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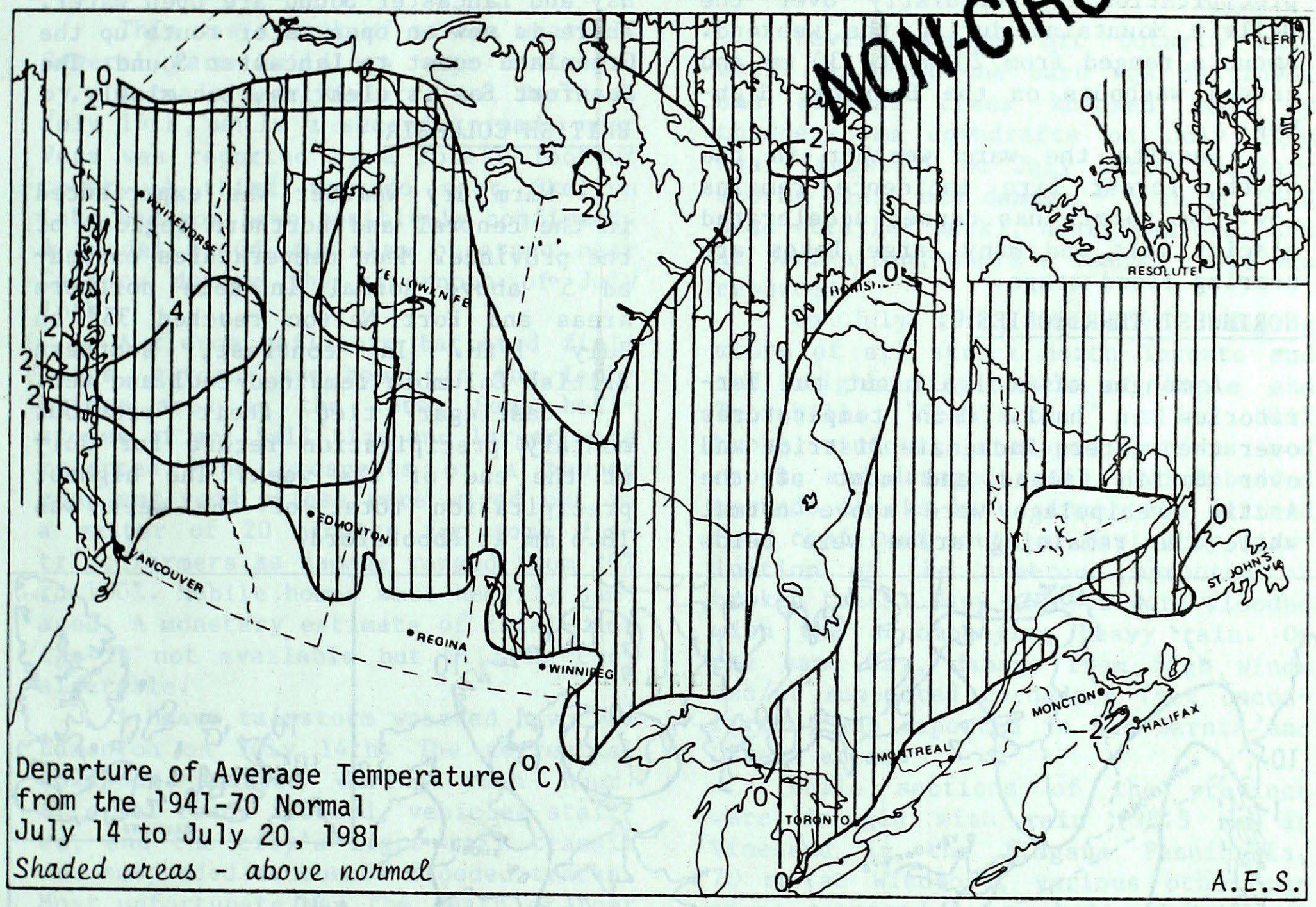
A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES

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

JULY 24, 1981 (Aussi disponible en français) VOL.3 NO. 29



Departure of Average Temperature(^{o}C)
from the 1941-70 Normal
July 14 to July 20, 1981
Shaded areas - above normal

A.E.S.

WEATHER HIGHLIGHTS FOR THE PERIOD - JULY 14 - 20, 1981

Severe weather strikes Alberta and Ontario

A fierce hailstorm battered field crops, gardens and homes in the Lethbridge area on July 13th. Some district farmers reported from 20% to 100% crop damage and mobile homes were heavily damaged.

Four workmen died when they were caught in an underground tunnel during a heavy rainstorm in Edmonton on the 14th. Precipitation amounts of from 45 mm to 85 mm were measured, much of which fell during a 2 hour period.

A heavy thunderstorm struck north of Toronto on July 19th. Tennis-ball sized hail and high winds caused extensive damage. Two embedded tornado tracks have since been defined by examination of numerous uprooted or broken trees.

Temperatures across the country varied from 35° at Fort Nelson, B.C. to -3° at Sachs Harbour, N.W.T. The highest precipitation total, 86 mm, was recorded at Red Deer, Alta.

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

YUKON

This week was the warmest of the year over the southern Yukon. Tuchitua (north of Watson Lake) recorded a high of 31° on July 17th. Northern regions remained cool and Komakuk Beach reached the freezing point on July 15th.

Disturbances moving through the northern Yukon resulted in considerable precipitation, particularly over the Ogilvie Mountains during the weekend. Amounts ranged from 20 mm to 30 mm and caused washouts on the Dempster Highway.

Despite the warm weather in the south, forest fire incidence remains low. The warmth has caused accelerated glacier melt and many large lakes are nearing flood stage.

NORTHWEST TERRITORIES

A tongue of cool air cut the Territories in half. Mean temperatures over the western Mackenzie District and over Baffin Island and most of the Arctic Archipelago were above normal while the remaining areas were below normal. The mercury reached 33° at Fort Simpson on July 16th. It fell below freezing at only 8 stations, the lowest being -3° at Sachs Harbour.

