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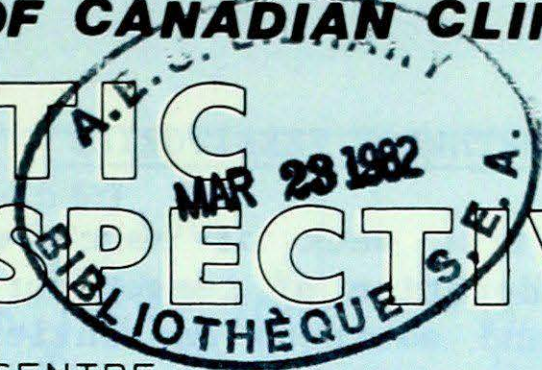
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A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES



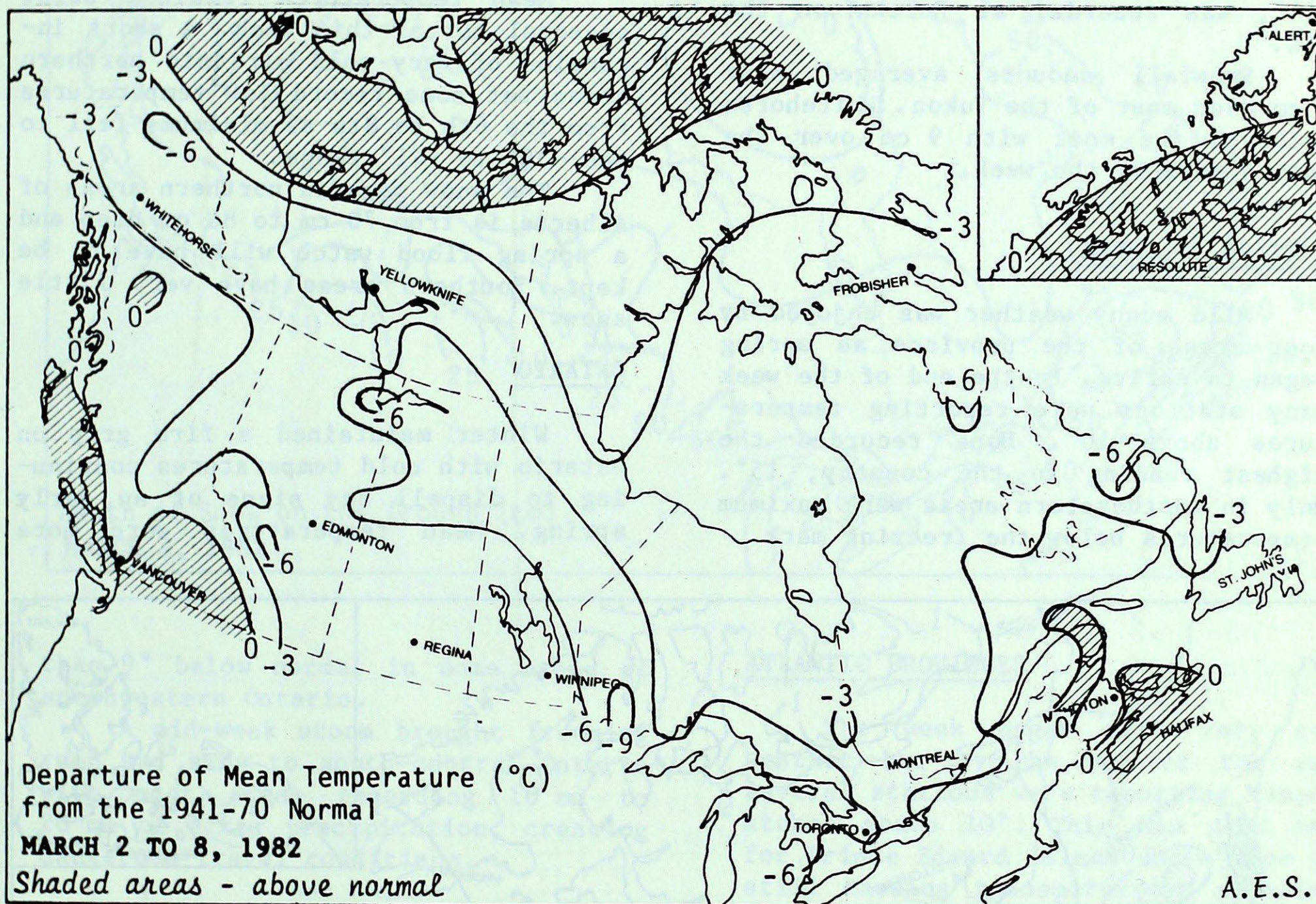
Canada

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

MARCH 12, 1982

(Aussi disponible en français)

VOL.4 NO.9



WEATHER HIGHLIGHTS FOR THE PERIOD - MARCH 2 TO 8, 1982

Signs of spring appear on both coasts

Both the Atlantic Provinces and British Columbia showed the first signs of spring this week. Many stations in both regions enjoyed maximum temperatures of 10° to 15° . By the end of the week only a few stations in these areas recorded maximum temperatures below the freezing mark.

Winter remained firmly entrenched over the rest of the country and low temperature records were set in the northern Prairies during mid-week.

Temperatures varied from 15° at Hope, B.C. to -44° at Eureka, N.W.T. Burgeo, Nfld. measured the greatest precipitation total, 68.6 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 NORTHWEST TERRITORIES

This first week of March saw a dramatic moderation of temperatures in the Yukon and southern Mackenzie Districts. Temperatures which were 15° to 20° below normal in the Yukon at the beginning of the week were close to seasonal normal by the end of the week. The lowest temperature in the country, -44°, was recorded at Eureka on the 5th.

Snowfall amounts averaged near 3 cm over most of the Yukon. Whitehorse recorded the most with 9 cm over the last 3 days of the week.

BRITISH COLUMBIA

Mild sunny weather was enjoyed by most areas of the province as spring began to arrive. By the end of the week many stations were reporting temperatures above 10°. Hope recorded the highest reading in the country, 15°. Only in northeastern areas were maximum temperatures below the freezing mark.

In contrast to previous weeks, precipitation was well below normal at almost every station. The 60.2 mm recorded at Amphitrite Point was more than 180 mm below the total of the previous week.

