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A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES

THE CANADIAN CLIMATE CENTRE,
ATMOSPHERIC ENVIRONMENT SERVICE,
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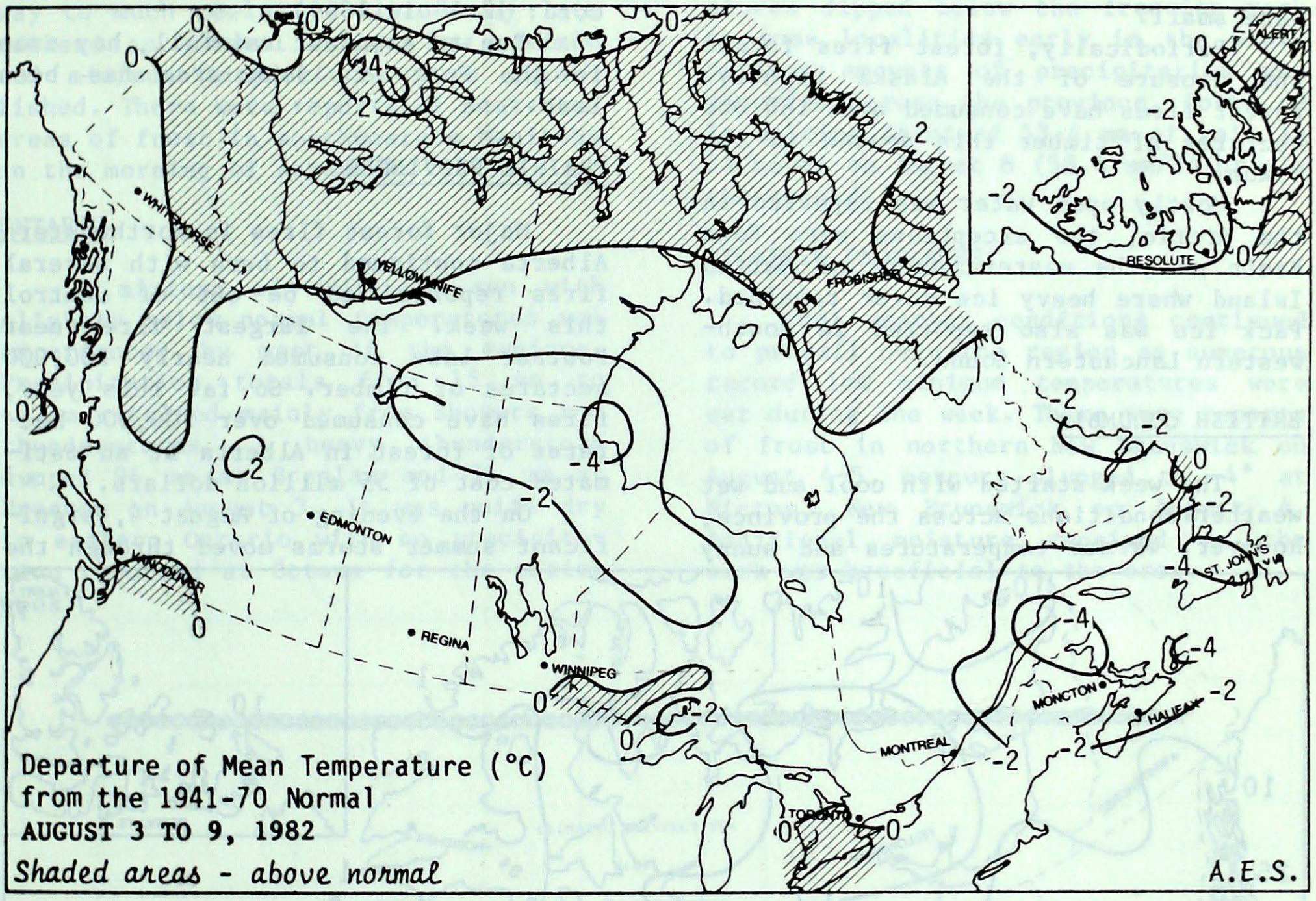
Canada

AUGUST 13 1982 (Aussi disponible en français) VOL.4 NO. 31



Departure of Mean Temperature (°C)
from the 1941-70 Normal
AUGUST 3 TO 9, 1982
Shaded areas - above normal

A.E.S.

WEATHER HIGHLIGHTS FOR THE PERIOD - AUGUST 3-9, 1982

Major forest fires rages on in northern Alberta

Several major forest fires were reported to be out of control in northern Alberta. The largest fire near Footner Lake had consumed nearly 200,000 hectares of timber, bringing the total to 700,000 hectares for the season; at a cost of $55 million in Alberta this year.

Much cooler air moved into eastern prairies and into New Brunswick, where mercury plunged to near the freezing mark.

Temperatures varied from a high of 36° at Lytton, B.C. to a low of -4° at Nictou, N.B. Breslau, Ont. received 96 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 NORTHWEST TERRITORIES

Temperatures dropped to near normal values during the week in the Yukon which helped to ease the forest fire situation. However, with the hot weather continuing in the Liard Basin, large fires were still reported to be out of control there. Precipitation was spotty in nature over all areas and amounts were small.

Periodically, forest fires forced the closure of the Alaska highway. Forest fires have consumed over 160,000 hectares of timber this season in the Yukon.

Mostly open water was reported in the Arctic, the exceptions were Foxe Basin and the eastern shore of Baffin Island where heavy ice cover remained. Pack ice was also reported in southwestern Lancastern Sound.

BRITISH COLUMBIA

The week started with cool and wet weather conditions across the province, however, warmer temperatures and sunny skies returned on the weekend.

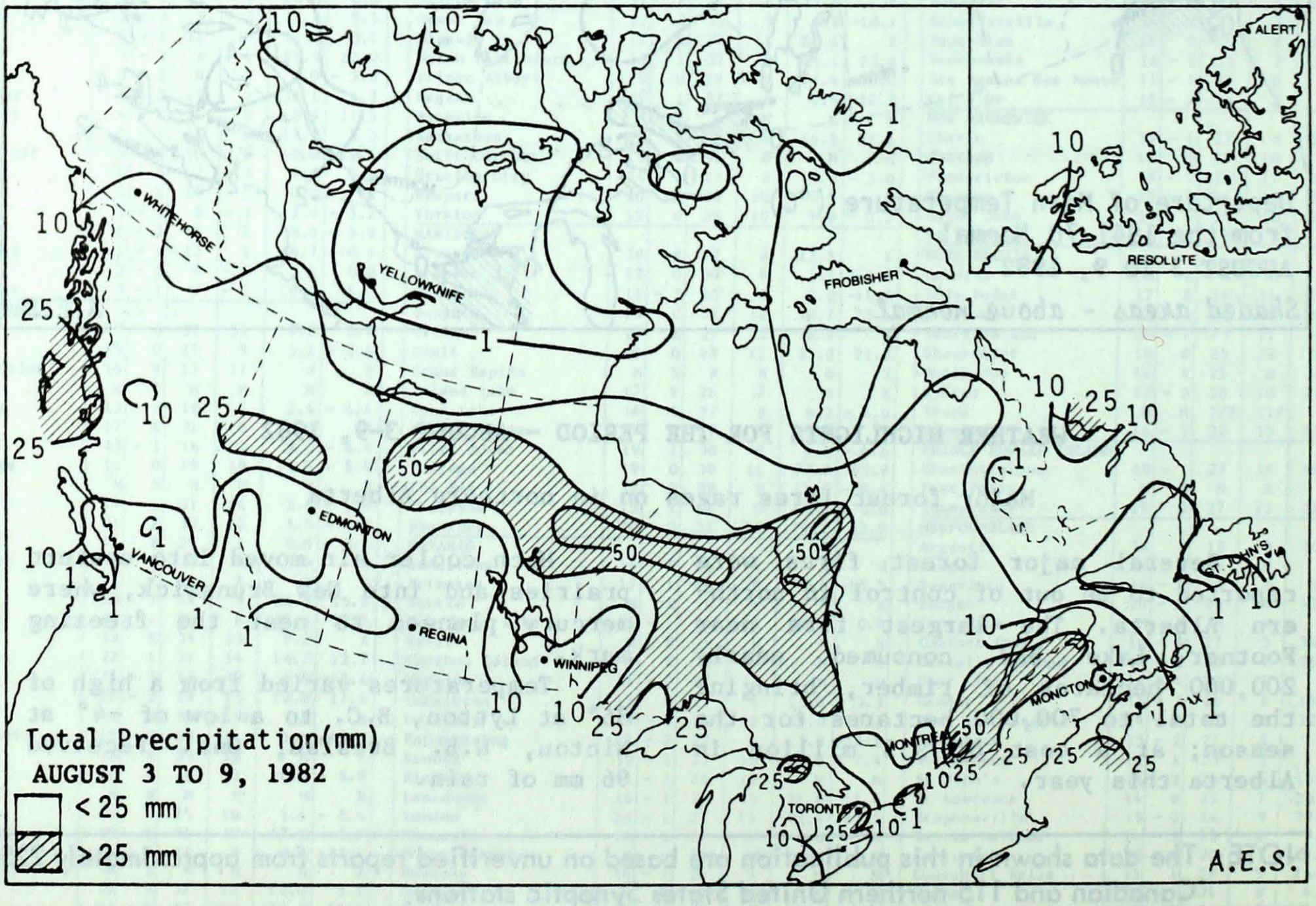
The cool and wet weather during the week had substantially helped the forest fire situation with fire weather index back to normal across much of British Columbia. Below normal temperatures established record low maximum of 14.1° at Terrace on August 5, (previous record: 14.6° in 1975) and 10.4° at Fort St. John on August 3 (previous record: 12.1° in 1964).