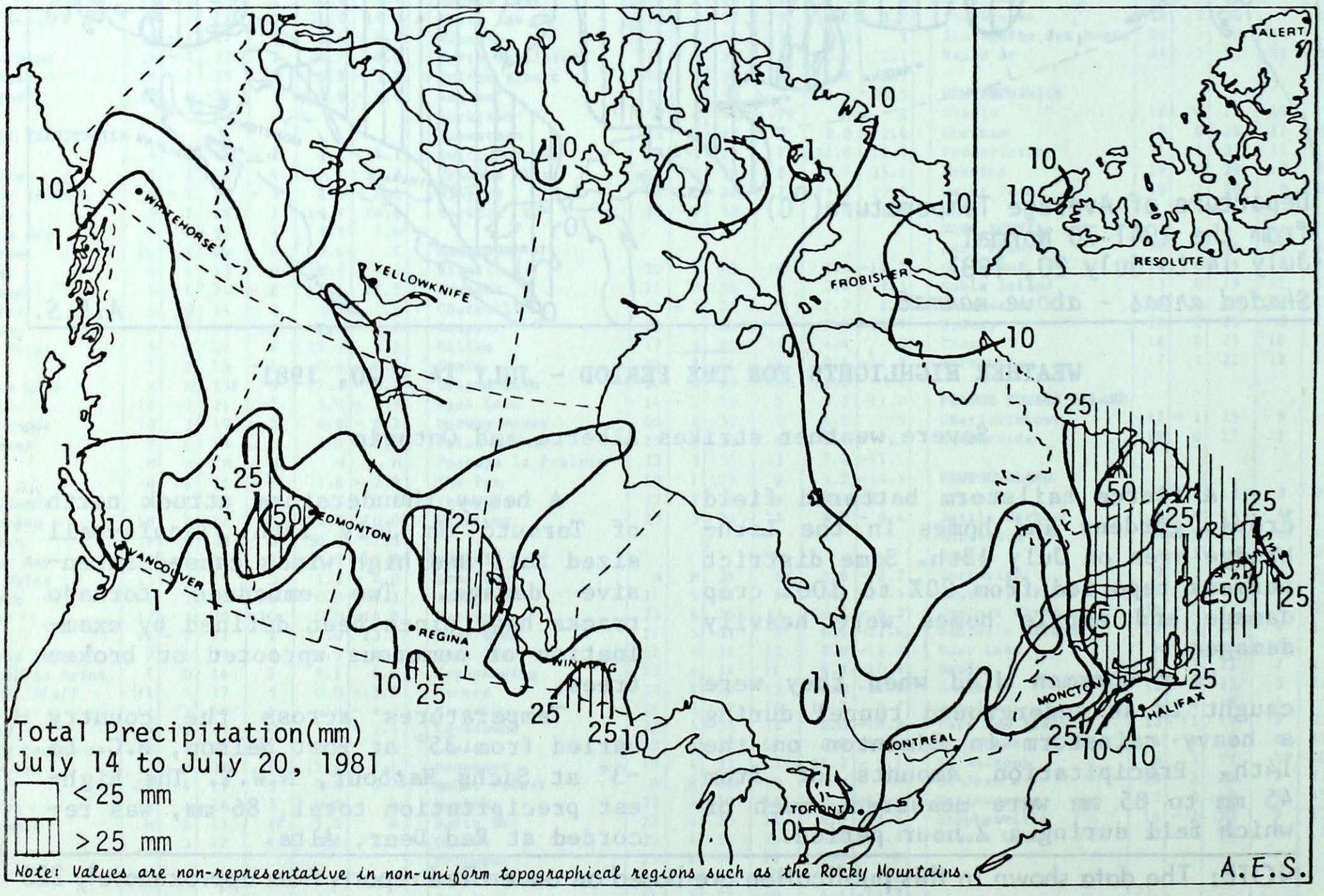
Most precipitation was confined to the Mackenzie Valley and southern Baffin Island. Fort Reliance recorded 23.8 mm.

Ice is disintegrating rapidly in Hudson Bay and Hudson Strait. Ungava Bay and Lancaster Sound are open water. There is now an open water route up the Greenland coast to Lancaster Sound. The Beaufort Sea is clearing, but slowly.

BRITISH COLUMBIA

Warm dry weather was experienced in the central and northern regions of the province. Mean temperatures exceeded 5° above normal in some northern areas and Fort Nelson reached 35° on July 17th. In contrast, southern British Columbia remained cool and wet.

Castlegar tied their previous monthly precipitation record for July at the end of the week. The highest precipitation total of the week was 18.6 mm at Abbotsford.



In contrast to the hay producing areas of the south, those in central British Columbia were doing very well and most hay was up by week's end. Forest fires have developed in north-western areas, although only one was reported out of control. The fire hazard in the south is low to very low.

ALBERTA

This was a week of severe weather. Several farm buildings were destroyed by a tornado near Rivierre qui Barre on July 14th, while a second tornado near Vega was reported by a forest lookout tower. A third tornado near Skelton Lake had not been positively confirmed. A funnel cloud was also observed near Calgary during the afternoon of July 16th.

A fierce hailstorm battered field crops, gardens and homes in the Lethbridge area on the 13th. Some hailstones of golfball size and larger were reported. The prospects of a bumper crop and good prices were wiped out in a matter of 20 minutes for some district farmers as damage ranged from 20% to 100%. Mobile homes were heavily damaged. A monetary estimate of total damage is not available but will be considerable.

A heavy rainstorm wreaked havoc in Edmonton on July 14th. The torrential downpour started during rush hour. Arterial roads flooded, vehicles stalled, and the city's light rail transit was suspended as runoff flooded tracks. Most unfortunate was the death of four workmen caught in an underground tunnel as the pressure of floodwater broke through an earth-retaining wall. Amounts of 45 mm to 85 mm were recorded, much of which fell in a 2 hour period.

As if to compensate for the vagaries of nature, annual Klondike Days activities during the past weekend were ideally hosted under bright sunny skies and very warm temperatures.

SASKATCHEWAN AND MANITOBA

Unsettled, showery conditions dominated this week's weather. Mean temperatures were within 1.5° of normal in most areas. Kindersley reached 32° on the 19th and Norway House approached the freezing point with 2° on the 20th.

Severe weather accompanied by golfball sized hail struck Swift Current on the 14th and a funnel cloud was sighted at Regina on the same day. Many areas received substantial amounts of precipitation with Wynyard recording the greatest amount, 57 mm.

ONTARIO

Severe storms hit Ontario this week. At least one barn was destroyed and several trees knocked down by thunderstorm downdrafts on July 14th near Kingston. On July 18th, thunderstorms again did damage - both at Bond Head (trailer park), near Bradford, and at Burlington, where a funnel cloud was reported.

