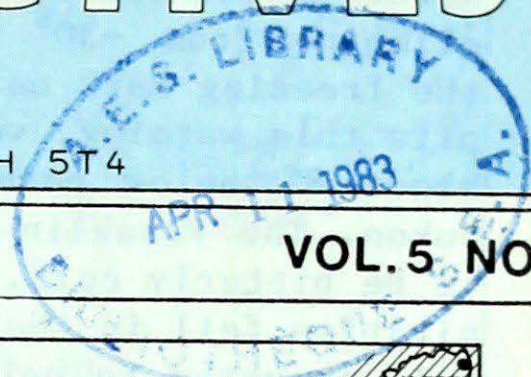


CLIMATIC PERSPECTIVES



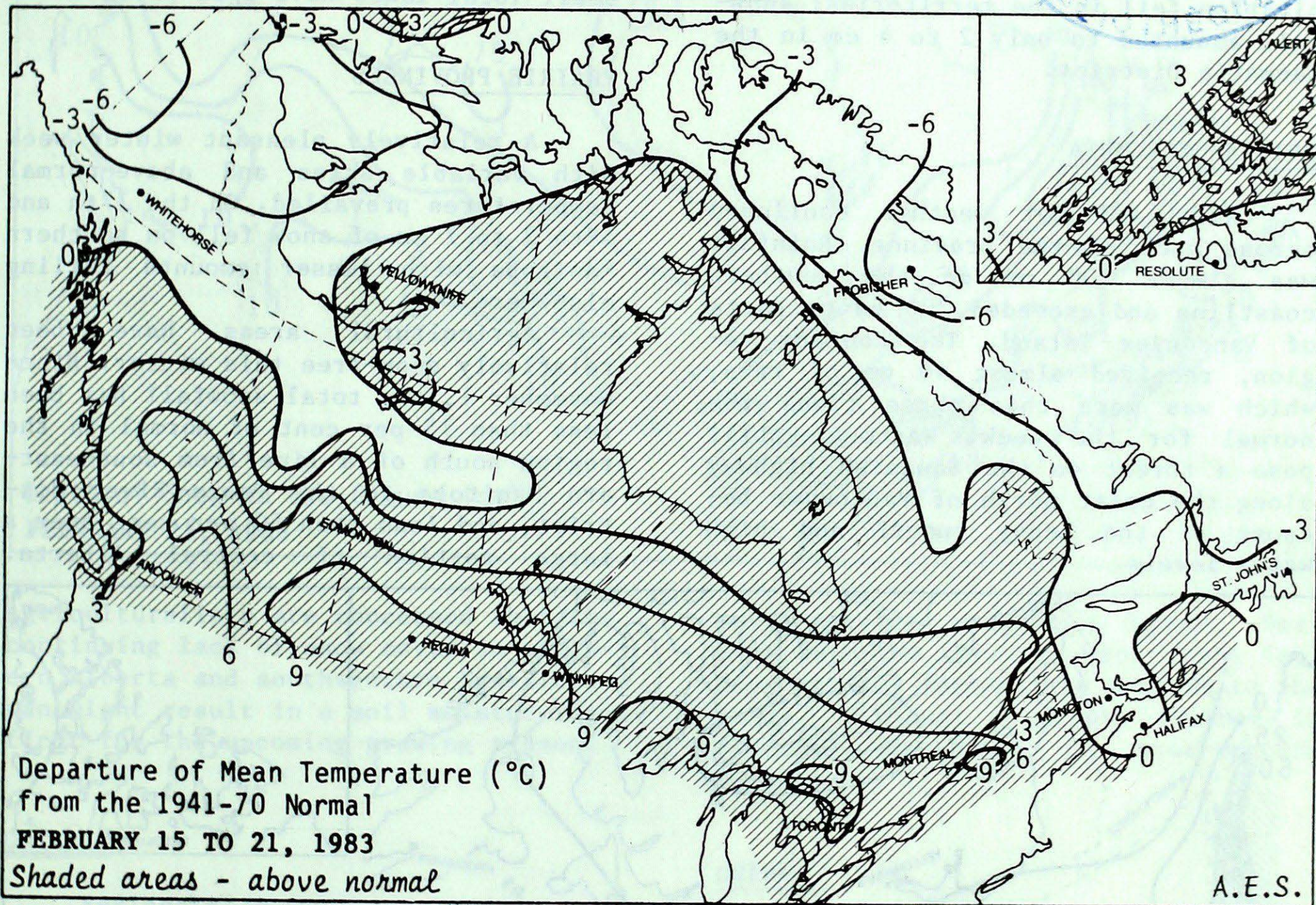
THE CANADIAN CLIMATE CENTRE,
ATMOSPHERIC ENVIRONMENT SERVICE,
4905 DUFFERIN ST., DOWNSVIEW, ONTARIO M3H 5T4



FEBRUARY 25, 1983

(Aussi disponible en français)

VOL. 5 NO. 8



WEATHER HIGHLIGHTS FOR THE PERIOD - FEBRUARY 15-21, 1983

Below Normal Ice Cover on the Great Lakes

Persistently mild winter weather in central Canada contributed to the much greater than normal open water areas in the Great Lakes. However, the bays and inlets had normal ice cover. Lake Erie, which normally freezes over by February, had extensive areas of open water. At least 5 outdoor enthusiasts drowned in southwestern Ontario after they ventured on to the thin lake ice. Ice cover in the St. Lawrence sea-

way was also much below normal and navigation lanes remained open for shipping.

In contrast, extensive pack ice covered the eastern seaboard. Close pack ice extended as far south as Cape Race Nfld. and up to 130 km east of St. John's, Nfld.

Temperatures ranged from 14° at Windsor, Ont. to -47° at Ogilvie, Y.T. Amthitrite Point, B.C. received 218.6 mm of rain.

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

Temperatures moderated markedly across southern and central Yukon; climbing from -30° on February 15 to the freezing mark on February 21. Despite this warming, weekly averages were about 8° below normal in the central Yukon. The Franklin District continued to be bitterly cold. Very little precipitation fell in the territories; snowfall amounted to only 2 to 4 cm in the Keewatin District.

