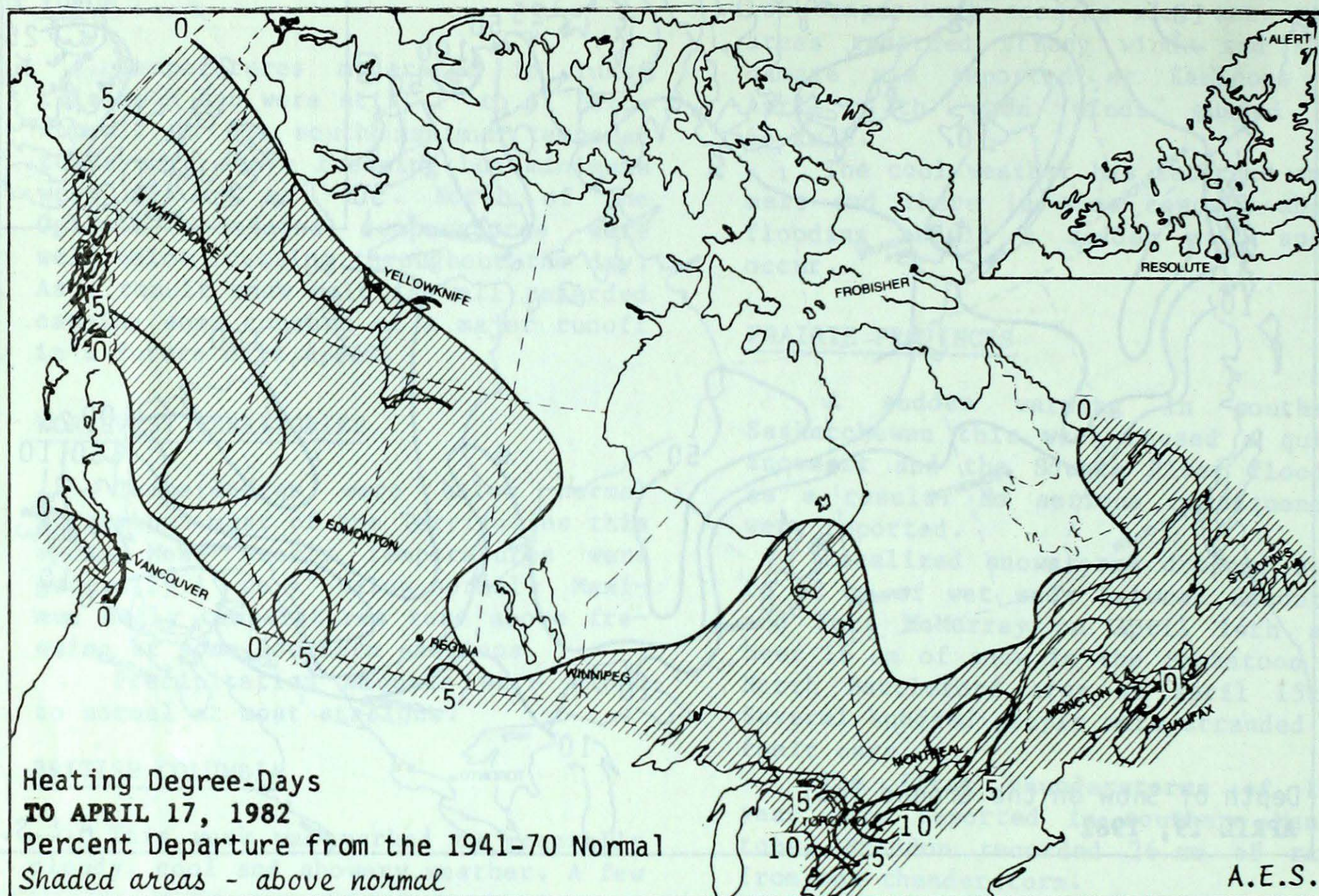
The flooding was the worst the Townships had seen in 42 years. The very mild temperatures, which were close to 20° on the 17th, accelerated snowmelt and the rivers rose rapidly. The Saint François River (which rose ½ m per hour) flooded the center of Sherbrooke causing \$4 million in damages. The water, which attained a depth of 3 m in some areas, inundated a barn at Ascott Corner (near Lennoxville) and most of the 185 Holstein cows contained in the barn were drowned resulting in a financial loss of \$1 million.

The ice breakup and high water levels also seriously hit the Beauce region, principally Etienne-de-Lauzon and Sainte-Marie de Beauce. Close to 175 businesses and residences were flooded.

Heavy rain and snow also caused an avalanche in the Saint-Rose-du-Nord area and caused severe erosion of sections of highway near Saint-Fulgens au Saguenay.

