

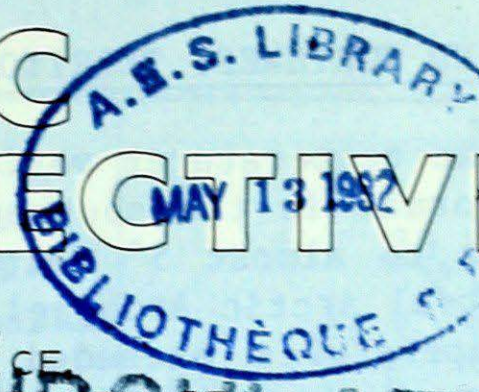


Environment Canada / Environnement Canada

Atmospheric Environment / Environnement atmosphérique

**A WEEKLY REVIEW OF CANADIAN CLIMATE**

**CLIMATIC PERSPECTIVES**



**NON-CIRCULATING**

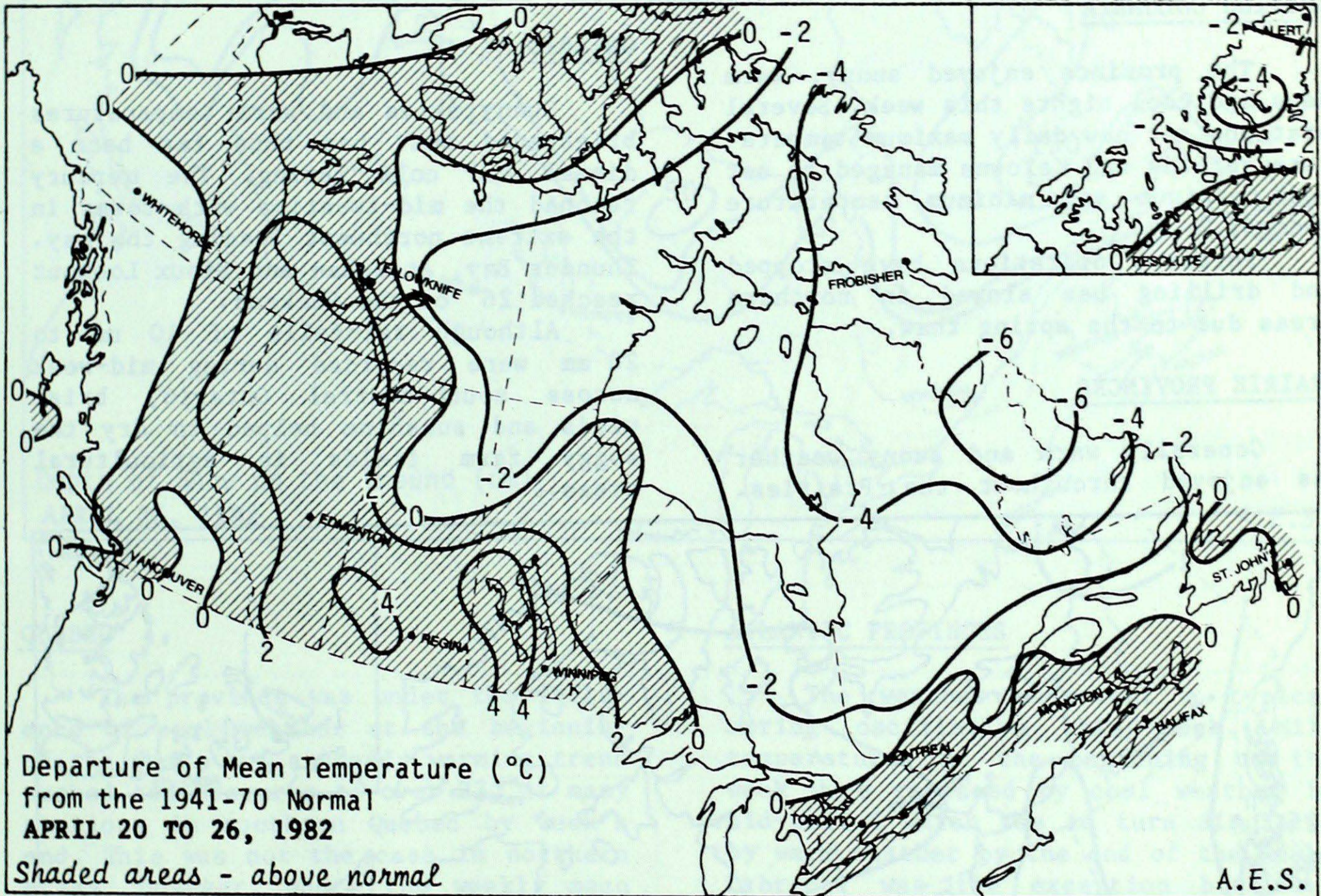
**Canada**

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

APRIL 30, 1982

(Aussi disponible en français)

VOL.4 NO.16



**WEATHER HIGHLIGHTS FOR THE PERIOD - APRIL 20 TO 26, 1982**

**Canada enjoys warm spring weather**

Most of the country enjoyed warm, sunny weather this week. Record high temperature records were set from British Columbia to Québec.

The warm weather was helping to dry farm fields in agricultural areas although delays in snowmelt in the Prairies will delay some field work.

The Saint John River Valley was at a critical point with respect to spring flooding this week, but so far only a few fields have been flooded.

The mercury varied from 29° at Winnipeg, Manitoba to -38° at Eureka, N.W.T. Timmins, Ontario recorded a weekly precipitation total of 34.8 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

Mean temperatures varied from 3.5° above normal in the southern Mackenzie District to almost 5° below normal in the central Arctic Archipelago. Maximum temperatures exceeded 15° in the southern Mackenzie District on the 26th.

The southern and central Yukon are beginning to show snow free areas.

Some daily record temperatures were set in Alberta on the 21st and 22nd and in Saskatchewan and Manitoba on the 23rd and 24th. The mercury reached 29° at Winnipeg on April 24th breaking the old record of 28° set in 1891.

Good drying conditions have allowed some field work to start, but due to delays in snowmelt field work in many areas will be delayed.

BRITISH COLUMBIA

The province enjoyed sunny, warm days and cool nights this week. Several stations set new daily maximum temperature records and Kelowna managed to set both maximum and minimum temperature records.

Forestry operations have stopped and drilling has slowed in northern areas due to the spring thaw.

