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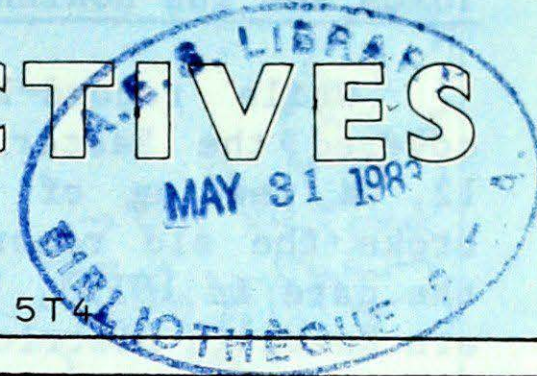
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A WEEKLY REVIEW OF CANADIAN CLIMATE

Atmospheric
Environment

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CLIMATIC PERSPECTIVES



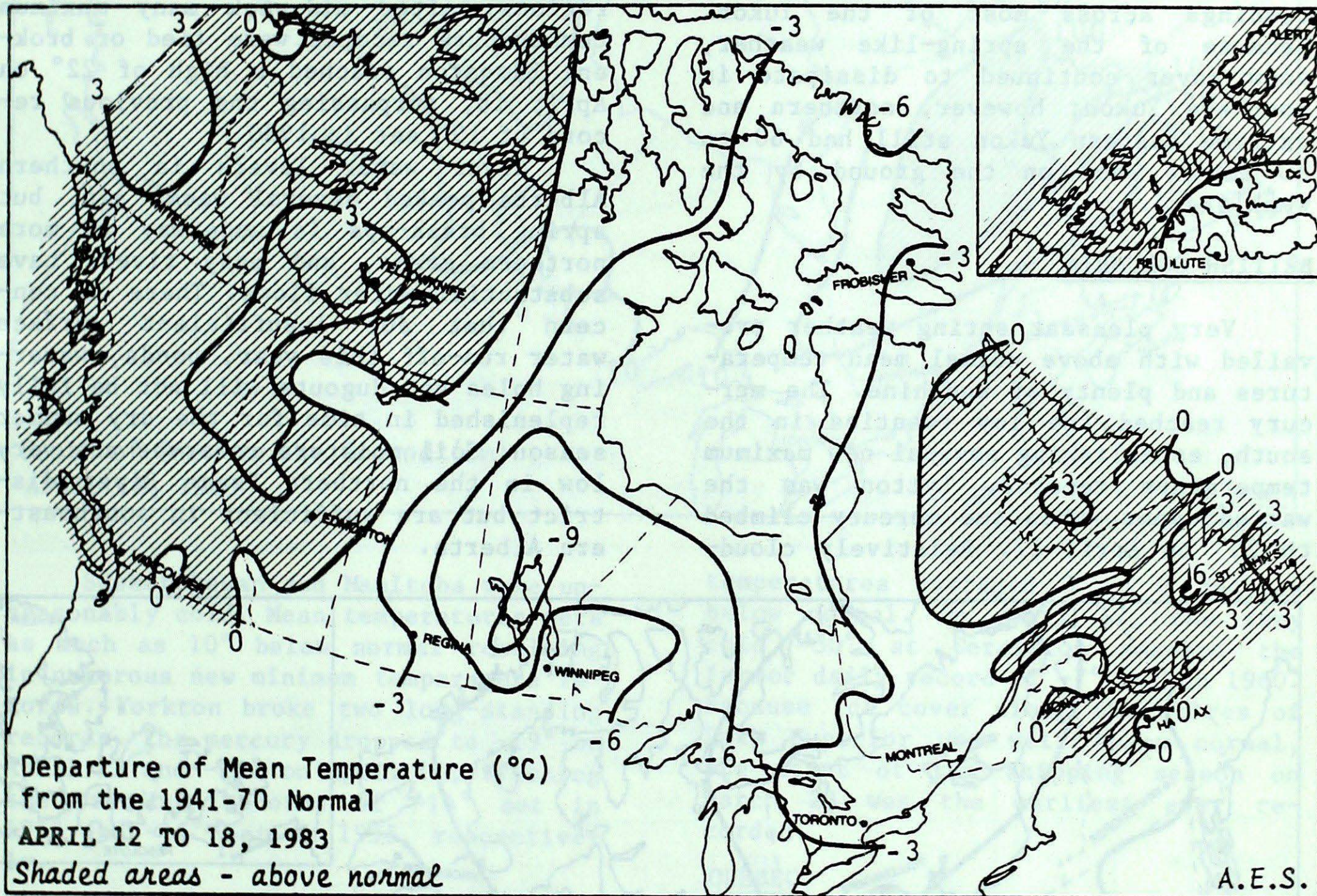
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THE CANADIAN CLIMATE CENTRE,
ATMOSPHERIC ENVIRONMENT SERVICE,
4905 DUFFERIN ST., DOWNSVIEW, ONTARIO M3H 5T4

APRIL 22, 1983

(Aussi disponible en français)

VOL.5 NO. 16



WEATHER HIGHLIGHTS FOR THE PERIOD - APRIL 12-18, 1983

	Page
* Torrential downpour causes local flooding in Eastern Québec and New Brunswick...	3
* Blizzard in Northwestern Ontario...	7
* Record cold in Manitoba and Ontario...	3
* Fruit trees in full bloom in the Okanagan Valley...	2

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

While record-breaking frigid air covered the Eastern Arctic (on April 12, a reading of -33° at Cape Dyer broke the old record of -30° set for the date in 1959), Yukon and the western Keewatin District experienced temperatures that were 3 to 5 degrees above normal. An influx of mild Pacific air resulted in above freezing daytime readings across most of the Yukon. Because of the spring-like weather, snow cover continued to dissipate in southern Yukon; however, northern and extreme eastern Yukon still had 60 to 80 cm of snow on the ground by the week's end.