On July 19th, the most damaging storm of all struck north Toronto and the neighbouring towns of Maple and Thornhill. "Tennis-ball" sized hail broke windows, stripped gardens and crops, and damaged roofs. Two embedded tornado tracks have since been defined (one confirmed south of Maple) by examination of the numerous uprooted or broken trees. Many streets were flooded with the accompanying heavy rain. On the same day, damage from high winds and/or suspected tornadoes (yet unconfirmed) was reported in the Sarnia and Ottawa areas.

While sections of the province were deluged with rain (98.5 mm at Vineland in the Niagara Penninsula, 70 mm at Windsor), various other regions remained unseasonally dry. Mount Forest has received only 3.6 mm of a precipitation this July and has not received a significant fall since June 22nd.

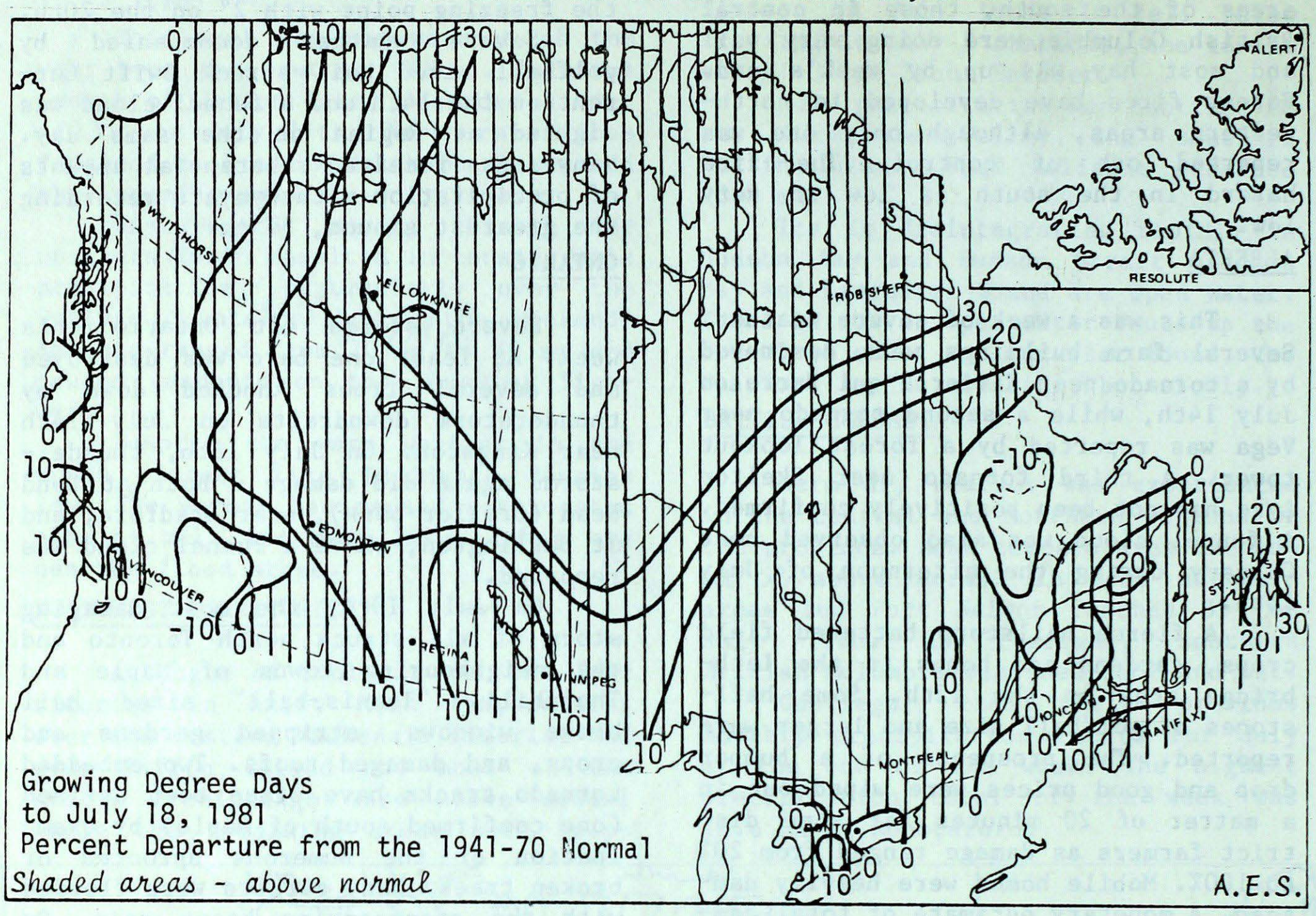
QUÉBEC

Sunny skies and near normal mean temperatures were enjoyed by all regions this week. The mercury reached the 30° mark at Bagotville and at Matagami on the 19th, and fell to 1° at Inoucdjouac on the same day.

The week ended the same way it started; with showers and thundershowers. Precipitation totaled 77.2 mm at Gaspé, 49.8 mm of which fell on the 14th.