BRITISH COLUMBIA

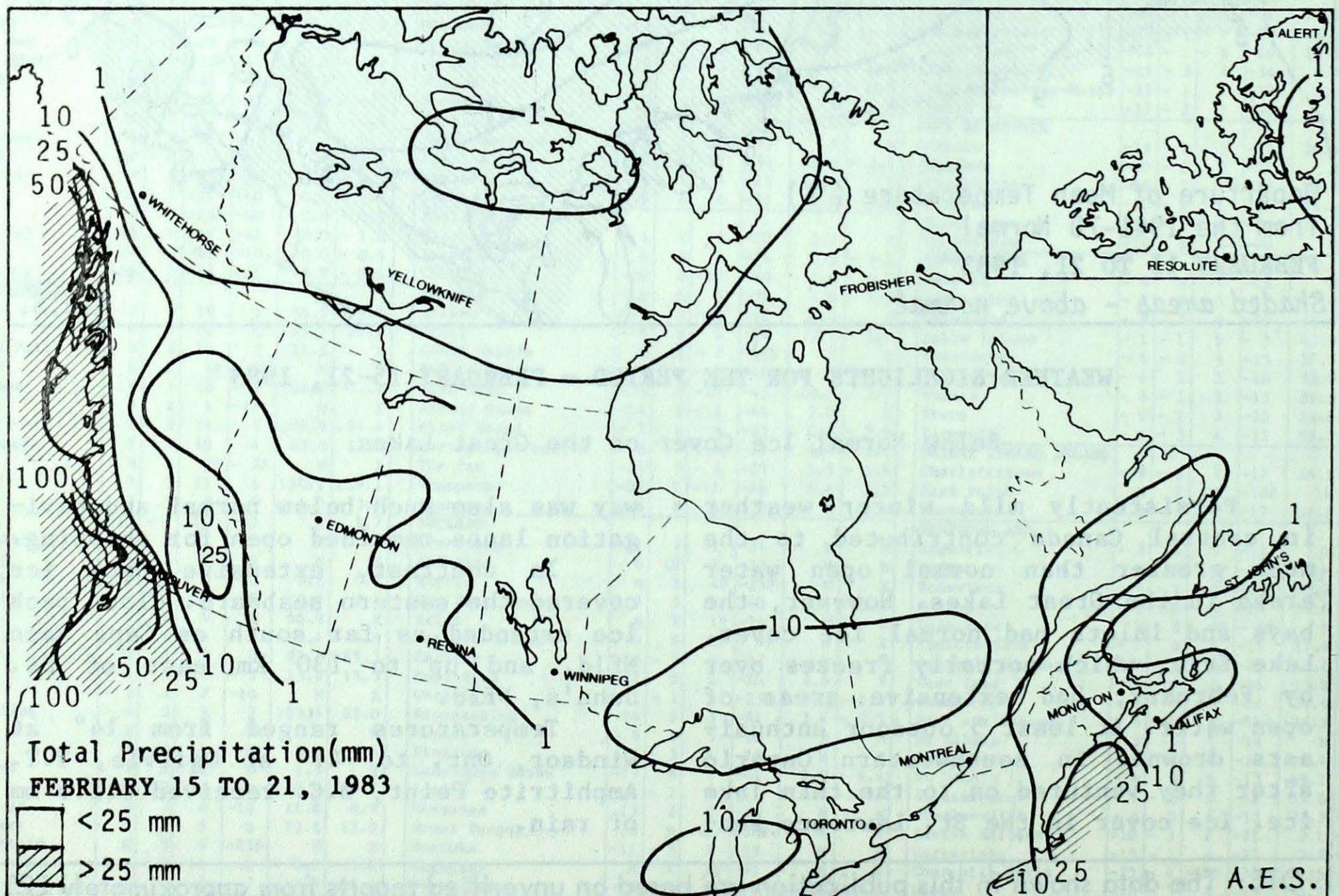
Warm and wet weather continued across much of the province. Rainfall was almost 100 mm on the southern coastline and exceeded 200 mm on parts of Vancouver Island. The Kootany region, received almost 40 mm of rain, which was more than three times the normal for the week. Washouts still pose a threat on the Squamish highway along the coast north of Vancouver because of the heavy runoff and high water levels.