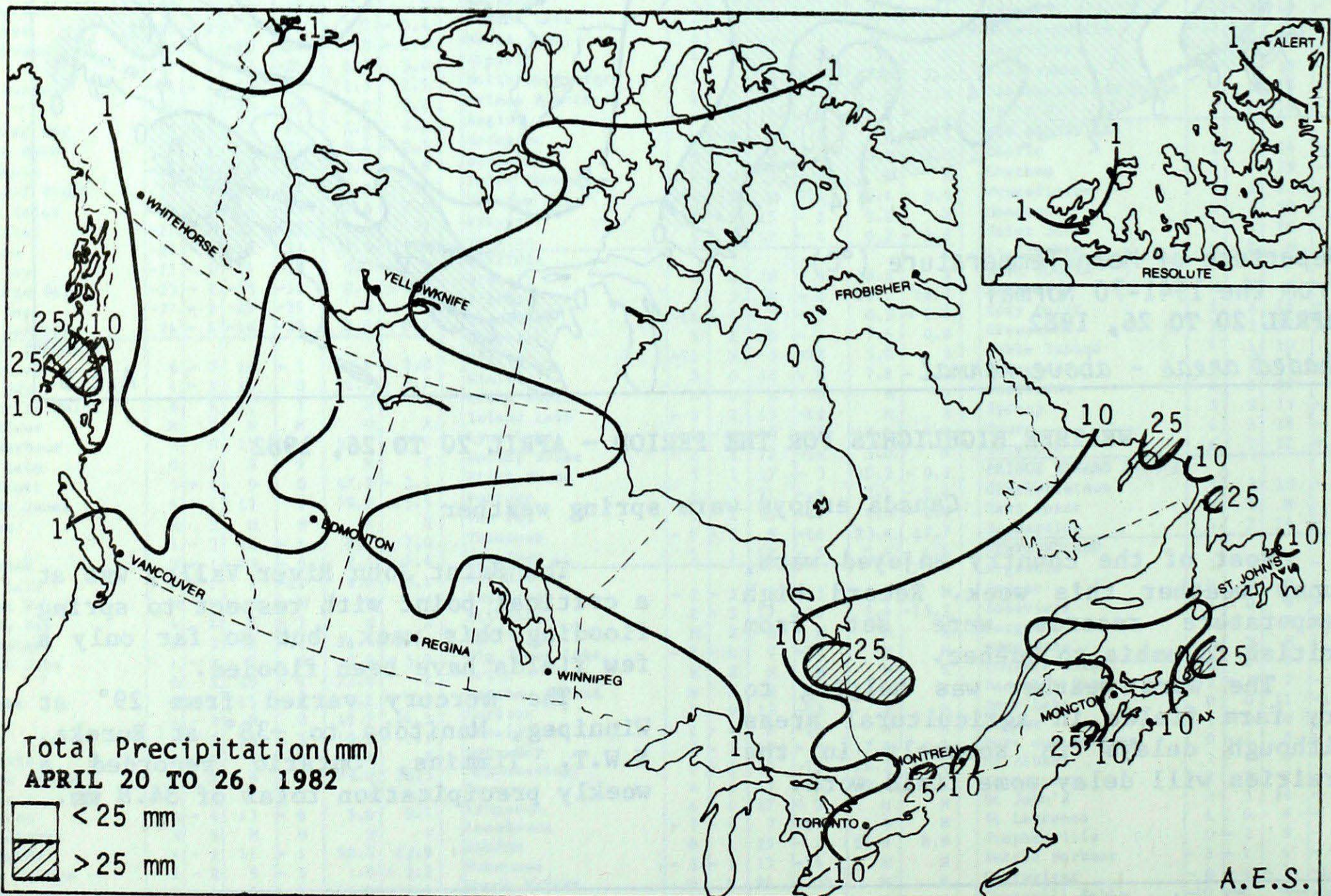
ONTARIO

Sunny skies and warm temperatures brightened what has thus far been a dismal and cold spring. The mercury reached the mid-twenties with towns in the extreme northwest leading the way. Thunder Bay, Atikokan and Sioux Lookout reached 26° on the weekend.

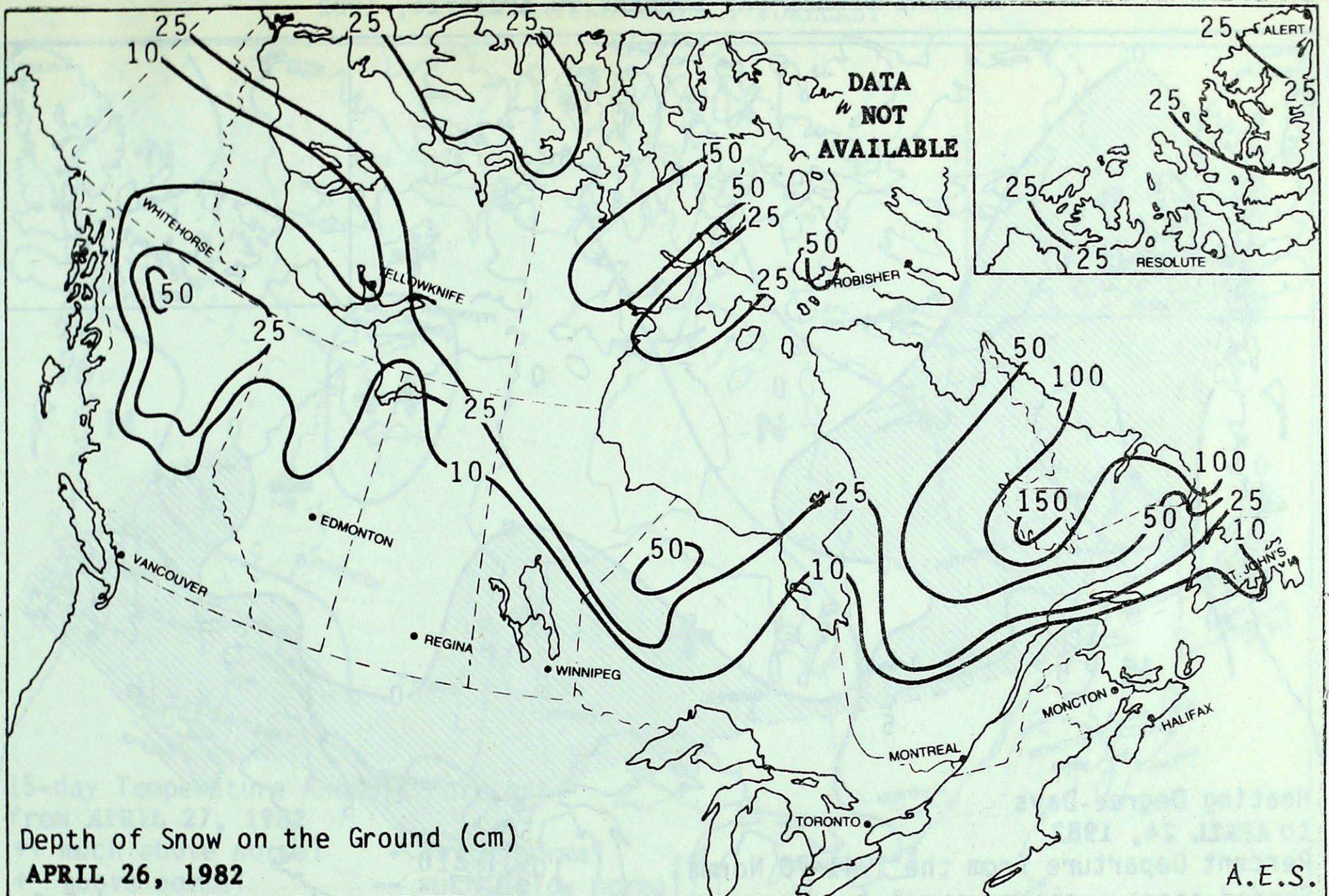
Although rainfalls of 10 mm to 20 mm were recorded during mid-week across south-central Ontario, brisk winds and sunshine helped to dry the soggy farm fields in agricultural areas.

PRAIRIE PROVINCES

Generally warm and sunny weather was enjoyed throughout the Prairies.







### QUEBEC

The province was under the influence of cool weather at the beginning of the week, but a steady warming trend pushed temperatures to over  $23^{\circ}$  at many stations in southern Quebec by week's end. This was not the case in northern areas, however, where the weekly mean temperature was more than  $6^{\circ}$  below normal.

Precipitation was close to normal throughout most of the province and most stations reported less than 30 mm.

### ATLANTIC PROVINCES

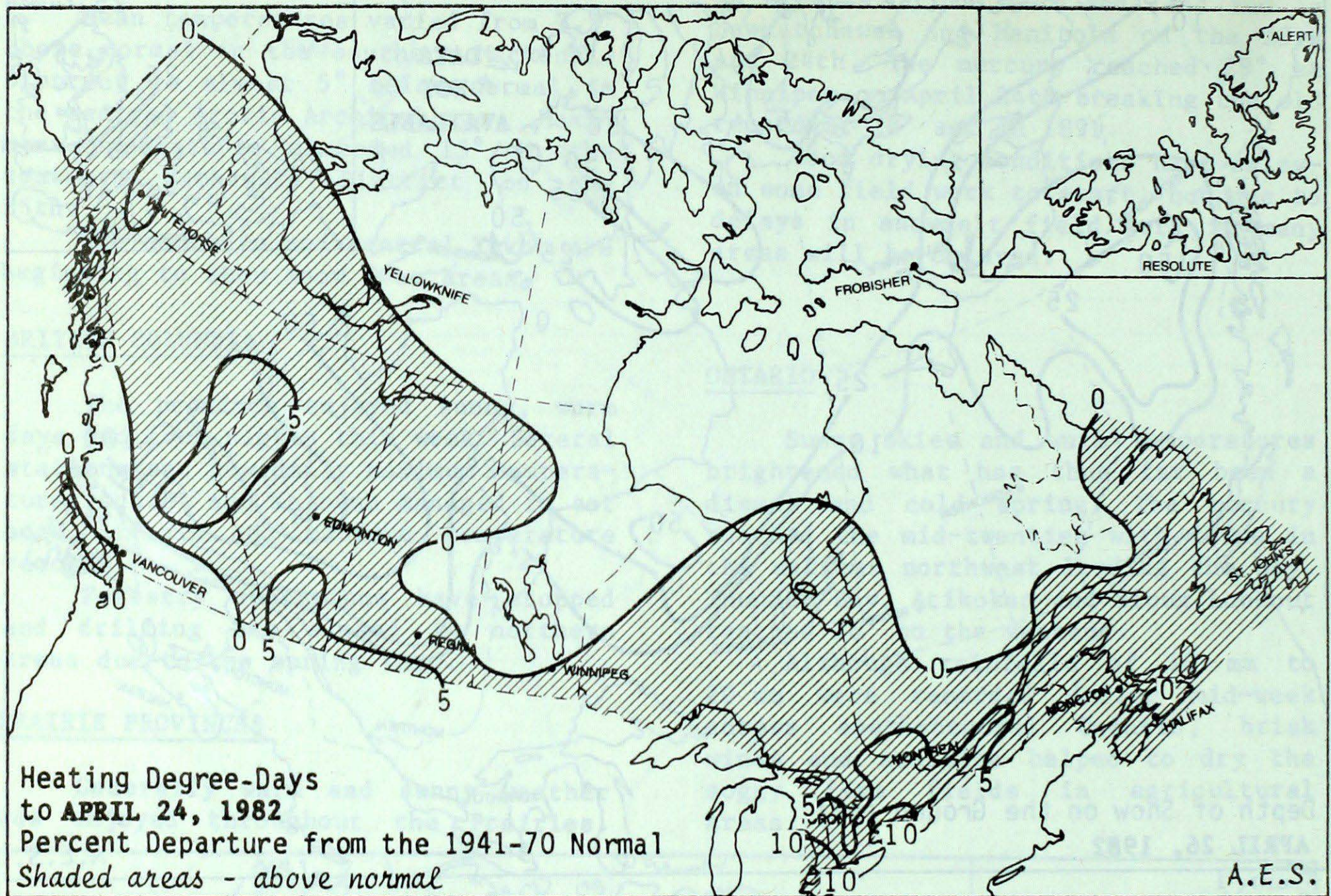
The weather underwent a typical spring oscillation this week. Mild temperatures at the beginning of the week were replaced by cool weather by mid-period which was in turn displaced by warm weather by the end of the week. Labrador was the exception but even there warmer weather arrived by week's end.