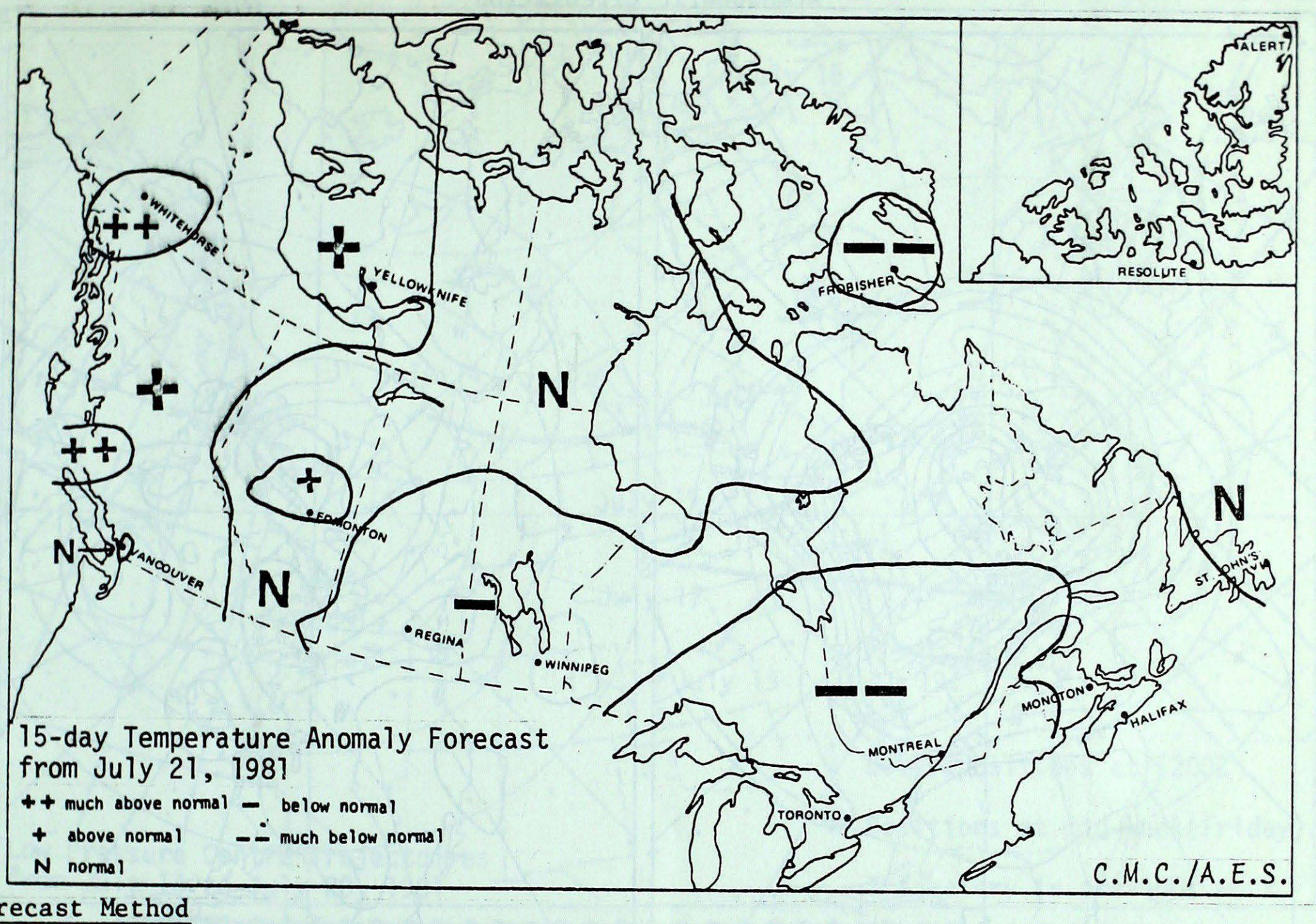
(continued on page 7)

GROWING DEGREE-DAY SUMMARY TO JULY 18, 1981



CITY	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Whitehorse	158.0	-4.0	454.5	7.5	102
Penticton	237.5	-24.5	923.5	-95.5	91
Vancouver	201.5	-15.5	946.5	31.5	103
Edmonton	231.5	28.5	830.5	176.5	127
Calgary	181.0	-21.0	625.0	24.0	104
Regina	288.0	43.0	893.0	142.0	119
Saskatoon	262.0	19.0	858.5	108.5	114
Winnipeg	304.5	45.5	865.5	62.5	108
Thunder Bay	254.0	36.0	655.5	51.5	109
Windsor	345.5	39.5	1256.0	104.0	109
Toronto	310.5	34.5	910.0	-53.0	94
Ottawa	318.0	40.0	980.0	33.0	103
Montreal	311.5	24.5	980.5	11.5	101
Quebec	275.5	26.5	809.5	34.5	104
Fredericton	282.5	36.5	849.0	82.0	111
Halifax	237.0	9.0	665.5	23.5	104
Charlottetown	240.5	1.5	725.5	116.5	119
St John's	165.0	-14.0	488.0	116.0	131

15 DAY TEMPERATURE ANOMALY FORECAST



Forecast Method

Analogue technique based on point prediction at 70 Canadian stations.