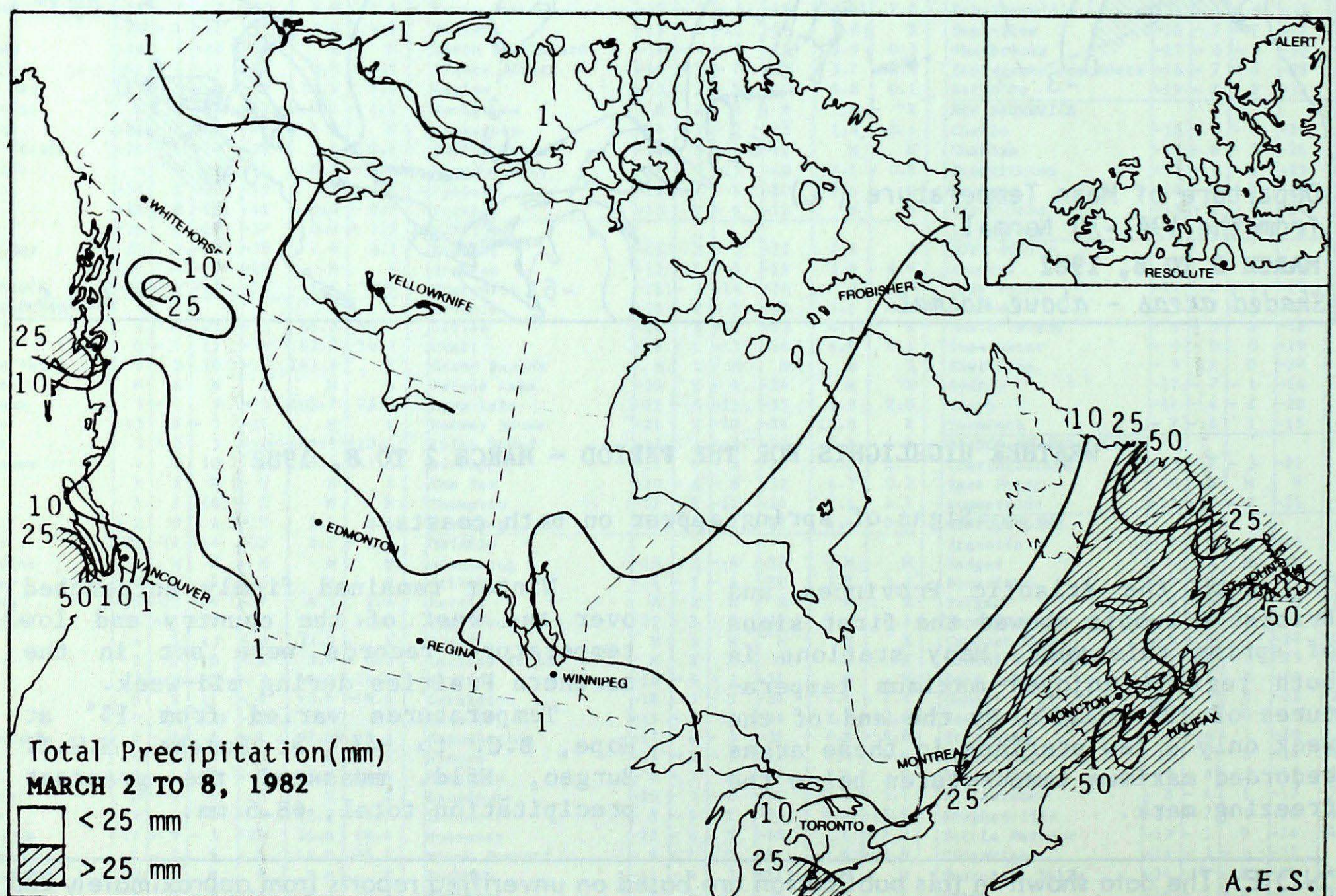
PRAIRIE PROVINCES

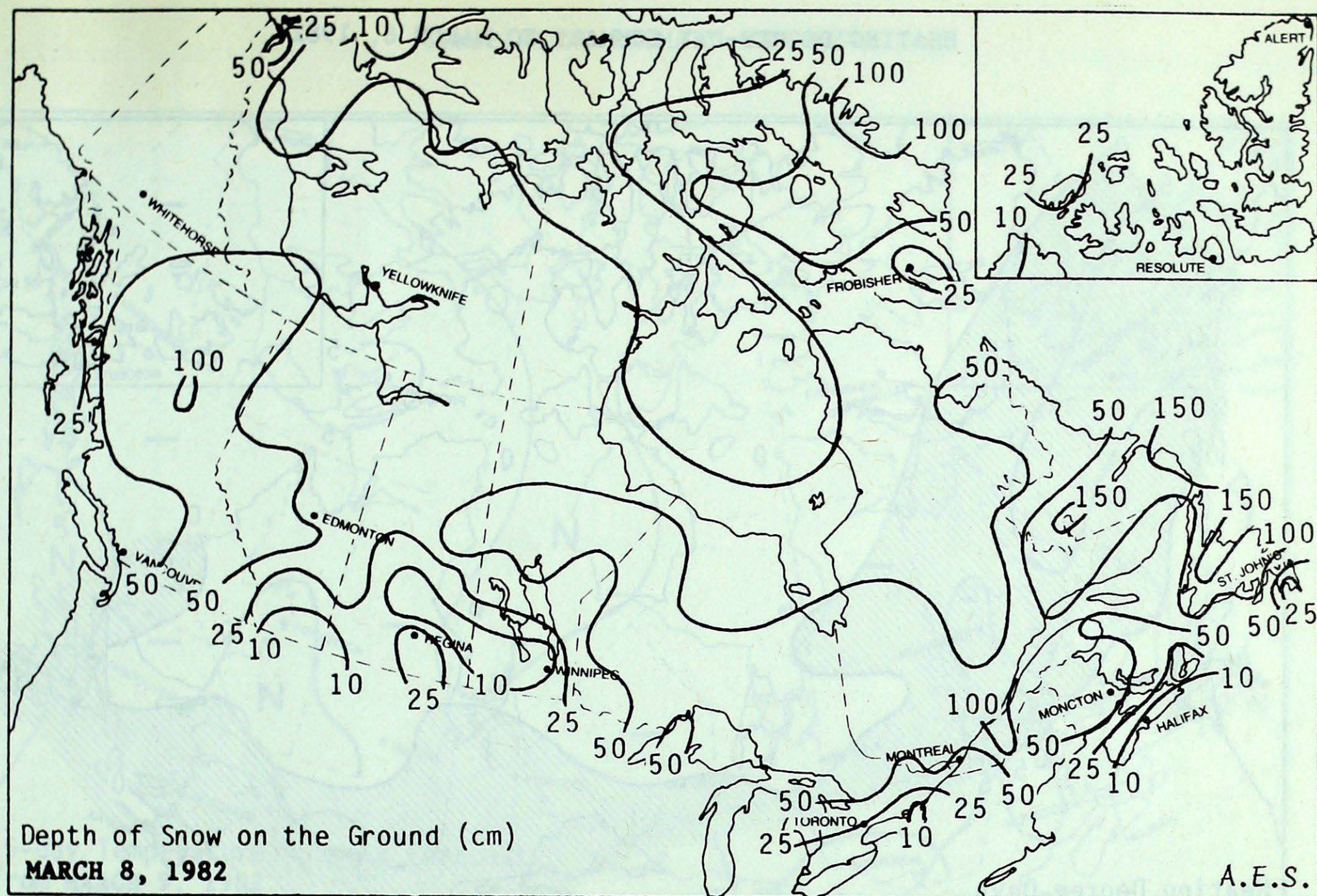
Mean temperatures remained below seasonal normal this week. A short incursion of very cold air into northern areas set some record low temperatures from the 6th to 8th as minimums fell to the -30° to -41° range.

The snow pack in northern areas of Alberta is from 70 cm to 80 cm deep and a spring flood watch will have to be kept. Southern areas have very little snow.

ONTARIO

Winter maintained a firm grip on Ontario with cold temperatures continuing to dispell any signs of an early spring. Mean temperatures were more





than 9° below normal in some areas of southwestern Ontario.

A mid-week storm brought freezing rain and snow to south-central Ontario with most areas recording 10 mm to 20 mm of mixed precipitation, creating dangerous travel conditions.

QUEBEC

Milder temperatures were experienced this week but mean temperatures remained below normal at all stations.

Significant precipitation was limited to the Saint Lawrence Valley, the Lac Saint-Jean region and the Gaspé; most totals were from 25 mm to 35 mm.

Freezing rain on the 4th and 5th felled high tension lines in the Montréal region. More than 17000 people were without electricity in the small hours of the morning.

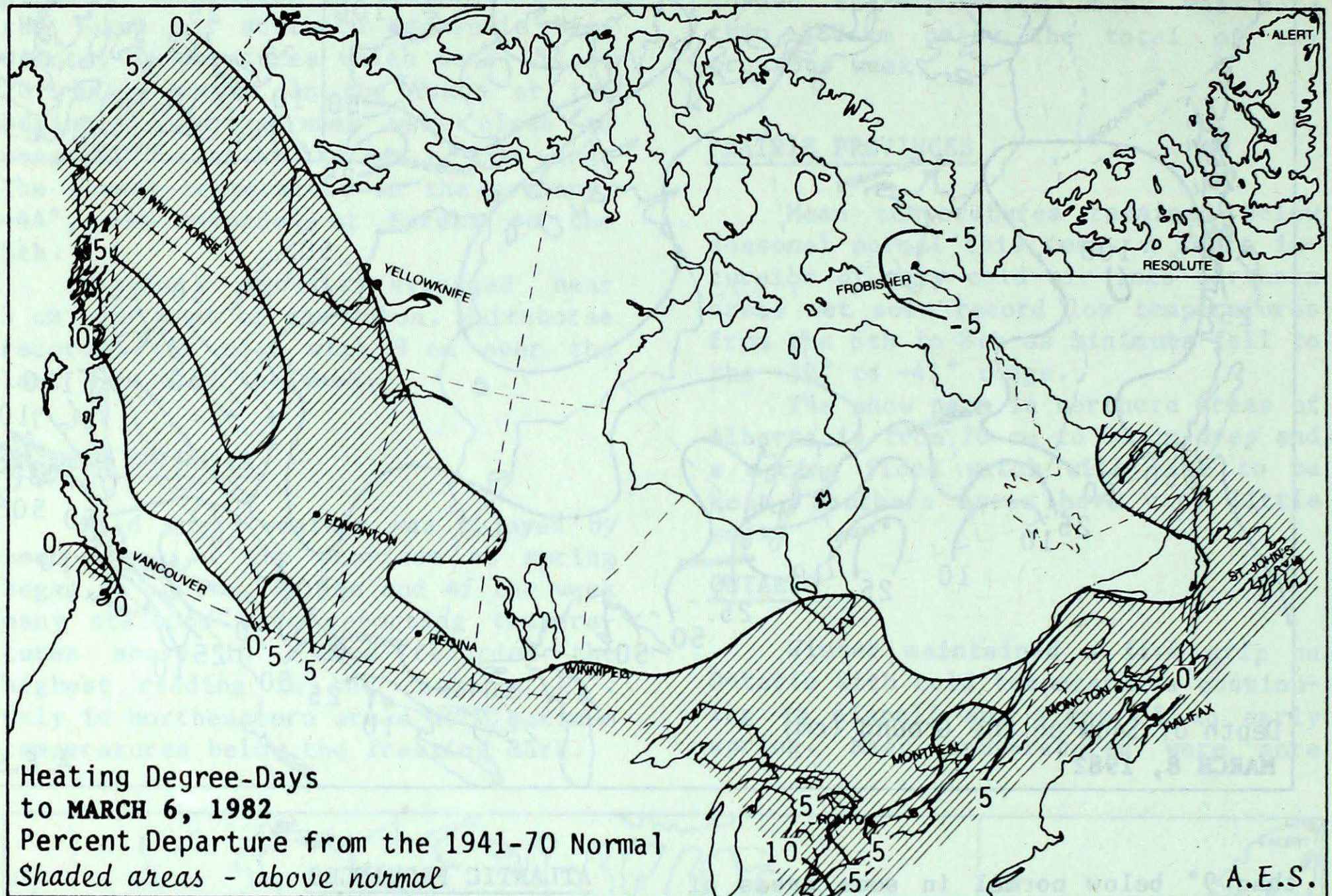
ATLANTIC PROVINCES

The week began with very cool weather but by the end of the week several stations were reporting temperatures above 10°. This was good news for Prince Edward Island where snow was still causing transportation problems; one major potato seed farm was still isolated by snow and heating oil was getting low.