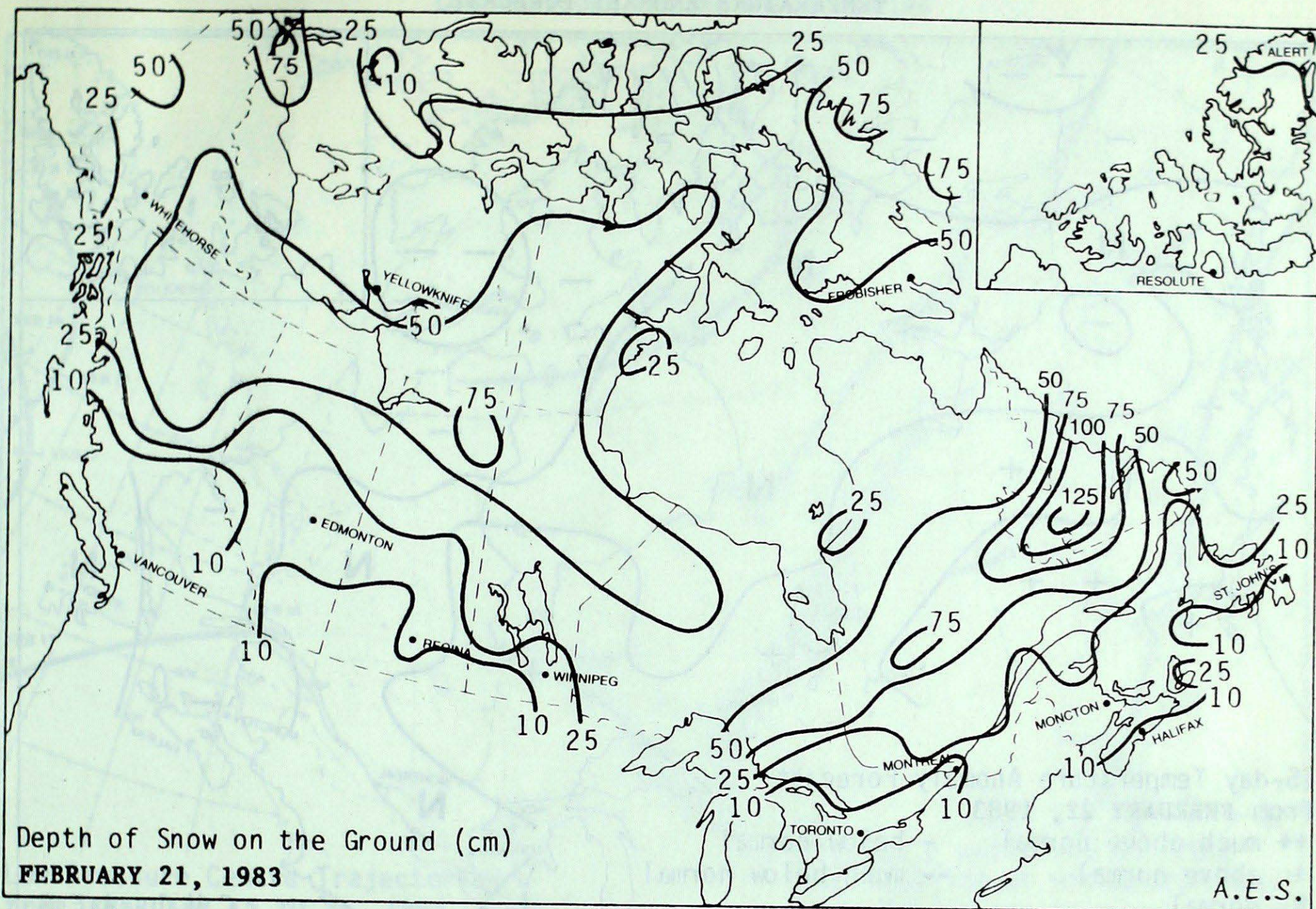
Mean temperatures with the exception of the Fort Nelson area were above normal, as much as 8° in the central interior. Maximum temperatures throughout the south frequently exceeded 10° . Logging operations were hampered owing to soft muddy roads. Snow has been melting rapidly in the interior valleys; at Castlegar, the snow depth decreased from 22 cm to a trace, and many small local lakes have open water.

PRAIRIE PROVINCES

A relatively pleasant winter week with variable skies and above-normal temperatures prevailed. On the 17th and 18th 2 to 7 cm of snow fell on southern Manitoba with lesser amounts falling elsewhere.

Agricultural areas have been relatively snow-free this winter. Since November 1, the total snowfall has been less than 75 per cent of normal in the region south of a line from southeastern Manitoba to the Peace River district, and less than 50 per cent over a large portion of central Alberta.





Agriculturalists are concerned that the continuing lack of snow cover in southern Alberta and southwestern Saskatchewan might result in a soil moisture deficit for the upcoming growing season.

ONTARIO

Residents in southern Ontario enjoyed spring-like weather. Under mainly sunny skies, balmy temperatures averaged 5 to 8 degrees above normal. Precipitation was scant. Most of southern Ontario (from Kingston to Windsor and including the Bruce Peninsula) was snow-free. The snow cover was only 15 cm in the Ottawa Valley. Lack of adequate snow at Muskoka resorts has resulted in one of the poorest skiing seasons in many years. A weather system crossing northern Ontario deposited sufficient snow to produce a snow cover in the 40 to 55 cm range north of Sudbury. Mild air accompanying this disturbance produced a few daily record high temperatures. Owing to the persistent mild weather, the Great lakes ice

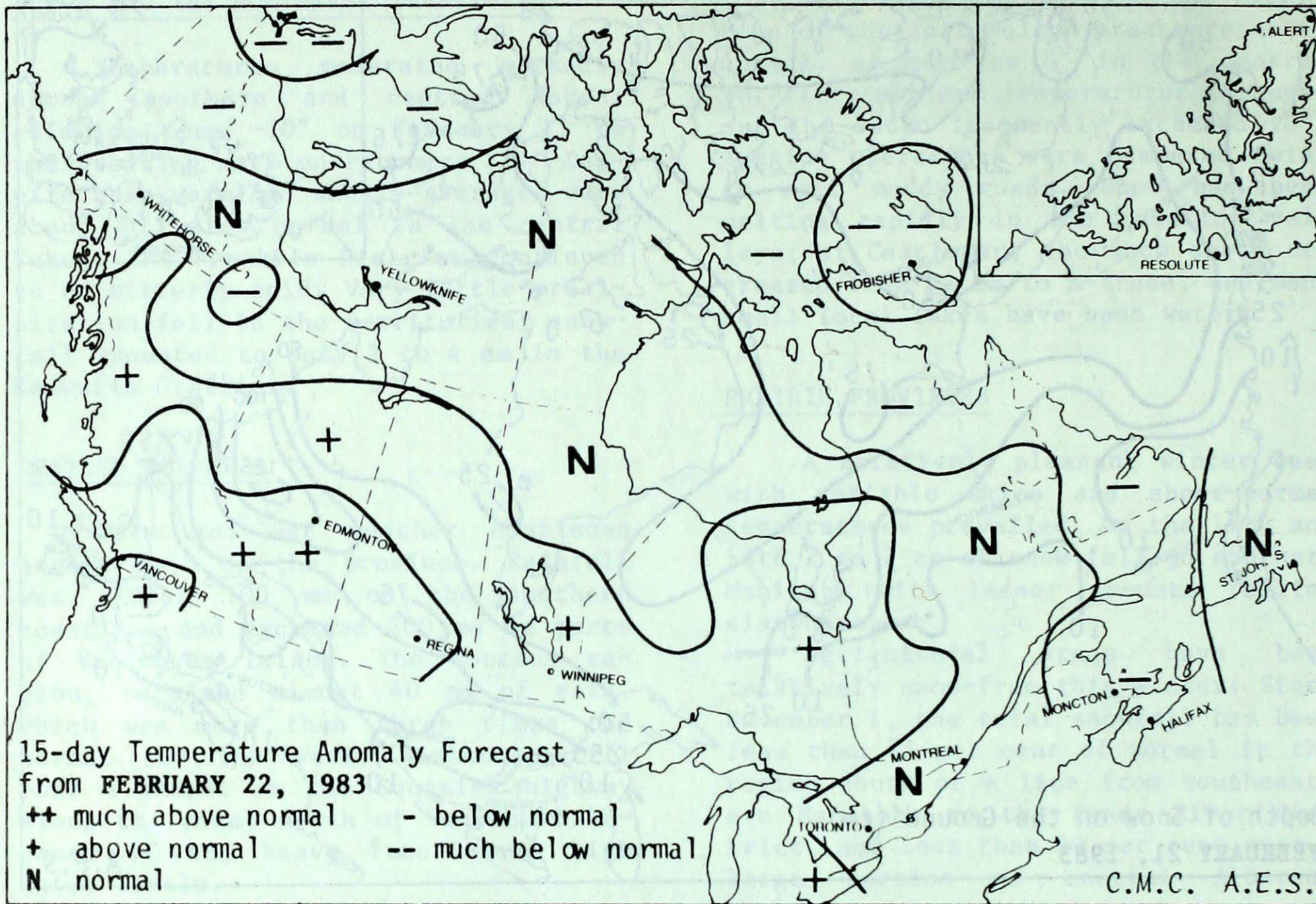
cover remained much below normal. Despite repeated warnings about thin ice, many outdoor enthusiasts went on to the lakes. At least 5 people drowned in separate incidents in southwestern Ontario.