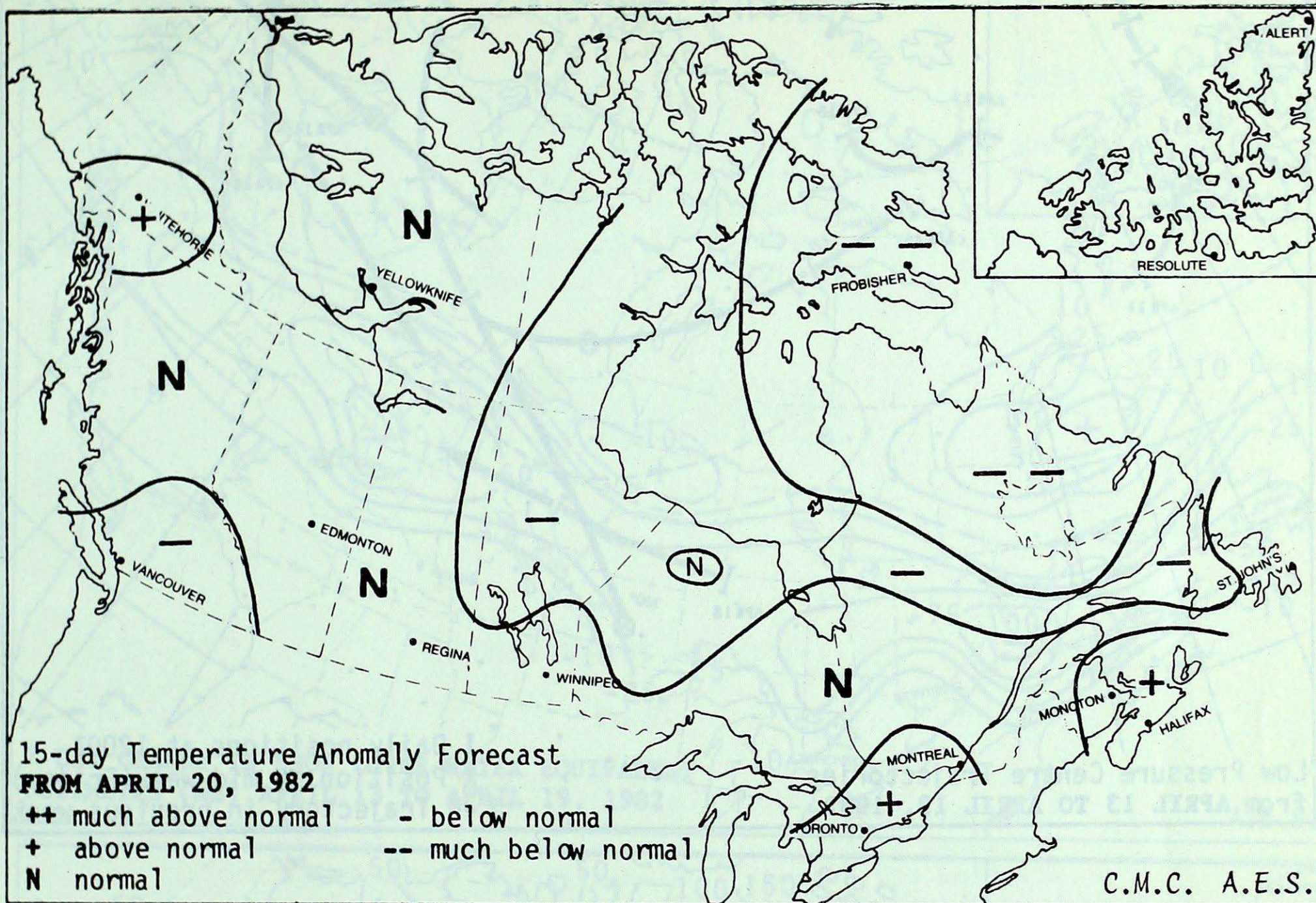
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HEATING DEGREE-DAY SUMMARY TO APRIL 17, 1982

