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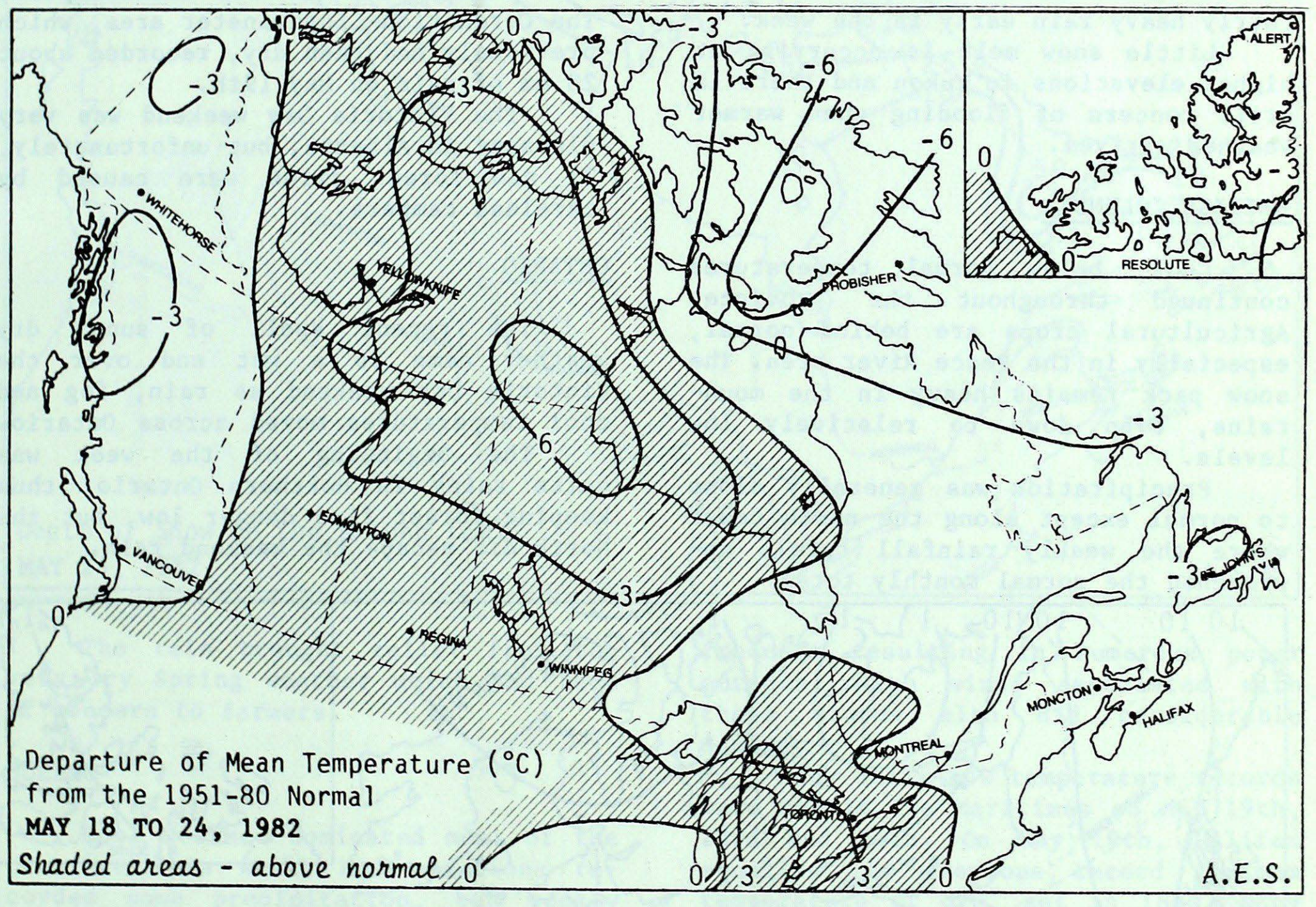
A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES

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

Canada

MAY 28, 1982 (Aussi disponible en français) VOL.4 NO.20



WEATHER HIGHLIGHTS FOR THE PERIOD - MAY 18 TO 24, 1982

The dry spell ends in southern Ontario

Rain fell in southern Ontario after a prolonged period of dry weather which was beginning to worry farmers. Unfortunately, for most of the population, the rain arrived on the Victoria Day weekend.

An extended period of cool weather in both extremes of the country has slowed crop growth. Crops are from one to two weeks behind normal.

Southern New Brunswick was struck by severe thunderstorms at the beginning of the week. High winds and frequent lightning strikes caused considerable damage.

Temperatures varied from 30.5° at Windsor, Ontario to -21.7° at Hall Beach, Northwest Territories. McInnes Island, British Columbia recorded 69.6 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

The central and western regions of the Northwest Territories experienced warmer weather this week, but eastern and northern areas and the Yukon remained cool. Maximum temperatures in Yukon generally reached only 10°.

Precipitation was measured at most sites. Southeastern Yukon reported fairly heavy rain early in the week.

Little snow melt is occurring at higher elevations in Yukon and there is still concern of flooding when warmer weather arrives.

BRITISH COLUMBIA

Cool, below normal temperatures continued throughout the province. Agricultural crops are behind normal, especially in the Peace River area. The snow pack remains heavy in the mountains, even down to relatively low levels.

Precipitation was generally close to normal except along the north coast where the weekly rainfall totals approached the normal monthly total.

PRAIRIE PROVINCES

Generally mild but variable weather conditions prevailed throughout the Prairies. Some daily maximum temperature records were set in the latter half of the week.