QUÉBEC

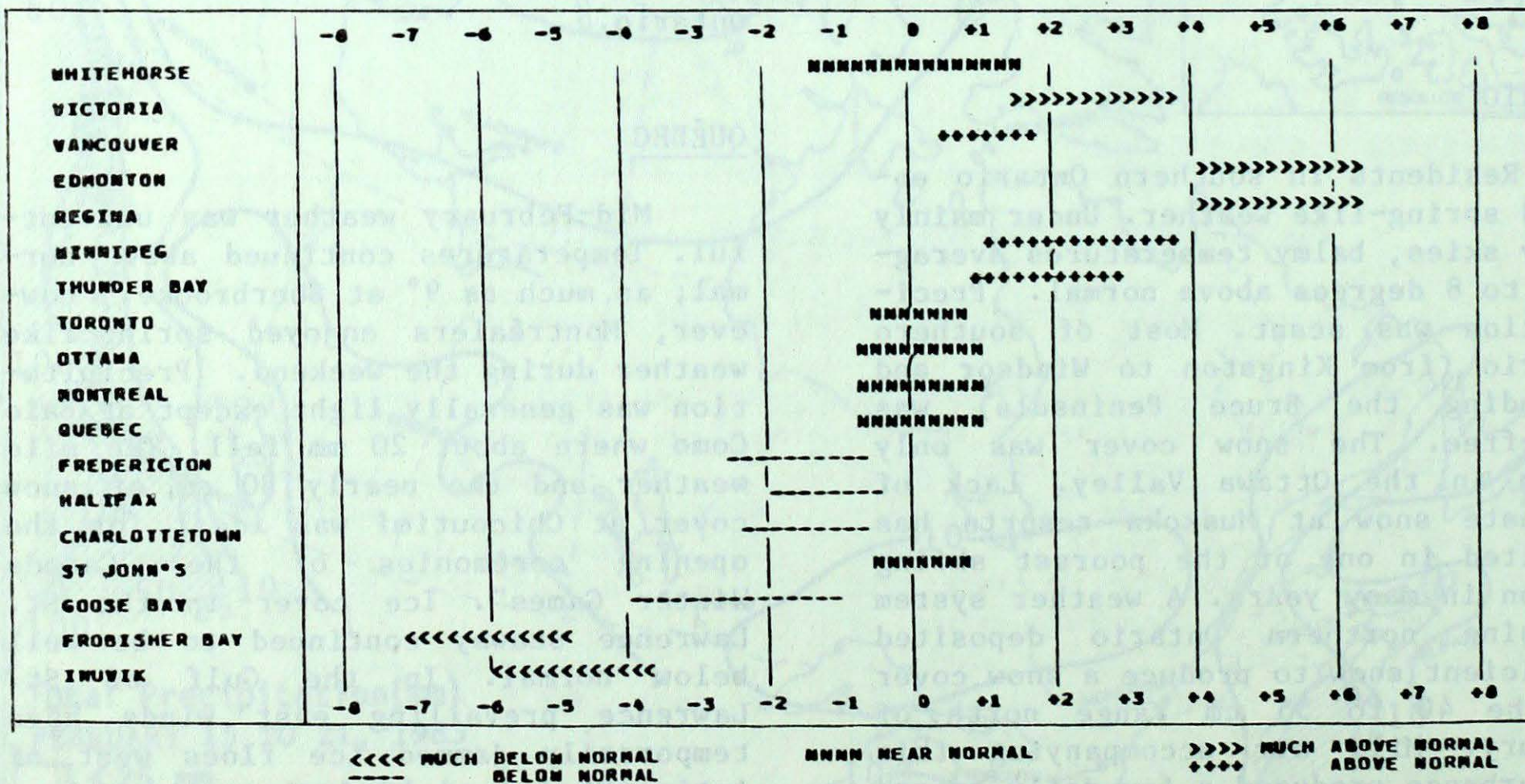
Mid-February weather was uneventful. Temperatures continued above normal; as much as 9° at Sherbrooke. However, Montréalers enjoyed spring-like weather during the weekend. Precipitation was generally light except at Baie Come where about 20 mm fell. The mild weather and the nearly 30 cm of snow cover at Chicoutimi was ideal for the opening ceremonies of the "Canada Winter Games". Ice cover in the St. Lawrence seaway continued to be well below normal. In the Gulf of St. Lawrence prevailing east winds have temporarily jammed ice floes west of Anticosti Island hindering navigation; two ice-breakers assisted the ships in this area.