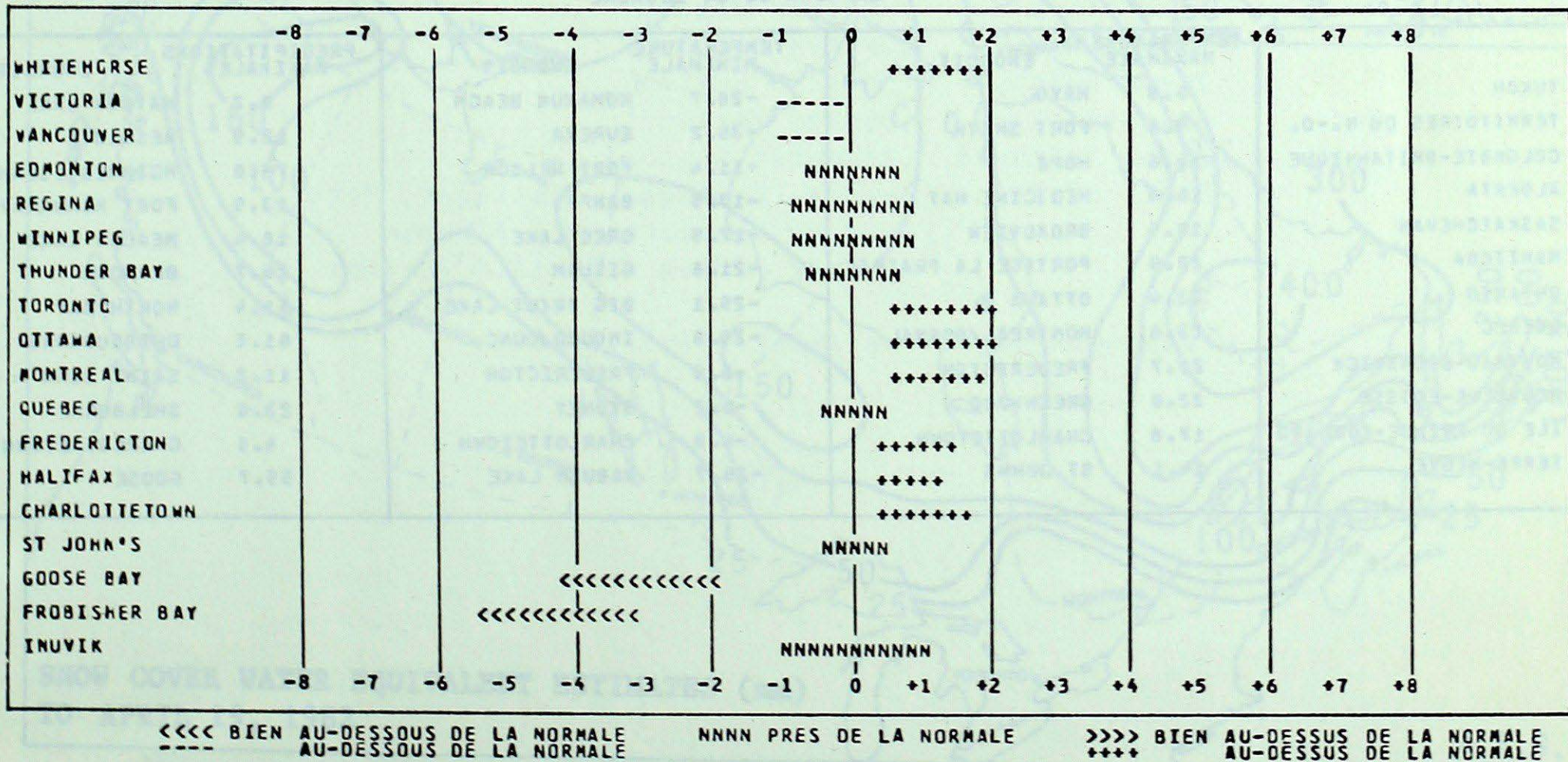


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	742.5	7.5	10298.5	-315.5	97
Inuvik	578.0	-15.0	8731.5	-241.5	97
Whitehorse	380.5	43.5	6627.5	463.5	108
Vancouver	190.0	26.0	2636.0	-4.0	100
Edmonton Mun	363.0	93.0	5193.0	86.0	102
Calgary	363.5	90.5	5021.5	261.5	105
Regina	378.0	91.0	5657.0	222.0	104
Winnipeg	336.5	48.5	5430.0	6.0	100
Thunder Bay	338.5	42.5	5317.5	176.5	103
Windsor	258.5	66.5	3676.0	359.0	111
Toronto	278.5	53.5	4082.0	358.0	110
Ottawa	295.5	57.5	4520.5	205.5	105
Montreal	293.5	56.5	4455.5	322.5	108
Quebec	336.5	55.5	4874.0	262.0	106
Saint John, N.B.	301.5	28.5	4324.0	148.0	104
Halifax	269.5	16.5	3660.0	114.0	103
Charlottetown	291.0	7.0	4089.5	70.5	102
St. John's, Nfld.	305.0	2.0	4045.0	61.0	102