Winds with gusts to 70 km/h broke loose the drill rig Zapata Scotian in Halifax harbour. The rig was stopped by tugs before reaching the main bridge across the harbour.

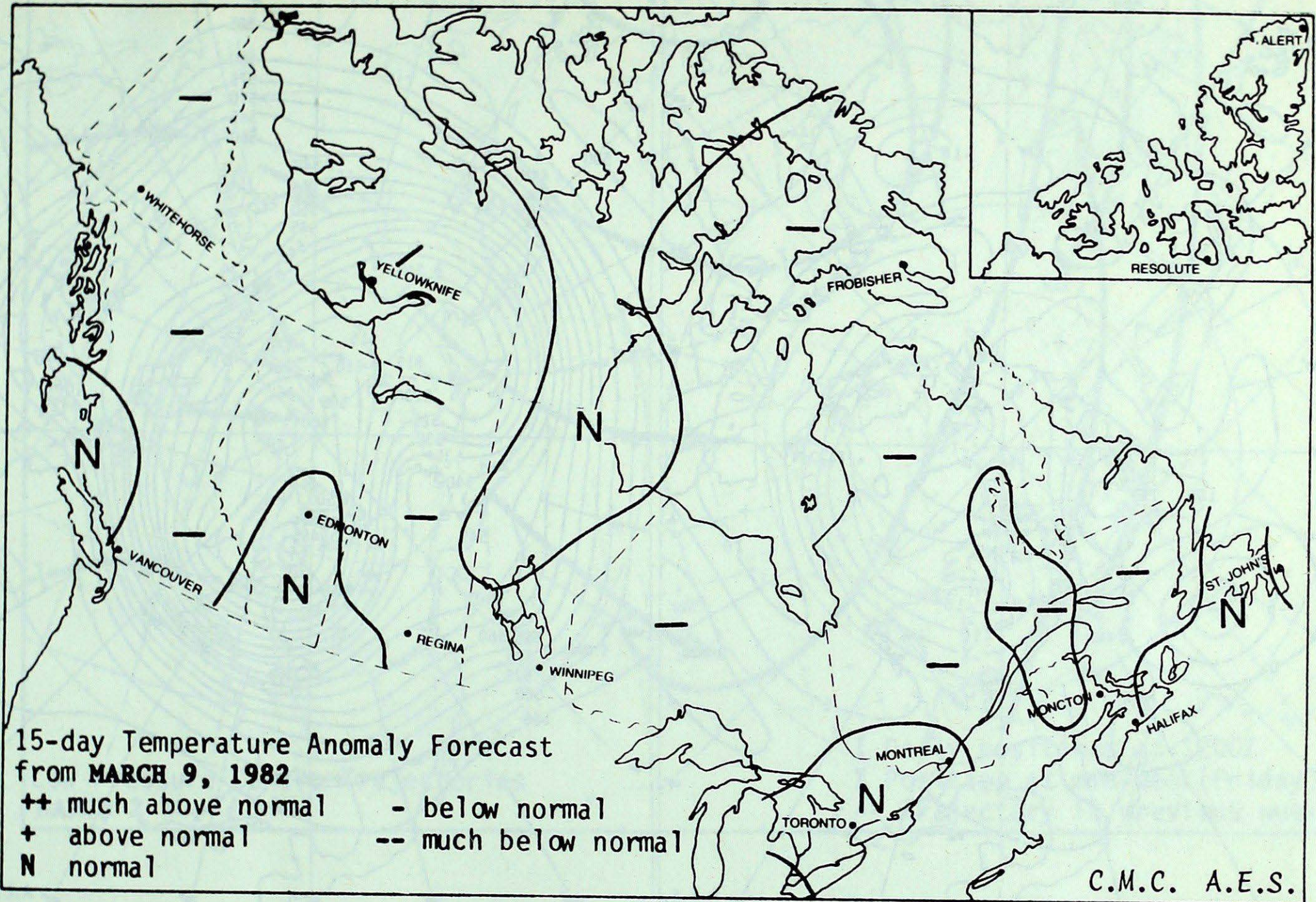
The annual Newfoundland seal hunt started on March 7th about a week late due to poor weather and ice conditions.

HEATING DEGREE-DAY SUMMARY TO MARCH 6, 1982

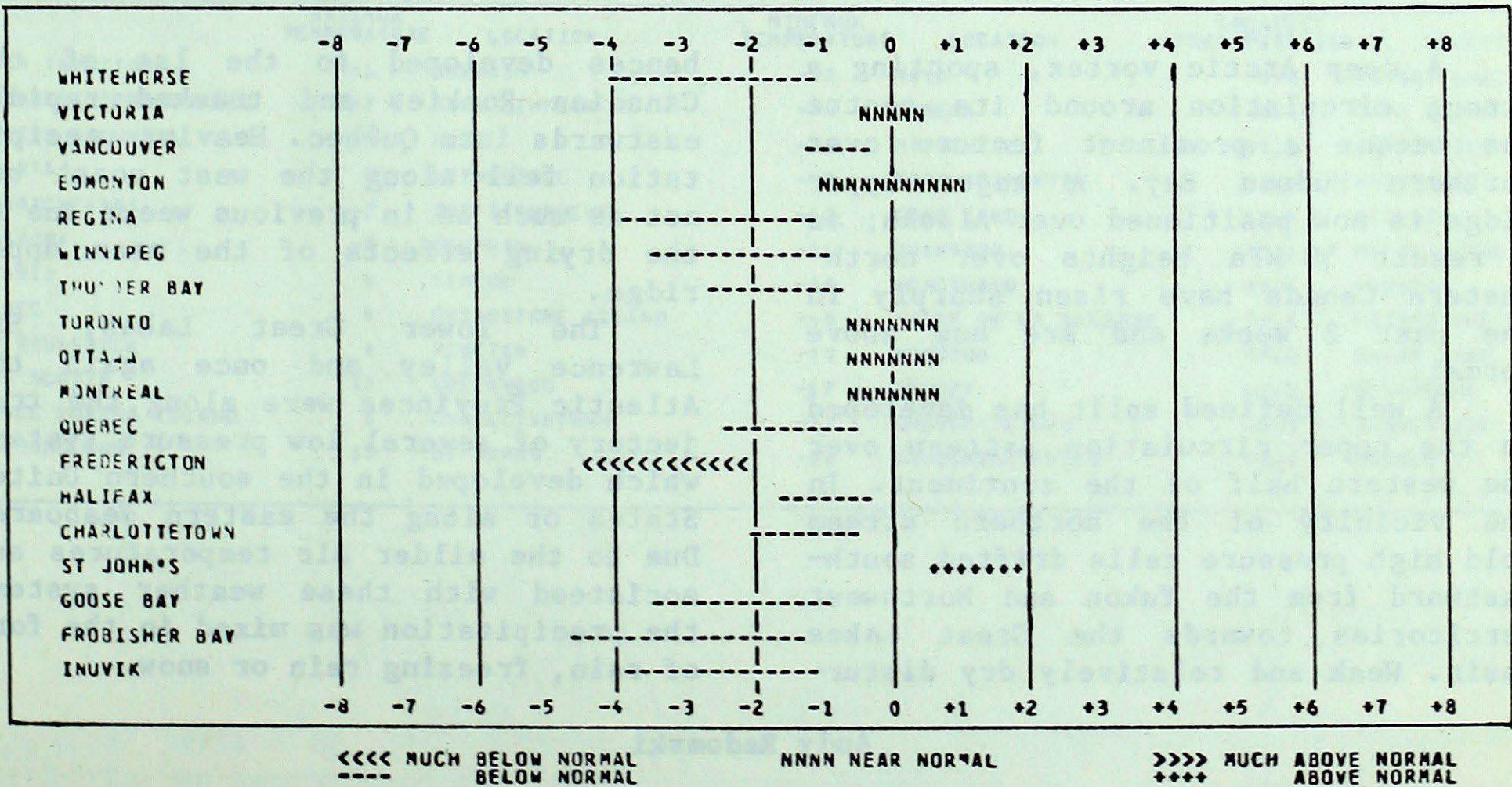


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	295.0	-11.0	8278.0	-380.0	96
Inuvik	253.0	-17.0	7101.5	-228.5	97
Whitehorse	223.0	52.0	5620.5	420.5	108
Vancouver	75.0	-3.0	2126.5	-50.5	98
Edmonton Mun	186.5	24.5	4269.0	-3.0	100
Calgary	190.5	46.5	4135.0	195.0	105
Regina	209.5	26.5	4645.5	131.5	103
Winnipeg	202.5	19.5	4514.0	5.0	100
Thunder Bay	182.5	15.5	4406.5	143.5	103
Windsor	140.5	23.5	3019.5	297.5	111
Toronto	158.0	28.0	3340.0	298.0	110
Ottawa	176.0	26.0	3739.0	166.0	105
Montreal	167.0	31.0	3682.0	286.0	108
Quebec	178.0	24.0	3997.0	204.0	105
Saint John, N.B.	156.0	16.0	3519.5	116.5	103
Halifax	139.5	16.5	2928.0	94.0	103
Charlottetown	159.5	18.5	3278.0	59.0	102
St. John's, Nfld.	153.0	27.0	3211.5	38.5	101