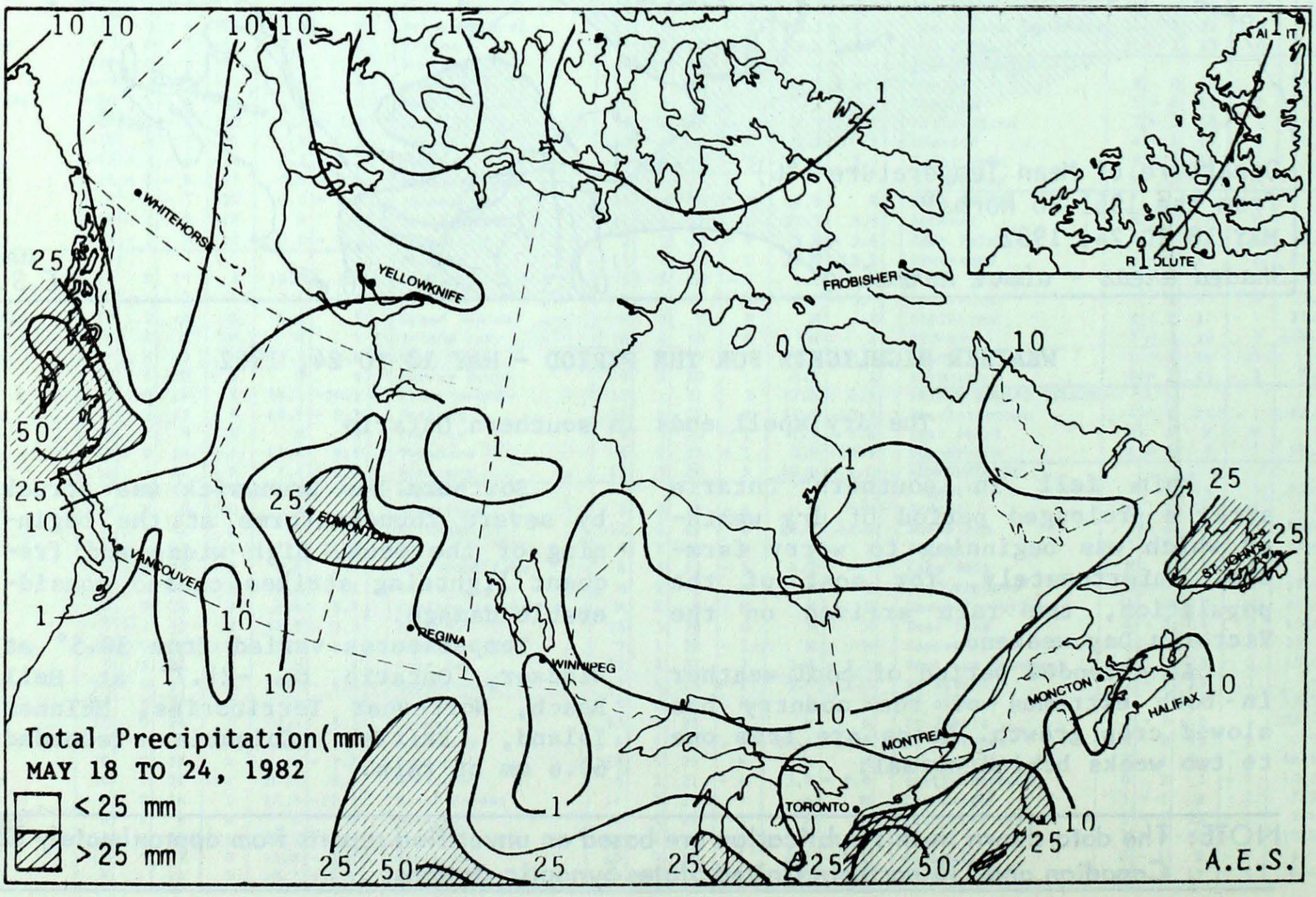
Shower activity was widespread at the beginning of the week in central and southern Alberta and Saskatchewan. The Coronation-Lloydminster area, which previously had been dry, recorded about 28 mm of rain on May 19th.

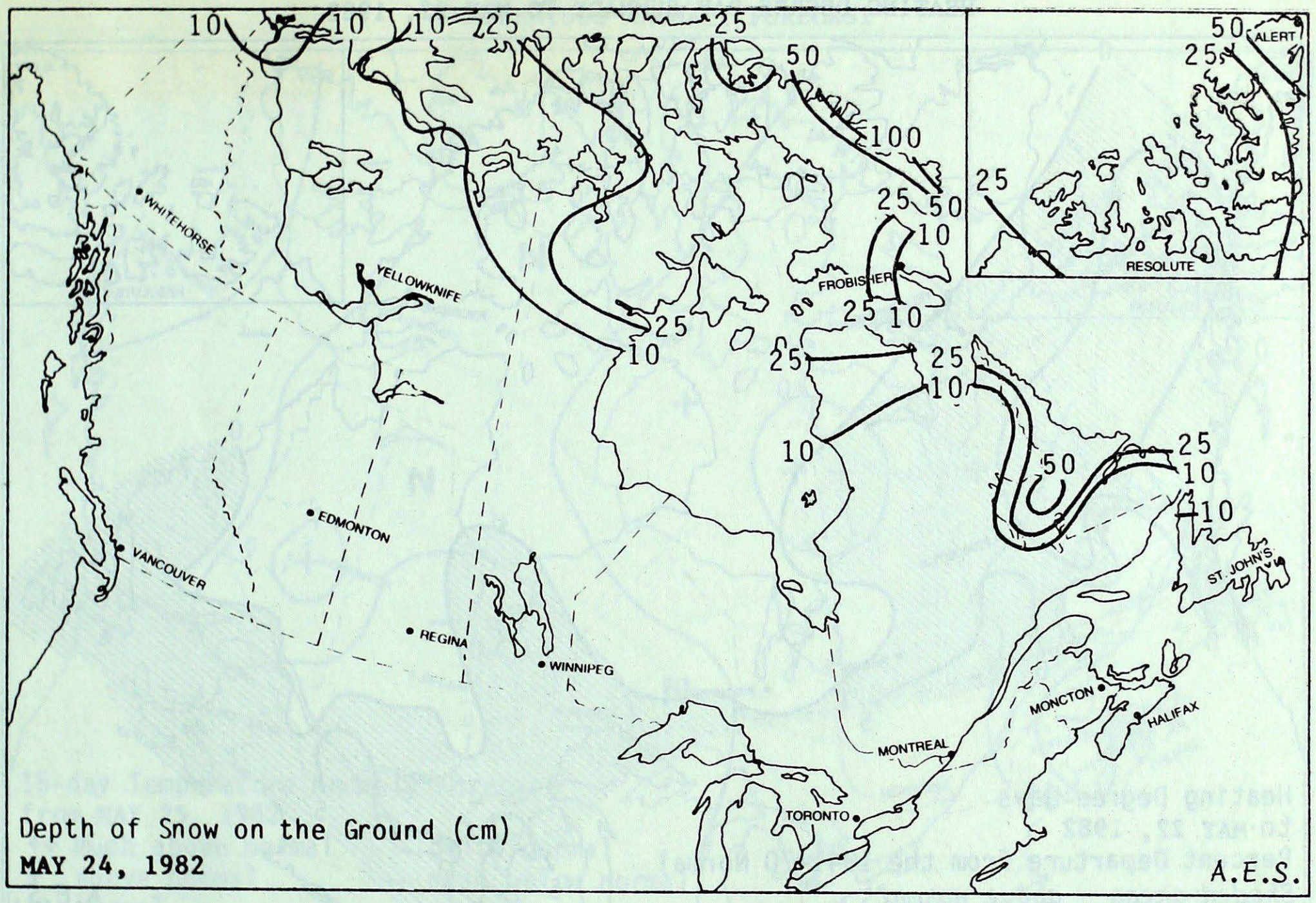
The Victoria Day weekend was very pleasant in Alberta, but unfortunately, 21 new forest fires were caused by careless campers.

ONTARIO

The recent spell of sunny dry weather came to a wet end over the Victoria Day weekend as rain, fog and cool temperatures moved across Ontario.

The beginning of the week was quite rainy in northern Ontario, thus keeping forest fire danger low, but the North did escape the weekend rain.





The rain brought relief from the very dry Spring weather which had been of concern to farmers.

QUEBEC

Cool weather dominated most of the province this week. Most stations recorded some precipitation, but weekly totals were less than normal at the majority of stations.