BRITISH COLUMBIA

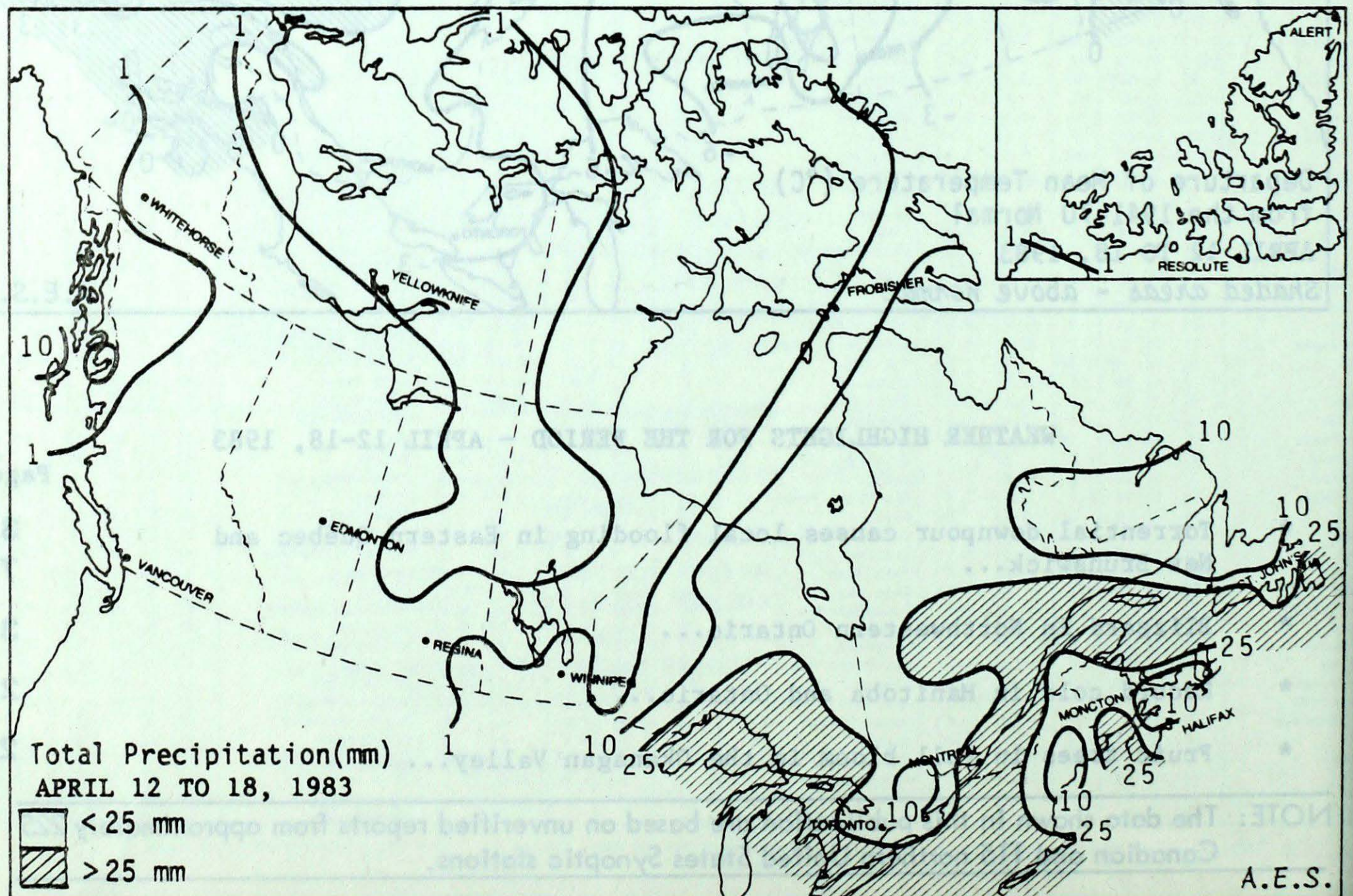
Very pleasant spring weather prevailed with above normal mean temperatures and plenty of sunshine. The mercury reached the low twenties in the south, establishing several new maximum temperature records. Lytton was the warmest spot, when the mercury climbed to 25° on April 17. Relatively cloud-

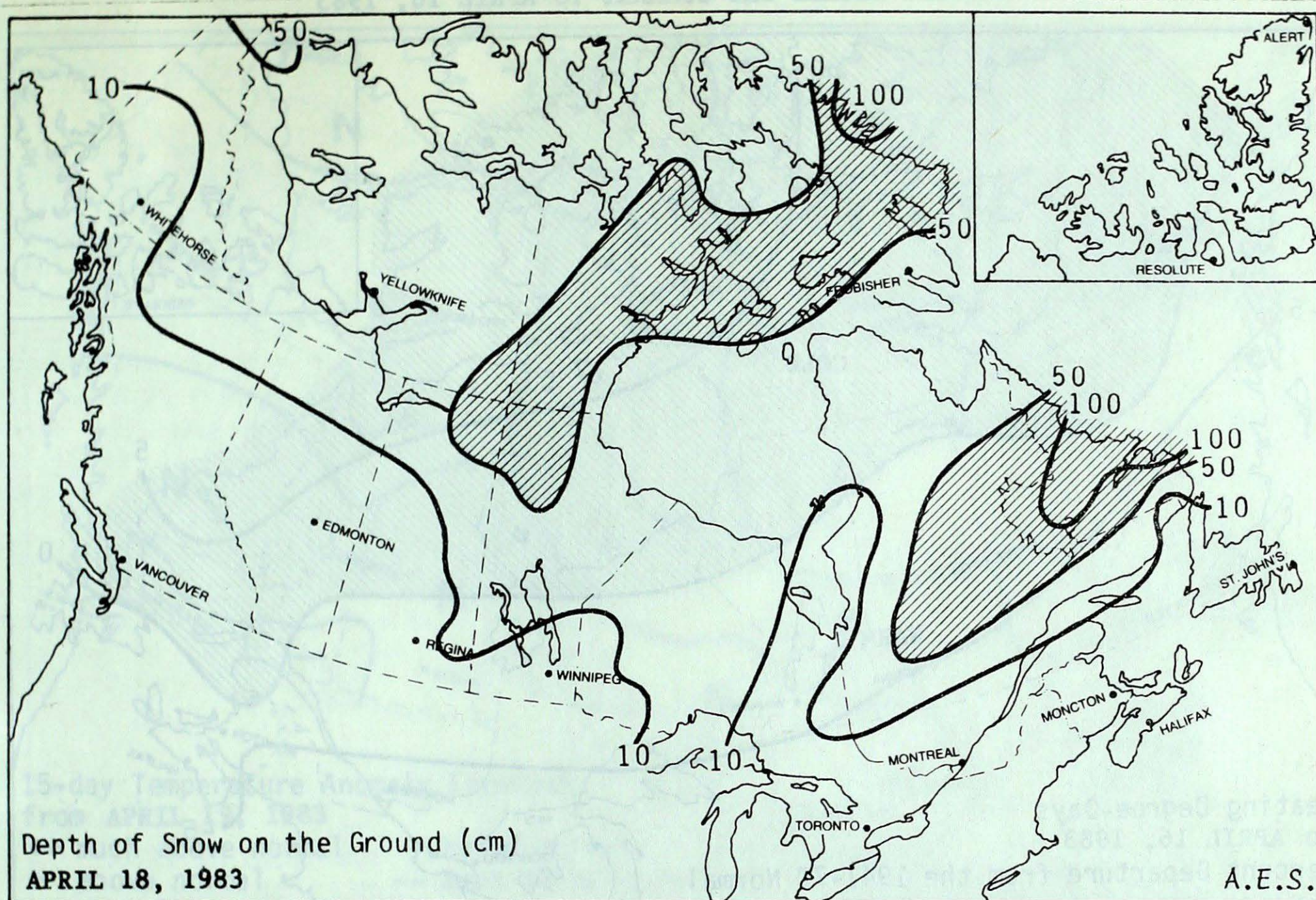
less nights allowed temperatures to drop to freezing levels by morning, but frost damage was minimal. Apricots, peaches and cherry trees are in full bloom in the Okanagan Valley.