Due to abundant rainfall, hay crop in the Fort St. John area has been lost.

PRAIRIE PROVINCES

Major forest fires in northwestern Alberta continued to burn with several fires reported to be out of control this week. The largest fire near Footner Lake consumed nearly 200,000 hectares of timber. So far this year, fires have consumed over 700,000 hectares of forest in Alberta at an estimated cost of 55 million dollars.

On the evening of August 4, significant summer storms moved through the



Edmonton area. Lightning from these storms ignited 15 fires, one blaze was reported at the meat packing plant, damage to the plant was estimated at a quarter of a million dollars. With the dry weather conditions moving into southern Alberta, crops were reported to be progressing well.

Elsewhere in the Prairies, seasonable temperatures during the week gave way to much cooler conditions by late weekend as several record low maximum and minimum temperatures were established. There were reports of scattered areas of frost in southwestern Manitoba on the morning of August 9.

ONTARIO

A mixture of rain and sun with slightly below normal temperatures was experienced by most of the regions. Precipitation totals from 15 mm to 40 mm resulted mainly from showers and thunderstorms. A heavy thunderstorm dumped 96 mm at Breslau and 51 mm at Preston on August 3. It was quite dry in eastern Ontario with no precipitation reported at Ottawa for the entire week.

Agricultural crops appear to be in excellent shape with fresh fruits and vegetables making their annual appearance on schedule.

QUÉBEC

Below normal temperatures during the week resulted in some record low minimum temperatures. Overnight temperatures dipped below the freezing mark in some localities early in the week. Various amounts of precipitation was recorded across the province. Poste de la Baleine received 53.4 mm of rain in 24 hours on August 8 (58.4 mm/24 hrs is the record).

ATLANTIC PROVINCES

Cool weather conditions continued to prevail over the region as numerous record low minimum temperatures were set during the week. There were reports of frost in northern New Brunswick on August 4-5, mercury plunged to -4° at Nictou, New Brunswick on August 4. Additional moisture received in the week was beneficial to the crop.

CLIMATIC PERSPECTIVES

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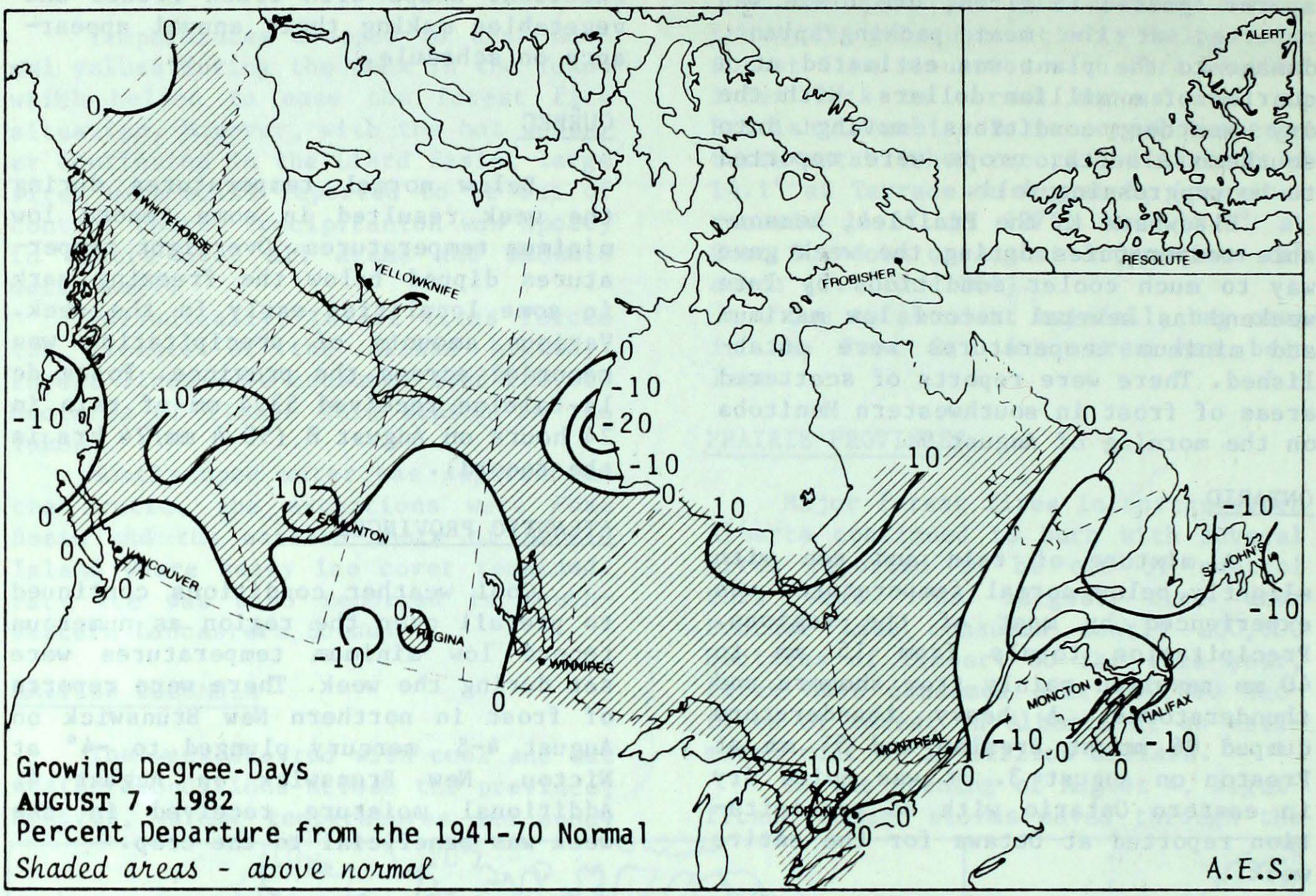
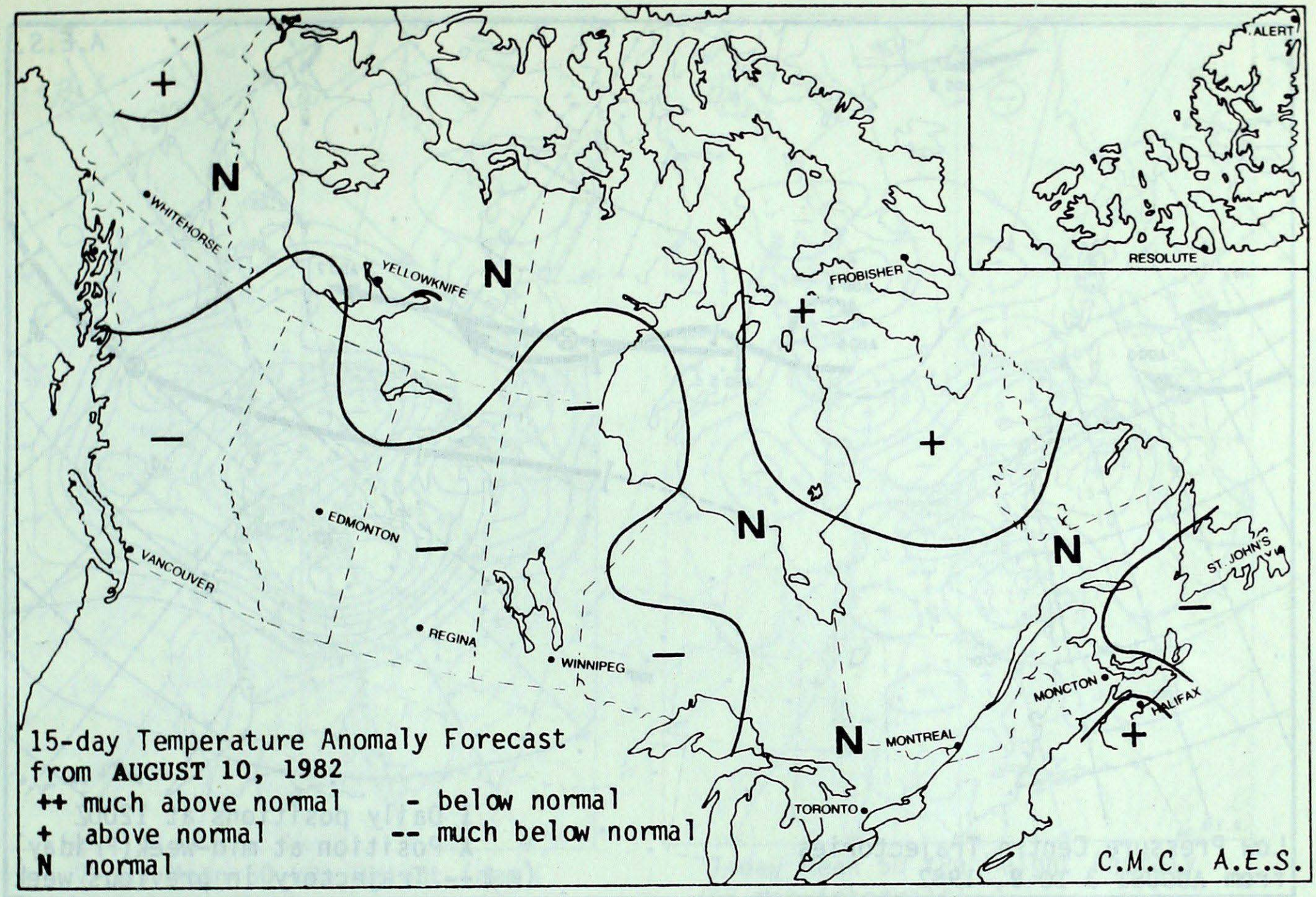
GROWING DEGREE-DAY SUMMARY TO AUGUST 7, 1982