The Saint John River Valley is now at a critical point with respect to spring flooding. The river is expected to crest 7 m above normal and was 6 m above normal on the 26th. So far only a few fields have been flooded.





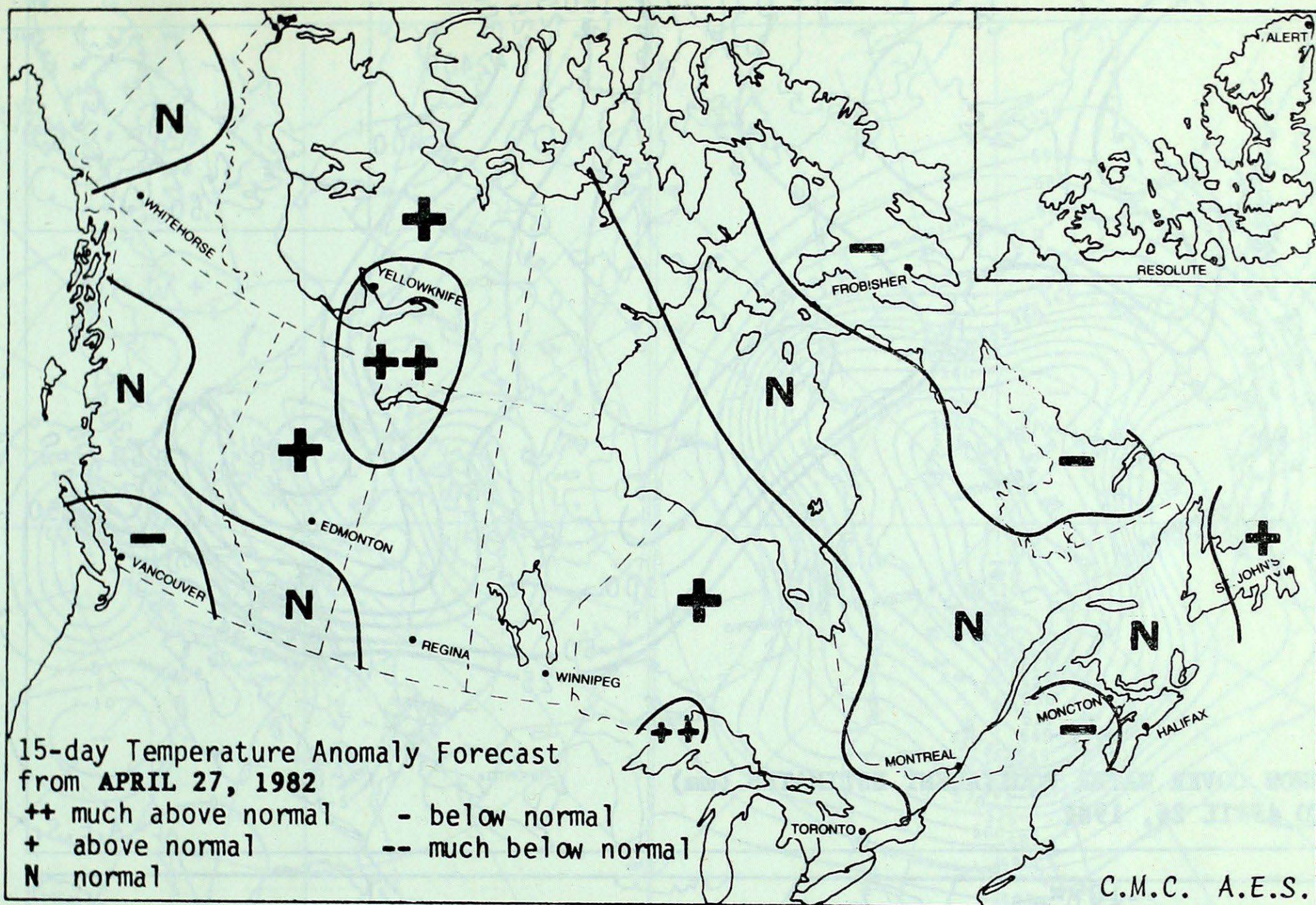
## HEATING DEGREE-DAY SUMMARY TO APRIL 24, 1982



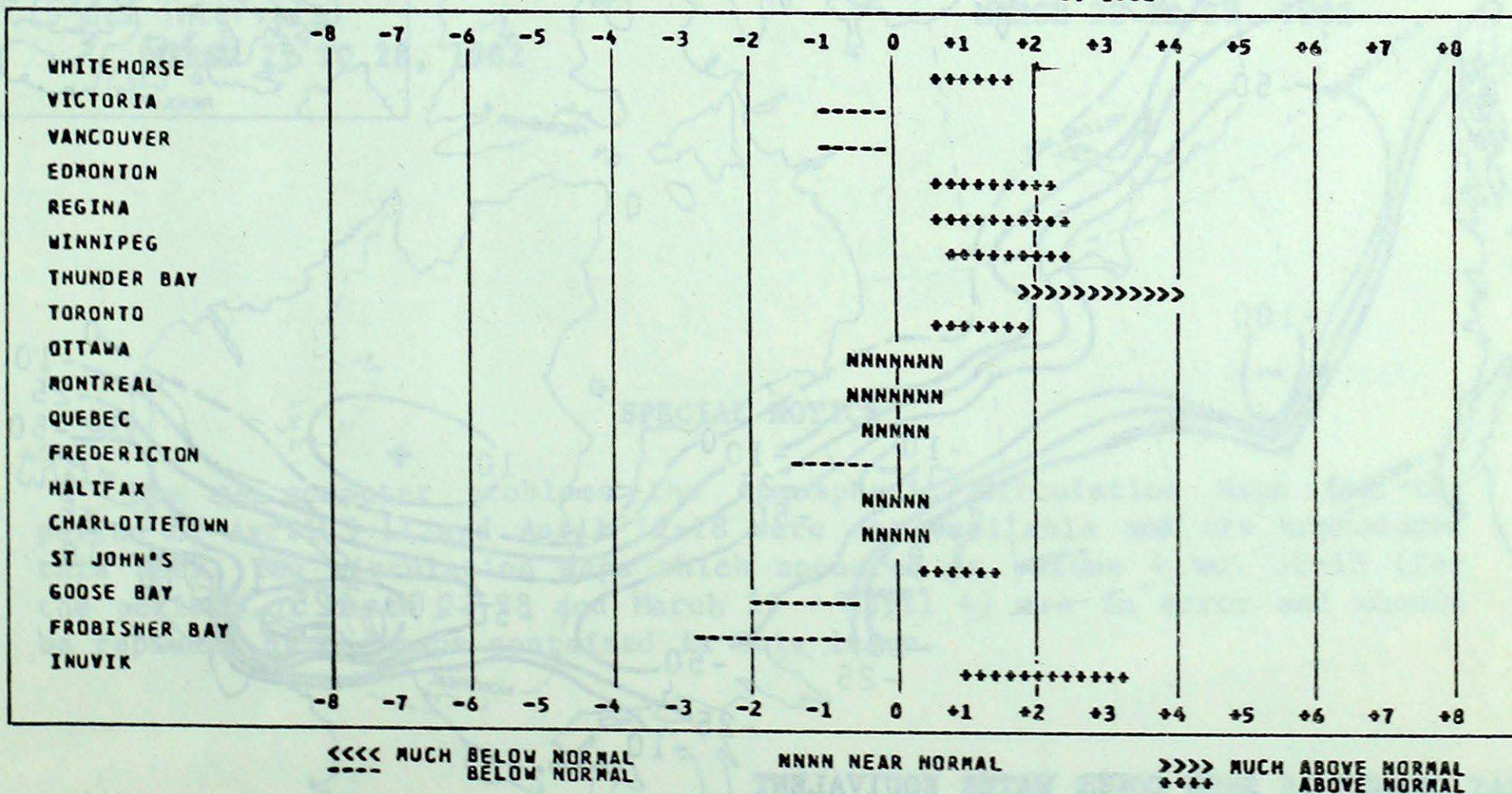
STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	1022.0	9.0	10578.0	-314.0	97
Inuvik	800.5	-0.5	8954.0	-227.0	98
Whitehorse	507.5	53.5	6754.5	473.5	108
Vancouver	254.0	30.0	2700.0	0.0	100
Edmonton Mun	440.5	82.5	5270.5	75.5	101
Calgary	442.5	75.5	5100.5	246.5	105
Regina	452.5	75.5	5731.5	206.5	104
Winnipeg	401.0	22.0	5494.5	-20.5	100
Thunder Bay	433.5	38.5	5412.5	172.5	103
Windsor	316.0	65.0	3733.5	357.5	111
Toronto	352.0	58.0	4155.5	362.5	110
Ottawa	381.0	67.0	4606.0	215.0	105
Montreal	382.0	70.0	4544.0	336.0	108
Quebec	446.0	73.0	4983.5	279.5	106
Saint John, N.B.	400.0	31.0	4422.5	150.5	104
Halifax	359.0	14.0	3749.5	111.5	103
Charlottetown	389.5	3.5	4188.0	67.0	102
St. John's, Nfld.	414.5	-0.5	4154.5	58.5	101