PRAIRIE PROVINCES

Albertans enjoyed a mild pleasant week. Mean temperatures were as much as 4° above normal in central and northern regions. After mid-week many maximum temperature records were tied or broken. Edmonton reached a high of 22° on April 18, surpassing the previous record of 19° set in 1980.

River water levels in southern Alberta peaked several weeks ago, but spring break-ups is underway in more northern areas, and many rivers have substantial water flows. There is concern that due insufficient surface water run-off this year, ponds, watering holes and dugouts will not be fully replenished in time for the dry summer season. Soil moisture reserves are very low in the northern Peace River district but are sufficient in southeastern Alberta.





Saskatchewan and Manitoba were unseasonably cold. Mean temperatures were as much as 10° below normal resulting in numerous new minimum temperature records. Yorkton broke two long-standing records. The mercury dropped to -19° on April 13 and -16° on April 14, breaking the previous records of -14° set in 1953 and -15° set in 1935, respectively.

ONTARIO

Weatherwise, April can be one of the cruelest months in Ontario. This week's stormy weather reinforces this once again. The early spring promised by the mildest winter in 30 years has turned cold and wintry. Heavy snow and strong winds created blizzard-like conditions in northwestern Ontario on the 14th and 15th of April. In Thunder Bay schools were closed for 2 days and the airport was shut-down for 24 hours as 37 cm of new snow clogged the roads.

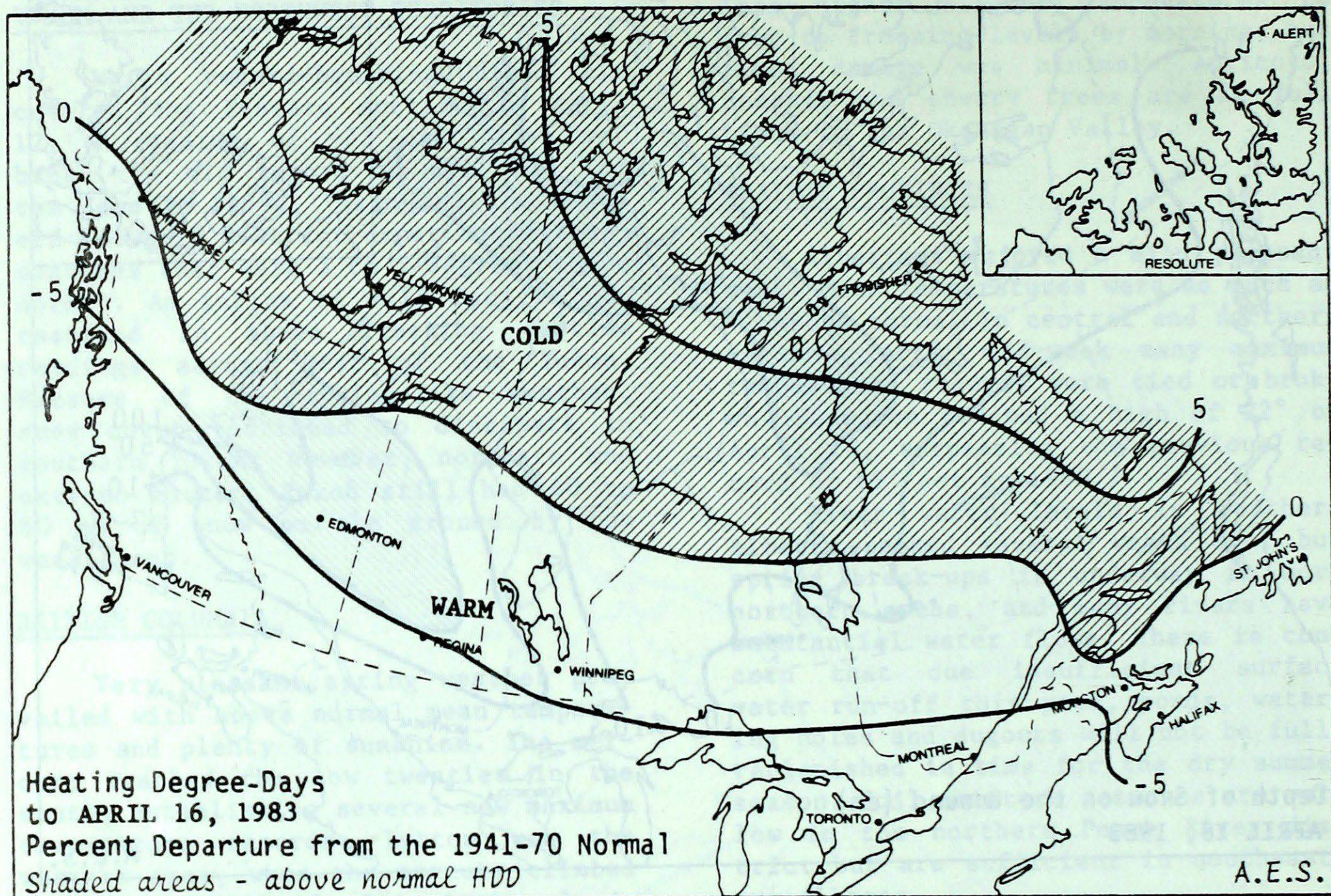
Subsequent to the storms, cold air flooded the province and numerous record low temperatures were set. Weekly