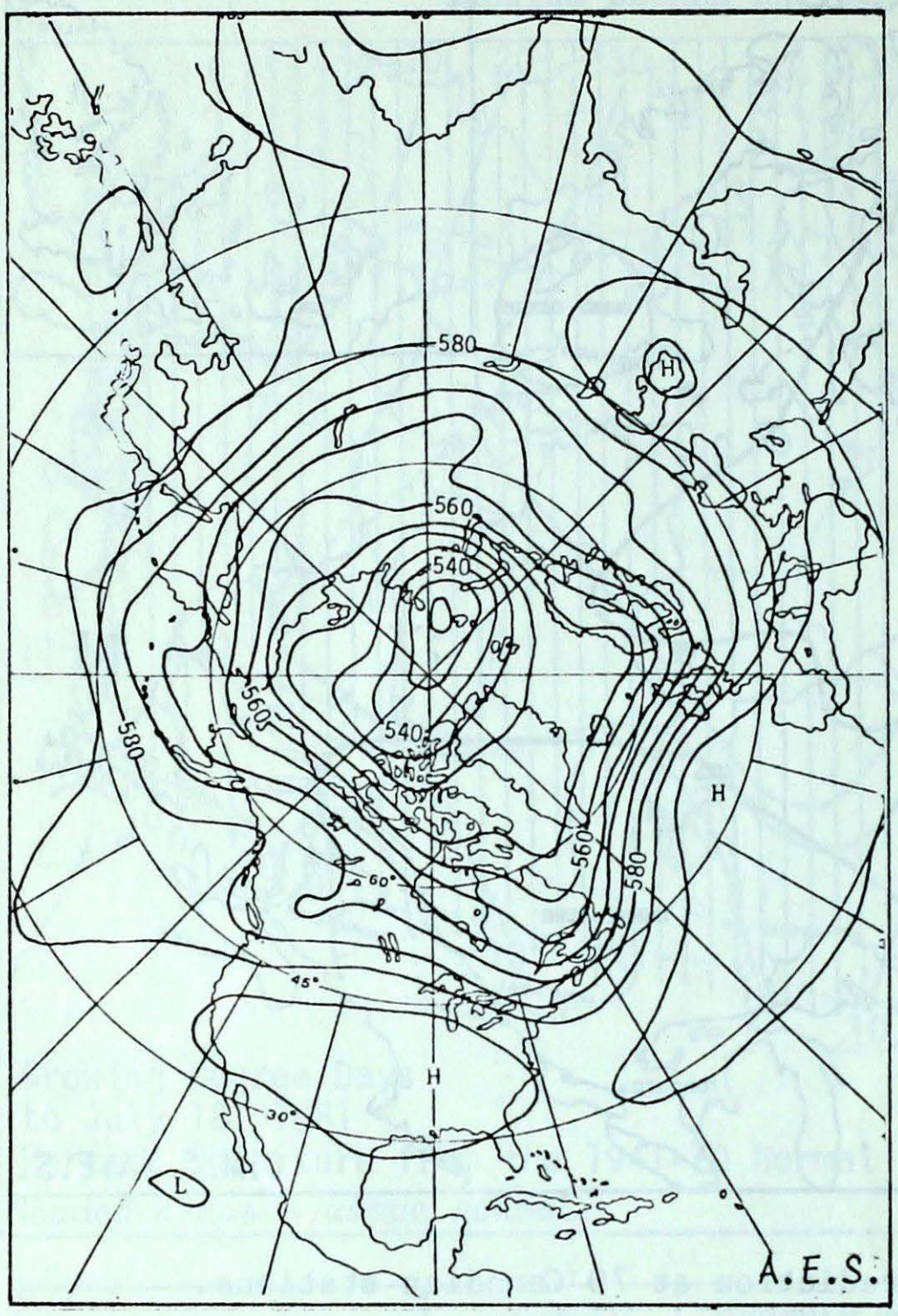
Temperature Scale

Each temperature class is designed to contain 20% of the historically observed 15 day means pertinent to specific location and time of year:

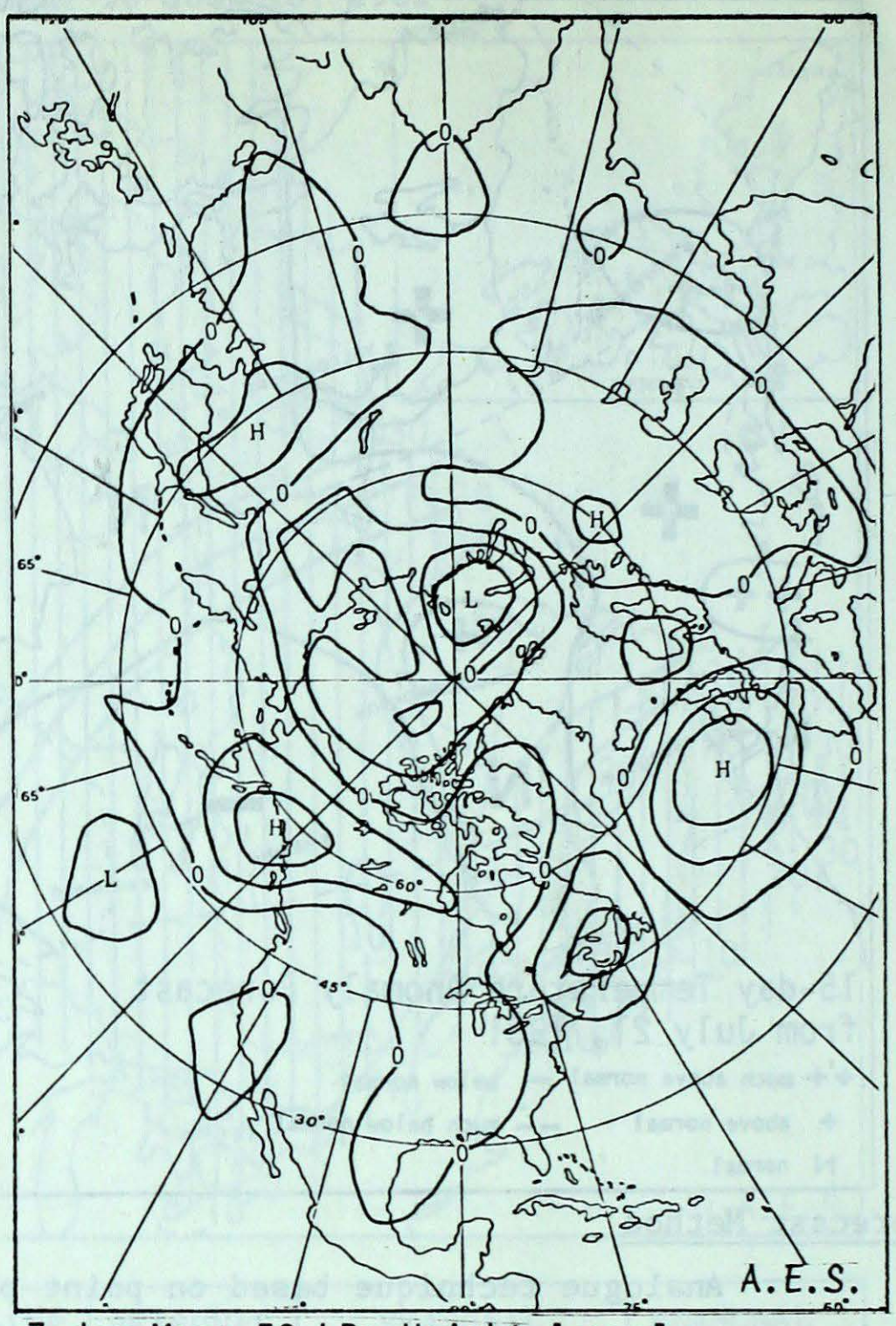
Station	Current Temperature Anomaly Forecast	
Whitehorse	Much Above Normal	More than 1.4° above Normal
Victoria	Above Normal	From 0.3° to 1.0° above Normal
Vancouver	Near Normal	Within 0.3° of Normal
Edmonton	Above Normal	From 0.4° to 1.4° above Normal
Regina	Below Normal	From 0.4° to 1.5° below Normal
Winnipeg	Below Normal	From 0.5° to 1.5° below Normal
Thunder Bay	Much Below Normal	More than 1.3° below Normal
Toronto	Much Below Normal	More than 1.5° below Normal
Ottawa	Much Below Normal	More than 1.4° below Normal
Montreal	Much Below Normal	More than 1.3° below Normal
Quebec	Much Below Normal	More than 1.3° below Normal
Fredericton	Below Normal	From 0.4° to 1.3° below Normal
Halifax	Below Normal	From 0.3° to 1.0° below Normal
Charlottetown	Below Normal	From 0.3° to 1.1° below Normal
St. John's	Near Normal	Within 0.5° of Normal
Goose Bay	Below Normal	From 0.4° to 1.5° below Normal
Frobisher Bay	Much Below Normal	More than 1.1° below Normal
Inuvik	Above Normal	From 0.6° to 2.0° above Normal

Note: Anomaly denotes departure from the 1949-73 mean.