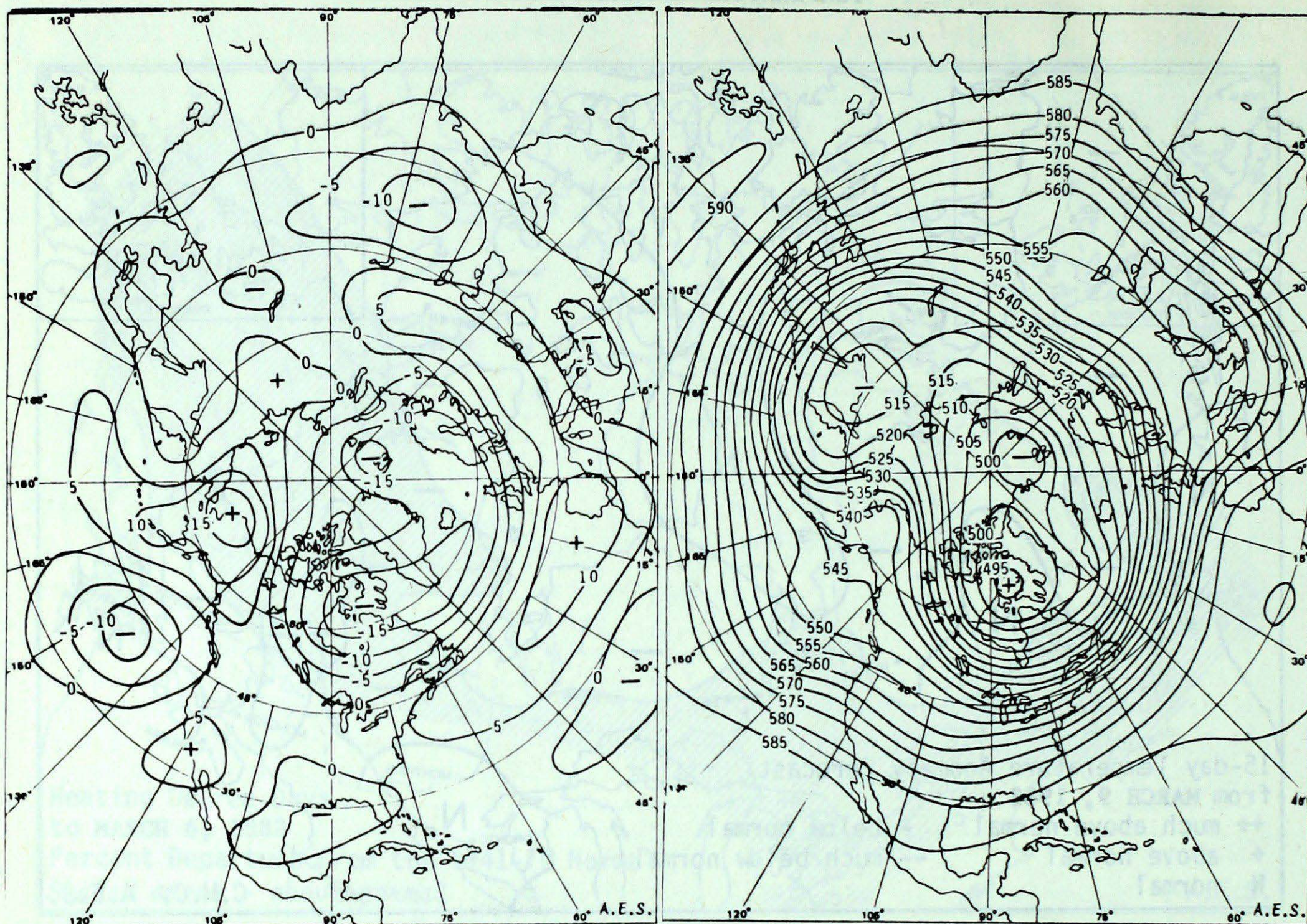
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR MAR 9 1982 TO MAR 23 1982



Atmospheric Circulation



7-day Mean 50 kPa Height Anomaly
(5 dam intervals)
MARCH 1 TO 7, 1982

7-day Mean 50 kPa Height (dam)
MARCH 1 TO 7, 1982

A deep Arctic vortex, sporting a strong circulation around its centre has become a prominent feature over northern Hudson Bay. A major upper ridge is now positioned over Alaska; as a result 50 kPa heights over north-western Canada have risen sharply in the past 2 weeks and are now above normal.

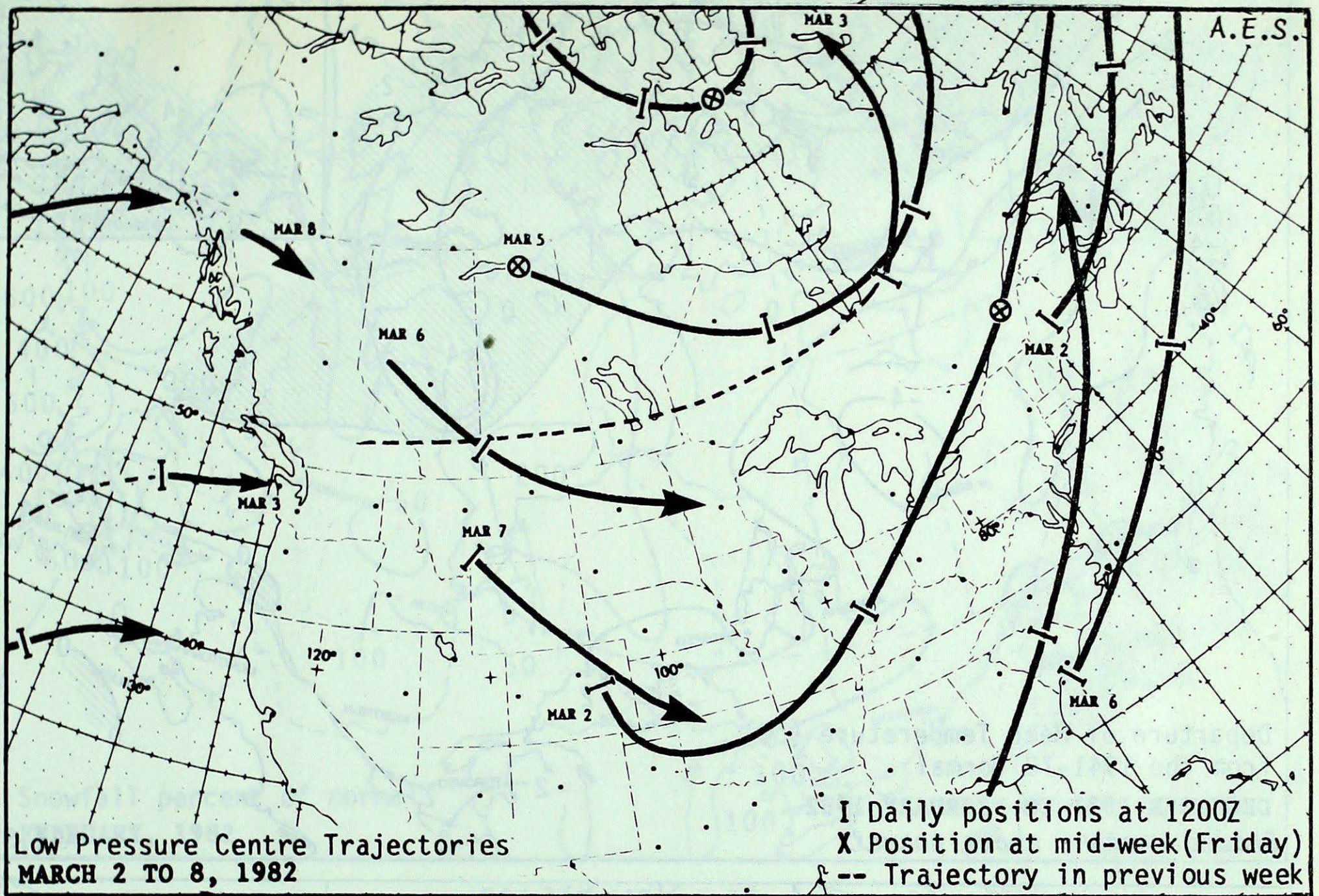
A well defined split has developed in the upper circulation pattern over the western half of the continent. In the vicinity of the northern stream cold high pressure cells drifted south-eastward from the Yukon and Northwest Territories towards the Great Lakes Basin. Weak and relatively dry distur-

bances developed to the lea of the Canadian Rockies and tracked rapidly eastwards into Québec. Heavier precipitation fell along the west coast but not as much as in previous weeks due to the drying effects of the mean upper ridge.

The lower Great Lakes, St. Lawrence valley and once again the Atlantic Provinces were along the trajectory of several low pressure systems which developed in the southern United States or along the eastern seaboard. Due to the milder air temperatures associated with these weather systems the precipitation was mixed in the form of rain, freezing rain or snow.