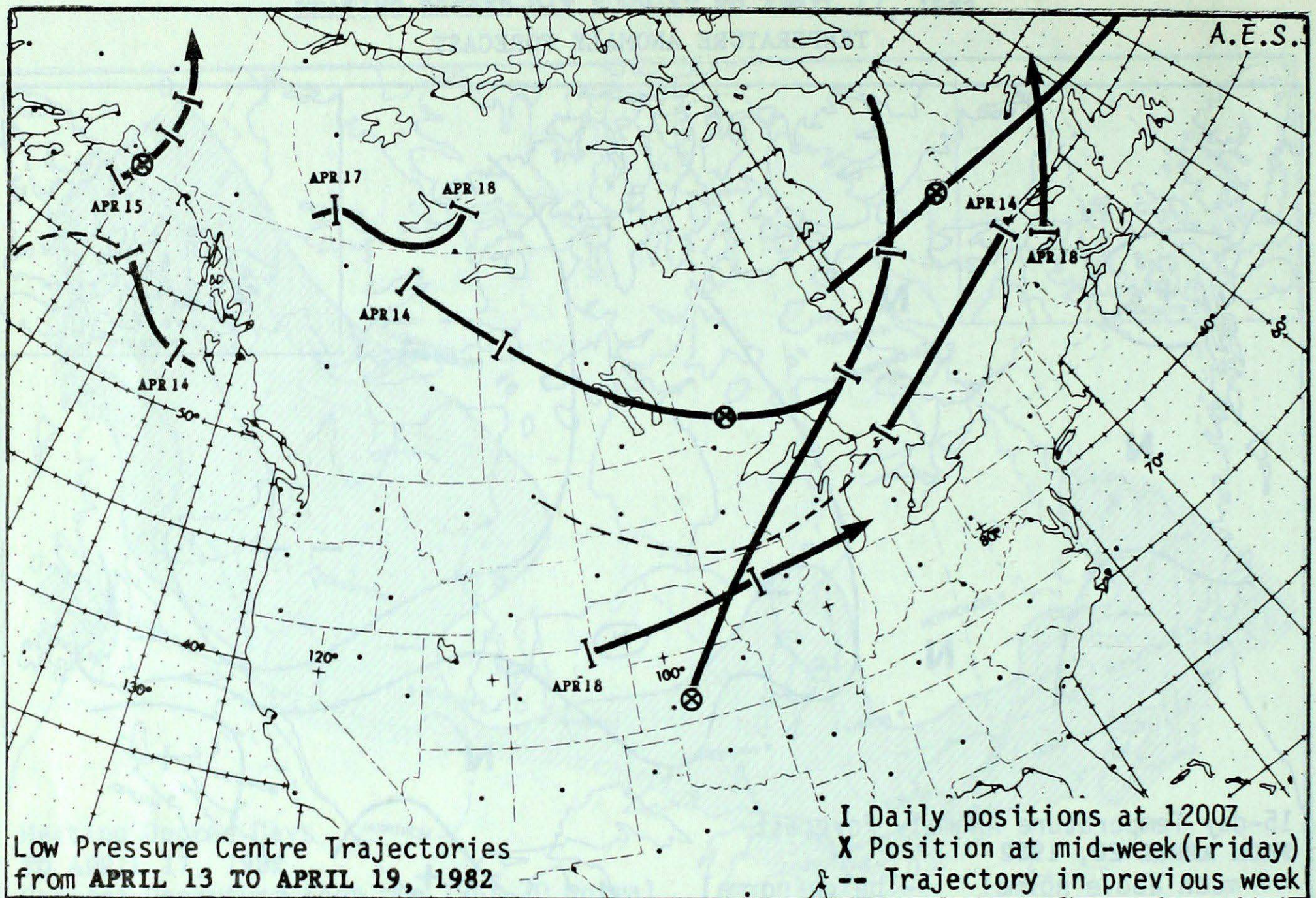
TEMPERATURE ANOMALY FORECAST



PREVISION DES ANOMALIES DE TEMPERATURE DU 20 AVR 1982 AU 3 MAI 1982