temperatures averaged 3 to 8 degrees below normal. On April 17, the very cold -30° at Geraldton smashed the former daily record of -7° set in 1960. Because ice cover along the shores of Lake Superior was well below normal, the start of the shipping season on March 23 was the earliest ever recorded.

QUÉBEC

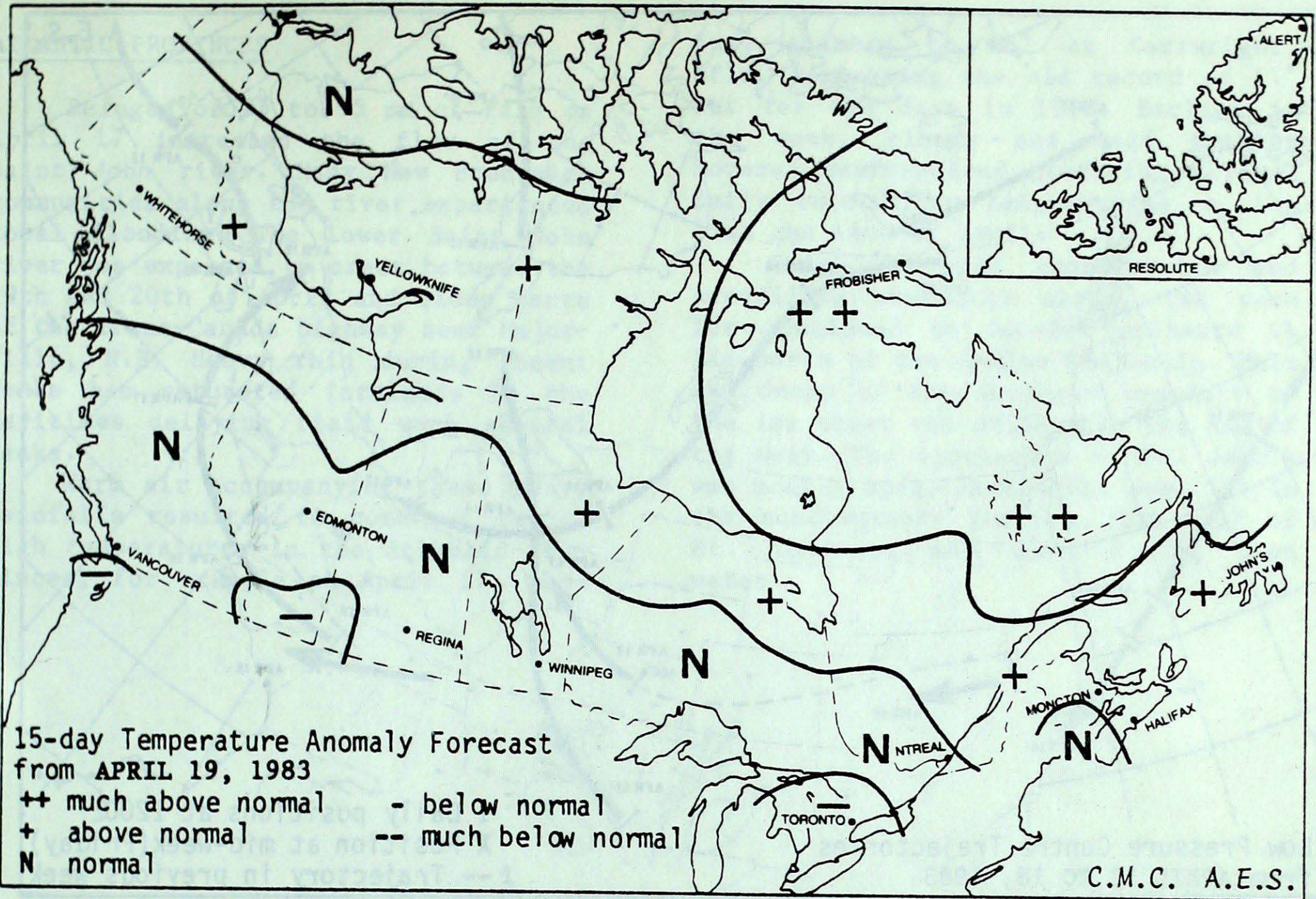
A series of weather systems crossing southern Québec dumped precipitation in the 20 to 45 mm range in southwestern areas. Over 30 cm of snow fell in the Eastern townships, exceeding the monthly mean of 23 cm. Heavy rains and strong winds lashed eastern Québec during the week-end. The rains and warm temperatures contributed to rapid melting of the snow cover. Some local flooding resulted at Sept-Îles and in the Gaspé peninsula where roads were impassable at times. A few high temperature records were set in the warm air that covered northeastern Québec during the week-end; 8° on April 17, at Schéfferville broke the old record of 7° set for the date in 1966.