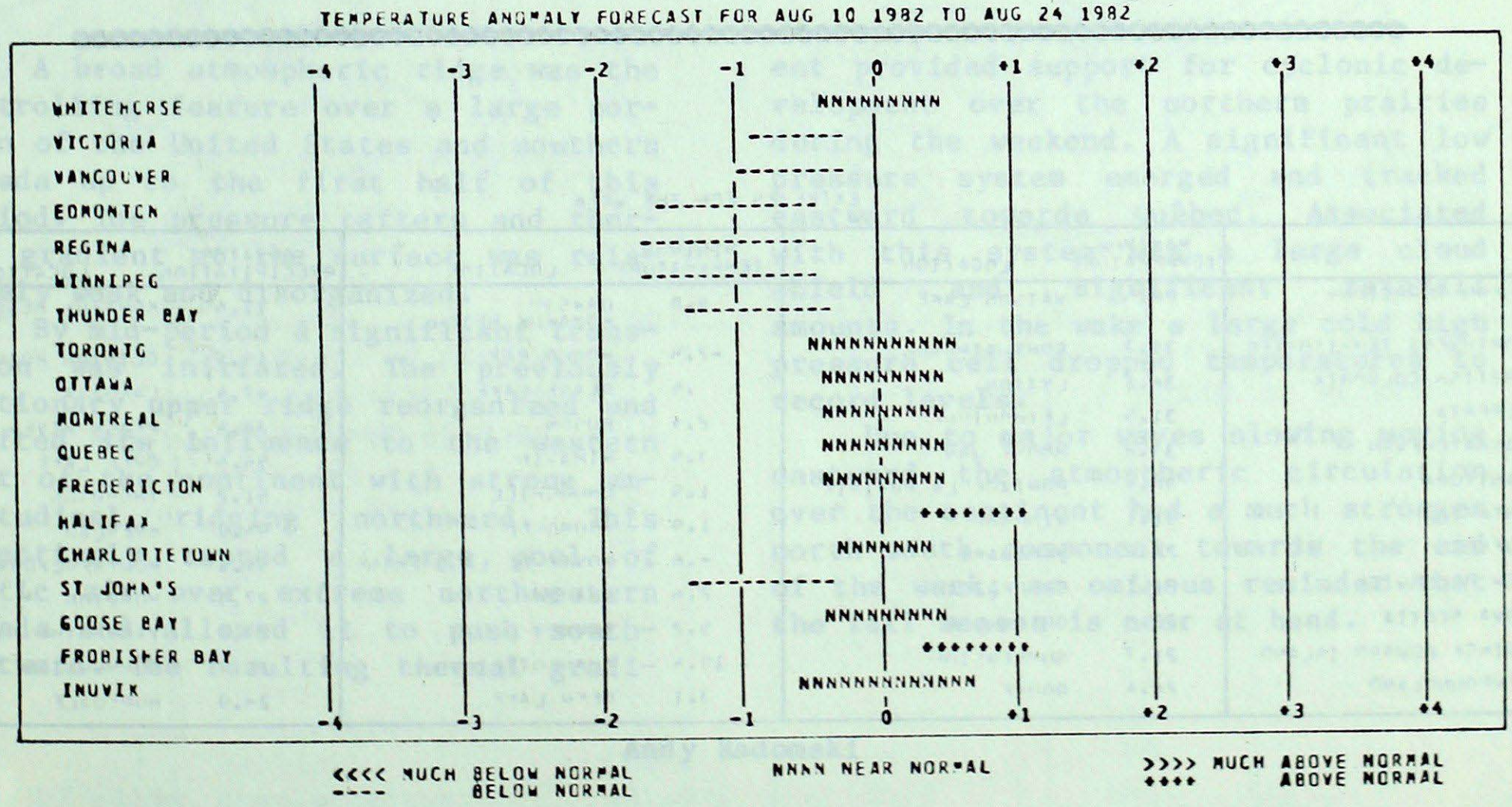


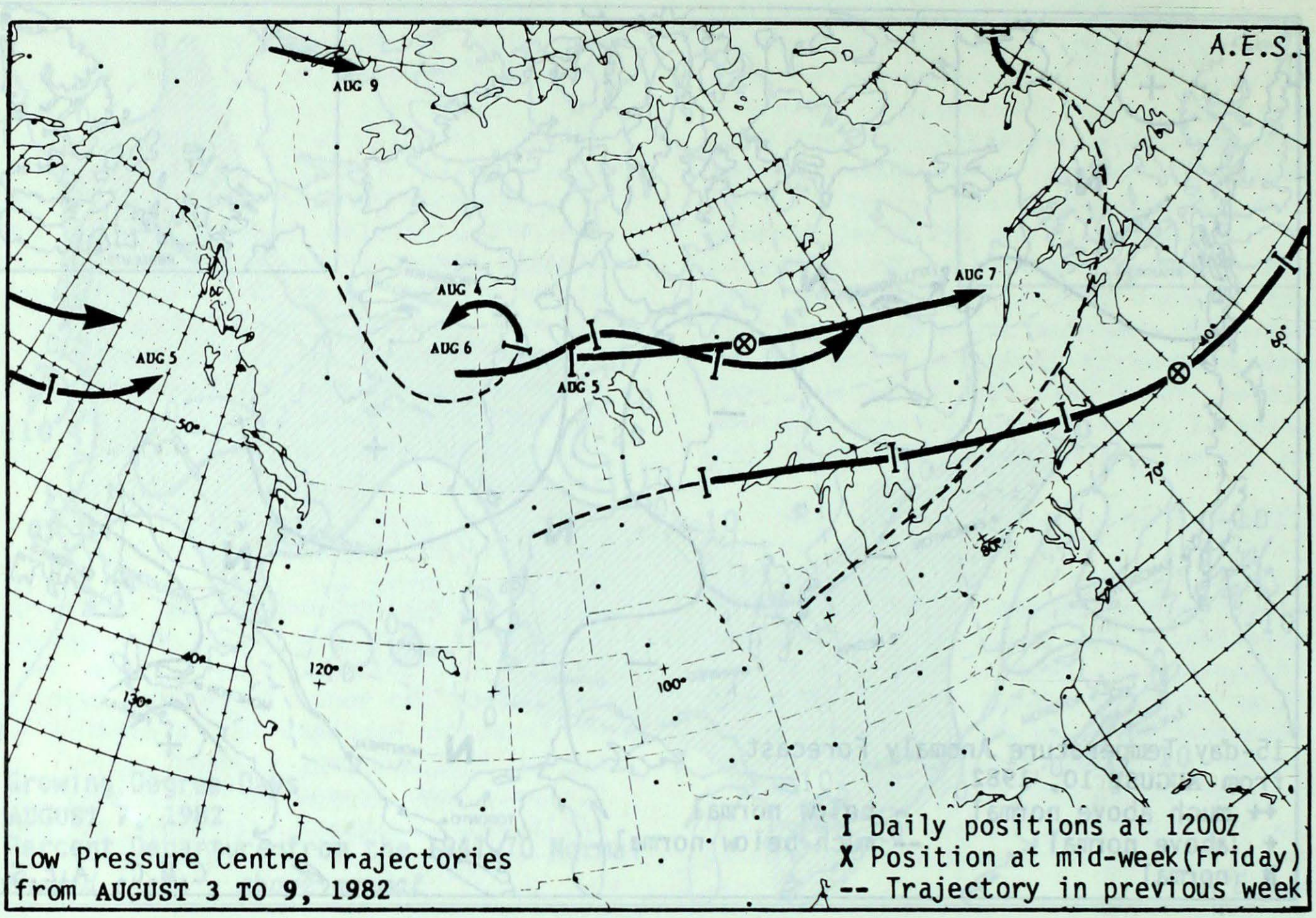
STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Whitehorse	46.0	-13.0	634.0	9.0	101
Penticton	100.0	-7.0	1283.0	-51.0	96
Vancouver	80.0	-11.0	1121.5	-52.5	96
Edmonton	80.0	-3.0	1018.5	132.5	115
Calgary	79.5	-2.5	849.5	10.5	101
Regina	108.5	8.5	1066.5	29.5	103
Saskatoon	97.5	0.5	971.0	-61.0	94
Winnipeg	108.0	2.0	1155.5	48.5	104
Thunder Bay	66.0	-18.0	855.0	-2.0	100
Windsor	125.0	8.0	1560.5	62.5	104
Toronto	104.0	-2.0	1252.0	-30.0	98
Ottawa	94.0	-10.0	1323.0	65.0	105
Montréal	93.5	-18.5	1314.0	18.0	101
Quebéc	76.5	-16.5	1049.5	-10.5	99
Fredericton	74.0	-24.0	1048.0	-11.0	99
Halifax	78.0	-15.0	816.0	-93.0	90
Charlottetown	74.5	-22.5	837.0	-47.0	95
St. John's	60.5	-19.5	480.0	-112.0	81

TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR AUG 10 1982 TO AUG 24 1982



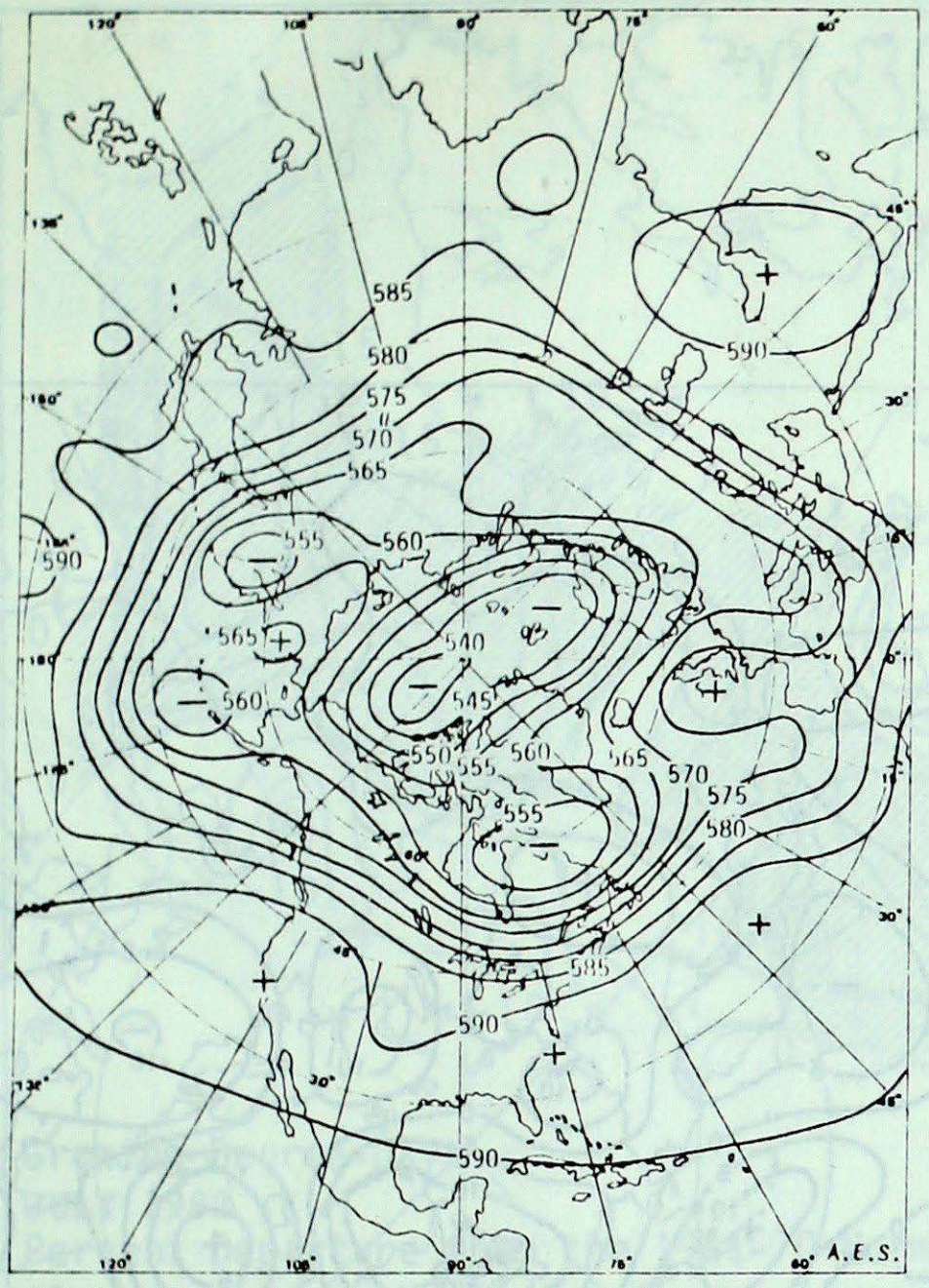


Low Pressure Centre Trajectories
from AUGUST 3 TO 9, 1982

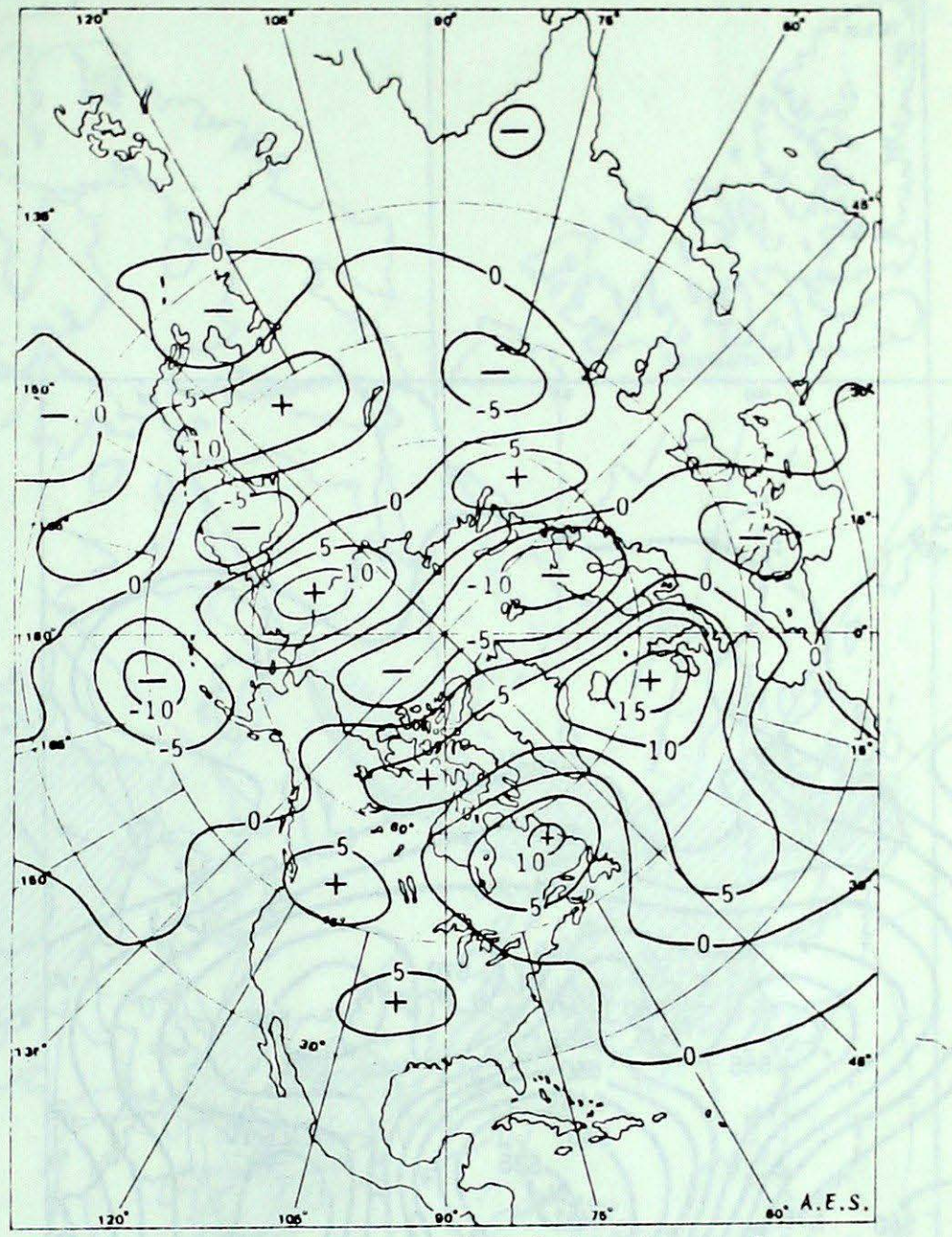
EXTREMES FOR THE WEEK

	MAXIMUM TEMPERATURE	LOCATION	MINIMUM TEMPERATURE	LOCATION	GREATEST PRECIPITATION	LOCATION
YUKON TERRITORY	28.5	WATSON LAKE	0.0	DAWSON KOMAKUK BEACH	11.6	KOMAKUK BEACH
NORTHWEST TERRITORIES	30.3	FORT SIMPSON	-2.5	MOULD BAY	19.4	CLINTON POINT
BRITISH COLUMBIA	36.1	LYTTON	.5	DEASE LAKE	47.4	LANGARA
ALBERTA	31.5	LETHBRIDGE	2.4	EDSON	38.4	PEACE RIVER
SASKATCHEWAN	33.8	MOOSE JAW	3.5	NIPAWIN	56.6	CREE LAKE
MANITOBA	30.4	PORTAGE LA PRAIRIE	1.9	CHURCHILL	51.2	THOMPSON
ONTARIO	31.1	WINDSOR	1.9	MOOSONEE	95.0	BRESLAU
QUEBEC	28.2	MANIWAKI	-.6	POSTE DE LA BALEINE	54.4	MONTREAL/DORVAL
NEW BRUNSWICK	24.1	FREDERICTON	2.6	CHARLO	27.0	MONCTON
NOVA SCOTIA	23.8	GREENWOOD	5.2	SYDNEY	29.0	YARMOUTH
PRINCE EDWARD ISLAND	21.7	SUMMERSIDE	10.4	CHARLOTTETOWN	20.4	SUMMERSIDE
NEWFOUNDLAND	26.4	GOOSE	3.1	DEER LAKE	28.9	HOPEDALE