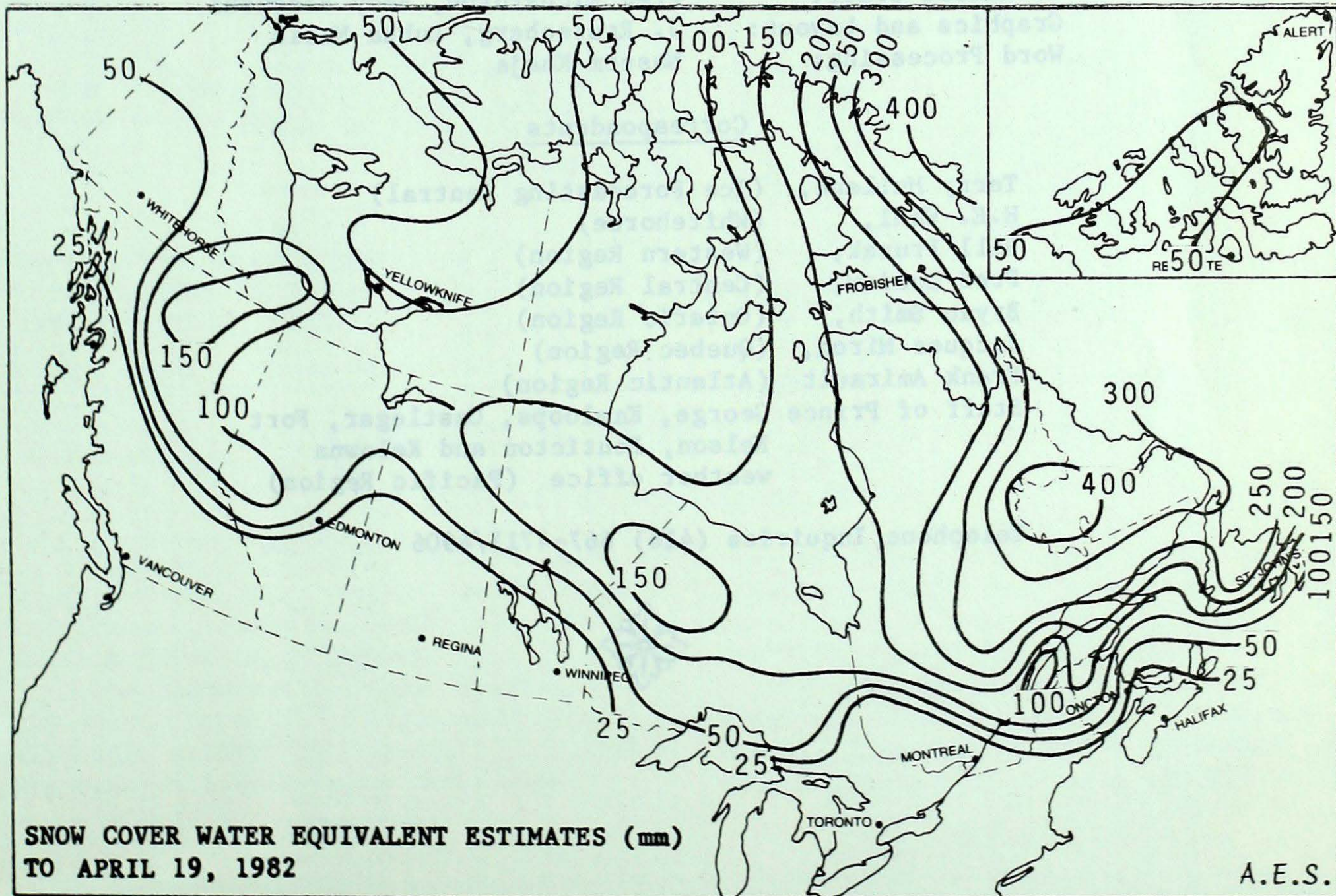
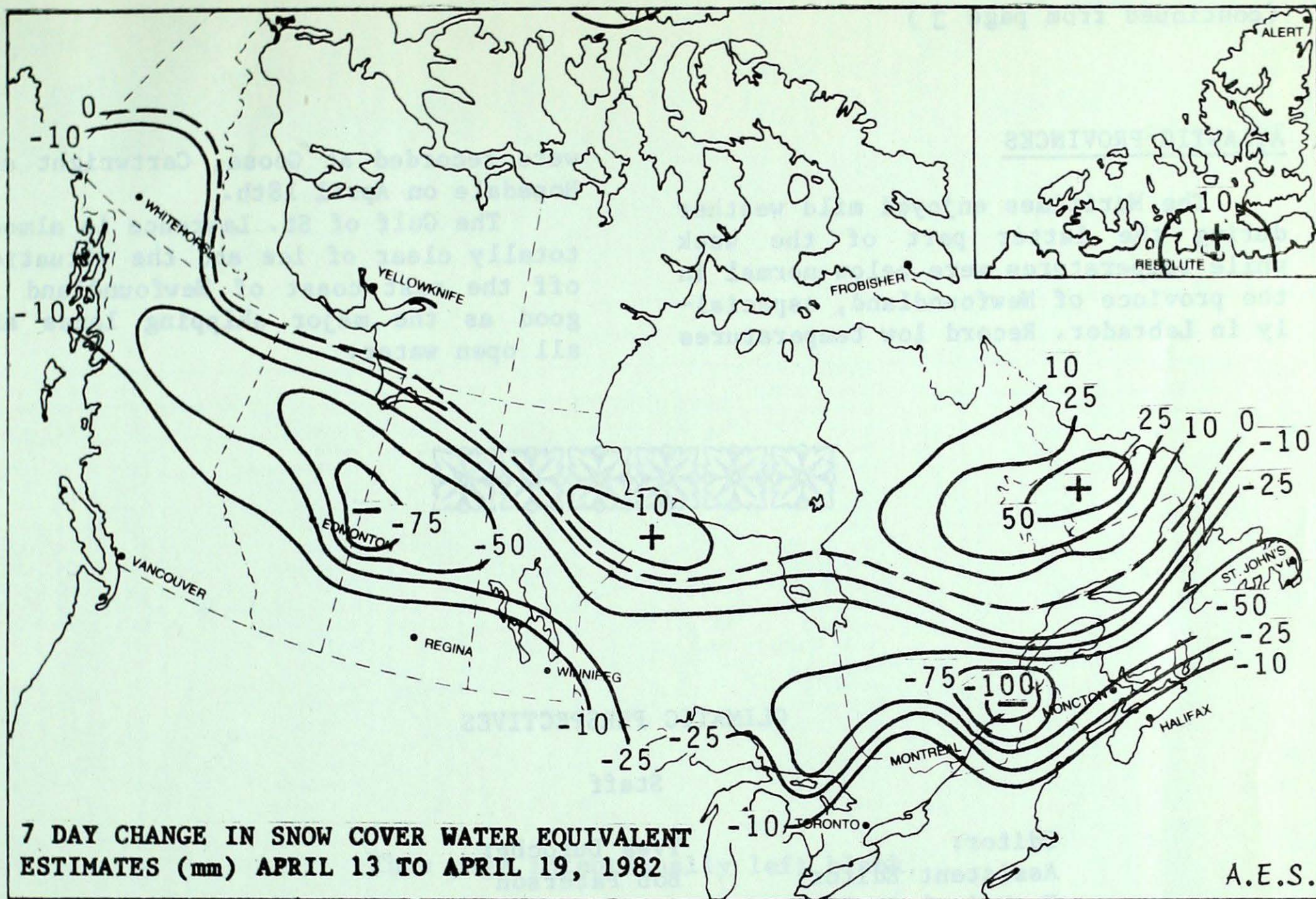
LOW PRESSURE CENTRE TRAJECTORIES