HEATING DEGREE-DAY SUMMARY TO APRIL 16, 1983

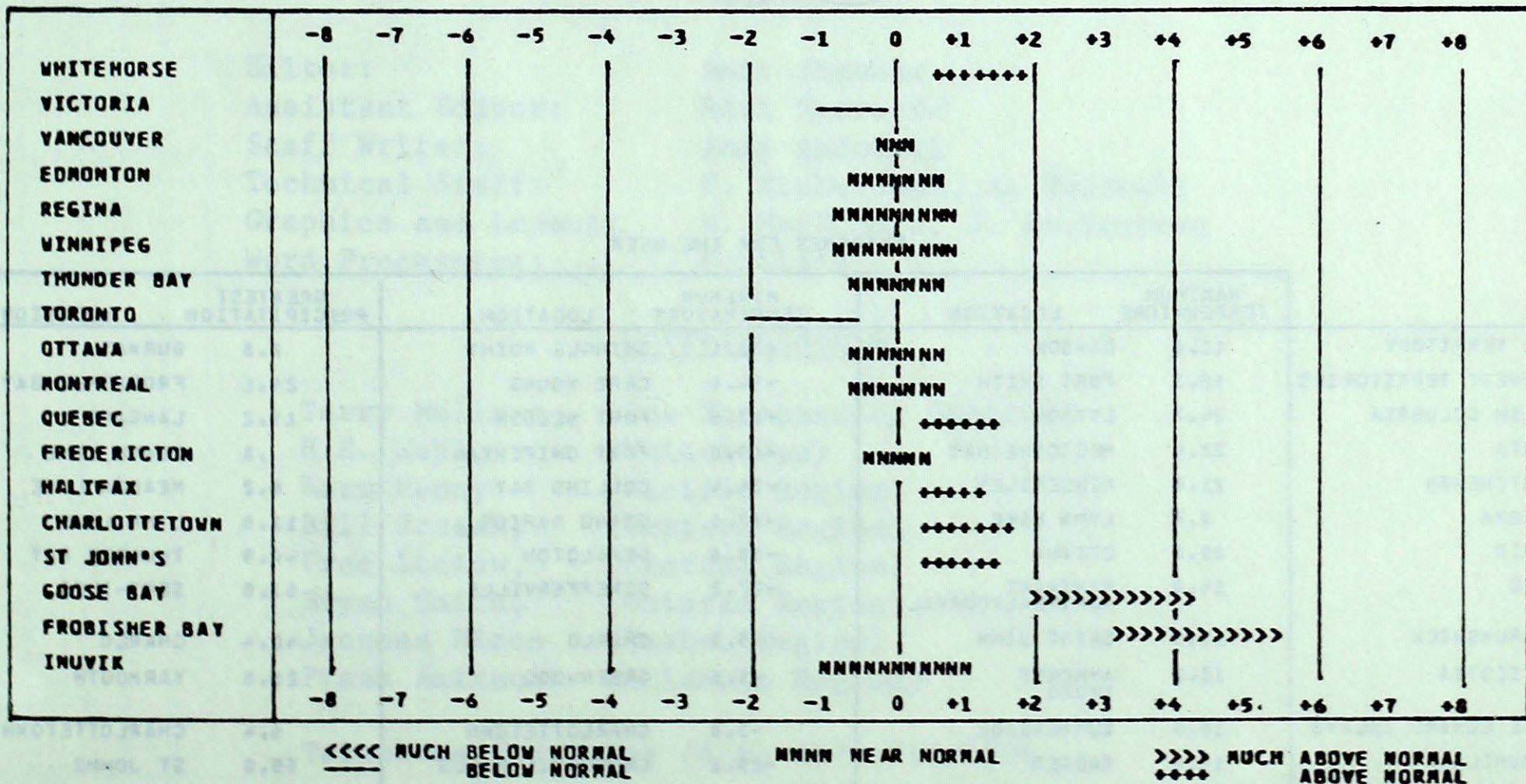


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	781.5	87.5	11167.5	538.5	105
Inuvik	608.5	47.5	9375.0	381.0	104
Whitehorse	289.5	-29.5	6089.0	-12.5	100
Vancouver	165.0	10.0	2439.0	-152.0	94
Edmonton Mun	233.5	-22.5	4625.5	-368.0	93
Calgary	258.0	-1.0	4295.5	-357.5	92
Regina	301.5	28.5	5055.0	-295.5	94
Winnipeg	277.0	3.0	4934.5	-378.5	93
Thunder Bay	279.5	-1.5	4779.0	-276.5	95
Windsor	190.5	7.5	2926.5	-319.0	90
Toronto	206.0	-8.0	3397.5	-261.5	93
Ottawa	231.0	5.0	3935.5	-324.5	92
Montreal	218.0	-7.0	3803.5	-283.5	93
Quebec	256.0	-11.0	4319.5	-263.0	94
Saint John, N.B.	242.0	-16.0	3886.0	-251.0	94
Halifax	238.5	-.5	3382.0	-126.5	96
Charlottetown	260.0	-9.0	3826.5	-170.0	96
St. John's, Nfld.	284.0	-2.0	3564.5	-51.5	99