Atmospheric Circulation



7-day Mean 50 kPa Height (dam)
AUGUST 2 TO 8, 1982



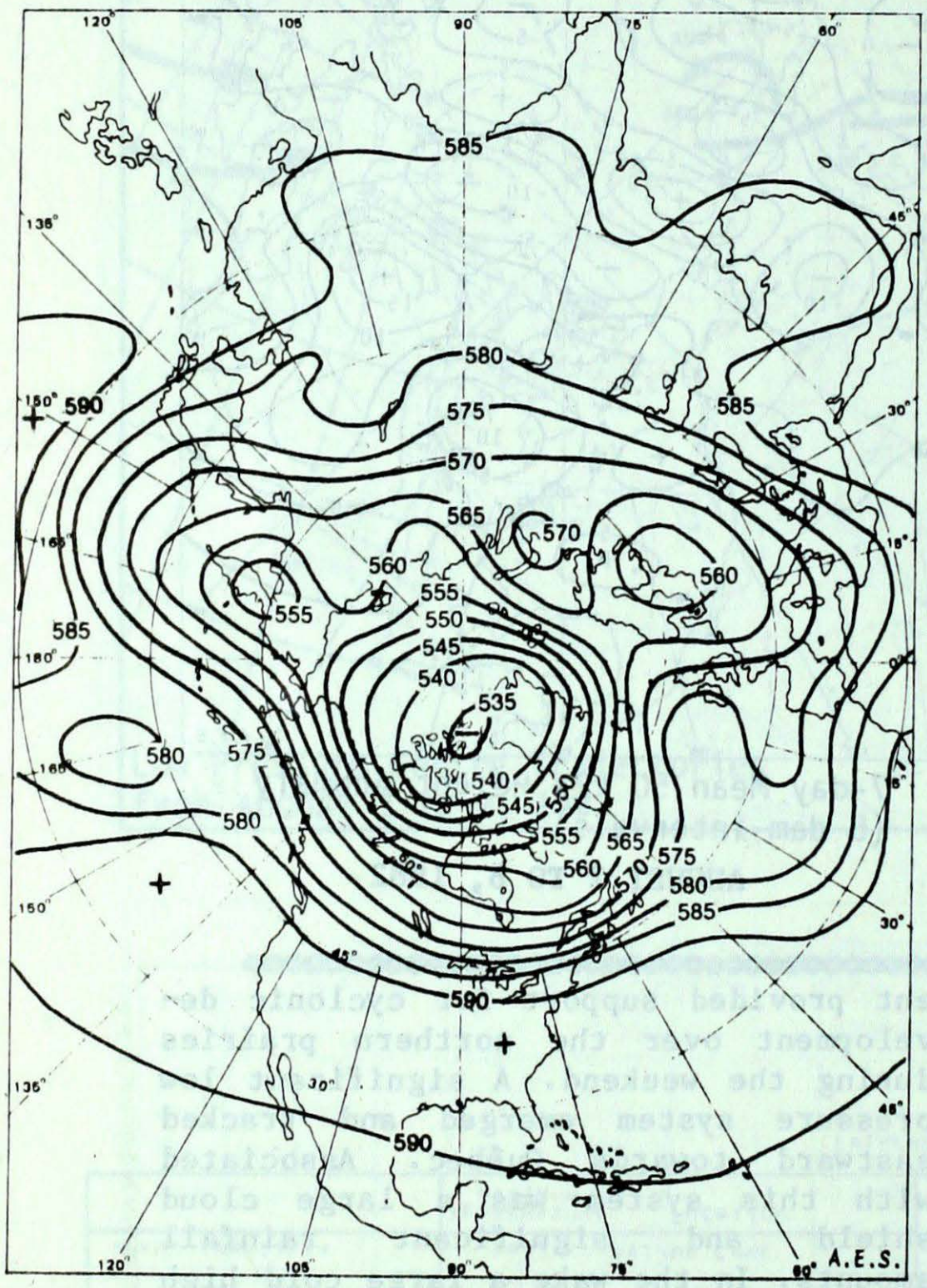
7-day Mean 50 kPa Height Anomaly
(5 dam intervals)
AUGUST 2 TO 8, 1982

A broad atmospheric ridge was the controlling feature over a large portion of the United States and southern Canada up to the first half of this period. The pressure pattern and thermal gradient at the surface was relatively weak and disorganized.

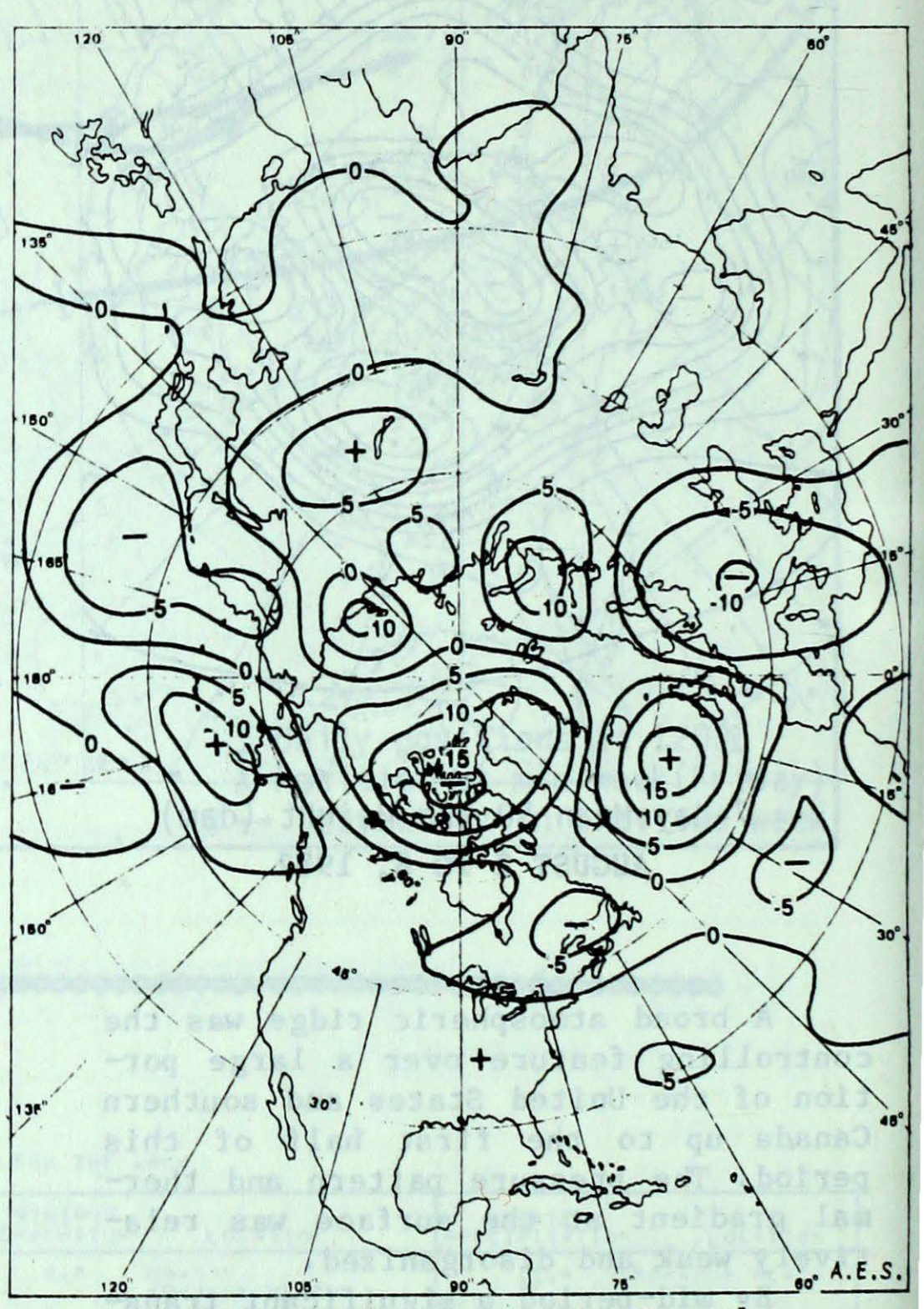
By mid-period a significant transition was initiated. The previously stationary upper ridge reorganized and shifted its influence to the western part of the continent with strong amplitudinal ridging northward. This effectively tapped a large pool of Arctic air over extreme northwestern Canada and allowed it to push southeastward. The resulting thermal gradient provided support for cyclonic development over the northern prairies during the weekend. A significant low pressure system emerged and tracked eastward towards Québec. Associated with this system was a large cloud shield and significant rainfall amounts. In the wake a large cold high pressure cell dropped temperatures to record levels.