EXTREMA DE LA SEMAINE

	TEMPERATURE MAXIMALE	ENDROIT	TEMPERATURE MINIMALE	ENDROIT	PRECIPITATIONS MAXIMALES	ENDROIT
YUKON	6.9	MAYO	-28.7	KOMAKUK BEACH	6.7	WATSON LAKE
TERRITOIRES DU N.-O.	9.8	FORT SHITH	-36.2	EUREKA	12.9	RESOLUTE
COLOMBIE-BRITANNIQUE	14.6	HOPE	-11.4	FORT NELSON	79.0	MCINNES ISLAND
ALBERTA	16.4	MEDICINE HAT	-13.5	BANFF	13.9	FORT MCMURRAY
SASKATCHEWAN	18.5	BROADVIEW	-17.5	CREE LAKE	16.4	MEADOW LAKE
MANITOBA	20.9	PORTAGE LA PRAIRIE	-21.8	GILLAM	26.7	BRANDON
ONTARIO	23.4	OTTAWA	-25.1	BIG TRCUT LAKE	51.4	NORTH BAY
QUEBEC	23.8	MONTREAL/DORVAL	-29.8	INCUCOJOUAC	61.6	CHIBOUGAMAU
NOUVEAU-BRUNSWICK	20.7	FREDERICTON	-6.9	FREDERICTON	11.2	SAINT JCHN
NOUVELLE-ECOSSE	22.0	GREENWOOD	-5.2	SYDNEY	23.8	SHELBURNE
ILE DU PRINCE-EDOUARD	17.8	CHARLOTTETOWN	-4.0	CHARLOTTETOWN	4.0	CHARLOTTETOWN
TERRE-NEUVE	14.1	ST JOHNS	-26.7	WABUSH LAKE	55.7	GOOSE

SNOW COVER WATER EQUIVALENT



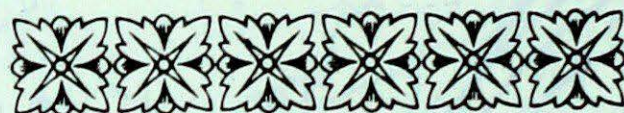
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ATLANTIC PROVINCES

The Maritimes enjoyed mild weather during the latter part of the week while temperatures were below normal in the province of Newfoundland, especially in Labrador. Record low temperatures

were recorded at Goose, Cartwright and Hopedale on April 18th.

The Gulf of St. Lawrence is almost totally clear of ice and the situation off the east coast of Newfoundland is good as the major shipping lanes are all open water.