Atmospheric Circulation



7-day Mean 50 kPa Height Map(in dam)
July 13 to July 19, 1981



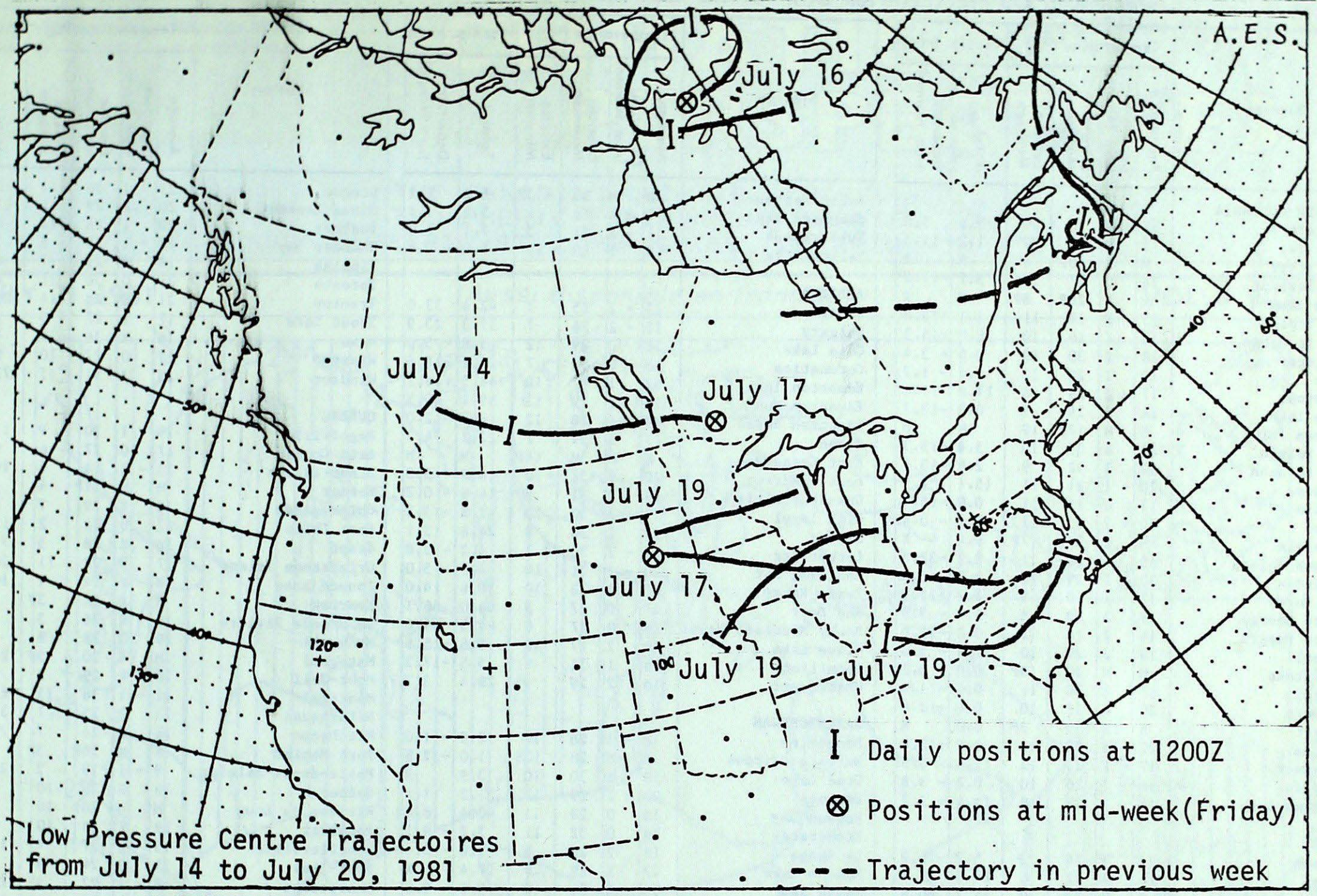
7-day Mean 50 kPa Height Anomaly
(in 5 dam intervals)July 13 to July 19, 1981

The Arctic tropospheric current intensified this week at the expense of the southern current. A major North American ridge on the southern current weakened somewhat but maintained its position and wavelength. A trough anchored over the Maritime Provinces intensified feeding on the fusion of the currents. In contrast, a trough to the west of the ridge, aligned with Vancouver Island, maintained its amplitude, but the circulation around it is very weak.

The northern current brought in cold air which confronted the warm moist air occupying southern Canada. This generated many showers and thunderstorms, some of which produced hail and tornados in the Prairies and Ontario.

A moist inflow of air from the Pacific produced above normal precipitation in the southern Yukon and southern British Columbia, while a small ridge provided warm and sunny weather to northern British Columbia.

LOW PRESSURE CENTRE TRAJECTORIES



Low Pressure Centre Trajectoires
from July 14 to July 20, 1981

(continued from page 3)

ATLANTIC PROVINCES

Mean temperatures over most of the Maritimes were close to 2° below normal while Newfoundland enjoyed near normal temperatures. Goose Bay saw the mercury reached 32° on the 20th and Churchill came within 3° of the freezing point on the 17th.

Most precipitation fell in the first two days of the week, but most weekly totals were above normal. Burgeo recorded 51.8 mm.

Blight has affected some varieties of potatoes in New Brunswick and Prince Edward Island. An early infestation of army worms is the result of the cool and wet weather in Nova Scotia, but the blueberry crop looks good. The weather has been excellent for hay in Newfoundland and no diseases or insects have been reported yet.