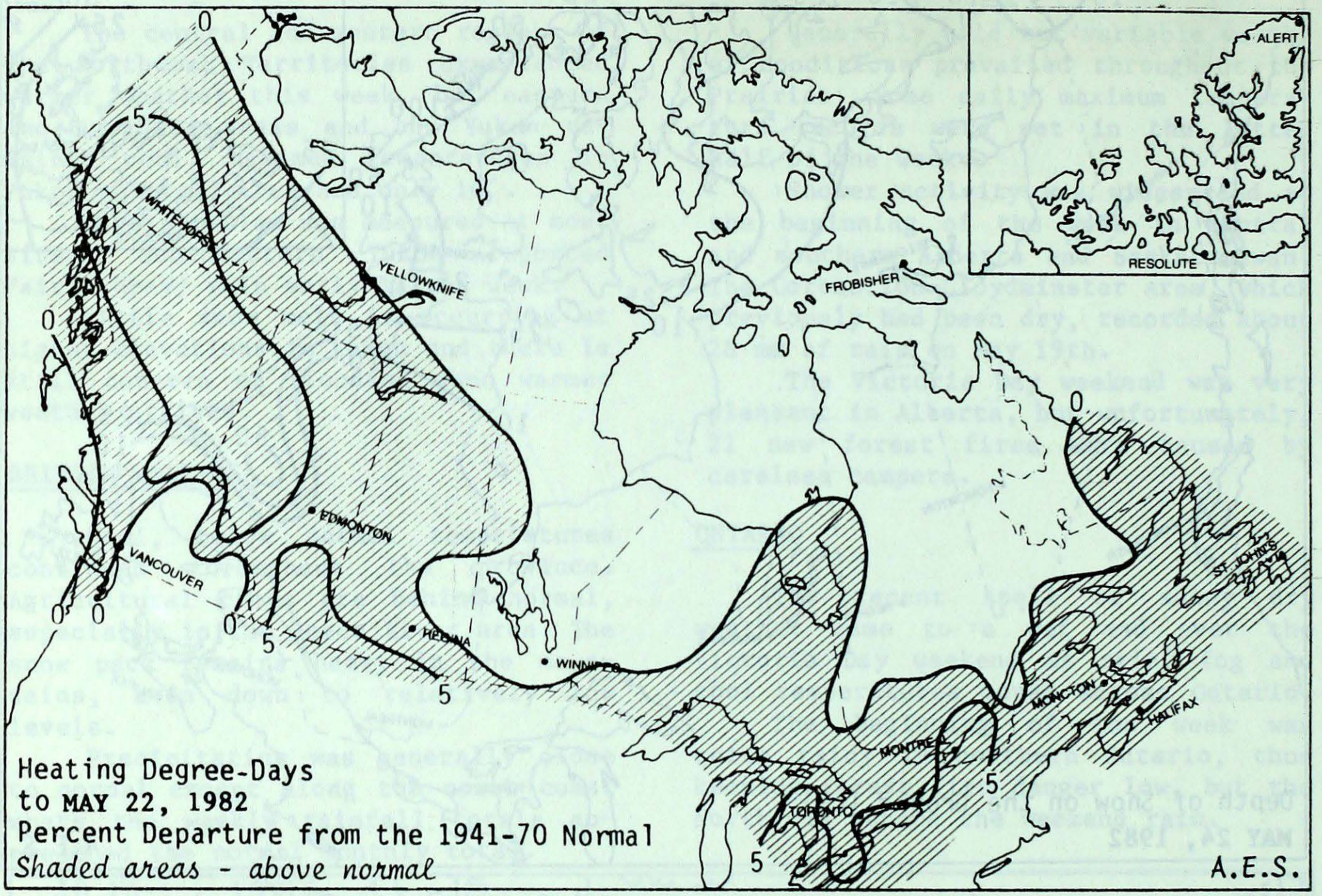
ATLANTIC PROVINCES

Cool weather moving into the Maritimes on May 20th triggered heavy thunderstorms, especially in southern New Brunswick. Lightning strikes were frequent resulting in numerous power outages. High winds associated with these storms also did considerable damage.

Many daily low temperature records were set in the Maritimes on May 19th, 23rd and 24th. On May 19th, Halifax equalled its previous record minimum temperature of 0.0° set in 1880. Many low temperature records were also set in the province of Newfoundland on May 21st and 22nd.

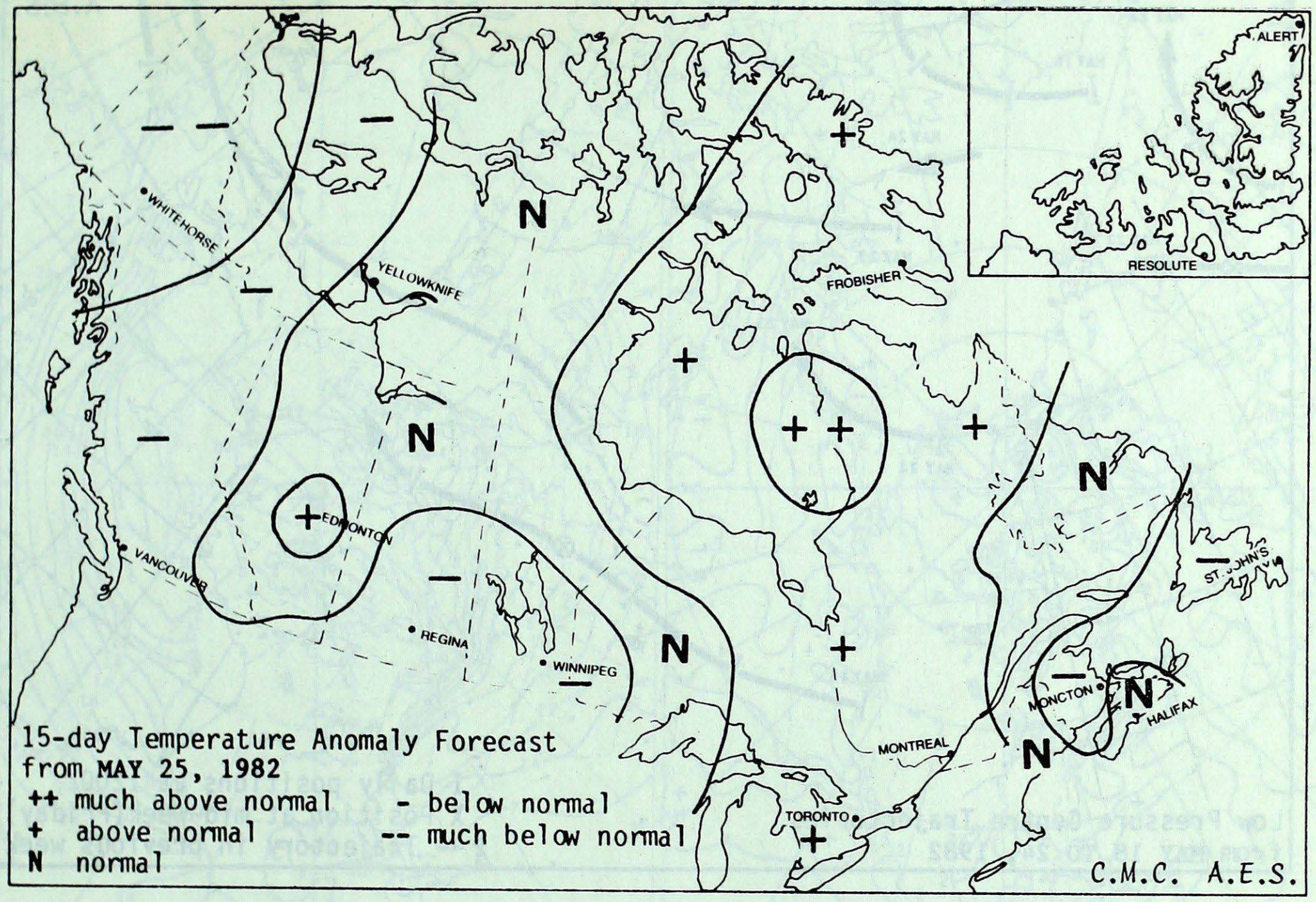
Due to the cool weather of the past several weeks, agricultural operations are about 2 weeks behind normal in Newfoundland and about 4 to 8 days behind normal in Nova Scotia.