CLIMATIC PERSPECTIVES

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. APRIL 20, 1982

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
YUKON						
Burwash	-7	-4	3	-21	5.0	1.4
Dawson	-3	-2	6	-17	1.2	1.2
Faro	M	X	M	M	M	X
Komakuk Beach	-24	-6	-17	-29	0.0	0.3
Mayo A	0	1	7	-8	6.4	4.2
Shingle Point	-21	-5	-16	-27	1.8	0.1
Teslin	M	X	5P	-12P	M	X
Watson Lake	-2	-2	7	-15	6.7	1.0
Whitehorse	0	0	5	-8	3.2	0.7
NORTHWEST TERRITORIES						
Cape Parry	-20	-2	-12	-31	0.8	1.4
Cape Young	-21	-1	-10	-33	1.0	0.1
Clinton Point	-19	-1	-7	-27	10.0	7.4
Contwoyto Lake	M	M	M	M	M	M
Coppermine	-21	-4	-8	-35	0.0	3.0
Fort Reliance	-13	-3	0	-23	7.6	3.8
Fort Simpson	-3	0	8	-10	2.5	0.6
Fort Smith	-2	1	10	-15	9.0	4.6
Hay River	-6	-2	6	-14	7.0	2.7
Inuvik	-18	-4	-3	-28	3.6	1.8
Lady Franklin Point	-21	-1	-12	-30	1.8	0.4
Nicholson Peninsula	-20	-2	-8	-30	1.0	0.9
Norman Wells	-9	-1	8	-17	1.0	2.9
Port Radium	M	X	M	M	M	X
Robertson Lake	-21	-3	-10	-30	7.2	6.1
Tuktoyaktuk	-8	0	4	-17	0.3	1.6
Yellowknife	-21	-4	-9	-30	1.0	1.9
Baker Lake	-20	-4	-7	-32	M	M
Coral Harbour	M	M	M	M	M	M
Ennadai Lake	M	M	M	M	M	M
Jenny Lind Island	-23	-1	-14	-32	0.0	0.3
Pelly Bay	-23	-3	-14	-31	0.2	3.4
Rankin Inlet	-20	X	-10	-30	0.3	X
Shepherd Bay	-23	-1	-13	-31	1.0	1.1
Alert	-25	-1	-19	-32	2.5	1.1
Broughton Island	-19	-2	-9	-25	2.0	0.5
Cape Dorset	-18	X	-9	-25	M	X
Cape Dyer	-18	-2	-7	-28	2.7	3.4
Cape Hooper	-18	-1	-10	-24	0.0	2.4
Clyde	-17	2	-7	-22	5.2	3.0
Dewar Lakes	-24	-4	-17	-29	1.5	1.2
Eureka	-26	2	-20	-36	3.0	2.8
Frøbisher Bay	-21	-7	-12	-29	1.9	4.4
Gladman Point	M	M	-14	-31P	0.4	0.5
Hall Beach	-24	-2	-10	-36	0.8	0.9
Longstaff Bluff	-23	-3	-15	-28	M	M
Mackar Inlet	-23	-3	-14	-31	1.6	1.0
Pond Inlet	-21	X	-12	-29	2.3	X
Resolute	-24	-2	-17	-32	12.9	11.6
Byron Bay	-22	-1	-14	-31	0.0	1.8
Cambridge Bay	-23	-1	-13	-32	0.6	0.8
Mould Bay	-27	-3	-22	-35	M	M
Sachs Harbour	24	-4	-16	-30	0.0	0.8
BRITISH COLUMBIA						
Abbotsford	6	-3	14	-1	20.6	2.0
Alert Bay	4	-3	11	0	21.7	0.7
Amphitrite Point	6	X	11	1	M	X
Blue River	M	X	M	M	M	X
Bull Harbour	M	M	11	M	57.8	27.6
Burns Lake	0	X	8	9	M	X
Cape Scott	5	-2	9	0	47.2	3.1
Cape St James	6	-1	13	0	39.8	15.5
Clinton	M	X	M	M	M	X
Comox	5	-3	12	-1	9.1	7.0
Cranbrook	3	-1	10	-6	2.4	2.4
Dease Lake	-1	-1	7	-11	4.0	0.1
Estevan Point	M	M	M	M	M	M
Ethelda Bay	4	X	9	2	M	X
Fort Nelson	0	-2	12	-11	21.4	17.4
Fort St John	1	-2	7	-6	0.8	5.9
Hope	6	X	15	-1	72.8	X
Kamloops	6	-3	15	-6	1.2	0.5
Langara	4	-2	9	0	49.7	24.3
Lytton	6	-2	14	-3	10.5	7.5
Mackenzie	1	X	7	-11	M	X
McInnes Island	5	-2	9	1	79.0	38.3
Nanaimo A	5	X	12	-2	M	X
Penticton	5	-4	13	-6	5.6	0.1
Port Alberni	M	X	M	M	M	X
Port Hardy	4	-2	11	-1	50.5	23.9
Prince George	2	-2	9	-6	1.9	5.2
Prince Rupert	4	-1	8	-2	41.8	1.4
Puntzi Mountain	M	X	M	M	M	X
Quesnel	3	-2	12	-7	2.5	3.4
Revelstoke	3	-2	10	-6	18.0	13.2
Sandsplit	4	-2	9	-2	19.1	1.4