CLIMATIC PERSPECTIVES
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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. JULY 21, 1981

Station	Temperature (°C)				Precip. (mm)	
	Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal
BRITISH COLUMBIA						
Abbotsford	17	0	28	10	18.6	8.8
Alert Bay	15	0	19	10	1.2	-11.3
Blue River	M	X	30P	8	M	X
Bull Harbour	14	0	17	11	3.1	-11.2
Burns Lake	M	X	28P	8P	M	X
Cape Scott	13	0	18	11	1.1	-19.0
Cape St James	14	1	19	10	0.0	-15.3
Castlegar	18	- 2	30	10	0.6	- 3.4
Comox	19	1	28	12	6.1	- 1.7
Cranbrook	17	- 2	29	8	17.0	11.6
Dease Lake	16	3	28	5	0.0	-13.7
Estevan Point	M	M	17P	10	M	M
Fort Nelson	22	4	35	10	5.8	-13.3
Fort St John	20	3	32	9	2.8	-13.7
Kamloops	20	- 1	31	11	15.1	9.5
Langara	13	0	15	11	0.0	-15.6
Lytton	20	- 2	33	11	2.2	- 0.4
Mackenzie	M	X	32	7P	0.4	X
McInnes Island	15	1	19	11	0.2	-32.8
Penticton	20	- 1	29	12	4.8	- 1.4
Port Hardy	15	1	19	9	1.2	-12.3
Prince George	19	3	30	8	6.7	- 9.5
Prince Rupert	14	2	18	12	0.0	-31.0
Quesnel	19	2	29	10	11.4	- 5.0
Revelstoke	M	M	30	10P	0.0	- 8.2
Sandspit	17	3	24	11	0.0	-11.0
Smithers	20	6	32	10	0.0	-12.4
Stewart	M	X	30	9P	0.0	X
Terrace	22	6	33	13	0.0	-17.8
Vancouver	17	- 1	23	12	12.4	5.3
Victoria	16	- 1	26	10	0.2	- 3.8
Williams Lake	16	1	26	8	14.4	- 3.7
YUKON						
Burwash	15	3	24	2	5.2	-14.2
Dawson	16	0	27	6	24.5	11.5
Komakuk Beach	8	0	22	0	25.2	20.8
Mayo	18	3	28	9	11.3	2.4
Shingle Point	12	0	26	4	7.3	1.4
Watson Lake	19	4	30	9	2.0	- 9.6
Whitehorse	17	3	27	5	0.0	- 5.4
NORTHWEST TERRITORIES						
Alert	5	1	12	- 1	7.3	4.1
Baker Lake	11	- 1	22	3	4.2	- 1.9
Broughton Island	6	2	14	- 2	18.7	17.5
Byron Bay	9	- 1	17	2	8.2	4.1
Cambridge Bay	8	- 1	15	3	8.2	2.5
Cape Dorset	7	X	17	1	11.8	X
Cape Dyer	6	1	16	1	10.7	4.5
Cape Hooper	5	1	18	- 2	17.9	15.6
Cape Parry	5	- 1	17	- 1	11.2	8.7
Cape Young	10	3	23	4	1.4	- 2.1
Clinton Point	9	1	23	3	12.7	7.9
Clyde	5	1	15	- 1	5.6	0.3
Contwoyto Lake	M	M	17P	3P	5.2	- 1.8
Coppermine	12	2	25	3	2.6	- 5.1
Coral Harbour	10	1	20	1	4.5	- 3.6
Dewar Lakes	8	3	17	1	5.2	- 0.2
Ennadai	M	M	M	0P	M	M
Eureka	6	0	13	1	4.3	2.5
Fort Reliance	15	1	28	6	23.8	18.2
Fort Simpson	20	3	33	8	16.0	4.6
Fort Smith	19	2	32	10	0.0	-10.3
Frobisher Bay	8	0	15	3	9.5	- 4.2
Gladman Point	6	- 2	15	0	6.1	0.6
Hall Beach	6	0	15	1	11.4	5.1
Hay River	17	1	32	7	0.6	- 6.7
Inuvik	14	- 2	24	6	7.4	0.9
Jenny Lind Island	6	0	18	0	11.7	6.8
Lady Franklin Point	8	1	15	4	3.7	1.3
Longstaff Bluff	11	4	18	5	0.0	- 5.0
Mackar Inlet	6	0	16	- 2	13.6	6.4
Mould Bay	3	0	13	- 2	14.3	10.4
Nicholson Peninsula	9	0	18	0	9.2	4.9
Norman Wells	19	2	28	12	10.6	- 2.0
Pelly Bay	6	- 1	17	0	19.4	11.0
Pond Inlet	9	X	15	2	8.2	X
Port Burwell	M	X	15	2P	9.1	X
Resolute	5	1	13	1	3.0	- 4.0
Sachs Harbour	M	M	13	- 3P	6.2	2.2
Shepherd Bay	7	- 1	18	1	5.0	1.5
Tuktoyaktuk	11	- 2	21	3	7.1	4.0
Yellowknife	18	1	29	11	5.0	- 0.8
ALBERTA						
Banff	13	- 2	25	1	42.4	33.0
Calgary	15	- 2	26	7	37.3	23.9
Cold Lake	18	0	29	12	12.8	- 5.6
Coronation	18	0	31	7	4.2	-18.5
Edmonton Intl	17	1	27	10	46.5	18.7
Edmonton Mun	19	1	29	13	59.1	40.5
Edmonton Namao	18	1	28	12	18.3	2.0
Edson	17	1	29	7	22.2	4.3
Fort Chipewyan	M	M	M	14P	M	M
Fort McMurray	20	3	31	10	10.8	- 3.0
Grande Prairie	19	2	31	8	14.5	- 0.7
High Level	19	3	30	10	1.8	-13.3
Jasper	17	1	30	8	24.8	13.1
Lethbridge	17	- 2	30	7	4.2	- 2.8
Medicine Hat	20	- 1	31	10	4.3	- 5.0
Peace River	20	3	32	10	30.6	14.0
Red Deer	17	0	27	9	86.0	66.1
Rocky Mountain House	16	0	27	8	60.3	35.6
Slave Lake	18	2	27	10	5.6	-15.5
Vermilion	18	1	32	9	5.5	-17.3
Whitecourt	18	2	29	9	29.4	3.7
SASKATCHEWAN						
Broadview	18	- 1	28	10	12.9	- 1.0
Buffalo Narrows	M	M	28	12P	1.0	-12.8
Cree Lake	19	X	30	10	3.9	X
Estevan	20	- 1	29	12	31.2	11.7
Hudson Bay	18	0	29	11	40.4	18.8
Kindersley	19	0	32	11	3.2	- 9.1
La Ronge	18	2	29	6	7.0	-10.6