HEATING DEGREE-DAY SUMMARY TO MAY 22, 1982

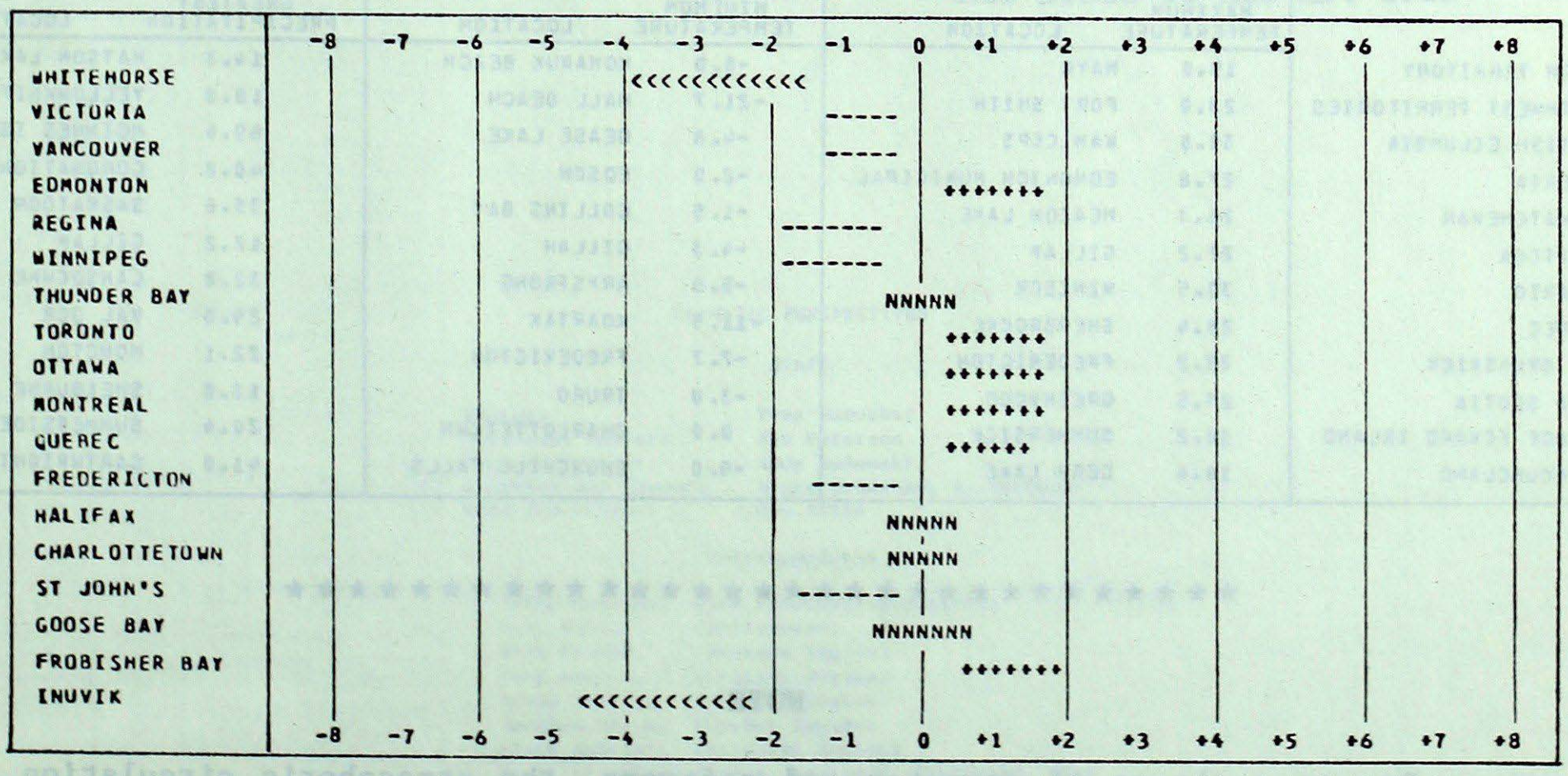


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	718.0	57.0	11515.0	-257.0	98
Inuvik	519.5	57.5	9633.0	-175.0	98
Whitehorse	307.5	48.5	7159.0	530.0	108
Vancouver	146.0	11.0	2900.0	17.0	101
Edmonton Mun	156.0	-19.0	5479.0	46.0	101
Calgary	213.5	6.5	5377.0	244.0	105
Regina	176.0	-13.0	5966.5	188.5	103
Winnipeg	136.5	-49.5	5689.5	-73.5	99
Thunder Bay	205.5	-20.5	5691.0	151.0	103
Windsor	31.0	-85.0	3808.5	272.5	108
Toronto	94.0	-59.0	4296.0	296.0	107
Ottawa	85.5	-62.5	4728.0	132.0	103
Montreal	97.5	-43.5	4682.0	276.0	106
Quebec	168.0	-15.0	5213.0	258.0	105
Saint John, N.B.	228.0	4.0	4727.0	153.0	103
Halifax	224.0	6.0	4048.0	118.0	103
Charlottetown	253.5	24.5	4511.0	77.0	102
St. John's, Nfld.	280.0	-12.0	4497.5	17.5	100