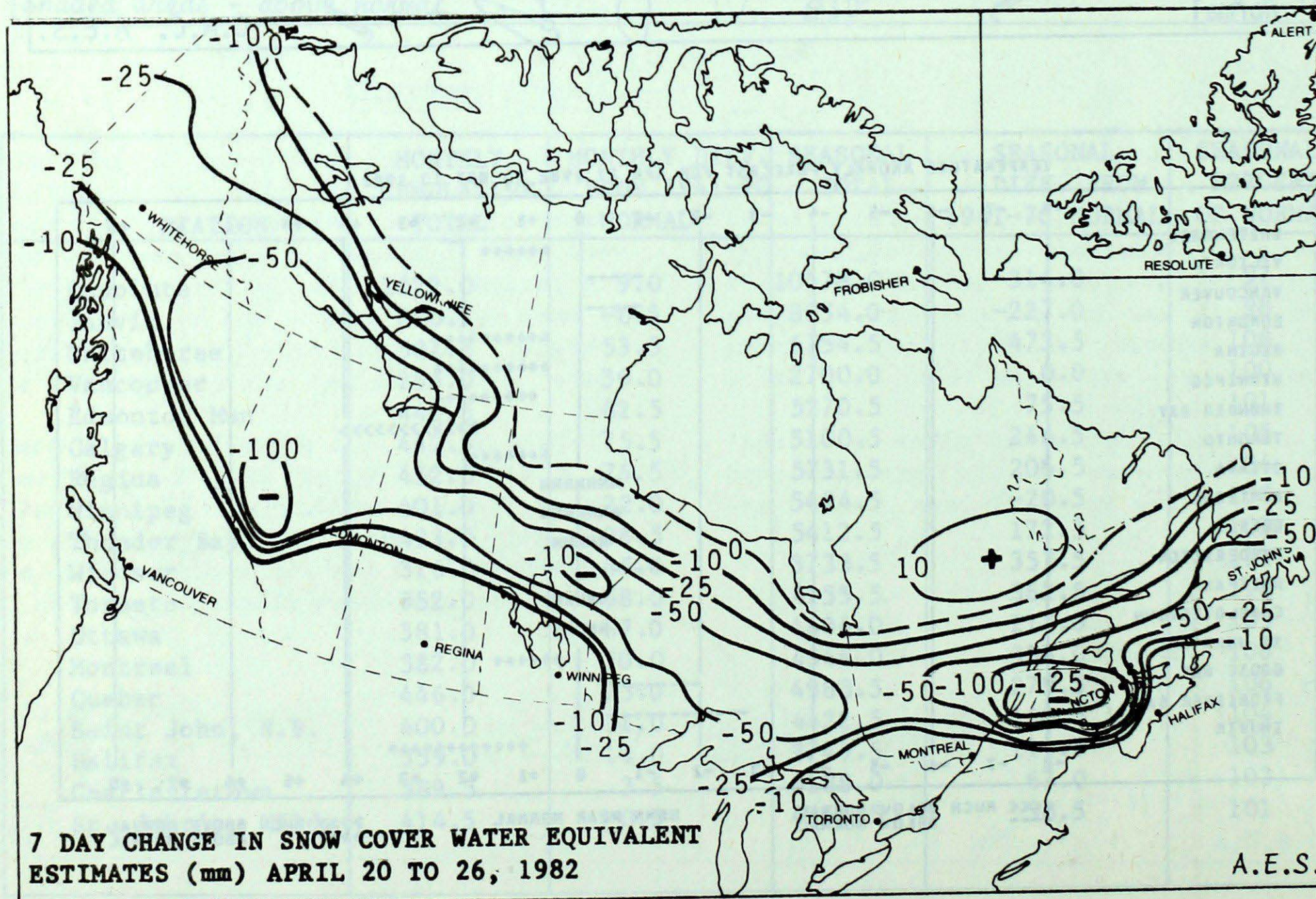
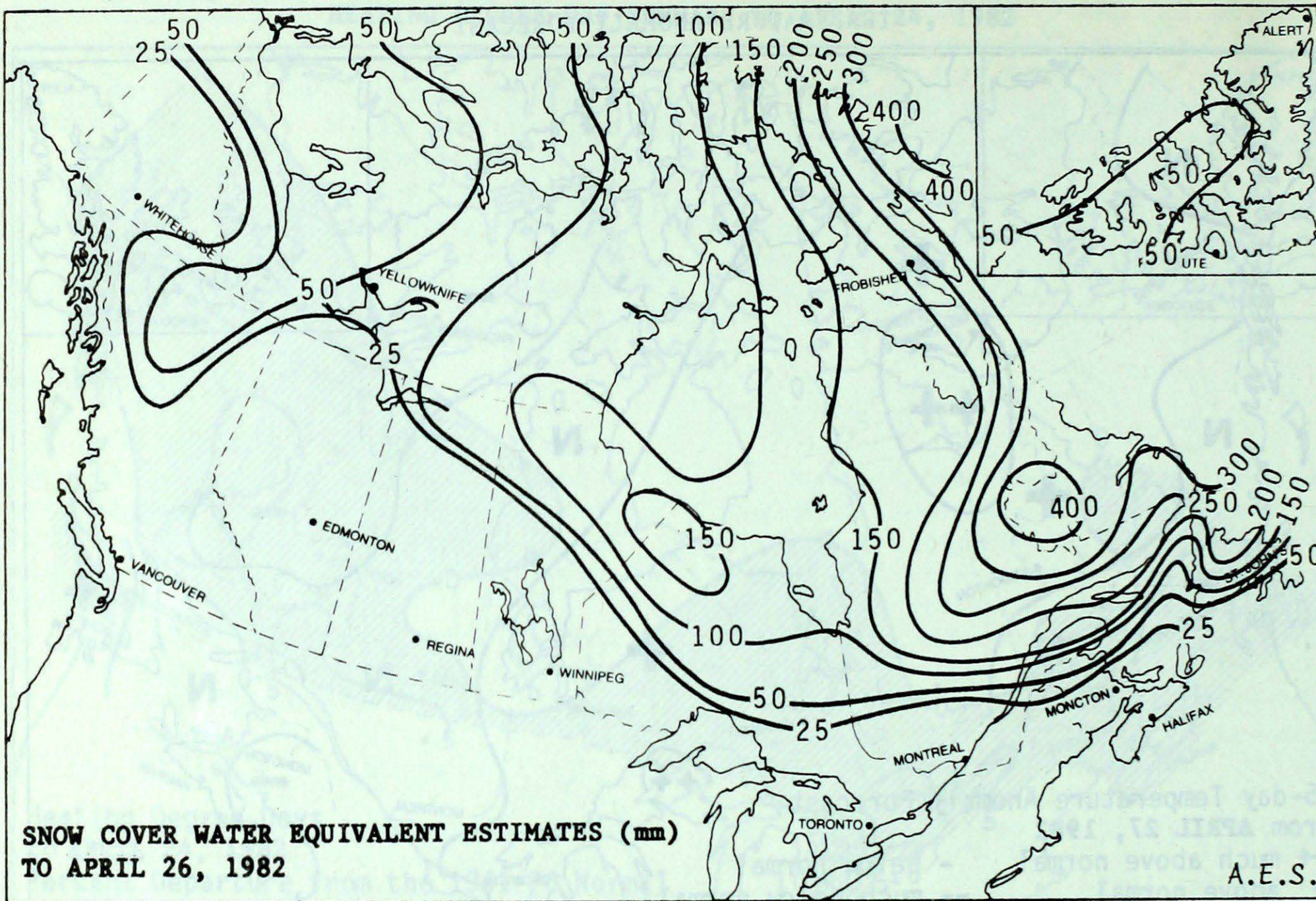
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR APR 27 1982 TO MAY 10 1982