(continued on page 7)

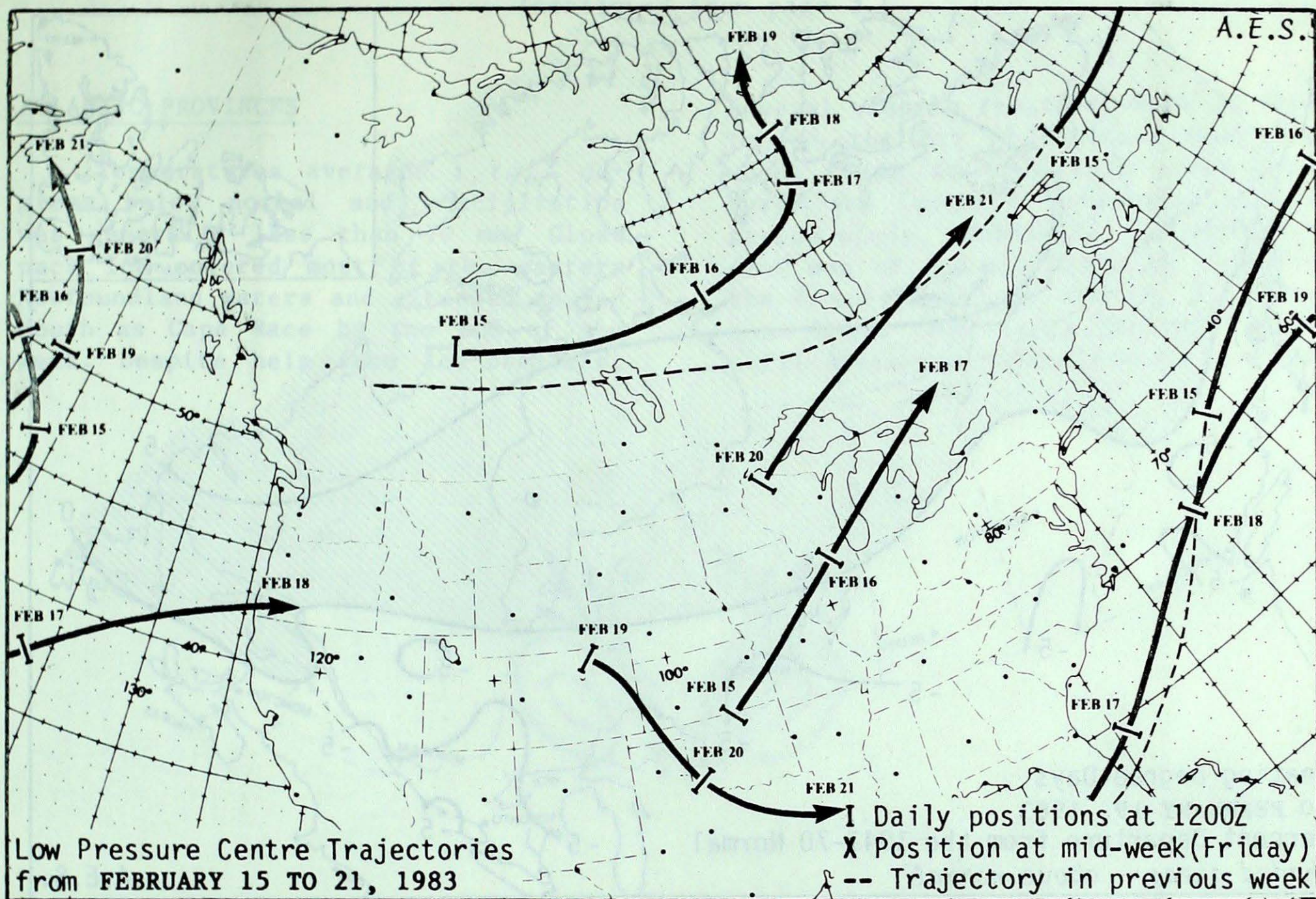
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR FEB 22 1983 TO MAR 8 1983