Due to major waves slowing moving eastward the atmospheric circulation over the continent had a much stronger north-south component towards the end of the week; an ominous reminder that the fall season is near at hand.

Andy Radomski

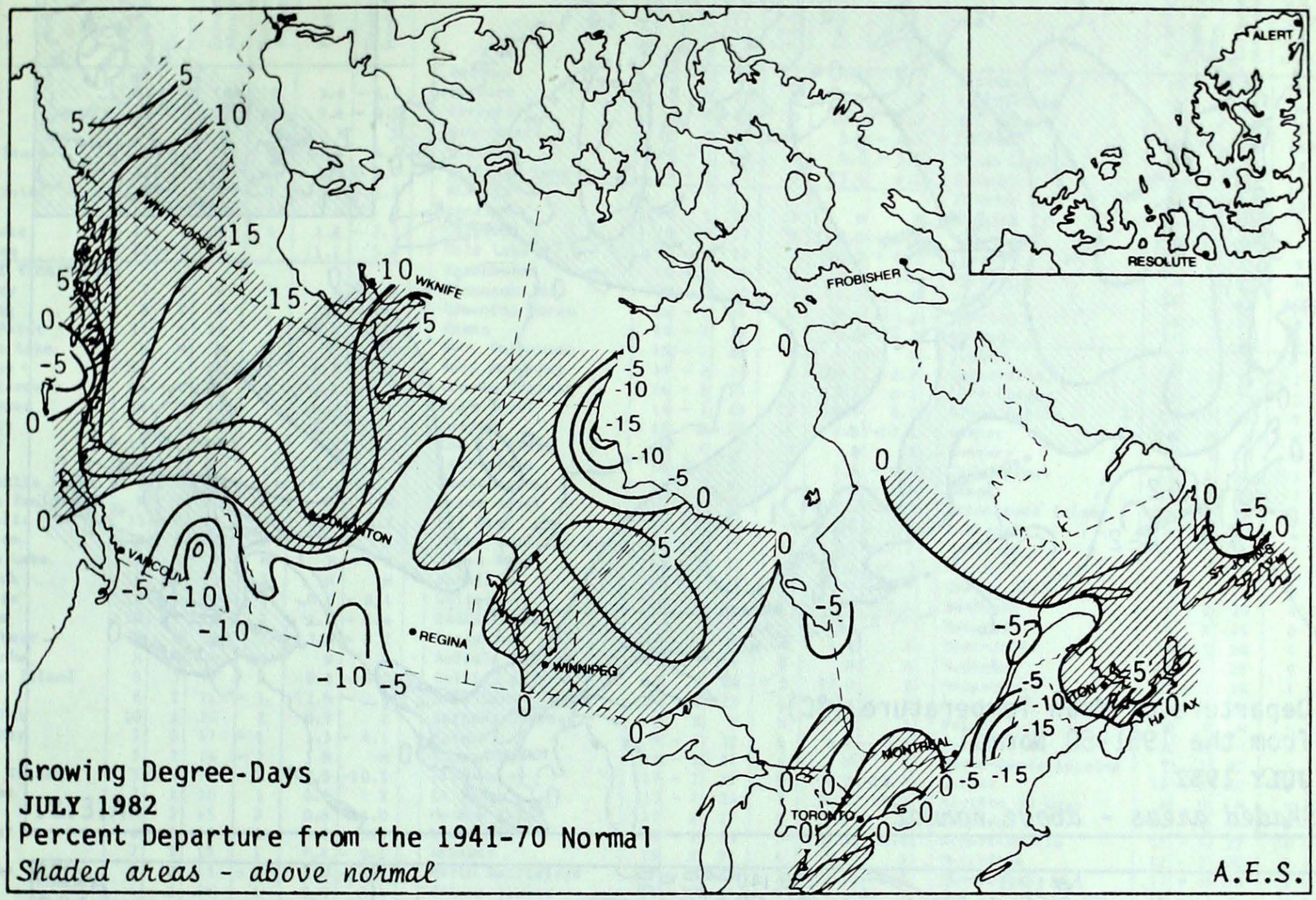


7-day Mean 50 kPa Height (dam)
JULY 26 TO AUGUST 1, 1982



7-day Mean 50 kPa Height Anomaly
(5 dam intervals)
JULY 26 TO AUGUST 1, 1982

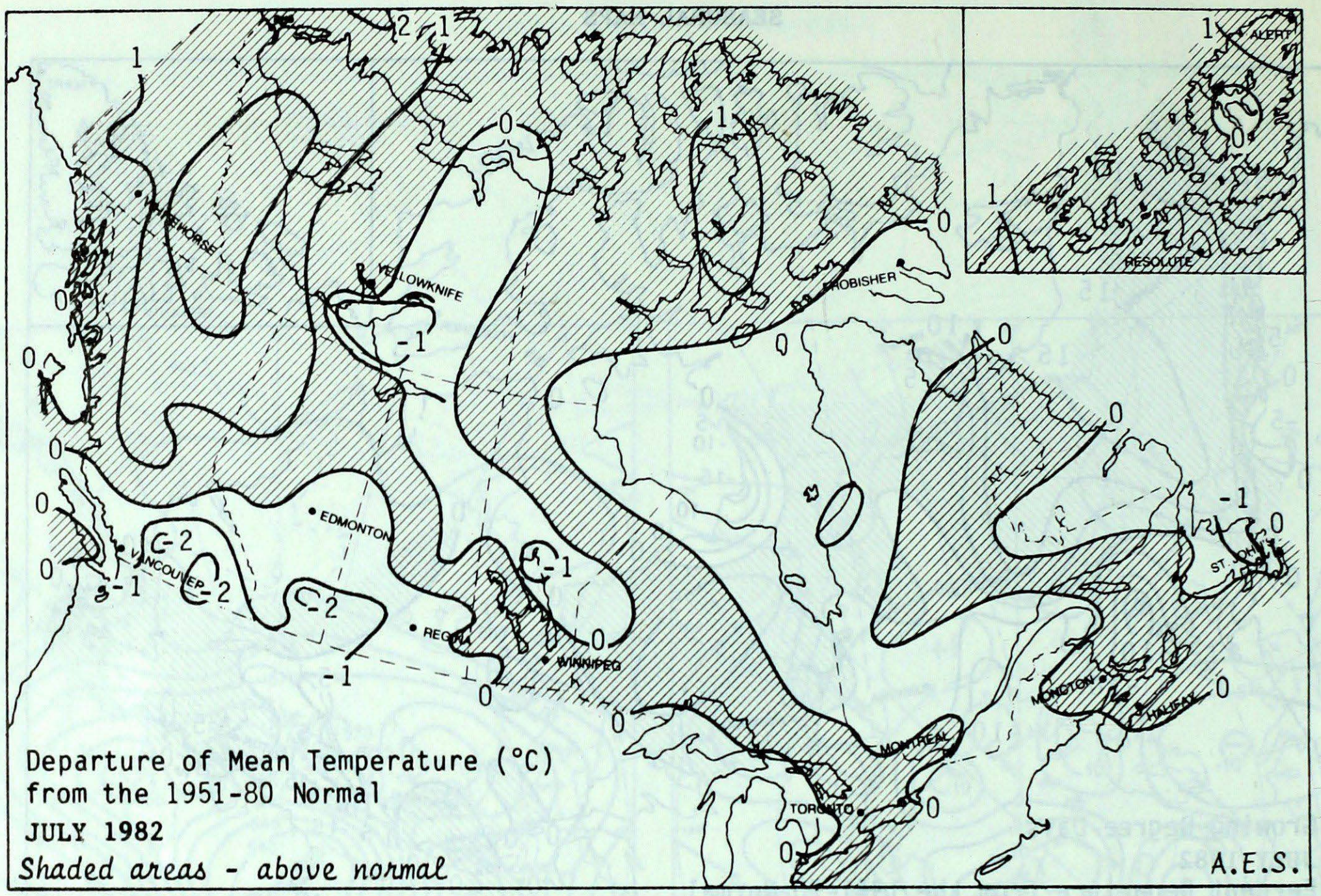
SEASONAL MAPS



GROWING DEGREE-DAY SUMMARY JULY 1982

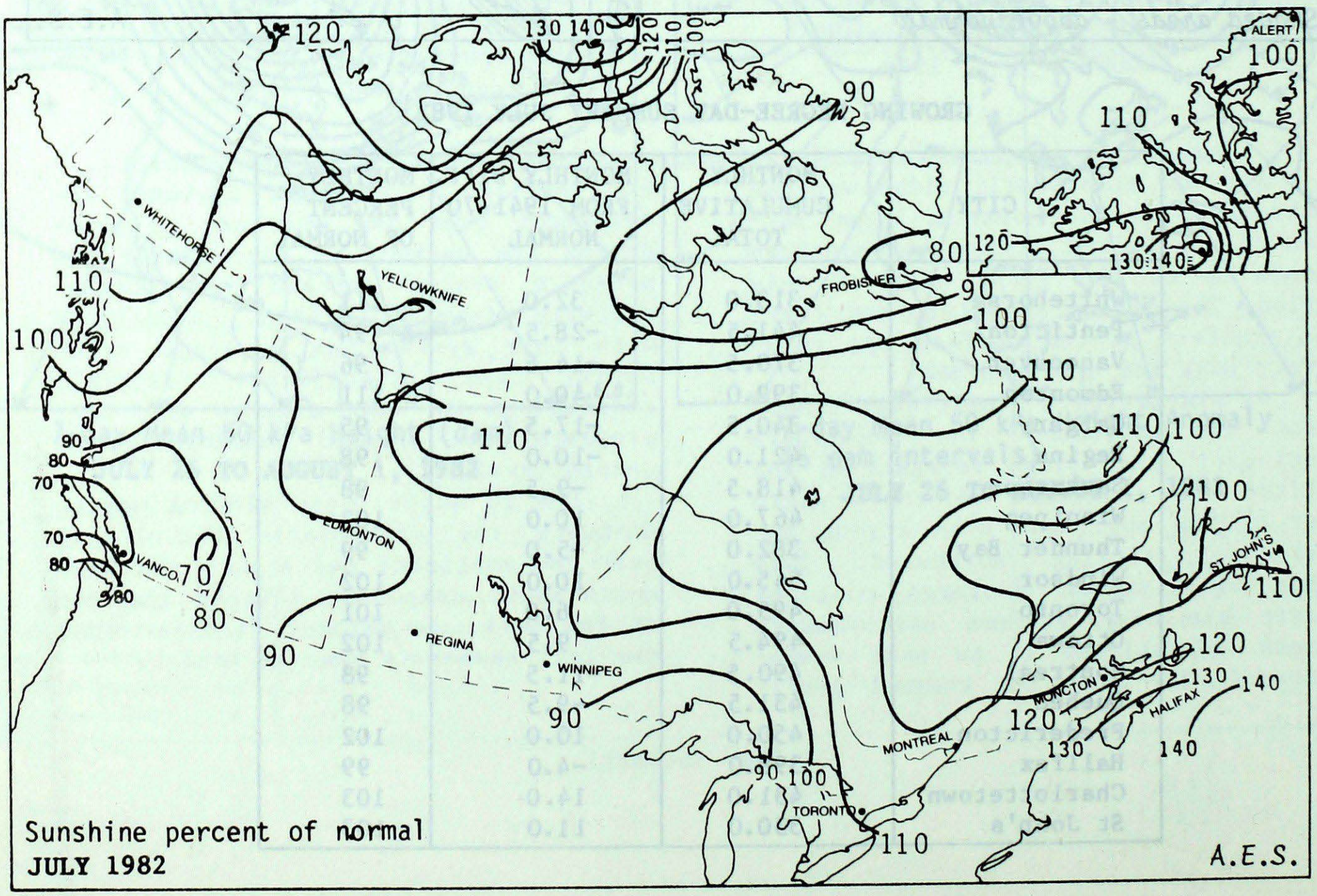
CITY	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	MONTHLY PERCENT OF NORMAL
Whitehorse	313.0	32.0	111
Penticton	441.5	-28.5	94
Vancouver	370.5	-14.5	96
Edmonton	392.0	40.0	111
Calgary	340.5	-17.5	95
Regina	421.0	-10.0	98
Saskatoon	418.5	-9.5	98
Winnipeg	467.0	10.0	102
Thunder Bay	382.0	-5.0	99
Windsor	545.0	10.0	102
Toronto	495.0	6.0	101
Ottawa	494.5	9.5	102
Montreal	490.5	-11.5	98
Quebec	431.5	-9.5	98
Fredericton	450.0	10.0	102
Halifax	398.0	-4.0	99
Charlottetown	431.0	14.0	103
St John's	330.0	11.0	103

SEASONAL MAPS



Departure of Mean Temperature (°C)
from the 1951-80 Normal
JULY 1982
Shaded areas - above normal

A.E.S.



Sunshine percent of normal
JULY 1982

A.E.S.

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. AUGUST 10, 1982

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
sh	11	0	18	2	5.6	- 6.2
n	13	- 2	23	0	9.6	- 2.0
	M	X	M	M	M	X
uk Beach	6	- 1	21	0	11.6	4.6
A	14	0	25	5	6.0	- 3.7
le Point	9	- 1	24	1	5.6	- 2.3
n	M	X	17P	5P	M	X
n Lake	15	0	29	5	1.8	- 7.7
horse	12	- 2	23	2	11.2	3.8
WEST TERRITORIES						
Parry	7	2	14	2	M	M
Young	8	2	19	1	7.6	- 1.8
on Point	11	4	24	3	19.4	10.5
oyto Lake	M	M	M	M	M	M
rmine	11	1	26	1	0.0	- 9.8