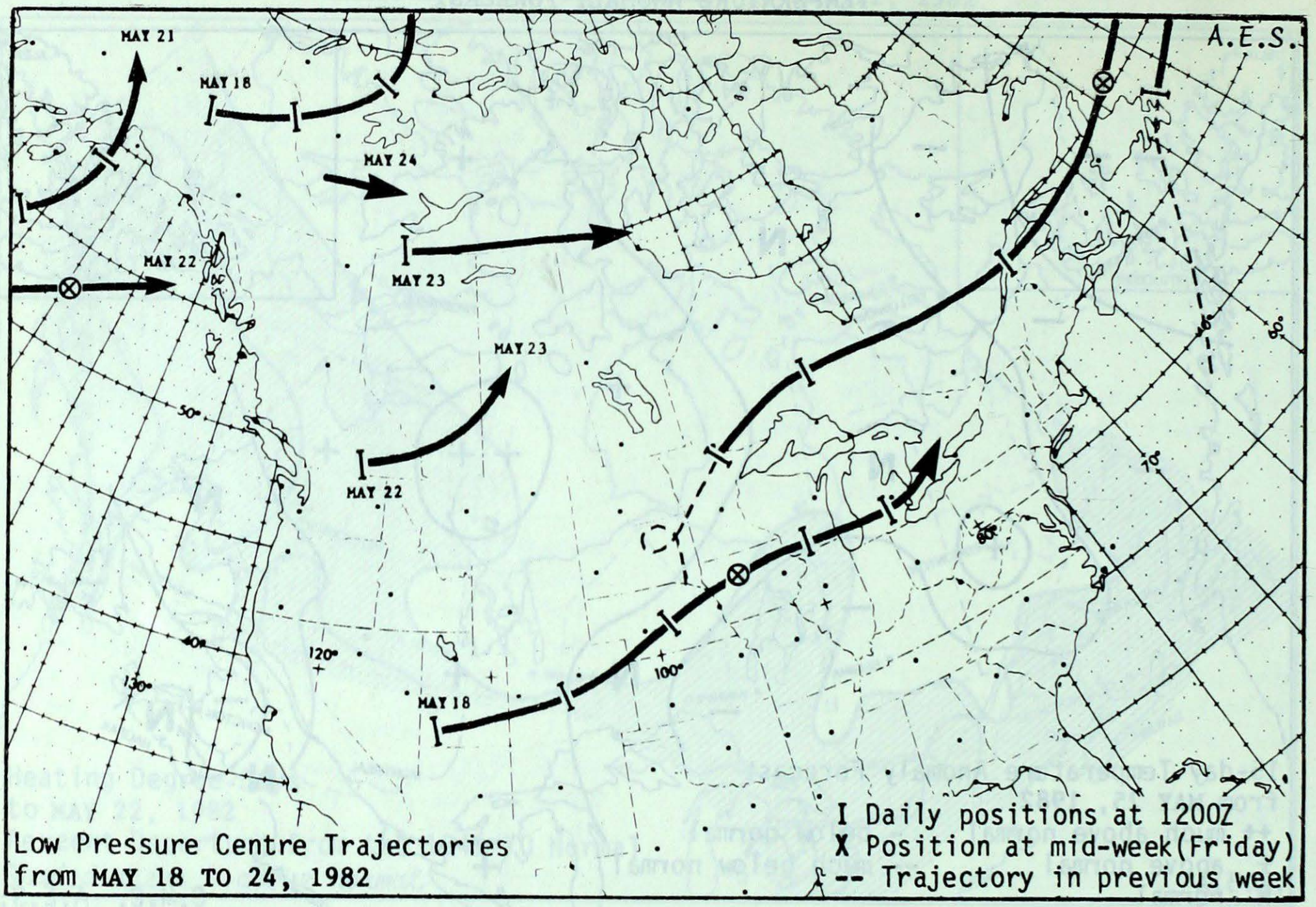
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR MAY 25 1982 TO JUN 8 1982



LOW PRESSURE CENTRE TRAJECTORIES



Low Pressure Centre Trajectories
from MAY 18 TO 24, 1982

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EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	15.0	MAYO	-8.0	KOMAKUK BEACH	14.3	WATSON LAKE
NORTHWEST TERRITORIES	23.0	FORT SMITH	-21.7	HALL BEACH	18.0	YELLOWKNIFE
BRITISH COLUMBIA	30.0	KAMLOOPS	-4.8	DEASE LAKE	69.6	MCINNES ISLAND
ALBERTA	27.8	EDMONTON MUNICIPAL	-2.0	EDSON	40.2	CORONATION
SASKATCHEWAN	26.3	MEADOW LAKE	-1.5	COLLINS BAY	35.6	SASKATOON
MANITOBA	27.2	GILLAM	-4.3	GILLAM	12.2	GILLAM
ONTARIO	30.5	WINDSOR	-5.6	ARMSTRONG	32.8	LANSDOWNE HOUSE
QUEBEC	28.4	SHERBROOKE	-11.5	KOARTAK	29.0	VAL DOR
NEW BRUNSWICK	25.2	FREDERICTON	-7.7	FREDERICTON	22.1	MONCTON
NOVA SCOTIA	25.5	GREENWOOD	-3.0	TRURO	12.0	SHELBURNE
PRINCE EDWARD ISLAND	18.2	SUMMERSIDE	0.0	CHARLOTTETOWN	20.4	SUMMERSIDE
NEWFOUNDLAND	18.4	DEER LAKE	-9.0	CHURCHILL FALLS	41.0	CARTWRIGHT