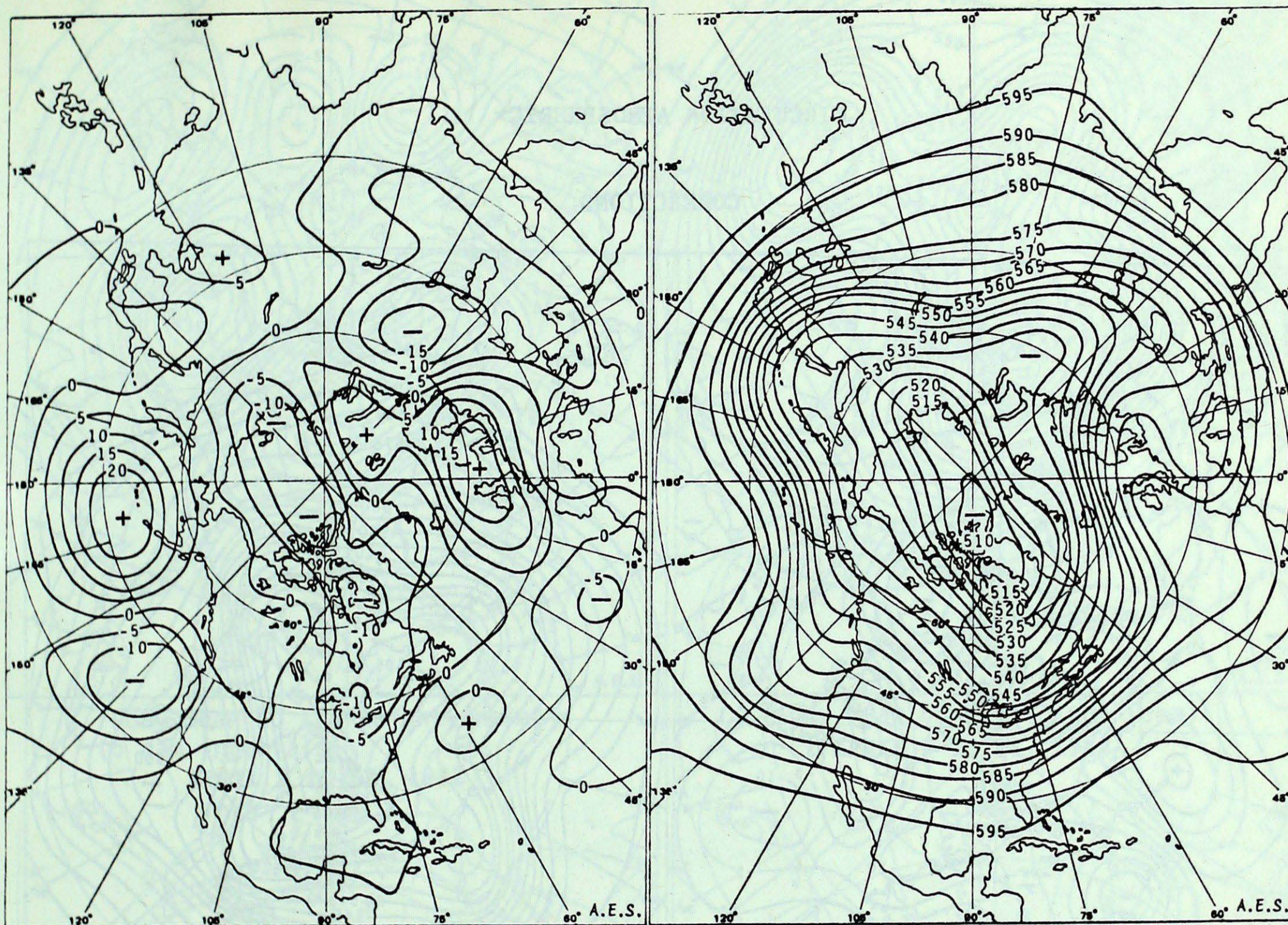








## CORRECTIONS



7-day Mean 50 kPa Height Anomaly  
(5 dam intervals)  
MARCH 22 TO 28, 1982

7-day Mean 50 kPa Height (dam)  
MARCH 22 TO 28, 1982

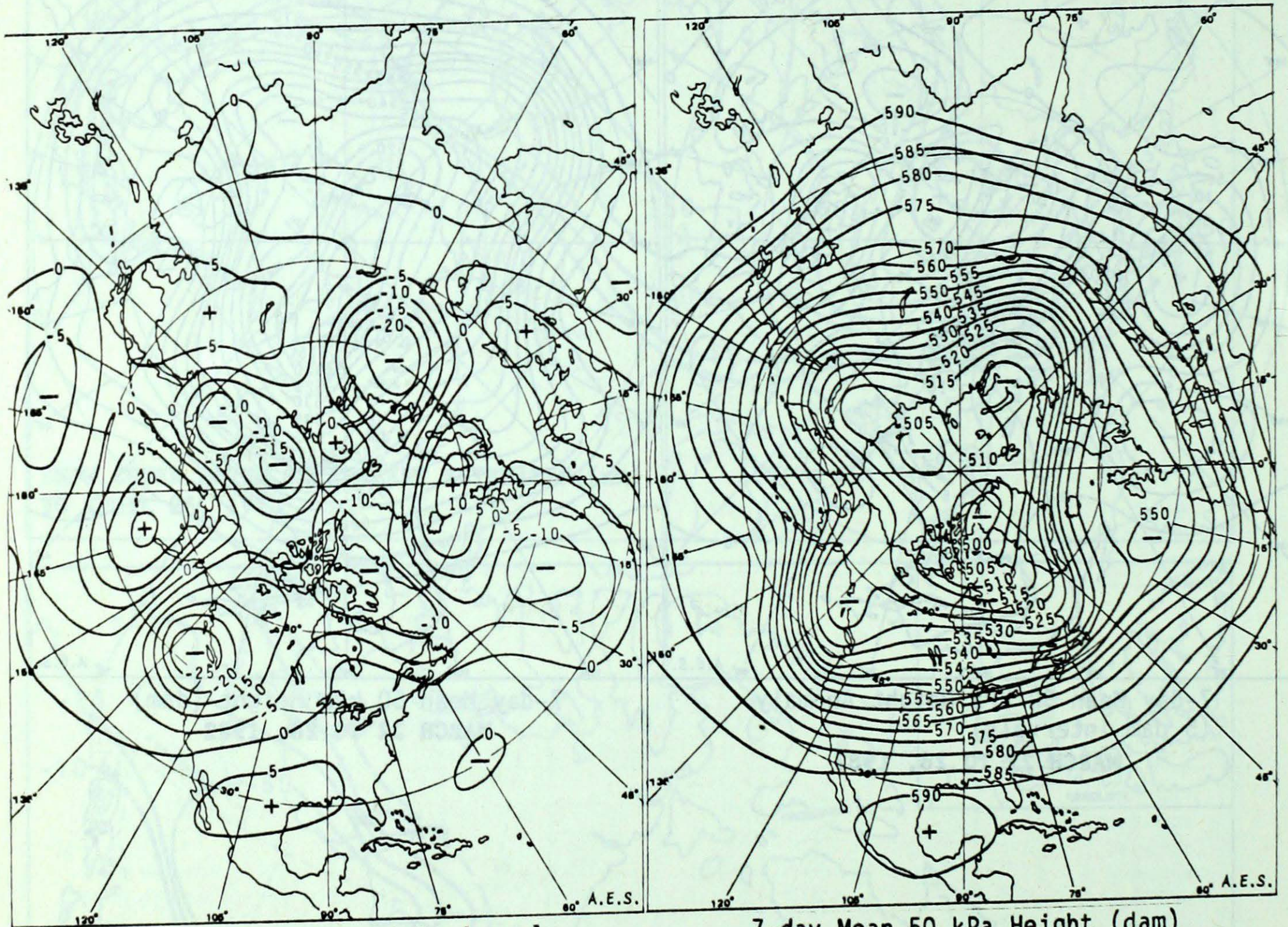
## SPECIAL NOTICE

Due to computer problems the Atmospheric Circulation Maps for the period of April 5-11 and April 12-18 were not available and are reproduced this