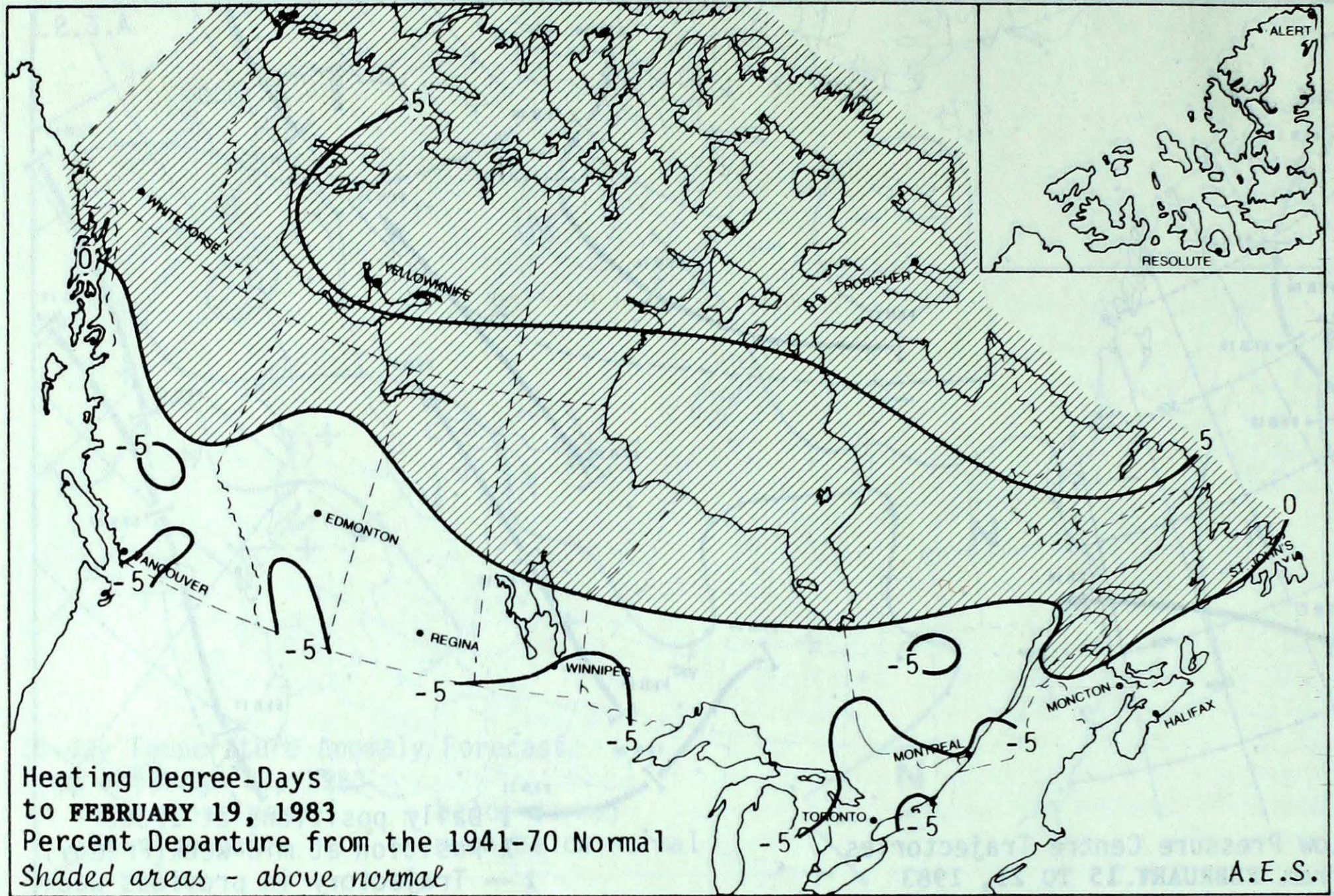
LOW PRESSURE CENTRE TRAJECTORIES



EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	1.9	WHITEHORSE	-47.0	OGILVIE	2.1	WATSON LAKE
NORTHWEST TERRITORIES	-4.3	FORT SMITH	-46.1	SHEPHERD BAY	8.1	FORT SMITH
BRITISH COLUMBIA	13.6	ESTEVAN POINT	-26.0	FORT NELSON	218.6	AMPHITRITE POINT
ALBERTA	11.0	CALGARY	-37.5	FORT CHIPEWYAN	7.0	HIGH LEVEL
SASKATCHEWAN	7.6	SWIFT CURRENT	-38.8	COLLINS BAY	8.4	COLLINS BAY
MANITOBA	5.2	PILCT MOUND	-38.7	THOMPSON	14.4	CHURCHILL
ONTARIO	14.0	WINGSOR	-35.0	BIG TROUT LAKE	24.9	TIMMINS
QUEBEC	6.1	SHERBROOKE	-36.4	NITCHEQUON	22.2	BAIE COMEAU
NEW BRUNSWICK	4.7	FREDERICTON	-22.8	CHATHAM	11.0	FREDERICTON
NOVA SCOTIA	8.4	SHELBURNE	-21.9	GREENWOOD	28.7	YARMOUTH
PRINCE EDWARD ISLAND	2.7	SUMMERSIDE	-18.2	SUMMERSIDE	7.6	SUMMERSIDE
NEWFOUNDLAND	3.3	BURCEO	-37.2	WABUSH LAKE	11.8	BATTLE HARBOUR

HEATING DEGREE-DAY SUMMARY TO FEBRUARY 19, 1983



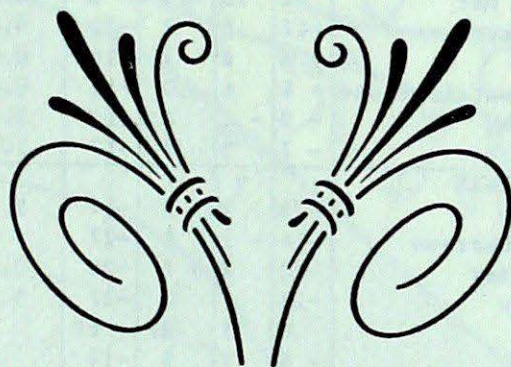
STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PER CENT OF NORMAL
Resolute	995.0	5.0	8306.0	364.0	105
Inuvik	903.0	-20.0	6938.0	239.0	104
Whitehorse	615.0	-2.0	4791.0	70.5	101
Vancouver	235.5	-30.5	1881.0	-61.0	97
Edmonton Mun	508.5	-45.5	3564.5	-194.0	95
Calgary	403.5	-98.5	3249.5	-236.5	93
Regina	561.0	-70.0	3799.0	-178.5	96
Winnipeg	580.5	-78.5	3735.5	-199.5	95
Thunder Bay	514.0	-95.0	3608.0	-149.5	96
Windsor	386.0	-35.0	2132.5	-225.0	90
Toronto	421.5	-42.5	2484.0	-167.0	94
Ottawa	505.0	-30.0	2928.0	-209.0	93
Montreal	485.5	-48.5	2840.5	-162.5	95
Quebec	525.0	-40.0	3213.0	-165.5	95
Saint John, N.B.	462.5	-39.5	2855.5	-164.5	95
Halifax	412.5	-20.5	2397.5	-95.0	96
Charlottetown	454.5	-39.5	2750.0	-100.5	96
St. John's, Nfld.	393.5	-45.5	2454.5	-51.5	98

(continued from page 3)

ATLANTIC PROVINCES

Temperatures averaged 1 to 3 degrees below normal and precipitation was generally less than 10 mm. Close pack ice covered most of the eastern Newfoundland waters and extended as far south as Cape Race by the end of the week. Despite help from ice-breakers,

several vessels remained stuck in thick ice in the Bay of Exploits near Botwood. Owing to more than normal icebergs and frequent occurrences of very strong winds, 'Mobile Oil Canada' withdrew one of its oil drilling rigs from the Grand Banks. At Sydney, N.S. deep snow banks from early February storms still disrupted public transportation.