Meadow Lake	17	X	29	9	17.4	X
Moose Jaw	20	- 1	31	12	8.6	0.6
Nipawin	18	X	28	11	47.6	X
North Battleford	19	0	31	12	19.6	3.9
Prince Albert	18	0	30	11	31.1	13.6
Regina	19	- 1	28	11	19.8	7.8
Rockglen	M	X	29P	11P	M	X
Saskatoon	19	0	30	13	16.2	5.0
Swift Current	18	- 1	29	10	30.5	17.8
Uranium City	18	1	28	9	3.1	- 7.3
Wynyard	18	- 2	27	11	57.0	34.6
Yorkton	18	- 1	28	11	30.5	12.1
MANITOBA						
Bissett	20	2	29	8	5.9	- 8.5
Brandon	18	- 1	27	9	4.5	-11.8
Churchill	13	0	29	5	25.2	18.6
Dauphin	19	0	29	10	31.6	8.5
Gillam	15	X	29	5	8.7	X
Gimli	20	0	30	11	9.2	-11.3
Island Lake	20	X	28	5	3.2	X
Lynn Lake	16	1	28	4	17.6	4.9
Norway House	M	X	28P	2	2.0	X
Pilot Mound	19	0	29	11	5.3	- 9.2
Portage la Prairie	19	- 1	28	11	26.1	6.6
The Pas	18	- 1	28	3	14.7	- 4.5
Thompson	17	2	30	3	14.9	- 7.5
Winnipeg	20	0	30	9	12.9	- 6.3
ONTARIO						
Armstrong	M	M	31P	5	1.2	-18.0
Atikokan	17	- 1	29	7	3.4	-24.2
Earlton	19	1	29	9	2.0	-17.1
Geraldton	17	0	29	5	4.6	-18.6
Gore Bay	20	1	28	13	1.1	-15.6
Kapuskasing	17	0	30	7	6.6	-21.7
Kenora	21	1	28	13	38.6	21.5
Kingston	20	- 1	27	14	19.7	4.6
Lansdowne	19	1	30	6	2.3	-14.4
London	20	- 1	29	11	23.1	3.6
Moosonee	14	- 1	30	1	5.2	-13.4
Mount Forest	M	M	30P	10	0.6	-29.4
Muskoka	20	1	28	10	7.0	-16.0
North Bay	20	2	28	12	2.6	-21.4
Ottawa	21	0	29	15	17.0	0.0
Petawawa	19	X	28	9	18.0	X
Pickle Lake	19	1	29	6	5.0	-16.3
Red Lake	19	0	29	10	11.0	- 6.3
Simcoe	21	1	30	12	10.0	- 6.6
Sioux Lookout	20	2	29	11	11.8	- 7.3
Sudbury	20	1	28	11	4.2	-13.1
Thunder Bay	17	- 1	25	8	3.5	-14.3
Timmins	18	0	29	7	0.0	-23.0
Toronto	21	0	30	11	6.1	-17.4
Trenton	21	0	28	14	26.0	6.0
Trout Lake	17	1	27	5	3.1	-16.5
Wawa	16	X	26	7	4.5	X
Wiarton	19	0	27	10	0.0	-23.6
Windsor	23	1	31	17	72.0	52.6
QUÉBEC						
Bagotville	19	1	30	9	11.3	-14.6
Baie Comeau	17	0	27	6	0.0	-13.9
Blanc Sablon	11	- 1	14	6	18.0	- 7.4
Border	M	M	11P	4	M	M
Chibougamau	18	X	29	7	7.2	X
Fort Chimo	12	0	22	2	12.7	- 0.2
Gaspé	16	X	28	5	77.2	X
Grindstone Island	17	0	22	11	26.0	13.8
Inoucdjouac	8	- 1	24	1	10.6	0.7
Koartak	M	X	16	3P	3.0	X
La Grande Rivière	16	X	26	3	3.6	X
Maniwaki	19	0	28	9	2.8	-23.8
Matagami	M	X	30	5P	23.4	X
Mont-Joli	18	1	29	8	0.0	-15.0
Montréal	21	- 1	28	13	22.6	7.9
Natashquan	15	0	25	7	35.2	14.4
Nitchecun	16	2	26	7	20.8	2.1
Port Menier	M	M	26P	5P	M	M
Poste-de-la-Baleine	9	- 1	19	2	26.2	13.0
Québec	19	0	29	10	9.4	-16.4
Rivière du Loup	M	M	28P	10	M	M
Roberval	19	1	28	10	2.0	-31.5
Schefferville	15	2	27	4	12.0	- 8.0
Sept-Iles	15	0	24	9	8.6	-17.4
Sherbrooke	18	- 1	27	9	20.7	- 2.6
Ste Agathe des Monts	18	- 1	26	10	13.8	- 7.0
Val d'Or	18	1	27	8	5.6	-17.3
NEW BRUNSWICK						
Charlo	17	- 2	26	8	15.8	- 9.2
Chatham	18	- 2	30	10	37.2	20.1
Fredericton	18	- 2	30	8	8.3	- 8.7
Moncton	18	- 2	28	10	31.8	14.0
Saint John	17	0	26	9	26.4	5.4
NOVA SCOTIA						
Eddy Point	16	X	24	11	28.4	X
Greenwood	17	- 2	29	8	6.2	- 5.3
Sable Island	M	M	21P	13	21.6	4.2
Shearwater	16	- 2	25	10	12.2	-10.2
Sydney	17	- 2	27	11	34.0	21.6
Truro	17	- 1	27	10	14.6	1.6
Yarmouth	16	0	23	11	6.7	- 9.6
PRINCE EDWARD ISLAND						
Charlottetown	18	- 1	27	11	44.1	26.6
Summerside	19	- 1	27	11	22.6	5.3
NEWFOUNDLAND						
Argentia	14	X	20	10	37.4	X
Battle Harbour	M	M	25	5P	41.6	29.7
Bonavista	16	0	27	9	24.0	14.8
Burgeo	13	- 1	18	9	51.8	15.0
Cartwright	14	1	29	5	42.8	22.7
Churchill Falls	13	- 1	29	3	19.2	- 4.6
Comfort Cove	17	0	27	10	27.2	13.1
Daniel's Harbour	15	1	21	10	27.8	12.6
Deer Lake	16	- 1	29	5	46.2	31.1
Gander	17	0	27	11	29.8	17.3
Goose	16	0	32	6	70.2	41.5
Hopedale	12	0	30	4	27.3	6.3
Port aux Basques	13	0	17	11	40.7	17.9
St Albans	16	- 1	24	8	61.2	28.3
St Anthony	14	X	25	6	49.7	X
St John's	15	0	26	9	23.2	6.2
St Lawrence	13	0	18	7	49.6	24.3
Stephenville	17	1	24	11	43.6	25.8
Wabush Lake	M	M	28	6P	0.4	-13.8

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