week. The circulation maps which appeared in volume 4 no. 12-13 (for the periods of March 22-28 and March 29 - April 4) are in error and should be replaced by the maps contained in this issue.



CIRCULATION ATMOSPHERIC

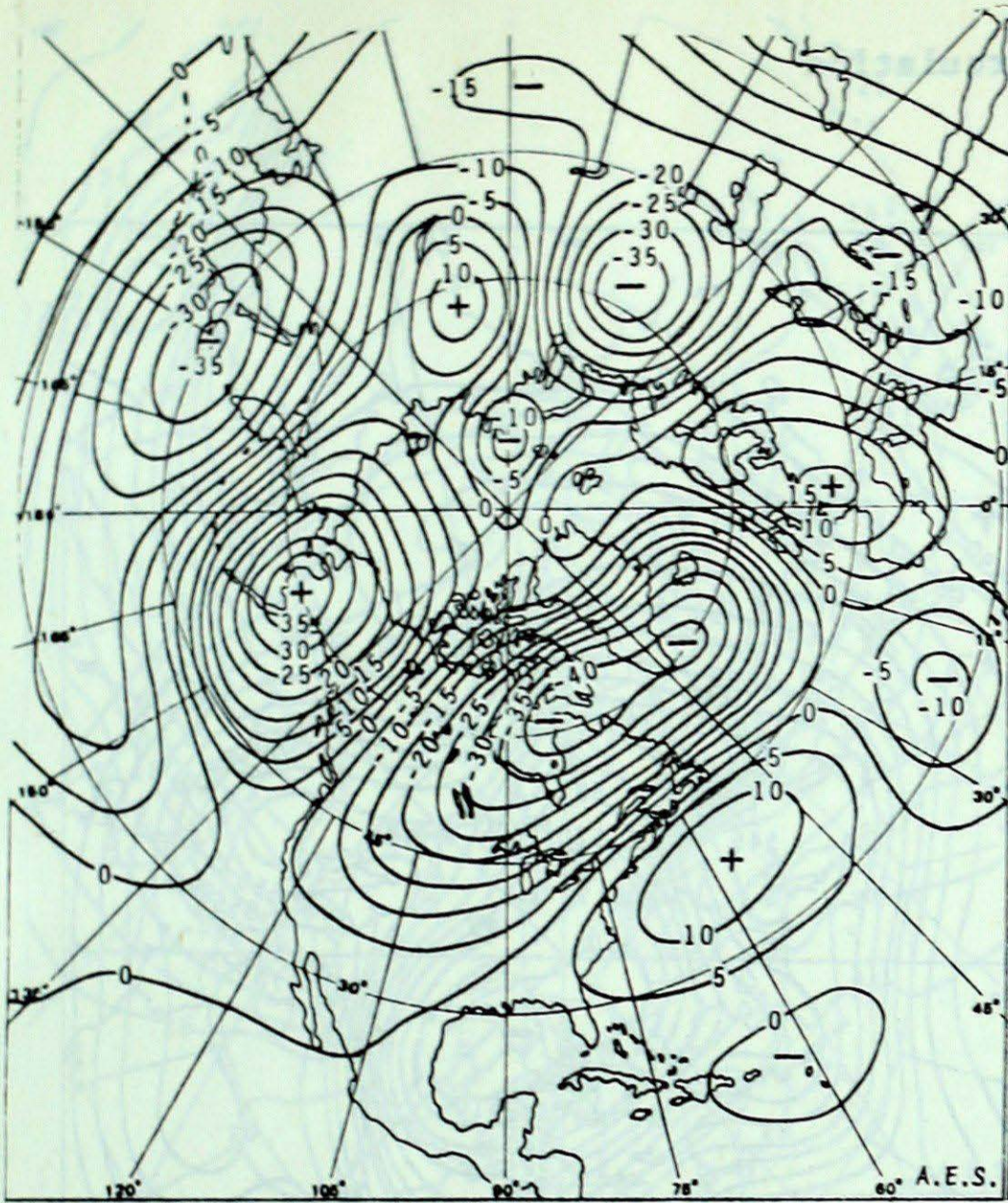
CORRECTIONS



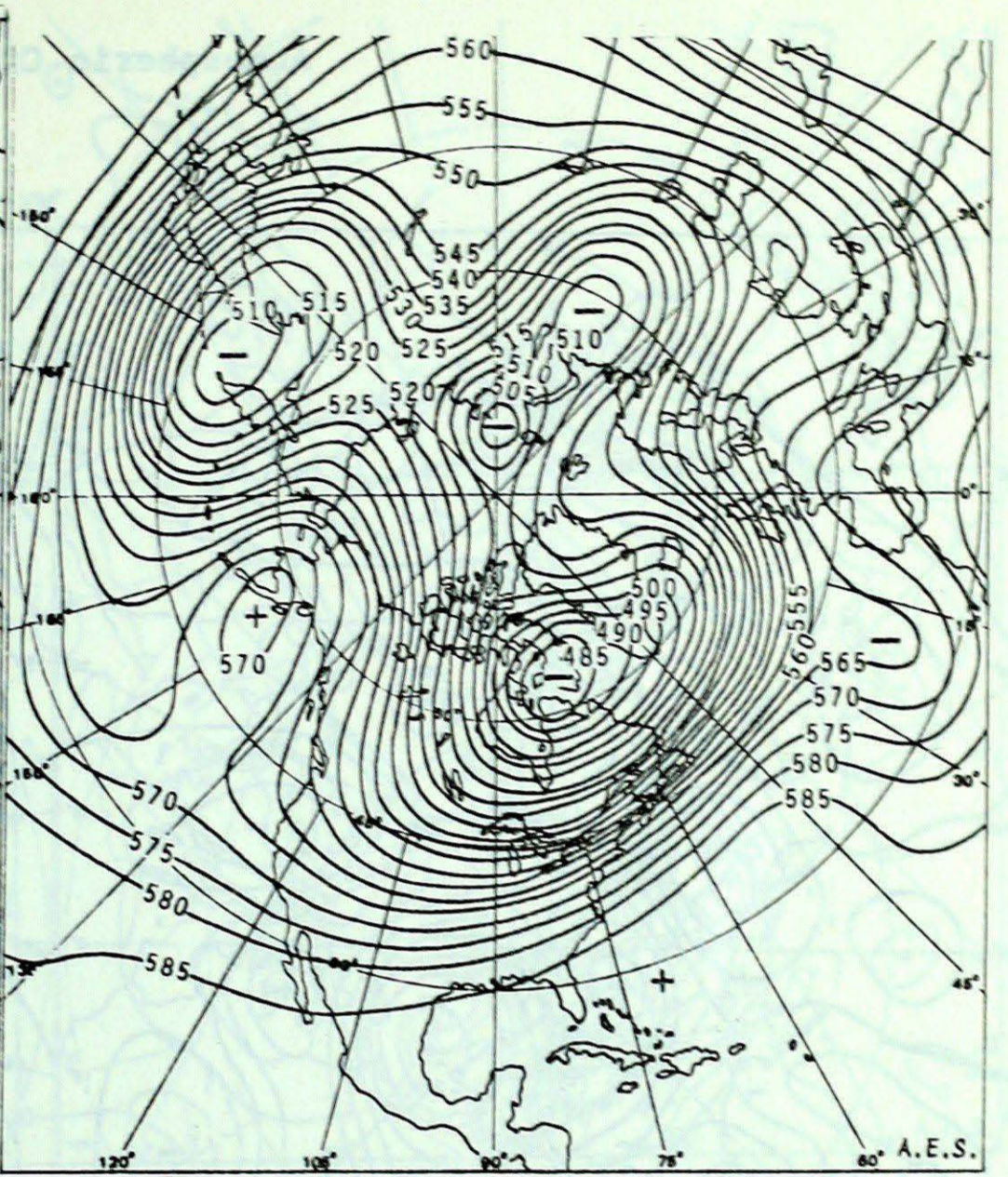
7-day Mean 50 kPa Height Anomaly  
(5 dam intervals)  
**MARCH 29 TO APRIL 4, 1982**