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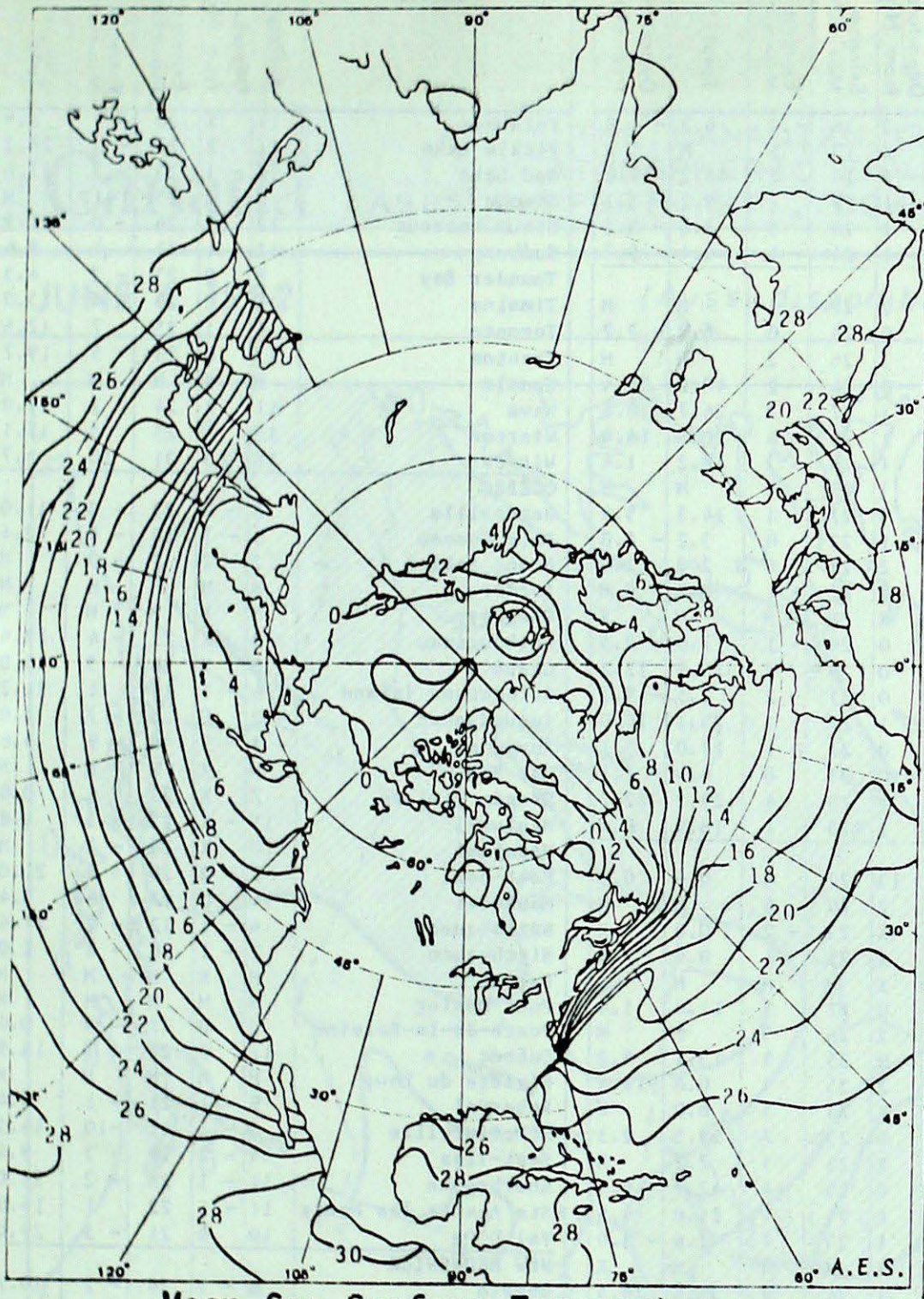
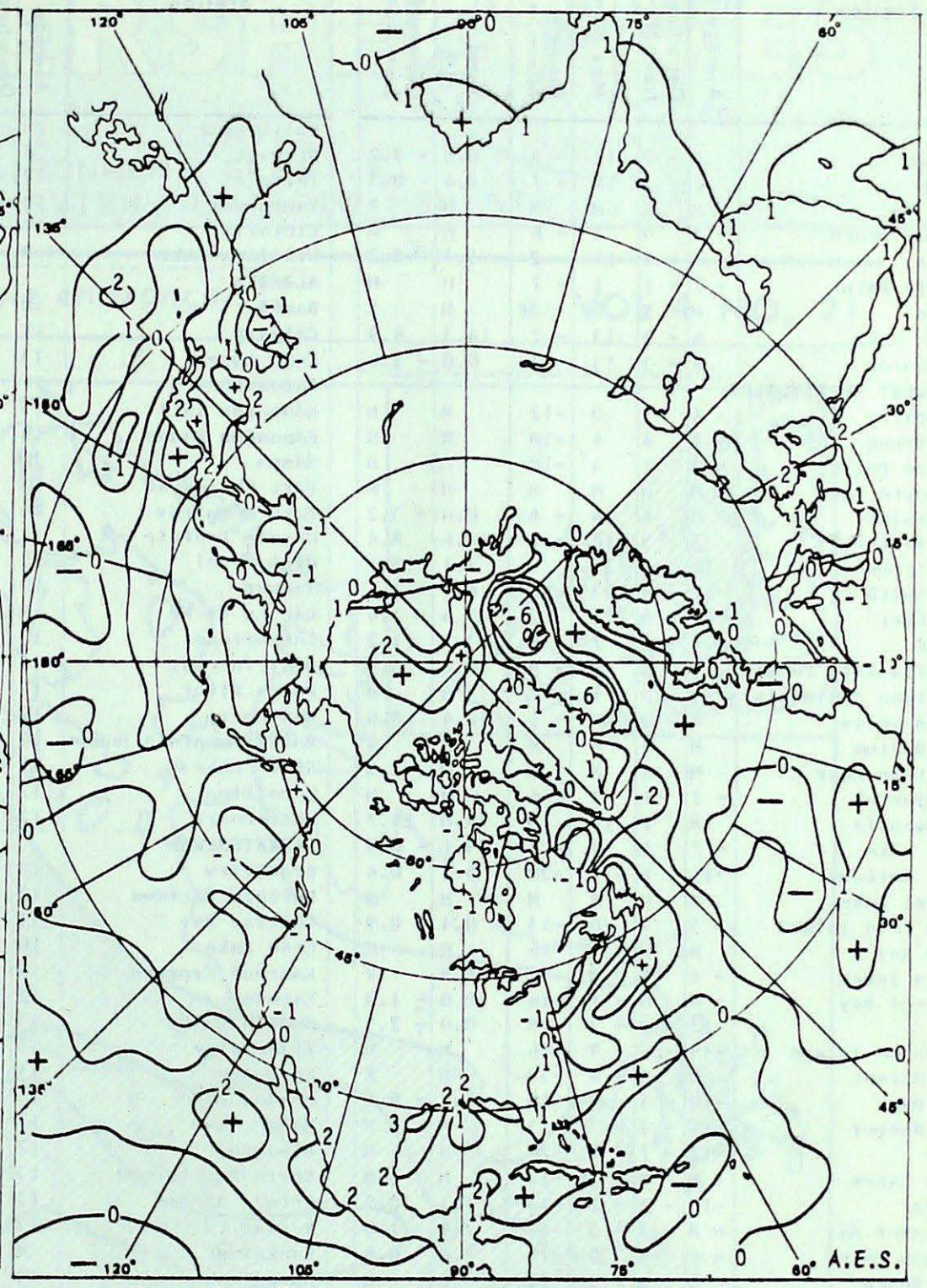
NOTE

Due to a change of computer and software, the atmospheric circulation maps are not available this week. They should be included in the next bulletin.