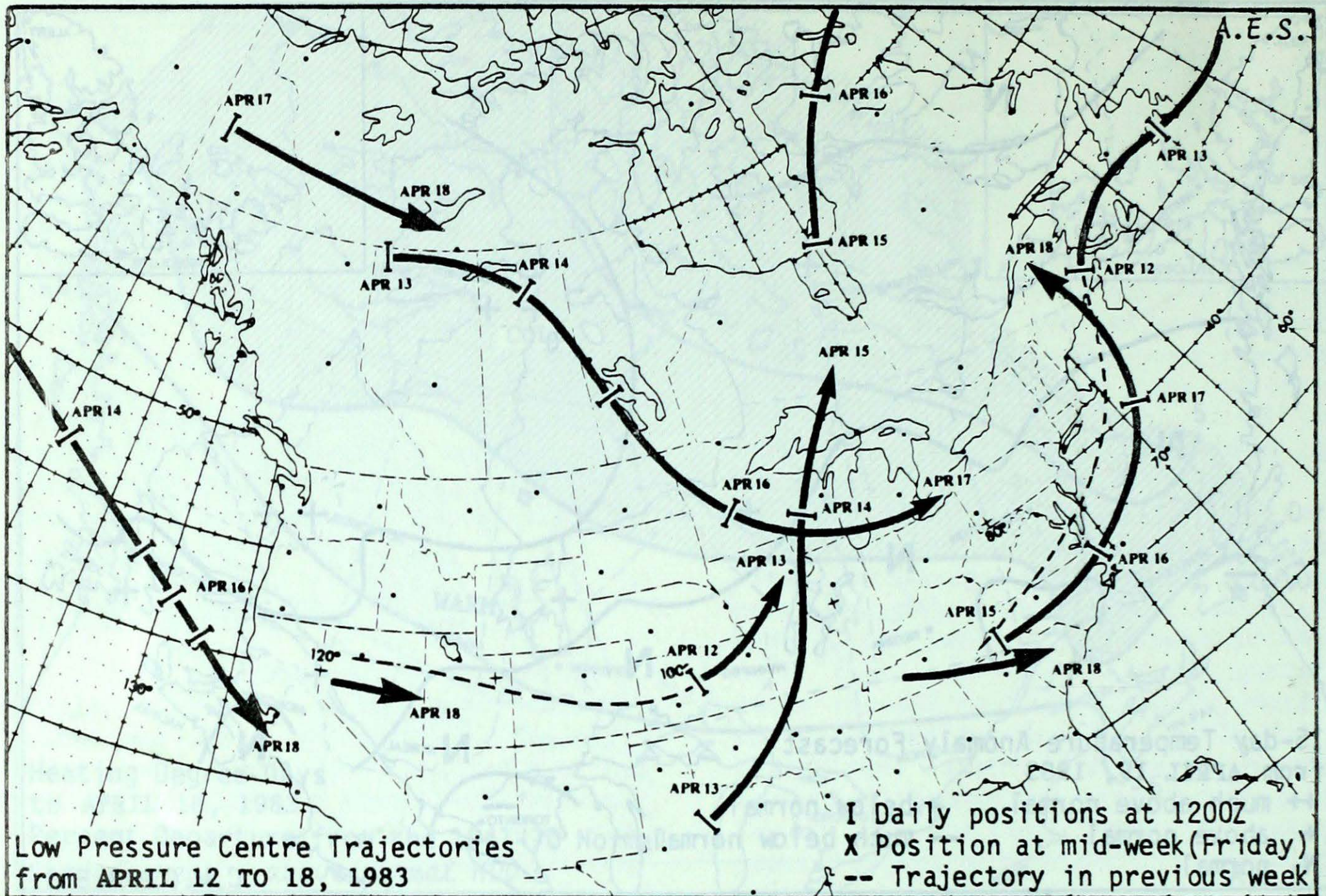
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR APR 19 1983 TO MAY 2 1983



LOW PRESSURE CENTRE TRAJECTORIES



EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	12.0	DAWSON	-36.1	SHINGLE POINT	2.8	BURWASH
NORTHWEST TERRITORIES	12.3	FORT SMITH	-34.6	CAPE YOUNG	24.1	FROBISHER BAY
BRITISH COLUMBIA	24.7	LYTTON	-13.6	FORT NELSON	19.2	LANGARA
ALBERTA	22.4	MEDICINE HAT	-19.0	FORT CHIPEWYAN	.8	SLAVE LAKE
SASKATCHEWAN	21.8	KINDERSLEY	-24.4	COLLINS BAY	6.2	MEADOW LAKE
MANITOBA	8.8	LYNN LAKE	-27.1	GRAND RAPIQS	11.6	LYNN LAKE
ONTARIO	16.8	OTTAWA	-30.0	GERALOTON	40.9	THUNDER BAY
QUEBEC	14.6	MANIWAKI MONTREAL/DORVAL	-27.2	SCHEFFERVILLE	63.0	SEPT-ILES
NEW BRUNSWICK	13.5	SAINT JOHN	-5.3	CHARLO	40.4	CHARLO
NOVA SCOTIA	15.2	AMHERST TRURO	-3.5	GREENWOOD	28.0	YARMOUTH
PRINCE EDWARD ISLAND	16.5	SUMMERSIDE	-3.0	CHARLOTTETOWN	6.4	CHARLOTTETOWN
NEWFOUNDLAND	19.4	BADGER	-25.1	CHURCHILL FALLS	55.0	ST JOHNS

(continued from page 3)

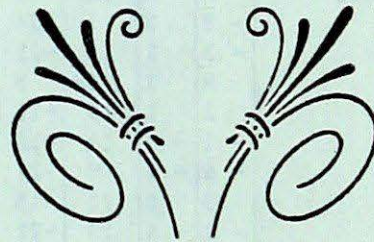
ATLANTIC PROVINCES

Deluges of 25 to 35 mm of rain on April 17 increased the flow of the Saint John river. Many New Brunswick communities along the river experienced local flooding. The lower Saint John river was expected to crest between the 19th and 20th of April and close parts of the Trans-Canada highway near Majorville, N.B. Heavy rain during recent weeks has saturated farmlands in the Maritimes delaying field work several weeks.

Warm air accompanying these heavy rainfalls resulted in numerous record high temperatures in the Atlantic Provinces; for example on April 17, mer-

cury climbed to 16° at Cartwright, Nfld. surpassing the old record of 11° set for the date in 1950. Earlier in the week, cloudy and cold weather covered Newfoundland producing several daily record low temperatures on the 13th and 14th of April.

Owing to mild temperatures and prevailing southerly winds, the pack ice continued to recede northward to lie north of the Avalon Peninsula. Melt and decay of the southern boundary of the ice sheet was evident by the end of the week. The approaches to St. John's was mostly open. Except for some ice in the southwestern portion, the Gulf of St. Lawrence was also mostly open water.