7-day Mean 50 kPa Height (dam)  
**MARCH 29 TO APRIL 4, 1982**

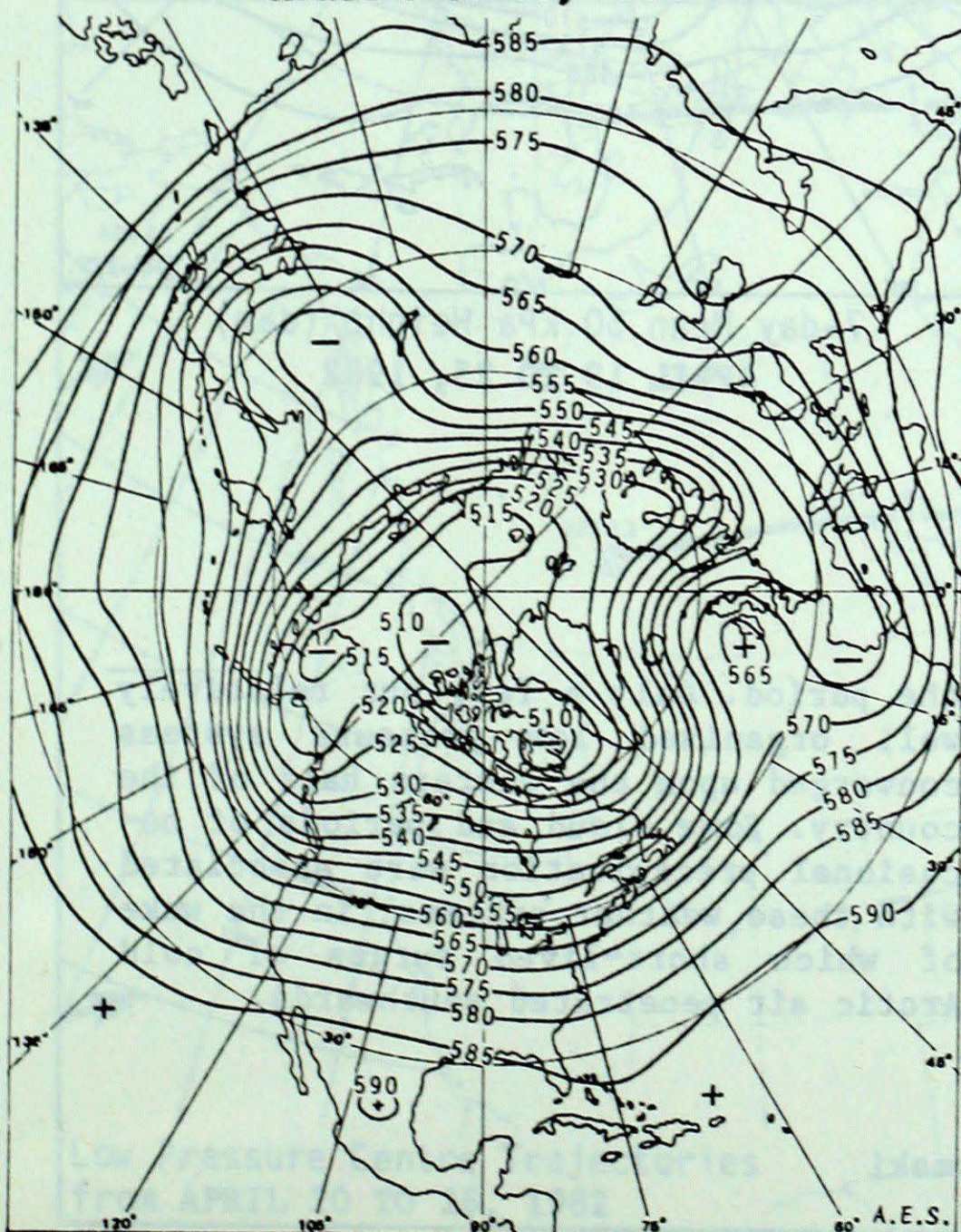




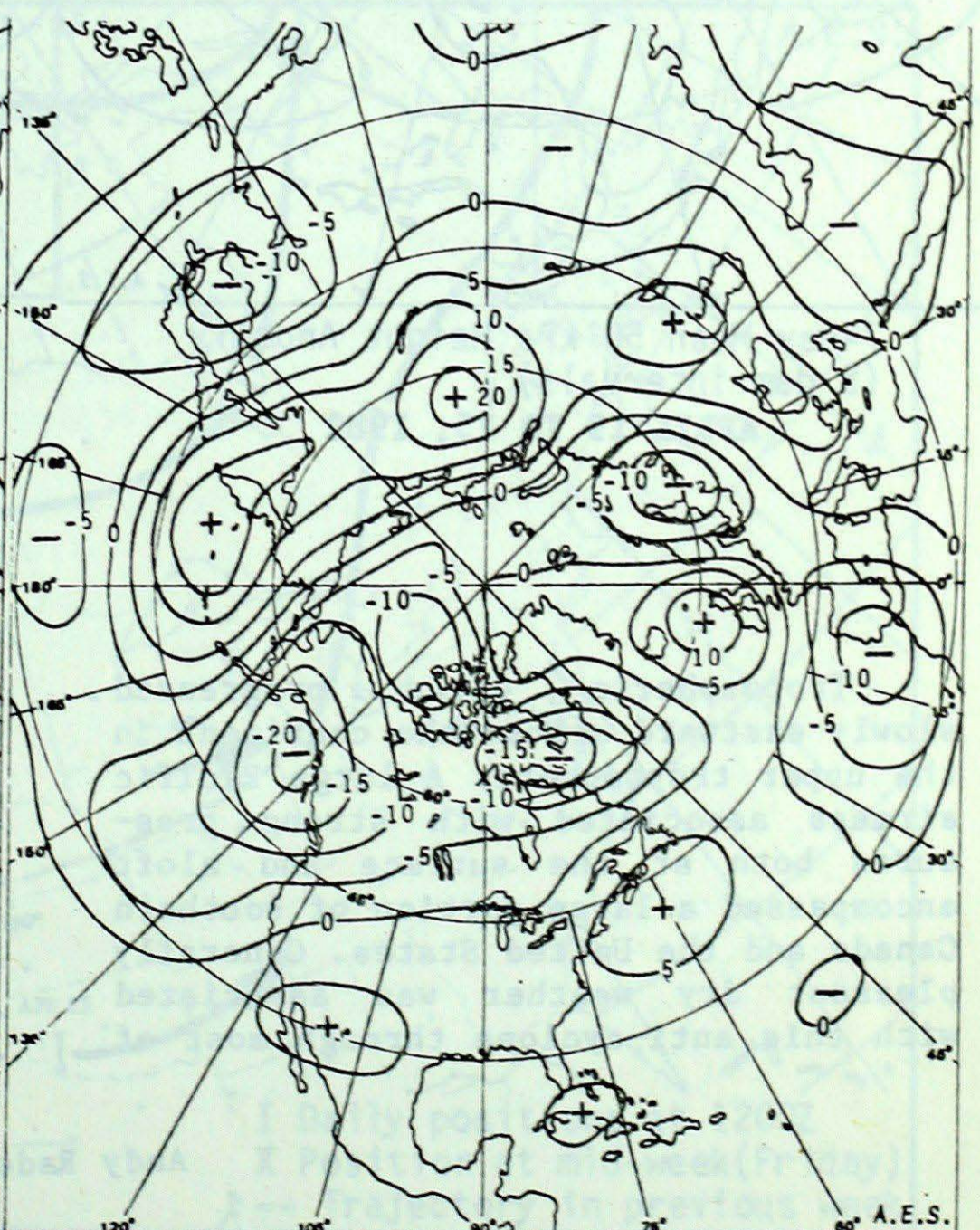
7-day Mean 50 kPa Height Anomaly  
(5 dam intervals)  
**APRIL 5 TO 11, 1982**