SEA SURFACE TEMPERATURE



Mean Sea Surface Temperature
MID-APRIL TO MID-MAY 1982



Sea Surface Temperature Anomaly
MID-APRIL TO MID-MAY 1982

CLIMATIC PERSPECTIVES

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. MAY 25, 1982

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
YUKON						
Burwash	4	- 2	12	- 4	0.0	- 9.2
Dawson	7	- 3	14	- 2	4.4	- 0.3
Faro	M	X	M	M	M	X
Komakuk Beach	- 3	0	1	- 8	M	M
Mayo A	7	- 3	15	- 2	5.7	0.2
Shingle Point	- 2	- 1	1	- 7	M	M
Teslin	M	X	9P	- 3P	M	X
Watson Lake	6	- 3	13	- 2	14.3	8.9
Whitehorse	6	- 3	13	- 2	0.0	- 3.0
NORTHWEST TERRITORIES						
Cape Parry	- 4	1	0	-12	M	M
Cape Young	- 2	4	4	-10	M	M
Clinton Point	- 3	1	4	-10	M	M
Contwoyto Lake	M	M	M	M	M	M
Coppermine	0	4	6	- 6	0.0	- 3.2
Fort Reliance	7	5	18	- 1	10.6	8.4
Fort Simpson	11	2	21	1	9.1	- 0.1
Fort Smith	12	4	23	2	8.1	1.1
Hay River	12	6	21	2	3.4	- 1.4
Inuvik	1	- 2	7	- 4	13.5	11.2
Lady Franklin Point	- 1	5	3	- 8	0.4	- 0.2
Nicholson Peninsula	- 3	0	1	- 8	M	M
Norman Wells	8	1	18	- 1	12.4	8.6
Port Radium	M	X	M	M	M	X
Robertson Lake	M	X	M	M	M	X
Tuktoyaktuk	- 2	1	2	- 6	M	M
Yellowknife	8	2	19	0	18.0	14.7
Baker Lake	- 2	4	4	- 8	3.1	- 0.3
Coral Harbour	-11	- 6	- 4	-20	5.2	0.6
Ennadai Lake	M	M	M	M	M	M
Jenny Lind Island	- 5	4	0	-13	0.4	- 0.9
Pelly Bay	M	M	- 5P	-16	M	M
Rankin Inlet	- 4	X	3	- 9	4.9	X
Shepherd Bay	- 8	0	- 1	-16	0.0	- 1.3
Alert	-12	- 2	- 3	-18	0.0	- 2.5
Broughton Island	-13	- 6	- 9	-16	M	M
Cape Dorset	- 9	X	- 4	-13	M	X
Cape Dyer	-10	- 5	- 7	-16	2.2	- 6.1
Cape Hooper	-11	- 4	- 7	-15	M	M
Clyde	-12	- 7	- 4	-20	M	M
Dewar Lakes	M	M	- 5P	-17	M	M
Eureka	-10	- 2	- 1	-17	1.3	0.9
Frobisher Bay	- 8	- 5	- 3	-16	2.9	- 1.0
Gladman Point	- 6	3	0	-15	2.8	0.8
Hall Beach	M	M	- 5P	-22	M	M
Longstaff Bluff	M	M	0P	-17	M	M
Mackar Inlet	M	M	- 5P	-17	M	M
Pond Inlet	-12	X	- 5	-18	0.0	X
Resolute	-10	- 1	- 3	-17	0.2	- 2.3
Byron Bay	- 3	5	3	-11	7.8	6.8
Cambridge Bay	- 4	4	2	-13	M	M
Mould Bay	-10	- 1	- 3	-17	3.0	1.3
Sachs Harbour	- 5	2	- 1	-11	0.0	- 0.6
BRITISH COLUMBIA						
Abbotsford	12	- 1	23	4	3.2	-12.3
Alert Bay	9	- 3	14	3	23.3	12.2
Amphitrite Point	10	X	14	5	3.4	X
Blue River	M	X	M	M	M	X
Bull Harbour	M	M	13	M	69.5	52.3
Burns Lake	7	X	15	- 2	M	X
Cape Scott	8	- 1	12	5	41.3	5.7
Cape St James	8	- 1	13	5	62.9	47.6
Clinton	M	X	M	M	M	X
Comox	12	- 1	20	4	2.6	- 2.5
Cranbrook	12	1	26	2	10.6	- 3.6
Dease Lake	4	- 3	13	- 5	3.6	- 0.4
Estevan Point	M	M	M	M	M	M
Ethelda Bay	8	X	12	4	M	X
Fort Nelson	10	- 2	20	1	28.8	19.1
Fort St John	10	- 1	18	3	1.5	- 5.6
Hope	13	X	24	6	3.4	X
Kamloops	15	0	30	4	2.8	- 2.0
Langara	7	- 2	11	4	61.2	41.8
Lytton	15	1	28	4	0.0	- 2.0
Mackenzie	6	X	16	- 4	M	X
McInnes Island	9	- 2	12	6	69.6	48.2
Nanaimo A	13	X	23	4	M	X
Penticton	14	0	28	2	2.0	- 6.5
Port Alberni	M	X	M	M	M	X
Port Hardy	8	- 2	14	2	21.0	8.9
Prince George	9	- 2	17	- 1	19.4	9.4
Prince Rupert	8	- 1	12	4	64.0	30.0
Puntzi Mountain	M	X	M	M	M	X
Quesnel	9	- 2	20	- 2	17.2	7.7
Revelstoke	13	0	26	2	6.8	- 5.3
Sandspit	8	- 1	12	4	17.5	6.6
Smithers	8	- 3	16	- 1	6.2	- 1.8
Stewart	8	X	13	5	M	X
Terrace	7	- 4	14	2	48.2	39.2
Vancouver	12	- 1	19	7	8.2	- 3.2
Victoria	12	- 1	20	5	3.8	- 3.2
Williams Lake	9	- 1	24	- 1	4.4	- 5.7
ALBERTA						
Banff	10	2	22	- 1	M	M
Calgary	11	0	26	0	6.0	- 2.2
Cold Lake	13	1	25	2	M	M
Coronation	11	0	24	2	40.2	35.4
Edmonton Intl	13	1	27	2	26.7	20.5
Edmonton Namao	13	1	26	4	20.5	14.4
Edson	10	1	26	- 2	12.2	1.4
Fort Chipewyan	13	3	25	4	M	M
Fort McMurray	14	3	27	1	14.3	5.4
Grande Prairie	11	- 1	22	0	3.2	- 4.3
High Level	12	2	22	0	2.9	1.0
Jasper	10	0	22	- 1	0.2	- 8.8
Lac La Biche	M	X	M	M	M	X
Lethbridge	13	0	26	- 1	7.0	- 2.5
Medicine Hat	14	0	26	2	20.9	12.2
Peace River	11	0	21	- 2	1.5	- 9.2
Red Deer	12	1	27	1	25.1	16.0
Rocky Mountain House	10	0	27	- 1	17.0	5.1
Slave Lake	11	0	23	0	4.4	- 7.1
Vermilion	12	1	25	4	29.2	22.7
Whitecourt	12	1	25	1	16.9	8.4
SASKATCHEWAN						
Broadview	13	13	22	6	0.6	0.6
Buffalo Narrows	12	2	24	4	M	M
Collins Bay	11	X	23	- 2	0.6	X
Cree Lake	10	X	23	1	0.4	X
Eastend Cypress	M	X	M	M	M	X
Estevan	12	0	22	5	11.4	1.4
Hudson Bay	13	2	26	5	M	M