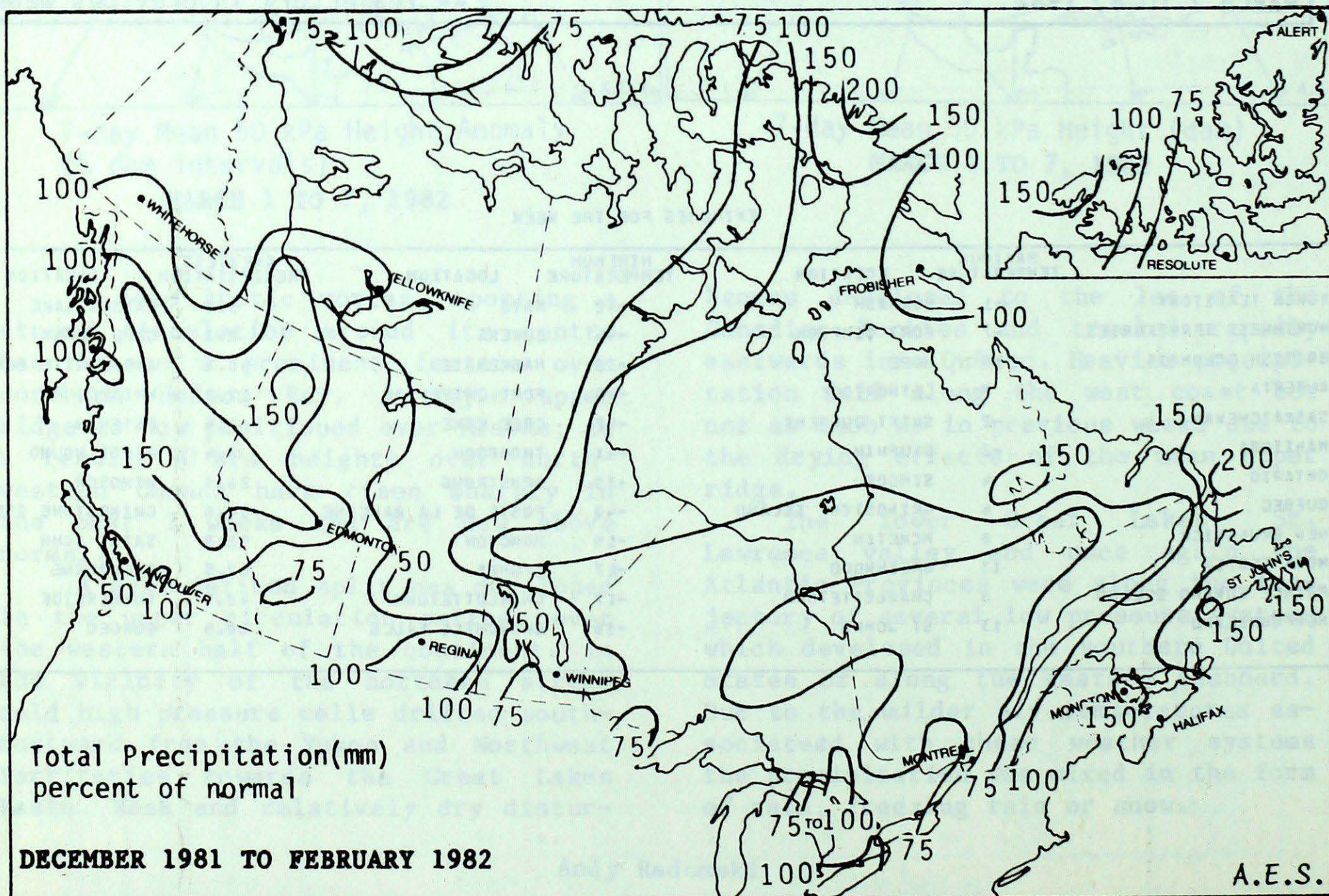
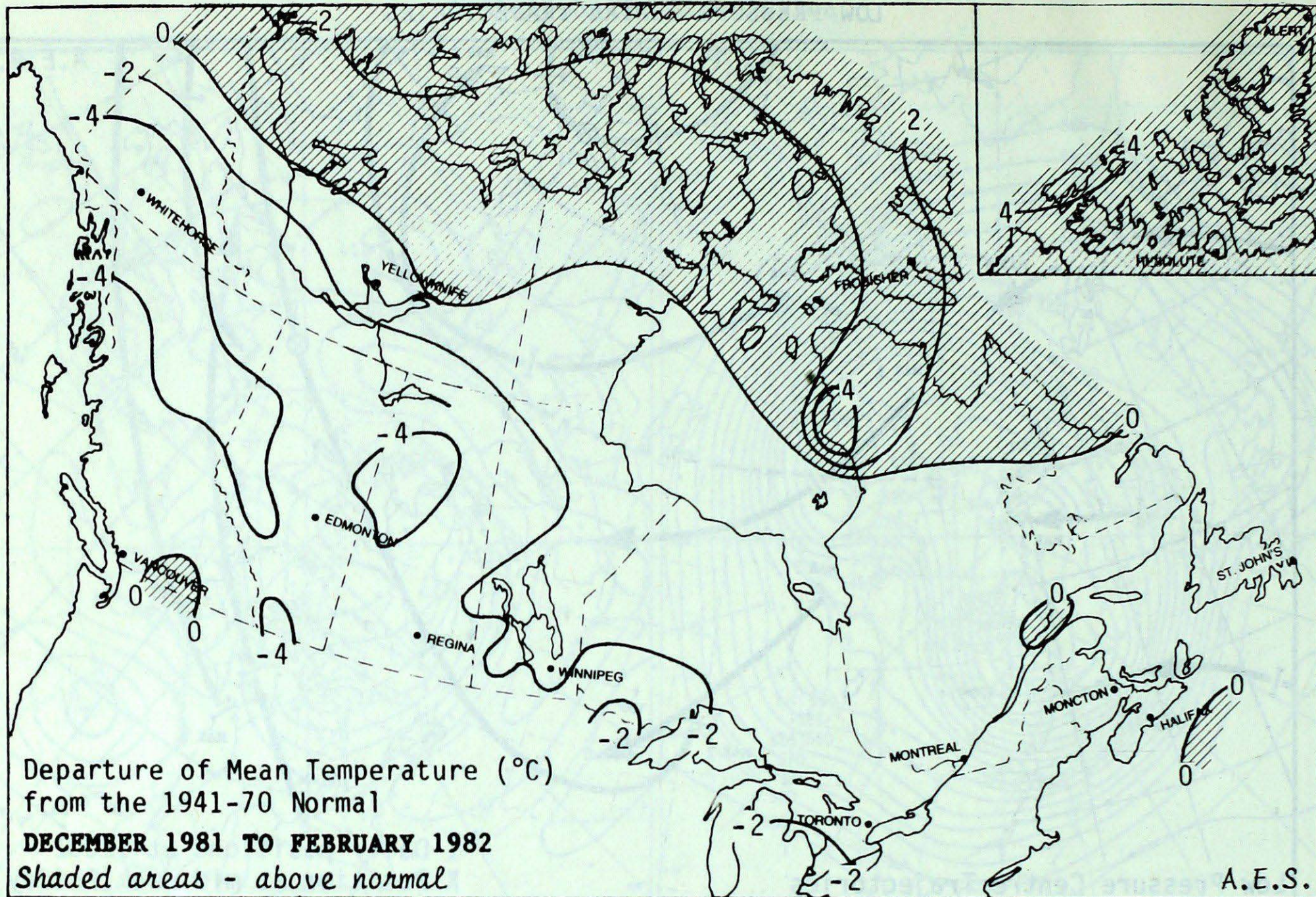
Andy Radomski