Reliance	14	- 1	26	6	0.4	- 4.7
Simpson	16	0	30	5	16.0	2.6
Smith	15	- 1	30	6	2.7	- 5.2
iver	14	- 1	28	7	2.2	- 2.1
k	10	- 2	26	1	10.6	3.7
Franklin Point	6	0	16	1	0.0	-10.1
lson Peninsula	9	1	21	2	M	M
n Wells	15	0	28	7	6.8	- 6.2
Radium	M	X	M	M	M	X
tson Lake	M	X	M	M	M	X
yaktuk	10	0	23	3	M	M
wknife	16	0	25	9	0.0	- 8.1
Lake	10	- 1	20	3	2.1	- 6.4
Harbour	8	0	18	2	3.9	- 8.2
ai Lake	M	M	M	M	M	M
Lind Island	8	3	17	2	0.0	-13.3
Bay	8	2	16	- 1	12.9	2.5
n Inlet	10	X	20	2	0.9	X
erd Bay	7	0	17	- 1	5.3	- 4.1
	5	2	14	- 2	M	M
hton Island	5	0	12	1	0.3	-10.5
Dorset	7	X	16	1	0.0	X
Dyer	8	2	15	2	0.6	-14.0
Hooper	6	2	13	1	3.0	- 3.5
	7	2	19	1	7.4	- 0.1
Lakes	7	2	15	- 1	5.0	-10.2
a	4	- 2	11	1	5.0	3.4
sher Bay	10	2	20	2	0.0	- 9.7
an Point	7	1	16	1	7.2	- 5.7
Beach	6	1	18	2	M	M
aff Bluff	8	1	16	0	0.8	- 6.8
Inlet	6	1	15	- 2	11.8	2.7
Inlet	6	X	13	1	7.2	X
ste	2	- 3	9	- 2	5.8	- 2.4
Bay	9	2	19	4	0.0	- 5.9
dge Bay	8	1	19	2	0.2	- 6.7
Bay	1	- 2	4	- 3	10.1	6.0
Harbour	4	0	14	0	11.3	8.5
SH COLUMBIA						
ford	17	0	33	8	7.0	- 2.7
Bay	14	- 1	22	8	15.4	2.8
rite Point	14	X	19	10	41.9	X
iver	M	X	M	M	M	X
arbour	13	- 1	17	7	23.1	10.9
Lake	14	X	29	3	M	X
cott	12	- 1	16	10	17.5	- 5.1
t James	14	0	20	9	37.3	25.4
n	M	X	M	M	M	X
	17	0	27	11	3.4	- 7.6
ook	19	0	31	8	0.4	- 3.5
Lake	13	0	27	1	17.7	6.0
n Point	M	M	M	M	M	M
a Bay	M	X	19	5P	M	X
elson	16	0	32	7	22.0	9.6
t John	15	- 1	25	7	25.0	11.6
	19	X	35	10	9.9	X
ps	20	0	34	11	7.4	0.2
a	12	- 1	16	7	47.4	27.5
	21	- 3	36	12	0.3	- 0.8
sie	15	X	29	4	M	X
s Island	14	0	19	11	35.6	1.0
b A	18	X	30	11	M	X
ton	20	0	30	8	6.2	1.5
lberni	M	X	M	M	M	X
ardy	13	- 1	20	8	18.8	6.8
George	16	1	30	7	19.7	- 0.2
Rupert	13	0	20	7	28.1	- 9.5
Mountain	M	X	M	M	M	X
	16	0	30	7	23.2	- 0.5
oke	18	- 1	29	10	15.4	9.5
t	13	- 2	18	9	31.7	22.5