Kindersley	13	0	25	3	13.1	8.2
La Ronge	11	2	25	3	0.8	-14.4
Meadow Lake	13	X	26	3	8.0	X
Moose Jaw	13	0	23	7	19.5	9.5
Nipawin	12	X	25	5	7.2	X
North Battleford	13	0	25	4	12.7	6.8
Prince Albert	12	1	25	5	11.4	5.5
Regina	13	1	23	7	1.6	- 8.0
Rockglen	M	X	M	M	M	X
Saskatoon	13	1	24	8	35.6	28.4
Swift Current	12	0	23	6	M	M
Uranium City	11	5	25	2	8.7	2.4
Wynyard	13	X	23	1	2.5	X
Yorkton	13	1	24	5	5.5	- 0.4
MANITOBA						
Bissett	13	X	25	0	3.2	X
Brandon	13	1	23	5	8.6	- 2.2
Churchill	6	7	24	- 4	6.0	- 2.4
Dauphin	13	2	26	4	3.1	- 6.0
Gillam	10	X	27	- 4	12.2	X
Gimli	12	2	25	2	M	M
Grand Rapids	M	X	M	M	M	X
Island Lake	11	X	25	- 1	M	X
Lynn Lake	12	5	26	- 1	2.0	-10.7
Norway House	12	X	24	2	2.8	X
Pilot Mound	13	2	23	4	2.5	- 5.5
Portage	14	1	26	4	1.6	-13.0
The Pas	12	3	25	2	1.5	- 7.5
Thompson	11	4	26	- 3	0.6	-11.1
Winnipeg	14	2	26	4	0.4	-12.0
ONTARIO						
Armstrong	8	0	25	- 6	M	M
Atikokan	11	- 1	25	- 2	10.0	-10.1
Barrie	M	X	M	M	M	X
Big Trout Lake	9	4	26	- 5	7.8	- 2.9
Britt	M	X	M	M	M	X
Caribou Island	M	X	M	M	M	X
Earlton	11	1	25	- 2	M	M
Geraldton	9	- 2	28	- 4	M	M
Gore Bay	12	1	20	3	13.3	5.2
Kapuskasing	11	2	26	- 4	17.9	- 3.7
Kenora	13	1	24	3	2.5	- 6.9
Kingston	13	1	22	6	M	M
Lansdowne	9	2	28	- 3	32.8	18.4
London	15	2	27	8	13.4	- 3.9
Moosonee	6	- 1	25	- 4	13.6	- 0.2
Mount Forest	14	3	26	7	11.6	-12.5
Muskoka	14	2	26	3	M	M
Nagagami	M	X	M	M	M	X
North Bay	12	0	19	0	11.9	- 3.0
Ottawa	14	0	23	4	9.5	- 5.2
Petawawa	11	X	20	- 1	6.9	
Pickle Lake	11	2	27	- 3	28.2	14.
Red Lake	10	- 1	25	- 2	17.6	9.
Simcoe	M	M	25P	11P	M	
Sioux Lookout	12	1	26	0	27.9	16.
Sudbury	12	1	24	1	9.6	- 2.
Thunder Bay	9	0	23	- 2	4.3	-11.
Timmins	11	2	25	- 4	13.0	- 3.
Toronto	14	1	25	7	12.6	- 3.
Trenton	13	0	23	5	19.7	- 4.
Upsala	M	X	M	M	M	
Wawa	11	X	24	- 2	12.0	
Wiarton	12	1	25	5	15.1	1.
Windsor	18	3	31	10	3.7	-14.
QUÉBEC						
Bagotville	8	- 2	23	- 3	11.0	- 5.
Baie Comeau	5	- 3	20	- 4	12.4	- 3.
Blanc Sablon	2	- 2	7	- 3	M	
Border	M	M	M	M	M	
Chevery	M	X	M	M	M	
Chibougamau	8	X	21	- 4	13.6	
Gaspé	6	X	24	- 3	15.0	
Grindstone Island	6	- 1	16	1	21.2	3.
Inoucdjouac	- 2	0	5	- 7	4.0	- 0.
Kuujjuaq	- 3	- 3	8	- 9	5.6	- 1.
Lac Eon	M	X	M	M	M	
Grande Riviere	7	X	23	- 6	0.0	
Maniwaki	11	- 1	23	- 1	1.8	-11.
Matagami	10	X	23	- 3	M	
Mont-Joli	7	- 2	20	- 4	21.0	4.
Montréal	14	0	27	6	3.4	-12.
Natashquan	4	- 1	12	- 2	27.6	4.
Nitchequon	2	- 1	18	- 8	1.0	-11.
Parent	M	X	M	M	M	
Port Menier	M	M	M	M	M	
Poste-de-la-Baleine	2	0	17	- 9	0.0	- 8.
Québec	11	0	21	1	14.9	- 6.
Rivière du Loup	M	M	M	M	M	
Roberval	9	- 1	21	- 1	9.4	- 5.
Schefferville	0	- 2	11	-10	14.1	5.
Sept-Iles	5	- 2	17	- 3	9.4	-10.
Sherbrooke	11	- 1	28	- 2	23.0	0.
Ste Agathe des Monts	11	- 1	22	1	16.0	- 1.
Val D'Or	10	0	21	- 3	29.0	15.
NEW BRUNSWICK						
Charlo	8	- 1	24	- 2	10.2	-11.
Chatham	10	- 1	25	- 1	11.1	- 7.
Fredericton	9	- 2	25	- 8	2.8	-15.
Moncton	8	- 2	22	- 2	22.1	0.
Saint John	8	- 2	16	- 2	21.1	- 0.
St Stephen	M	X	M	M	M	
NOVA SCOTIA						
Amherst	M	X	M	M	M	
Eddy Point	7	X	16	0	6.0	
Greenwood	8	- 4	26	- 2	5.2	-12.
Sable Island	6	- 1	10	1	11.4	-11.
Shearwater	8	- 2	16	0	0.6	-23.
Shelburne	9	X	17	- 2	12.0	
Sydney	7	- 2	19	- 1	8.8	-11.
Truro	8	- 2	19	- 3	4.6	-11.
Yarmouth	9	- 1	17	2	11.2	-10.
PRINCE EDWARD ISLAND						
Charlottetown	7	- 3	18	0	9.1	- 8.
East Point	M	X	M	M	M	
Summerside	8	- 3	18	1	20.4	1.
NEWFOUNDLAND						
Argentia	4	X	8	1	17.1	
Badger	M	X	M	M	M	
Bonavista	4	- 1	14	0	24.2	10.
Burgeo	5	- 1	11	- 1	19.8	- 2.
Cape Race	M	X	M	M	M	
Comfort Cove	4	- 3	18	- 1	29.4	21.
Daniel's Harbour	3	- 2	8	- 1	12.8	- 8.
Deer Lake	5	- 3	18	- 1	M	
Gander	4	- 3	17	- 1	37.0	23.
Port aux Basques	4	- 1	9	- 1	20.2	- 8.
St Albans	6	- 2	16	- 3	M	
St Anthony	2	X	14	- 3	23.5	
St John's	5	- 1	18	- 3	26.6	8.
St Lawrence	6	1	13	- 1	28.8	10.
Stephenville	5	- 3	10	0	29.6	8.
Battle Harbour	1	- 2	10	- 3	11.6	- 2.
Cartwright	1	- 3	13	- 6	41.0	26.
Churchill Falls	1	- 1	13	- 9	11.6	- 1.
Goose	3	- 3	16	- 5	33.3	18.
Hopedale	- 2	- 4	8	- 8	31.1	22.
Wabush Lake	1	- 2	15	- 7	1.9	- 9.

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