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Smithers	1	-3	9	-6	2.9	2.8
Stewart	4	X	10	-4	M	X
Terrace	3	-2	9	-2	14.8	0.5
Vancouver	6	-3	10	2	21.8	7.3
Victoria	6	-2	11	0	19.5	6.2
Williams Lake	1	-3	8	-9	2.7	3.3
ALBERTA						
Banff	-1	-3	8	-14	M	M
Calgary	3	-1	14	-4	1.2	5.4
Cold Lake	3	0	11	-4	2.2	4.0
Coronation	3	0	15	-5	5.2	0.2
Edmonton Intl	2	-1	9	-5	9.0	4.0
Edmonton Namao	2	-2	9	-4	9.3	6.4
Edson	0	-2	9	-9	0.2	6.7
Fort Chipewyan	-2	-3	8	-12	M	M
Fort McMurray	2	0	12	-11	13.9	9.3
Grande Prairie	0	-3	8	-6	0.2	4.9
High Level	1	-3	10	-10	3.0	2.5
Jasper	0	-3	8	-9	4.2	1.2
Lac La Biche	M	X	M	M	M	X
Lethbridge	4	-2	14	-3	4.9	2.1
Medicine Hat	5	-2	16	-3	0.5	4.8
Peace River	2	-1	9	-5	2.0	0.9
Red Deer	3	-1	13	-4	2.1	3.8
Rocky Mountain House	0	-3	13	-10	0.0	9.0
Slave Lake	1	-2	9	-8	0.6	1.5
Vermilion	3	0	11	-2	4.2	0.6
Whitecourt	1	-1	9	-8	2.1	2.9
SASKATCHEWAN						
Broadview	5	X	19	-5	3.4	X
Buffalo Narrows	1	-2	12	-10	M	M
Collins Bay	-5	X	7	-16	8.6	X
Cree Lake	-2	X	10	-18	M	M
Eastend Cypress	M	X	M	M	M	X
Estevan	6	1	18	-2	0.6	5.9
Hudson Bay	5	3	17	-4	2.0	3.6
Kindersley	4	0	16	-2	1.4	3.5
La Ronge	1	-1	11	-11	0.8	4.2
Meadow Lake	2	X	12	-6	16.4	X
Moose Jaw	6	1	16	-1	9.9	4.0
Nipawin	4	X	12	-2	1.4	X
North Battleford	5	1	14	-3	7.0	2.6
Prince Albert	4	2	15	-5	1.8	2.9
Regina	4	1	12	-1	4.2	1.1
Rockglen	M	X	M	M	M	X
Saskatoon	5	1	14	-3	5.8	2.0
Swift Current	4	0	15	-4	M	M
Uranium City	-4	0	8	-14	10.1	5.4
Wynyard	5	X	15	-2	0.2	X
Yorkton	5	2	17	-4	0.2	3.8
MANITOBA						
Bissett	4	X	18	-6	18.6	X
Brandon	5	2	18	-2	26.7	18.7
Churchill	-14	-4	-2	-22	0.2	6.5
Dauphin	5	2	20	-5	7.6	0.8
Gillam	-11	X	3	-22	5.0	X
Gimli	3	0	18	-6	7.8	1.2
Grand Rapids	-3	X	M	M	M	X
Island Lake	-5	X	15	-14	M	X
Lynn Lake	-5	5	10	-18	10.1	4.2
Norway House	-2	X	12	-14	3.0	X
Pilot Mound	5	1	17	-3	10.2	0.1
Portage	5	1	21	-6	2.1	8.4
The Pas	1	1	15	-7	0.0	6.8
Thompson	-5	5	9	-16	23.4	17.7
Winnipeg	5	1	18	-5	3.4	6.6
ONTARIO						
Armstrong	-2	-2	8	-13	M	M
Atikokan	2	-3	17	-10	1.4	15.2
Barrie	M	X	M	M	M	X
Big Trout Lake	-9	-6	9	-25	M	M
Britt	M	X	M	M	M	X
Caribou Island	M	X	M	M	M	X
Earlton	3	0	17	-13	M	M
Geraldton	-2	-4	8	-15	M	M
Core Bay	2	-2	10	-5	17.8	4.1
Kapuskasing	0	2	17	-13	26.2	13.0
Kenora	4	2	17	-5	9.9	0.2
Kingston	6	0	17	-3	M	M
Lansdowne	-7	-4	7	-19	M	M
London	8	1	23	-2	21.9	0.9
Moosonee	-2	1	13	-14	M	M
Mount Forest	M	M	21	-3P	M	M
Muskoka	5	1	20	-5	M	M
Nagagami	M	X	M	M	M	X
North Bay	3	-1	17	-9	51.4	35.3
Ottawa	7	1	23	-2	12.8	5.0

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Petawawa	4	X	21	-7	14.8	X
Pickle Lake	-4	-3	12	-18	12.8	2.9
Red Lake	1	0	14	-10	11.0	7.2
Simcoe	M	M	23P	-2P	M	M
Sioux Lookout	2	0	15	-9	0.0	-10.9
Sudbury	2	-3	13	-9	24.2	10.0
Thunder Bay	3	0	13	-6	11.9	0.5
Timmins	1	-2	16	-12	15.4	0.8
Toronto	7	0	19	-1	12.4	3.3
Trenton	7	0	22	-4	13.4	4.2
Upsala	M	X	M	M	M	X
Wawa	0	X	12	-8	32.2	X
Warton	6	0	20	-2	23.5	7.3
Windsor	10	1	23	-1	16.2	0.9
QUÉBEC						
Bagotville	2	-1	16	-8	20.4	8.8
Baie Comeau	-1	-1	8	-10	50.0	38.3
Blanc Sablon	-3	-1	3	-10	33.6	17.2
Border	M	M	M	M	M	M
Chevery	M	X	M	M	M	X
Chibougamau	-1	X	14	-14	61.6	X
Gaspé	2	X	15	-6	16.9	X
Grindstone Island	2	1	9	-3	8.3	5.8
Inoucdjouac	-19	-9	-9	-30	M	M
Kuujuuaq	-19	-10	-7	-29	2.4	0.9
Lac Eon	M	X	M</			