CLIMATIC PERSPECTIVES

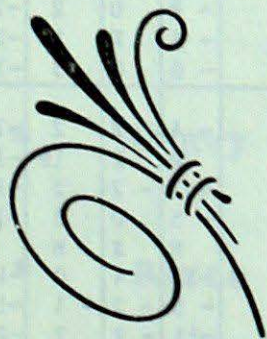
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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. FEBRUARY 22, 1983

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
YUKON						
Burwash	-23	-7	1	-43	0.0	-1.9
Dawson	-31	-8	-17	-43	0.4	-3.5
Faro	-21	X	-4	-39	M	X
Komakuk Beach	-32	-4	-25	-38	0.0	-0.5
Mayo	-25	-5	-2	-44	0.0	-3.2
Shingle Point	-32	-4	-25	-40	0.4	-0.5
Teslin	-17	X	1	-36	M	X
Watson Lake	-22	-3	-9	-35	2.1	-5.0
Whitehorse	-16	-3	2	-37	0.0	-3.9
NORTHWEST TERRITORIES						
Cape Parry	-33	-1	-28	-38	M	M
Cape Young	-35	-4	-27	-42	1.0	0.8
Clinton Point	-30	0	-25	-37	0.0	-0.4
Coppermine	-34	-2	-25	-42	1.9	0.2
Fort Reliance	-27	2	-11	-42	M	M
Fort Simpson	-26	-1	-16	-37	4.4	1.4
Fort Smith	-21	4	-4	-38	8.1	4.5
Hay River	-24	0	-14	-37	3.4	-0.4
Inuvik	-34	-4	-25	-44	M	M
Lady Franklin Point	M	M	-27P	-41	3.2	2.7
Nicholson Peninsula	M	M	-25P	-38	0.0	-0.1
Norman Wells	-33	-5	-24	-41	0.0	-3.4
Port Radium	M	X	-19P	-35P	M	X
Robertson Lake	M	X	-26P	-38P	M	X
Tuktoyaktuk	M	M	-25P	-40	0.4	0.3
Yellowknife	-25	2	-12	-38	0.2	-2.4
Baker Lake	-33	1	-23	-38	0.0	-0.8
Coral Harbour	-29	1	-23	-34	1.8	0.1
Ennadai Lake	M	M	-14P	-38P	M	M
Jenny Lind Island	M	M	-25P	-42	3.0	3.0
Pelly Bay	-34	1	-27	-40	0.0	-0.1
Rankin Inlet	-30	X	-21	-38	0.7	X
Shepherd Bay	M	M	-33P	-46	M	M
Broughton Island	-29	-4	-21	-37	0.4	-2.7
Cape Dorset	-28	X	-18	-35	4.8	X
Cape Dyer	-30	-8	-12	-41	M	M
Cape Hooper	-29	-5	-24	-35	2.0	-1.9
Clyde	-32	-4	-26	-39	M	M
Dewar Lakes	-32	-5	-22	-38	1.6	1.2
Profisher Bay	-32	-7	-15	-42	M	M
Longstaff Bluff	-33	-5	-21	-41	0.2	-2.1
Pond Inlet	-38	X	-32	-42	M	X
Alert	-29	5	-22	-37	0.0	-1.7
Eureka	-35	3	-26	-42	1.0	0.5
Gladman Point	M	M	-26P	-45	2.8	2.4
Hall Beach	-38	-5	-28	-45	0.0	-1.5
Mackay Inlet	-32	1	-26	-38	0.6	-0.1
Resolute	-35	-1	-31	-40	0.0	-0.4
Byron Bay	M	M	-26P	-41	2.3	2.1
Cambridge Bay	-37	-2	-27	-42	2.0	1.2
Mould Bay	-34	2	-25	-42	M	M
Sachs Harbour	-29	4	-21	-37	0.0	-0.4
BRITISH COLUMBIA						
Abbotsford	8	3	13	2	61.5	17.3
Alert Bay	6	1	10	2	44.3	18.2
Amphitrite Point	9	X	13	6	218.6	X
Blue River	M	X	6P	-1P	M	X
Bull Harbour	7	2	10	2	59.6	28.4
Burns Lake	-2	X	7	-14	M	X
Cape Scott	7	1	9	3	115.5	55.4
Cape St James	7	3	12	5	40.2	14.5
Clinton	M	X	6P	-4P	M	X
Comox	7	3	11	1	66.8	40.1
Cranbrook	2	5	8	-4	6.9	2.3
Dease Lake	-14	1	3	-25	15.1	5.6
Estevan Point	8	3	14	4	82.8	14.2
Ethelda Bay	6	X	10	-1	M	X
Fort Nelson	-18	0	-5	-26	3.4	-2.9
Fort St John	-10	4	6	-21	1.0	-6.8
Hope	7	X	12	1	57.9	X
Kamloops	5	6	13	-2	5.6	2.2
Langara	6	3	10	4	32.1	-1.4
Lytton	6	3	11	-1	17.1	8.3
Mackenzie	-3	X	5	-12	M	X
McInnes Island	M	M	10P	4	M	M
Nanaimo	M	X	M	M	M	X
Penticton	5	5	10	-1	6.0	1.6
Port Alberni	M	X	11P	2P	M	X
Port Hardy	6	3	10	2	60.6	24.9
Prince George	1	8	8	-6	9.9	0.8
Prince Rupert	5	1	10	-2	40.0	-28.8
Puntzi Mountain	M	X	7P	-11P	M	X
Quesnel	3	8	9	-3	4.8	-6.0
Revelstoke	3	3	8	-1	37.9	25.6
Sandspit	7	3	10	2	44.2	19.9
Smithers	-1	5	7	-8	0.8	-6.8