CLIMATIC PERSPECTIVES

Staff

Editor:	Amir Shabbar
Assistant Editor:	Réal Sarrazin
Staff Writer:	Andy Radomski
Technical Staff:	F. Richardson, A. Radomski
Graphics and Layout:	V. MacDonald, J. Rautenberg
Word Processing:	U. Ellis

Correspondents

Terry Mullane,	(Ice Forecasting Central)
H.E. Wahl,	(Whitehorse)
Norm Penny	(Pacific Region)
Bill Prusak,	(Western Region)
Fred Luciw,	(Central Region)
Bryan Smith,	(Ontario Region)
Jacques Miron	(Quebec Region)
Frank Amirault	(Atlantic Region)

Telephone Inquiries (416) 667-4711/4906

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. APRIL 19, 1983

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
YUKON						
Burwash	2	4	11	-9	2.8	-1.1
Dawson	2	4	12	-6	0.8	-1.5
Faro	2	X	8	-7	M	X
Komakuk Beach	-23	-5	-16	-32	1.0	0.7
Mayo	2	3	11	-6	0.4	-1.9
Shingle Point	-21	-4	-14	-36	2.1	0.7
Teslin	M	X	8P	-5	M	X
Watson Lake	2	2	11	-8	1.0	-4.6
Whitehorse	3	3	8	-3	0.0	-2.3
NORTHWEST TERRITORIES						
Cape Parry	-18	1	-6	-29	8.3	6.1
Cape Young	-18	2	-4	-35	M	M
Clinton Point	-16	1	-2	-30	8.0	5.6
Coppermine	-17	0	-2	-33	4.5	1.5
Fort Reliance	-8	3	8	-20	10.1	6.8
Fort Simpson	0	4	12	-24	0.0	-3.2
Fort Smith	0	3	12	-17	0.0	-3.7
Hay River	-1	4	11	-14	0.0	-3.6
Inuvik	-16	-1	-6	-34	3.8	-1.3
Lady Franklin Point	-18	3	-5	-31	3.8	2.2
Nicholson Peninsula	-18	1	-8	-26	1.5	-0.1
Norman Wells	-6	2	7	-21	3.5	-0.2
Port Radium	M	X	-3P	-18P	M	X
Robertson Lake	M	X	M	-28P	M	X
Tuktoyaktuk	-19	-1	-11	-29	6.0	4.8
Yellowknife	-4	4	6	-15	2.0	0.4
Baker Lake	-22	-4	-9	-32	0.3	-2.5
Coral Harbour	-21	-4	-12	-31	0.6	-1.4
Ennadai Lake	M	M	OP	-29P	M	M
Jenny Lind Island	-21	1	-9	-31	2.4	2.1
Pelly Bay	-22	-1	-12	-28	0.0	-2.6
Rankin Inlet	-21	X	-12	-29	0.0	X
Shepherd Bay	-25	-2	-10	-34	0.0	-1.3
Broughton Island	-23	-5	-14	-28	2.0	-0.4
Cape Dorset	-18	X	-11	-24	M	X
Cape Dyer	-22	-6	-9	-34	M	M
Cape Hooper	-24	-7	-12	-34	0.0	-2.5
Clyde	-24	-5	-18	-31	1.4	-0.7
Dewar Lakes	-26	-5	-14	-33	0.0	-0.7
Probisher Bay	-18	-3	-5	-33	24.1	17.8
Longstaff Bluff	-24	-4	-15	-33	0.0	-1.8
Pond Inlet	M	X	-20P	-33P	M	X
Alert	-22	2	-16	-28	0.0	-1.6
Eureka	-26	2	-20	-33	0.0	-0.2
Gladman Point	-23	0	-8	-31	6.6	5.6
Hall Beach	-25	-4	-13	-33	0.0	-1.7
Mackay Inlet	-22	-1	-13	-29	0.0	-2.7
Resolute	-25	-2	-19	-31	0.0	-1.3
Byron Bay	-20	2	-7	-33	M	M
Cambridge Bay	-21	1	-9	-32	3.0	1.0
Mould Bay	-22	3	-13	-27	0.2	-0.3
Sachs Harbour	-18	2	-11	-27	5.9	5.1
BRITISH COLUMBIA						
Abbotsford	9	1	23	-1	0.0	-24.5
Alert Bay	8	0	15	0	0.0	-21.2
Amphitrite Point	10	X	16	3	0.0	X
Blue River	5	X	20	-7	M	X
Bull Harbour	7	0	12	-1	0.0	-31.0
Burns Lake	4	X	16	-8	0.0	X
Cape Scott	8	2	13	3	0.0	-51.9
Cape St James	10	3	16	4	1.9	-22.3
Clinton	M	X	17P	-6P	M	X
Comox	8	1	18	-1	0.0	-14.6
Cranbrook	7	2	20	-4	0.0	-5.0
Dease Lake	2	2	9	-7	6.2	3.4
Estevan Point	8	1	15	2	0.2	-61.3
Ethelda Bay	7	X	14	-2	M	X
Fort Nelson	5	3	15	-14	0.0	-4.1
Fort St John	7	4	16	-5	0.0	-5.6
Hoba	11	X	25	1	0.0	X
Kamloops	10	1	24	-3	0.7	-1.2
Langara	7	1	10	3	19.2	-7.3
Lytton	11	3	25	-2	1.5	-1.3
Mackenzie	5	X	16	-6	0.0	X
McInnes Island	9	3	14	3	0.0	-44.1
Penticton	8	-1	21	-3	0.0	-5.3
Port Alberni	M	X	22P	-2P	M	X
Port Hardy	7	0	15	-1	0.0	-27.3
Prince George	6	2	19	-4	0.0	-8.4
Prince Rupert	6	2	12	-1	10.9	-34.9
Puntzi Mountain	4	X	19	-9	M	X
Quesnel	7	2	21	-6	0.0	-5.9
Revelstoke	8	3	22	-2	0.0	-4.5
Sandspit	7	2	12	1	1.6	-19.5
Smithers	6	3	16	-5	0.0	-6.0