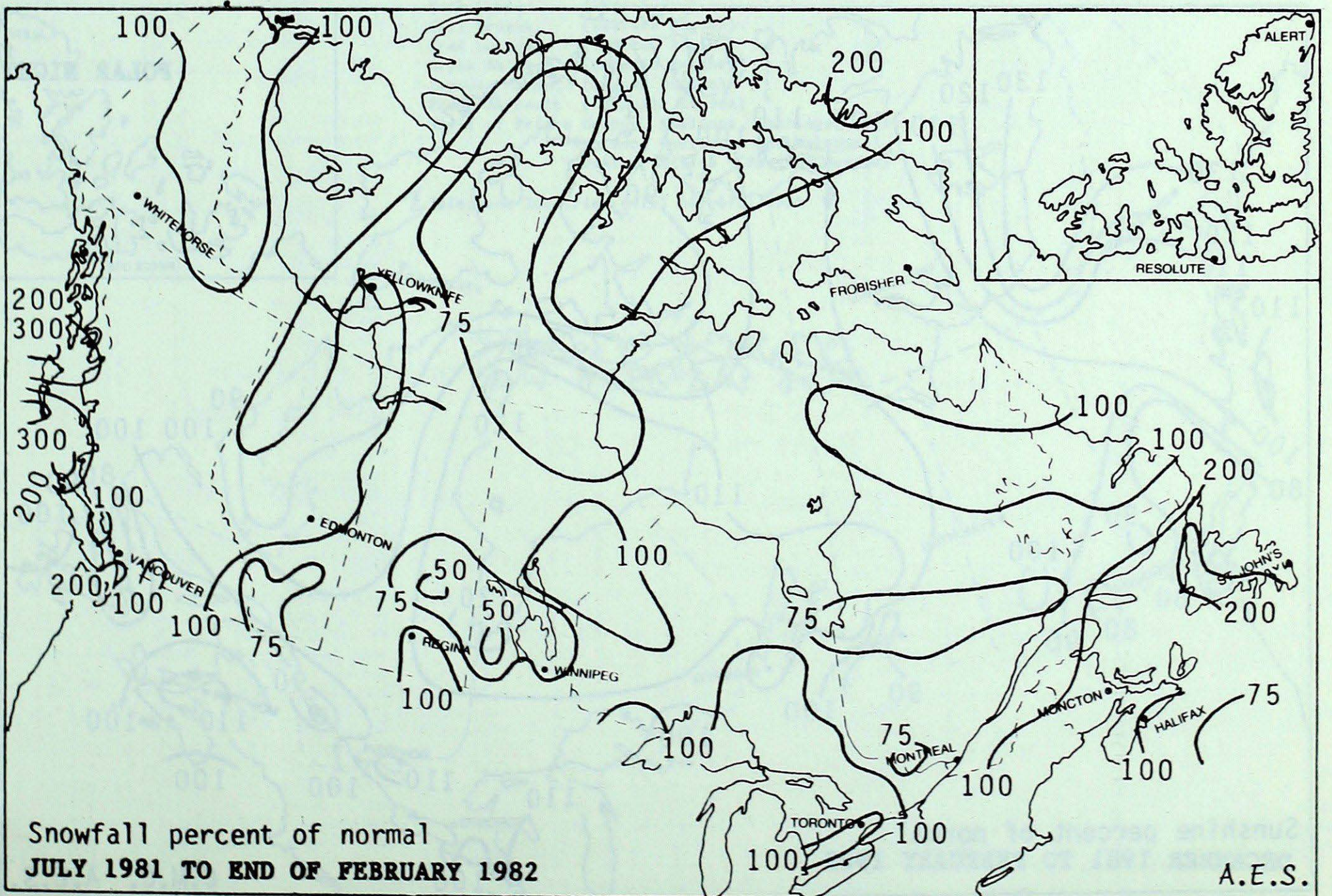
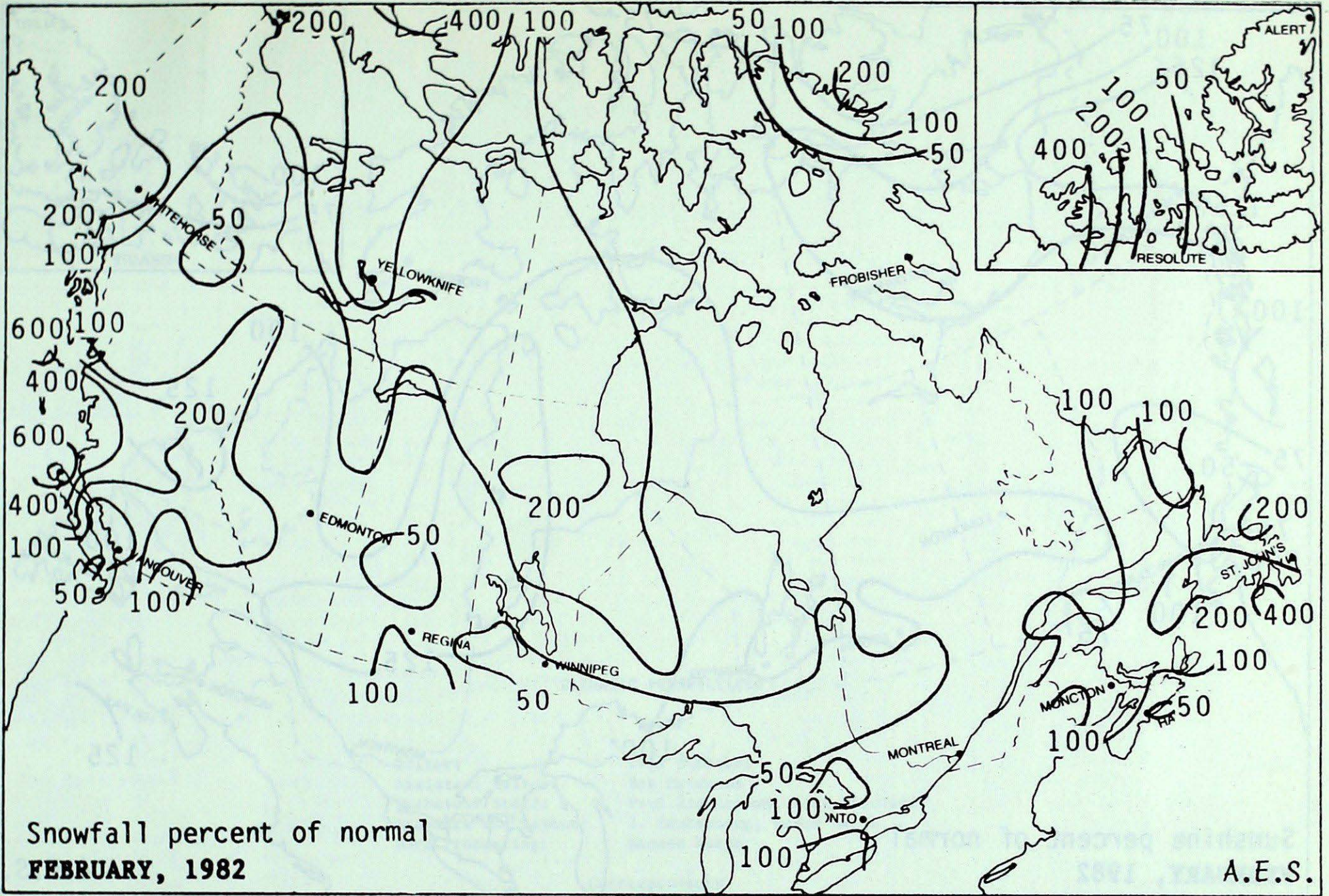
LOW PRESSURE CENTRE TRAJECTORIES

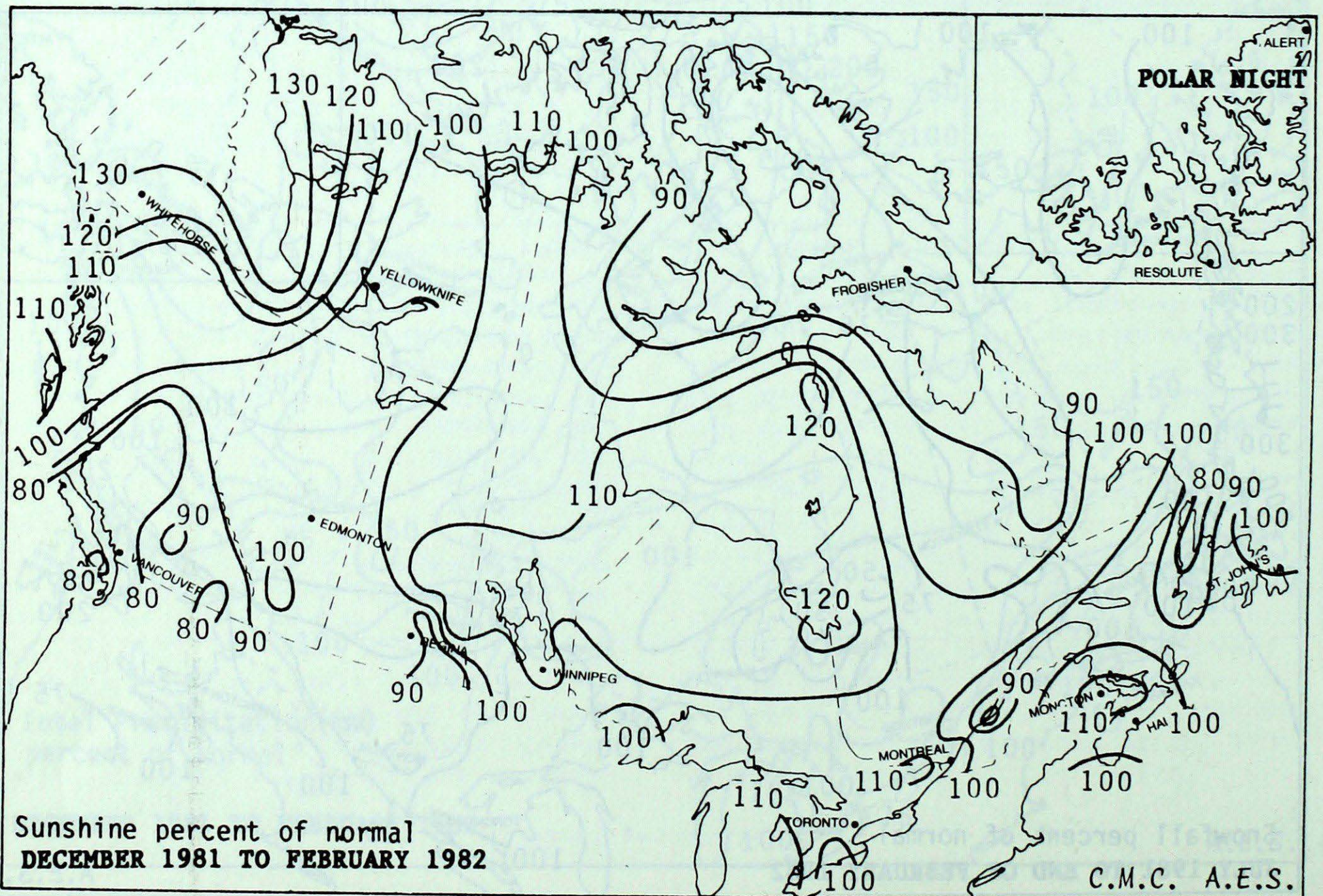
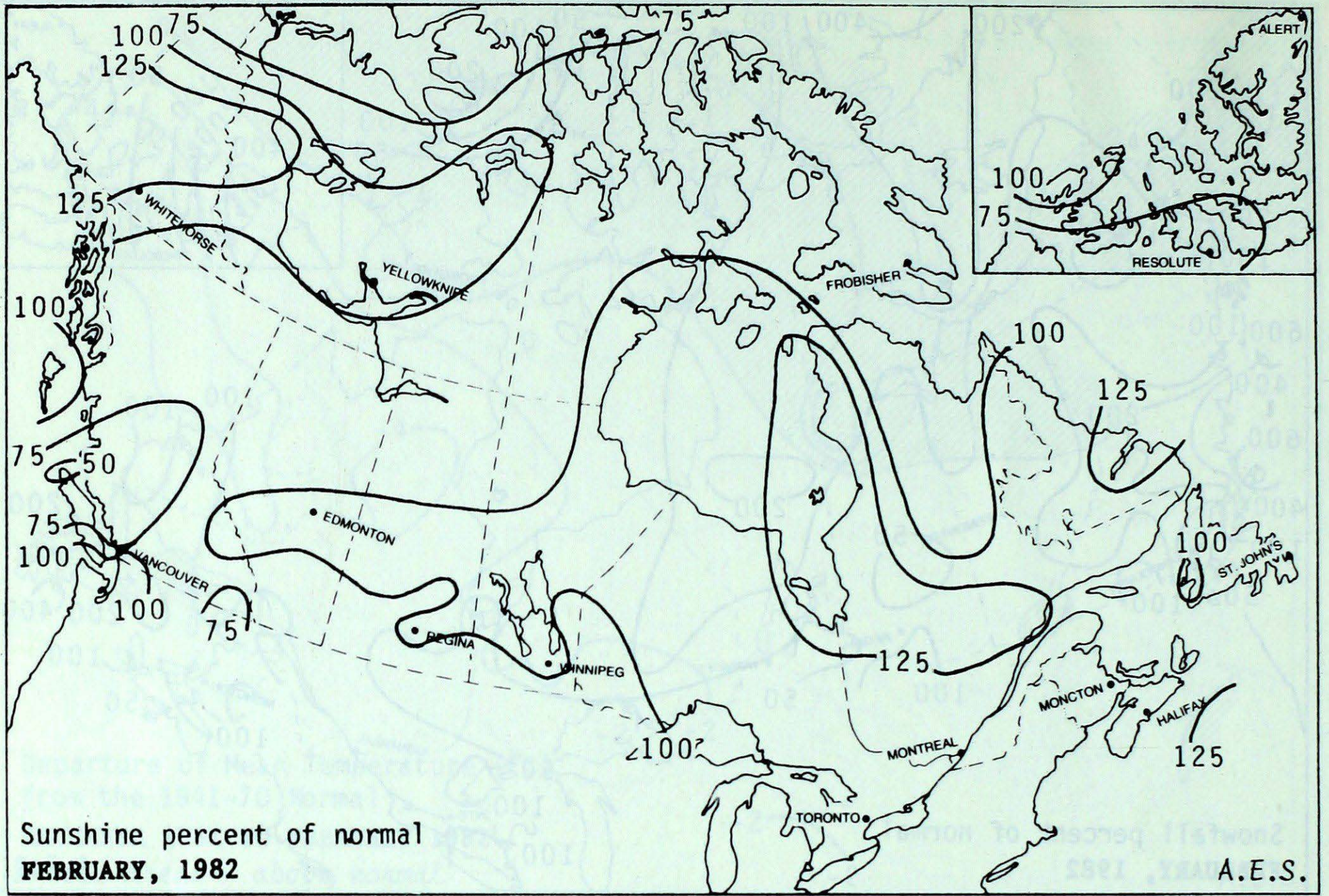


EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	-1	BURWASH	-42	MAYO	5.8	WATSON LAKE
NORTHWEST TERRITORIES	-7	FORT SIMPSON	-44	EUREKA	8.3	CAPE PARRY
BRITISH COLUMBIA	15	HOPE	-30	HACKENZIE	60.2	AMPHITRITE POINT
ALBERTA	7	LETHBRIDGE	-40	FORT CHIPEWYAN	12.0	WHITCOURT
SASKATCHEWAN	-2	SWIFT CURRENT	-42	CREE LAKE	8.6	ESTEVAN
MANITOBA	-2	DAUPHIN	-41	THOMPSON	3.4	PILOT MOUND
ONTARIO	4	SIMCOE	-39	ARMSTRONG	28.5	WINDSOR
QUEBEC	4	GRINDSTONE ISLAND	-40	POSTE DE LA BALEINE	58.6	GRINDSTONE ISLAND
NEW BRUNSWICK	8	MCNCTN	-19	MONCTON	52.8	SAINT JCHN
NOVA SCOTIA	13	GREENWOOD	-17	SYDNEY	67.5	SHELBURNE
PRINCE EDWARD ISLAND	8	CHARLOTTETOWN	-17	CHARLOTTETOWN	40.9	SUMMERSIDE
NEWFOUNDLAND	13	ST JOWNS	-30	CHURCHILL FALLS	68.6	BURGEO