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Stewart	M	X	6	-3P	M	X
Terrace	2	3	7	-2	14.8	-13.5
Vancouver	7	3	13	2	93.5	67.3
Victoria	7	3	12	2	72.1	49.9
Williams Lake	2	5	8	-7	4.6	-3.7
ALBERTA						
Banff	0	7	5	-7	M	M
Calgary	-1	8	11	-11	0.0	-4.7
Cold Lake	-11	7	6	-20	1.1	-4.9
Coronation	-7	7	4	-16	0.4	-3.8
Edmonton Intl	-7	7	7	-17	0.5	-5.3
Edmonton Namao	-7	7	6	-16	0.0	-7.0
Edson	-6	0	8	-16	1.0	0.3
Fort Chipewyan	-19	-1	-5	-38	6.1	2.6
Fort McMurray	-14	5	2	-26	3.2	-2.0
Grande Prairie	-10	4	6	-21	0.8	-7.3
High Level	-20	-1	2	-35	7.0	5.2
Jasper	0	8	6	-9	2.0	-5.7
Lethbridge	2	10	11	-6	0.0	-4.8
Lloydminster	-10	6	3	-19	0.0	-3.6
Medicine Hat	0	10	10	-8	0.0	-3.7
Peace River	-12	5	2	-21	4.6	-2.5
Red Deer	-4	8	7	-14	0.0	-5.2
Rocky Mountain House	-4	6	10	-14	0.0	-5.9
Slave Lake	-9	-1	4	-19	2.2	-1.6
Whitecourt	-7	5	7	-17	1.9	-5.9
SASKATCHEWAN						
Broadview	-8	X	2	-17	2.8	X
Buffalo Narrows	-14	-1	5	-27	M	M
Collins Bay	-20	X	-6	-39	8.4	X
Cree Lake	-18	X	0	-37	5.3	X
Eastend	M	X	2P	-6P	M	X
Elbow	-6	X	5	-14	M	X
Estevan	-4	11	4	-11	0.6	-2.1
Hudson Bay	-12	7	2	-24	M	M
Kindersley	-6	9	5	-15	0.0	-2.9
La Ronge	-13	3	7	-26	1.9	-2.0
Meadow Lake	-12	X	4	-21	4.5	X
Moose Jaw	-3	10	6	-12	0.7	-1.8
Nipawin	-12	X	0	-22	1.2	X
North Battleford	-10	7	3	-18	3.2	-0.2
Prince Albert	-11	8	4	-20	0.8	-2.9
Regina	-7	9	3	-15	0.6	-1.7
Rockglen	M	X	7P	-9P	M	X
Saskatoon	-8	9	4	-17	1.0	-1.7
Swift Current	-3	10	8	-13	M	M
Uranium City	-21	4	-6	-38	5.2	0.8
Wynyard	-9	X	2	-18	3.2	X
Yorkton	-9	8	1	-18	4.9	2.0
MANITOBA						
Bissett	-10	X	0	-20	6.6	X
Brandon	-8	10	3	-18	7.3	5.1
Churchill	-25	3	-15	-36	14.4	11.8
Dauphin	-9	9	4	-19	6.4	3.9
Gillam	-20	X	-2	-37	5.2	X
Gimli	-9	9	0	-19	7.8	3.4
Grand Rapids	-14	X	2	-29	M	X
Island Lake	-16	X	-1	-33	M	X
Lynn Lake	-20	-1	-5	-38	1.1	-4.5
Norway House	-15	X	-1	-32	8.0	X
Pilot Mound	-6	12	5	-17	5.0	2.0
Portage la Prairie	-7	10	5	-16	4.2	0.5
The Pas	-14	6	2	-29	6.3	2.3
Thompson	-19	1	-1	-39	7.2	3.5
Winnipeg	-8	10	1	-17	7.4	3.1
ONTARIO						
Armstrong	M	M	2P	-20P	M	M
Atikokan	-4	10	2	-11	20.0	15.8
Barrie	M	X	5P	-3	M	X
Big Trout Lake	-16	5	-1	-35	5.3	0.0
Britt	M	X	6P	-9P	M	X
Caribou Island	M	X	2P	-3P	M	X
Earlton	-6	8	4	-23	M	M
Geraldton	-9	X	2	-21	13.3	X
Gore Bay	0	9	5	-8	5.4	-3.8
Kapuskasing	-10	6	1	-22	12.6	1.4
Kenora	-8	8	1	-17	6.3	-0.1
Kingston	1	8	9	-6	M	M
Lansdowne House	-15	4	2	-32	0.2	-5.6
London	2	8	11	-2	2.6	-11.5
Moosonee	-15	3	3	-32	10.5	-1.6
Mount Forest	1	9	7	-6	M	M
Muskoka	0	10	6	-7	M	M
Nagami	M	X	1P	-24	M	X
North Bay	-3	8	5	-12	4.8	-7.1
Ottawa	-2	8	6	-9	2.0	-10.4

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
Petawawa	-6	X	3	-15	2.2	-
Pickle Lake	-12	7	1	-25	1.8	-
Red Lake	-11	6	0	-23	4.0	-
Simcoe	2	9	11	-2	M	-
Sioux Lookout	-8	9	1	-17	11.5	-
Sudbury	-3	9	3	-14	5.7	-
Thunder Bay	-3	10	3	-10	21.4	14.1
Timmins	-9	8	3	-22	24.9	14.1
Toronto	1	7	6	-4	0.6	-
Trenton	1	8	11	-6	3.6	-
Upsala	M	X	2	-14P	M	-
Wawa	-5	X	2	-17	23.7	-
Warton	1	8	11	-5	3.6	-
Windsor	4	7	14	0	3.6	-
QUÉBEC						
Bagotville	-10	3	2	-25	8.4	-
Basile-Comeau	-11	4	-1	-22	22.2	-
Blanc-Sablon	-12	-2	-3	-21	9.6	-11.1
Border	M	M	-9P	-32P	M	-
Chevery	-12	X	-2	-12	M	-
Chibougamau	-12	X	0	-28	16.8	-
Gaspé	-12	X	0	-24	0.0	-
Grindstone Island	-6	1	0	-11	2.0	-15.1
Inukjuak	-23	2	-5	-34	5.8	-
Kuujuuaq	-24	-2	-3	-35	2.8	-
Kuujuarapik	-20	2				