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Stewart	7	X	15	0	M	X
Terrace	8	3	16	-1	0.4	-17.7
Vancouver	9	0	16	2	0.0	-14.2
Victoria	9	0	18	-1	0.0	-12.4
Williams Lake	6	2	19	-7	0.0	-6.7
ALBERTA						
Banff	2	0	17	-13	M	M
Calgary	5	1	19	-7	0.0	-6.2
Cold Lake	5	2	22	-7	0.0	-5.7
Coronation	4	1	21	-13	0.0	-4.4
Edmonton Intl	6	3	22	-8	0.0	-5.9
Edmonton Nameo	6	2	21	-7	0.0	-3.2
Edson	5	3	21	-9	0.0	-7.6
Fort Chipewyan	0	-1	13	-19	0.0	-5.0
Fort McMurray	4	3	21	-8	0.0	-5.0
Grande Prairie	6	4	18	-7	0.0	-4.4
High Level	3	-1	13	-15	0.0	-0.5
Jasper	4	1	18	-8	0.0	-5.7
Lethbridge	5	-1	20	-9	0.0	-7.4
Lloydminster	5	X	21	-9	0.0	X
Medicine Hat	5	-1	22	-10	0.0	-3.9
Peace River	6	4	17	-7	0.0	-4.5
Red Deer	6	2	20	-7	0.0	-5.8
Rocky Mountain House	4	1	20	-14	0.4	-8.1
Slave Lake	5	3	15	-8	0.8	-2.4
Whitecourt	6	4	21	-8	0.0	-4.7
SASKATCHEWAN						
Broadview	-6	X	4	-17	2.4	X
Buffalo Narrows	M	M	18P	-14	M	M
Collins Bay	-8	X	7	-24	5.2	X
Cree Lake	-3	X	11	-21	1.6	X
Eastend	M	X	8P	M	M	X
Elbow	2	X	19	-11	M	X
Estevan	-1	-5	14	-10	0.8	-5.1
Hudson Bay	-6	-7	9	-21	M	M
Kindersley	3	0	22	-15	0.0	-4.0
La Ronge	-2	-4	13	-21	0.4	-2.9
Meadow Lake	3	X	20	-11	6.2	X
Moose Jaw	2	-3	18	-11	3.5	-0.6
Nipawin	-6	X	6	-21	1.6	X
North Battleford	2	-1	21	-12	3.2	-0.6
Prince Albert	-3	-5	9	-20	0.4	-4.1
Regina	0	-3	13	-10	0.3	-3.6
Rockglen	M	X	19P	-10	M	X
Saskatoon	0	-3	18	-18	4.0	1.0
Swift Current	3	-1	19	-11	0.0	-4.9
Uranium City	-3	1	12	-21	0.4	-3.2
Wynyard	-2	X	9	-13	0.4	X
Yorkton	-6	-9	4	-19	0.8	-2.8
MANITоба						
Bissett	-3	X	9	-12	1.2	X
Brandon	-3	-6	6	-11	0.8	-5.1
Churchill	-16	-5	-3	-26	0.0	-6.5
Dauphin	-7	-10	4	-19	0.6	-5.4
Gillam	-12	X	5	-27	1.6	X
Gimli	-3	-5	6	-10	2.6	-5.1
Grand Rapids	M	X	3P	-27	M	X
Island Lake	-9	X	8	-22	M	X
Lynn Lake	-8	-9	9	-24	11.6	5.9
Norway House	-8	X	5	-21	0.4	X
Pilot Mound	-3	-8	4	-11	5.6	-2.9
Portage la Prairie	-3	-7	6	-10	3.4	-4.5
The Pas	-8	-8	6	-23	1.9	-4.6
Thompson	-11	-11	5	-27	1.2	-4.2
Winnipeg	-2	-5	7	-10	2.4	-5.9
ONTARIO						
Armstrong	M	M	6P	-25	M	M
Atikokan	-4	-8	9	-17	22.0	4.1
Barrie	M	X	10P	-4P	M	X
Big Trout Lake	-11	-7	2	-21	11.6	4.8
Britt	M	X	11P	-7P	M	X
Caribou Island	M	X	M	M	M	X
Earlton	0	-3	7	-11	M	M
Geraldton	-10	X	6	-30	31.5	X
Gore Bay	2	-3	10	-8	31.9	18.5
Kapuskasing	-4	-5	8	-17	31.6	20.3
Kenora	-1	-4	9	-11	0.0	-10.0
Kingston	4	-2	14	-3	M	M
Lansdowne House	-8	-6	4	-25	8.0	0.2
London	4	-3	14	-3	34.5	15.8
Moosonee	-6	-4	6	-16	12.7	3.8
Mount Forest	2	-3	10	-5	M	M
Muskoka	4	-1	12	-8	22.5	6.2
Nagagami	M	X	6P	-15P	M	X
North Bay	2	-2	11	-9	21.8	7.1
Ottawa	4	-2	17	-6	12.6	-4.9

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Petawawa	2	X	14	-7	7.6	-2
Pickle Lake	-6	-5	10	-19	6.8	-3
Red Lake	-4	-5	8	-14	0.2	-3
Simcoe	4	-3	14	-3	M	M
Sioux Lookout	-3	-5	10	-15	4.0	-5
Sudbury	0	-4	8	-9	32.9	19
Thunder Bay	-5	-7	3	-18	40.9	31
Timmins	-3	-6	8	-15	14.6	0
Toronto	4	-2	12	-4	M	M
Trenton	5	-2	13	-3	11.0	-5
Upsala	M	X	-1P	-24P	M	M
Wawa	-3	X	9	-14	36.4	5
Warton	3	-2	15	-5	22.6	5
Windsor	4	-4	16	-3	33.6	18
QUEBEC						
Bagotville	3	1	10	-4	31.8	20
Baie-Comeau	1	1	6	-6	50.2	41
Blanc-Sablon	0	2	12	-15	4.0	-11
Border	M	M	6P	1P	M	M
Chevery	M	X	8P	-12P	M	M
Chibougamau	-2	X	7	-13	33.8	5
Gaspé	0	X	7	-6	41.6	5
Inukjuak	-14	-3	-6	-26	13.6	5
Kuujuuaq	-8	1	9	-26	18.8	15
Kuujuarapik	-8	-2	7	-18	11.9	4
Lac-Eon	M	X</				