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
Smithers	15	0	31	3	7.8	- 3.2
Stewart	15	X	29	8	M	X
Terrace	16	0	29	9	10.4	1.9
Vancouver	17	0	25	12	2.8	- 4.3
Victoria	16	- 1	29	9	0.6	- 3.4
Williams Lake	15	- 1	28	6	23.4	8.1
ALBERTA						
Banff	16	1	28	5	M	M
Calgary	16	0	27	5	0.0	-12.6
Cold Lake	15	- 1	23	7	18.8	- 0.2
Coronation	15	- 2	25	6	9.2	- 3.6
Edmonton Intl	15	- 2	24	4	1.7	-19.0
Edmonton Namao	16	- 2	24	6	1.4	-23.2
Edson	14	- 2	24	2	0.0	-26.2
Fort Chipewyan	15	- 1	29	9	M	M
Fort McMurray	14	- 2	27	6	20.7	2.8
Grande Prairie	14	- 2	25	4	19.7	6.2
High Level	14	- 1	28	5	16.8	8.0
Jasper	15	0	28	4	2.6	-12.1
Lac La Biche	M	X	M	M	M	X
Lethbridge	18	- 1	32	7	2.2	- 6.6
Medicine Hat	19	- 2	31	8	4.2	- 5.4
Peace River	15	- 1	26	6	38.4	26.9
Red Deer	15	- 1	26	4	7.4	- 7.2
Rocky Mountain House	15	0	25	4	3.4	-17.2
Slave Lake	15	- 2	25	6	34.2	20.3
Vermilion	15	- 1	24	6	0.0	-18.7
Whitecourt	14	- 1	23	3	7.0	-18.4
SASKATCHEWAN						
Broadview	18	X	31	4	4.2	X
Buffalo Narrows	15	- 2	24	8	M	M
Collins Bay	12	X	24	5	17.0	X
Cree Lake	14	X	23	6	56.6	X
Eastend Cypress	M	X	M	M	M	X
Estevan	19	- 1	32	6	6.4	- 5.6
Hudson Bay	16	- 2	27	4	M	M
Kindersley	17	- 2	29	9	0.7	-12.7
La Ronge	15	- 2	24	7	36.1	19.2
Meadow Lake	15	X	27	5	11.6	X
Moose Jaw	19	- 1	34	5	0.3	- 9.8
Nipawin	16	X	27	4	1.0	X
North Battleford	17	- 2	28	7	12.2	- 0.3
Prince Albert	17	- 1	30	7	2.2	-11.7
Regina	18	- 1	32	7	1.8	- 9.5
Rockglen	M	X	M	M	M	X
Saskatoon	17	- 1	31	9	2.8	-13.2
Swift Current	17	- 2	30	6	M	M
Uranium City	14	- 2	26	7	1.4	- 6.8
Wynyard	18	X	32	5	2.0	X
Yorkton	17	- 1	28	5	8.2	- 3.6
MANITOBA						
Bissett	18	X	30	6	12.1	X
Brandon	18	- 1	30	6	13.1	3.3
Churchill	9	- 4	19	2	13.1	- 2.1
Dauphin	18	- 1	30	5	16.6	0.8
Gillam	12	X	23	3	13.6	X
Gimli	19	0	28	8	5.8	- 7.9
Grand Rapids	M	X	M	M	M	X
Island Lake	15	X	25	6	M	X
Lynn Lake	13	- 3	23	4	49.3	36.2
Norway House	16	X	27	7	40.3	X
Pilot Mound	19	0	30	8	12.8	0.0
Portage	19	0	30	9	5.3	-11.5
The Pas	17	- 1	28	4	4.0	- 5.3
Thompson	13	- 2	25	4	51.2	34.1
Winnipeg	19	- 1	29	7	7.6	- 4.4
ONTARIO						
Armstrong	15	- 1	26	6	M	M
Atikokan	17	1	28	8	16.0	- 5.4
Barrie	M	X	M	M	M	X
Big Trout Lake	14	- 3	22	4	51.8	40.7
Britt	M	X	M	M	M	X
Caribou Island	M	X	M	M	M	X
Earlton	16	- 1	28	6	33.2	14.9
Geraldton	16	0	26	6	21.4	8.1
Gore Bay	18	- 2	25	11	26.8	14.9
Kapuskasing	15	- 1	27	8	38.2	19.9
Kenora	19	0	28	9	4.5	-17.0
Kingston	19	- 1	26	10	0.0	-15.1
Lansdowne	15	- 2	25	6	43.0	27.1
London	22	1	29	15	14.3	- 4.6
Moosonee	13	- 2	23	2	M	M
Mount Forest	20	2	28	13	14.8	- 4.4
Muskoka	18	0	28	6	M	M
Nagagami	M	X	M	M	M	X
North Bay	17	- 1	25	9	2.2	-14.9
Ottawa	20	0	29	9	2.0	-12.5

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
Petawawa	18	X	30	4	14.7	X
Pickle Lake	15	- 2	27	6	47.2	31.0
Red Lake	17	- 1	28	4	7.1	- 3.4
Simcoe	M	M	28P	15P	M	M
Sioux Lookout	17	- 1	29	8	38.8	22.2
Sudbury	18	- 1	27	10	3.2	-17.3
Thunder Bay	15	- 2	23	10	36.4	14.5
Timmins	16	- 1	27	7	22.0	3.4
Toronto	20	- 1	28	14	33.0	16.1
Trenton	19	- 2	27	9	0.0	-14.3
Upsala	M	X	M	M	M	X
Wawa	16	X	23	10	22.4	X
Wiarton	18	- 1	26	11	13.6	- 4.7
Windsor	23	1	31	16	6.0	-12.9
QUEBEC						
Bagotville	15	- 2	24	2	6.6	-15.7
Baie Comeau	12	- 4	18	2	14.8	- 3.5
Blanc Sablon	11	- 1	16	5	0.8	-23.9
Border	M	M	M	M	M	M
Chevery	M	X	M	M	M	X
Chibougamau	14	X	24	3	24.6	X
Gaspé	12	X	20	3	15.1	X
Grindstone Island	14	- 3	18	10	7.1	- 4.8
Inukjuak	9	0	17	4	0.8	-12.8
Kuujjuaq	10	- 1	19	3	13.0	- 1.4
Lac Eon	M	X	M	M	M	X
Grande Riviere	12	X	25	0	21.7	X
Maniwaki	16	- 2	28	4	9.4	-12.8
Matagami	14	X	25	0	M	X
Mont-Joli	12	- 5	20	4	9.0	- 4.4
Montréal	20	- 1	28	9	54.4	35.9
Natashquan	12	- 2	20	1	0.4	-13.6
Nitchequon	12	- 1	20	3	14.2	-10.4
Parent	M	X	M	M	M	X
Port Menier	M	M	M	M	M	M
Poste-de-la-Baleine	9	- 1	23	- 1	53.4	34.1
Québec	17	- 2	25	8	35.4	17.4
Rivière du Loup	M	M	M	M	M	M
Roberval	15	- 2	24	4	16.2	- 4.2
Schefferville	11	- 1	22	4	0.4	-22.0
Sept-Iles	12	- 3	20	3	8.2	-15.2
Sherbrooke	17	- 1	28	5	17.9	- 8.3
Ste Agathe des Monts	16	- 1	25	4	17.0	- 9.9
Val D'Or	15	- 1	26	2	11.2	-13.5
NEW BRUNSWICK						
Charlo	13	- 4	21	3	25.1	4.0
Chatham	15	- 5	23	5	18.6	3.2
Fredericton	16	- 3	24	7	14.0	- 3.3
Moncton	15	- 4	22	8	27.0	14.8
Saint John	15	- 2	22	7	19.4	- 2.9
St Stephen	M	X	M	M	M	X
NOVA SCOTIA						
Amherst	M	X	M	M	M	X
Eddy Point	15	X	21	10	M	X
Greenwood	17	- 3	24	9	12.9	- 3.4
Sable Island	16	- 1	21	10	0.8	-34.7
Shearwater	16	- 2	21	12	17.0	- 1.5
Shelburne	15	X	21	6	15.0	X
Sydney	14	- 5	22	5	9.8	-13.3
Truro	M	M	22P	10P	M	M
Yarmouth	16	- 1	22	9	29.0	10.7
PRINCE EDWARD ISLAND						
Charlottetown	15	- 4	20	10	17.9	4.7
East Point	M	X	M	M	M	X
Summerside	15	- 4	22	11	20.4	7.7
NEWFOUNDLAND						
Argentia	13	X	18	8	4.8	X
Badger	M	X	M	M	M	X
Bonavista	14	- 2	21	7	1.4	-18.2
Burgeo	13	- 3	17	7	1.0	-30.2
Cape Race	M	X	M	M	M	X
Comfort Cove	13	- 3	20	6	5.2	-12.0
Daniel's Harbour	13	- 2	18	6	0.4	-25.9
Deer Lake	13	- 4	23	3	3.6	-16.8
Gander	14	- 3	21	7	2.2	-26.0
Port aux Basques	13	- 3	19	7	0.4	-19.1
St Albans	13	- 4	21	5	M	M
St Anthony	13	X	20	6	3.2	X
St John's	12	- 4	19	6	7.2	-22.9
St Lawrence	12	- 2	20	6	13.8	-21.8
Stephenville	14	- 3	20	7	12.4	- 4.9
Battle Harbour	12	1	16	7	6.6	-11.7
Cartwright	11	- 2	23	4	8.6	-10.0
Churchill Falls	12	- 1	24	5	8.2	-10.7
Goose	14	- 2	26	3	7.5	-10.9
Hopedale	10	- 2	18	4	28.9	9.8
Wabush Lake	11	- 2	22	3	6.0	-19.8

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

SEASONAL MAPS