CLIMATIC PERSPECTIVES

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. MARCH 9, 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 from Normal
YUKON							ALBERTA							QUÉBEC						
Burwash	-20	-5	-1	-41	2.0	-0.3	Smithers	-6	-2	6	-21	0.2	-4.5	Petawawa	-13	X	0	-26	7.5	X
Dawson	-22	-5	-6	-41	0.6	-3.1	Stewart	-1	X	6	-13	M	X	Pickle Lake	-21	-7	-10	-39	1.2	-3.5
Faro	M	X	M	M	M	X	Terrace	-1	-1	7	-9	0.0	-16.3	Red Lake	-20	-7	-9	-37	1.1	-6.3
Komakuk Beach	-27	0	-9	-35	0.0	-0.0	Vancouver	5	0	12	-1	11.0	-10.0	Simcoe	M	M	4P	-16P	18.2	-1.2
Mayo A	-23	-9	-9	-42	0.0	-2.4	Victoria	5	1	10	-1	1.6	-17.1	Sioux Lookout	-20	-8	-8	-35	0.6	-6.3
Shingle Point	-25	1	-11	-35	2.0	1.5	Williams Lake	-6	-3	7	-18	1.0	-2.7	Sudbury	-15	-6	-3	-28	3.4	-7.6
Teslin	M	X	-3P	-30P	M	X	ALBERTA						Thunder Bay	-15	-5	-2	-28	0.2	-8.2	
Watson Lake	-17	-4	-3	-37	5.8	-0.5	Banff	-8	-1	3	-20	M	M	Timmins	-17	-6	-3	-36	M	M
Whitehorse	-14	-5	-2	-32	5.4	1.1	Calgary	-12	-4	3	-22	5.0	-0.1	Toronto	-9	-6	0	-18	14.2	-0.8
NORTHWEST TERRITORIES							Cold Lake	-18	-6	-6	-31	2.2	-3.4	Trenton	-8	-5	2	-21	9.9	-8.3
Cape Parry	-30	-2	-13	-38	8.3	6.5	Coronation	-17	-6	-3	-29	6.4	2.8	Upsala	M	X	M	M	M	X
Cape Young	-28	-1	-11	-36	3.0	2.0	Edmonton Intl	-14	-5	0	-26	8.4	5.3	Wawa	-17	X	-6	-35	1.8	X
Clinton Point	-25	1	-11	-35	0.0	-1.7	Edmonton Namao	-14	-5	-3	-24	8.5	5.0	Warton	-12	-7	-2	-26	11.7	-1.3
Contwoyto Lake	M	M	M	M	M	M	Edson	-12	-3	6	-29	6.6	1.9	Windsor	-6	-5	3	-14	28.5	12.8
Coppermine	-27	1	-14	-34	M	M	Fort Chipewyan	-25	-10	-11	-40	0.0	-4.3	NEW BRUNSWICK						
Fort Reliance	-28	-3	-19	-38	M	M	Fort McMurray	-19	-5	-8	-31	0.8	-2.6	Charlo	-8	0	0	-17	47.7	29.0
Fort Simpson	-20	-6	-8	-33	0.0	-2.0	Grande Prairie	-12	-1	3	-26	2.4	-1.6	Chatham	-6	-1	2	-18	44.3	26.2
Fort Smith	-23	-5	-12	-40	0.0	-3.5	High Level	-19	X	-5	-39	0.0	-5.4	Fredericton	-5	-1	7	-18	26.6	13.6
Hay River	-22	-3	-8	-38	0.2	-3.4	Jasper	-8	-3	5	-20	4.0	1.7	Moncton	-5	-1	8	-20	43.8	21.6
Inuvik	-25	0	-14	-33	0.2	-2.3	Lac La Biche	M	X	M	M	M	X	Saint John	-5	-1	6	-17	52.8	28.3
Lady Franklin Point	-29	-1	-13	-39	1.0	0.3	Lethbridge	-9	-3	7	-21	2.1	-4.6	St Stephen	M	X	M	M	M	X
Nicholson Peninsula	-29	-2	-13	-36	0.0	-0.2	Medicine Hat	-11	-3	1	-23	0.3	-3.7	NOVA SCOTIA						
Norman Wells	-21	0	-11	-32	1.4	-2.0	Peace River	-16	-4	-4	-26	4.5	1.2	Amherst	M	X	M	M	M	X
Port Radium	M	X	M	M	M	X	Red Deer	-14	-4	2	-29	M	M	Eddy Point	-3	X	10	-15	56.2	X
Robertson Lake	M	X	M	M	M	X	Rocky Mountain House	-14	-6	0	-32	6.3	0.0	Greenwood	-2	1	14	-14	42.1	25.0
Tuktoyaktuk	-29	-2	-15	-36	0.0	-0.5	Slave Lake	-16	-6	-6	-26	6.4	3.6	Sable Island	0	0	9	-7	52.5	24.1
Yellowknife	-26	-4	-16	-41	0.0	-1.9	Vermillion	-18	-5	-6	-30	6.0	2.7	Shearwater	-2	1	11	-15	55.3	31.6
Baker Lake	-31	-2	-15	-39	0.2	-1.5	Whitecourt	-11	-1	1	-21	12.0	8.1	Shelburne	-1	X	11	-15	67.5	X
Coral Harbour	-32	-5	-22	-40	0.0	-2.7	SASKATCHEWAN						Sydney	-4	-1	9	-18	61.8	35.9	
Ennadai Lake	M	M	M	M	M	M	Broadview	-17	X	-8	-29	1.8	X	Truro	-2	2	12	-17	M	M
Jenny Lind Island	M	M	-16P	-37	0.0	0.0	Buffalo Narrows	-20	-6	-9	-37	M	M	Yarmouth	-1	0	9	-12	56.4	31.0
Pelly Bay	M	M	-24P	-42	1.0	0.1	Collins Bay	-24	X	-13	-34	0.9	X	PRINCE EDWARD ISLAND						
Rankin Inlet	-31	X	-19	-40	0.6	X	Cree Lake	-25	X	-12	-42	0.0	X	Charlottetown	-5	0	8	-18	30.8	13.9
Shepherd Bay	M	M	-23P	-43	1.2	0.7	Eastend Cypress	M	X	M	M	M	X	East Point	M	X	M	M	M	X
Alert	-34	-1	-24	-40	0.0	-1.5	Estevan	-16	-5	-8	-28	8.6	5.3	Summerside	-4	0	6	-16	40.9	21.5
Broughton Island	-26	-1	-21	-29	0.0	-1.1	Hudson Bay	-19	-5	-8	-35	2.0	-1.5	NEWFOUNDLAND						
Cape Dorset	-27	X	-21	-32	M	X	Kindersley	-16	-5	-5	-27	4.9	2.3	Argentia	-2	X	6	-16	46.6	X
Cape Dyer	-26	-2	-18	-34	M	M	La Ronge	-22	-8	-8	-38	0.0	-2.1	Badger	M	X	M	M	M	X
Cape Hooper	-27	-1	-22	-30	M	M	Meadow Lake	-20	X	-8	-36	2.2	X	Bonavista	-4	-1	10	-19	23.3	-5.1
Clyde	-29	0	-22	-36	M	M	Moose Jaw	-16	-5	-4	-29	5.5	1.4	Burgeo	-4	0	5	-16	68.6	33.3
Dewar Lakes	-30	-3	-20	-36	0.0	-0.9	Nipawin	-19	X	-5	-32	1.4	X	Cape Race	M	X	M	M	M	X
Eureka	-40	-1	-30	-44	0.0	-0.5	North Battleford	-17	-4	-6	-29	2.8	-0.3	Comfort Cove	-6	0	10	-24	19.4	-3.6
Frobisher Bay	-28	-4	-17	-37	3.2	-4.1	Prince Albert	-19	-4	-5	-34	0.6	-2.5	Daniel's Harbour	-8	-3	7	-20	20.8	7.6
Gladman Point	M	M	-19P	-39	M	M	Regina	-18	-5	-7	-33	5.1	2.0	Deer Lake	-10	-3	9	-29	33.7	11.1
Hall Beach	-34	-2	-25	-42	M	M	Rockglen	M	X	M	M	M	X	Gander	-6	-2	9	-23	37.5	10.4
Longstaff Bluff	M	M	-25P	-39	0.0	-0.4	Saskatoon	-17	-3	-6	-31	4.2	1.0	Port aux Basques	-4	-1	7	-11	45.6	21.6
Mackay Inlet	M	M	-26P	-41	0.0	0.0	Swift Current	-14	-4	-2	-24	M	M	St Albans	-5	-1	8	-25	M	M
Pond Inlet	-35	X	-27	-41	0.0	X	Uranium City	-26	-8	-15	-40	0.0	-2.8	St Anthony	-12	X	1	-23	64.3	X
Resolute	-32	1	-22	-40	M	M	Wynyard	-18	X	-7	-28	1.3	X	St John's	-3	0	13	-19	24.6	-7.7
Byron Bay	M	M	-14P	-38	0.0	-0.6	Yorkton	-17	-3	-5	-27	0.6	-4.4	St Lawrence	-4	-1	6	-17	56.0	21.7
Cambridge Bay	-30	3	-16	-37	5.4	4.1	MANITOBA						Stephenville	-6	-2	8	-19	33.7	17.2	
Mould Bay	-35	0	-20	-42	M	M	Bissett	-21	X	-7	-38	1.3	X	Battle Harbour	-11	-5	1	-23	58.4	32.1
Sachs Harbour	-32	-3	-13	-40	0.2	-0.4	Brandon	-16	-3	-8	-24	M	M	Cartwright	-15	-6	-5	-30	52.2	23.2
BRITISH COLUMBIA							Churchill	-26	-3	-15	-34	M	M	Churchill Falls	-19	-3	-9	-30	11.6	-3.2
Abbotsford	6	2	14	-2	19.0	-15.6	Dauphin	-17	-3	-2	-27	0.2	-5.2	Goose	-17	-6	-6	-29	53.1	32.9
Alert Bay	5	0	10	-2	0.0	-21.0	Gillam	-24	X	-12	-35	0.0	X	Hopedale	-18	-6	-7	-27	10.3	-0.2
Amphitrite Point	6	X	12	0	60.2	X	Cimli	-18	-5	-7	-31	0.2	-5.5	Wabush Lake	-19	-3	-8	-26	9.7	-2.2
Blue River	M	X	M	M	M	X	Grand Rapids	M	X	M	M	M	X							
Bull Harbour	5	0	11	-2	7.0	-22.4	Island Lake	-23	X	-12	-37	M	X							
Burns Lake	-9	X	-7	-29	M	X	Lynn Lake	-24	-7	-13	-37	0.4	-3.0							
Cape Scott	5	1	10	2	8.2	-62.3	Norway House	-24	X	-9	-40	1.5	X							
Cape St James	6	2	10	3	5.5	-18.4	Pilot Mound	-16	-5	-7	-25	3.4	-3.6							
Clinton	M	X	M	M	M	X	Portage	-16	-4	-5	-24	0.4	-8.1							
Comox	5	1	9	-2	7.2	-17.2	The Pas	-20	-5	-7	-37	0.2	-2.9							
Crabrook	1	3	9	-8	0.4	-2.8	Thompson	-24	-8	-10	-42	1.7	-3.0							
Dease Lake	-9	0	4	-29	28.0	20.1	Winnipeg	-17	-4	-6	-26	0.4	-5.8							
Estevan Point	M	M	M	M	M	M	ONTARIO													
Ethelda Bay	2	X	9	-4	M	X	Armstrong	-20	-5	-8	-40	M	M							
Fort Nelson	-13	-2	-5	-22	9.9	3.3	Atikokan	-20	-10	-8	-35	0.4	-6.6							
Fort St John	-13	-4	-2	-24	3.6	-2.0	Barrie	M	X	M	M	M	X							
Hope	6	X	15	0	1.6	X	Big Trout Lake	-22	-4	-10	-37	2.0	-1.9							
Kamloops	2	1	11	-9	0.6	-2.6	Britt	M	X	M	M	M	X							
Langara	4	1	7	1	29.0	-1.9	Caribou Island	M	X	M	M	M	X							
Lytton	3	1	14	-6	0.0	-12.0	Earlton	-14	-3	-2	-28	M	M							
Mackenzie	-9	X	3	-30	M	X	Geraldton	-20	-7	-7	-39	1.2	-7.2							
McInnes Island	4	0	9	0	2.4	-39.4	Gore Bay	-14	-7	-4	-26	5.8	-2.4							
Nanaimo A	5	X	12	-3	M	X	Kapusasing	-17	-5	-3	-36	1.2	-10.6							
Penticton	3	2	12	-6	0.4	-3.6	Kenora	-17	-6	-9	-25	0.4	-8.0							
Port Alberni	M	X	M	M	M	X	Kingston	-7	-2	2	-17	M	M							
Port Hardy	4	1	10	-2	0.2	-26.1	Lansdowne	-20	-4	-9	-37	1.8	-3.2							
Prince George	-8	-3	5	-26	5.7	-1.1	London	-9	-6	3	-19	13.3	-3.4							
Prince Rupert	2	-1	8	-7	26.2	-10.7	Moosonee	-19	-4	-4	-37	0.4	-9.8							
Puntzi Mountain	M	X	M	M	M	X	Mount Forest	-11	-5	-3	-21	16.0	1.4							
Quesnel	-7	-3	7	-21	5.6	0.5	Muskoka	-12	-6	0	-25	16.6	0.1							
Revelstoke	1	2	6	-6	10.6	-3.9	Nagagami	M	X	M	M	M	X							
Sandspit	5	1	10	-2	9.8	-10.9	North Bay	-14	-6	-3	-26	5.3	-8.5							
							Ottawa	-10	-4	-1	-20	12.8	-1.6							

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