7-day Mean 50 kPa Height (dam)  
**APRIL 5 TO 11, 1982**



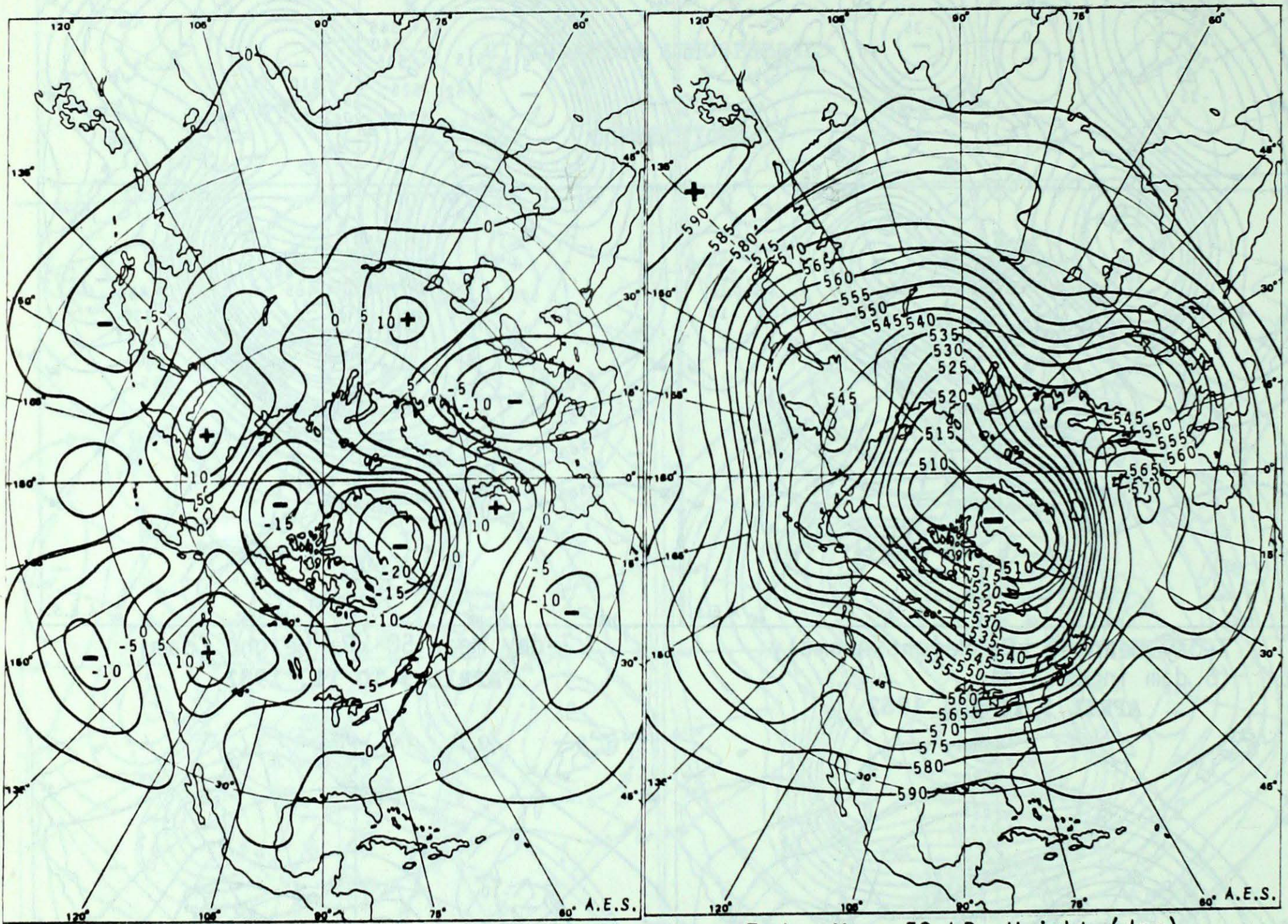
7-day Mean 50 kPa Height (dam)  
**APRIL 12 TO 18, 1982**



7-day Mean 50 kPa Height Anomaly  
(5 dam intervals)  
**APRIL 12 TO 18, 1982**



## Atmospheric Circulation



7-day Mean 50 kPa Height Anomaly  
(5 dam intervals)  
**APRIL 19 TO 25, 1982**

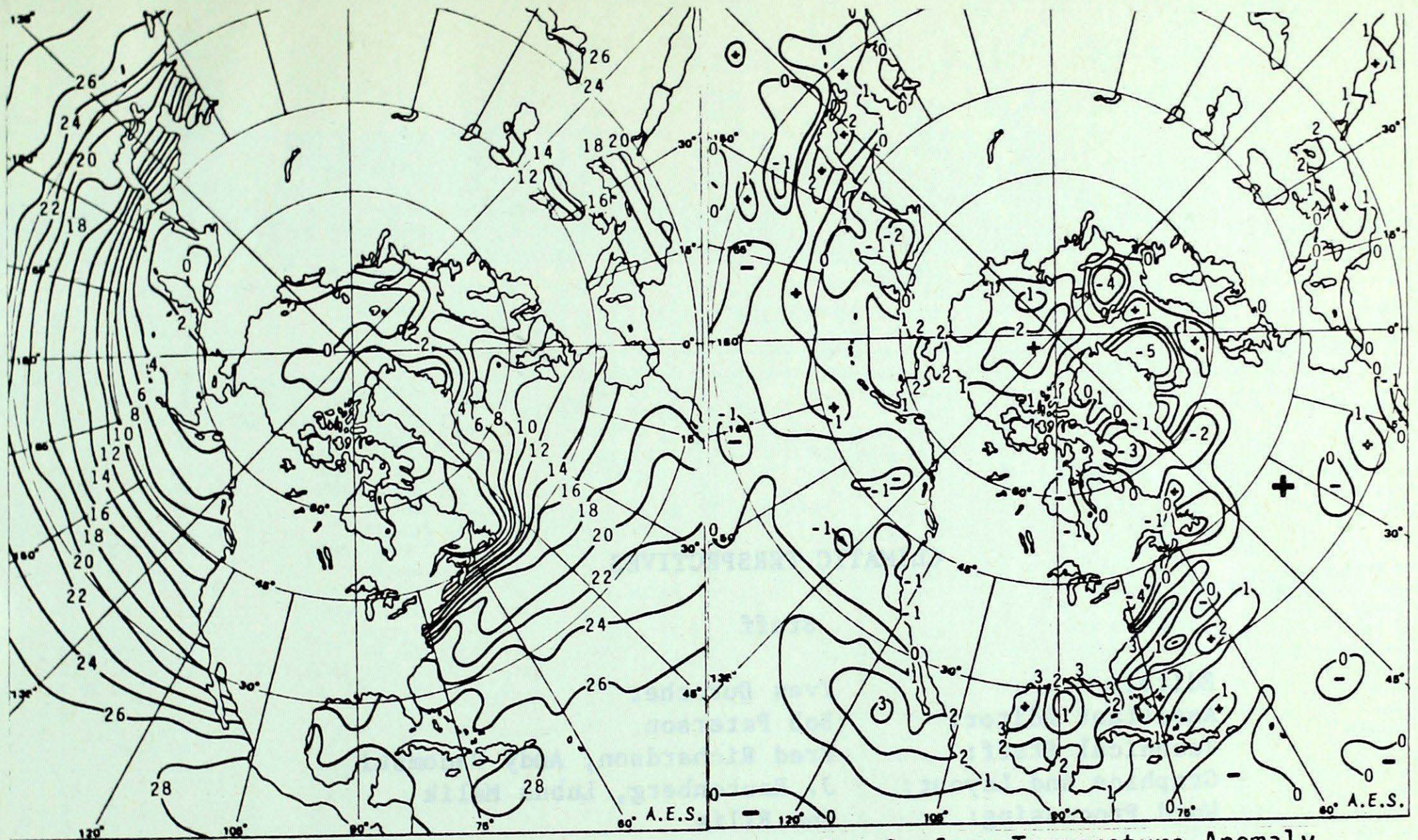
7-day Mean 50 kPa Height (dam)  
**APRIL 19 TO 25, 1982**

Tropospheric waves progressed slowly eastward across the continent in the upper troposphere. A large Pacific airmass associated with strong pressures both at the surface and aloft encompassed a large portion of southern Canada and the United States. Generally pleasant dry weather was associated with this anti-cyclone through most of

the period. Only a few, but relatively well organized low pressure systems converged upon the eastern half of the country. Some cloud and periods of occasional precipitation were associated with these weather systems, in the wake of which short-lived surges of cold Arctic air penetrated southwards.

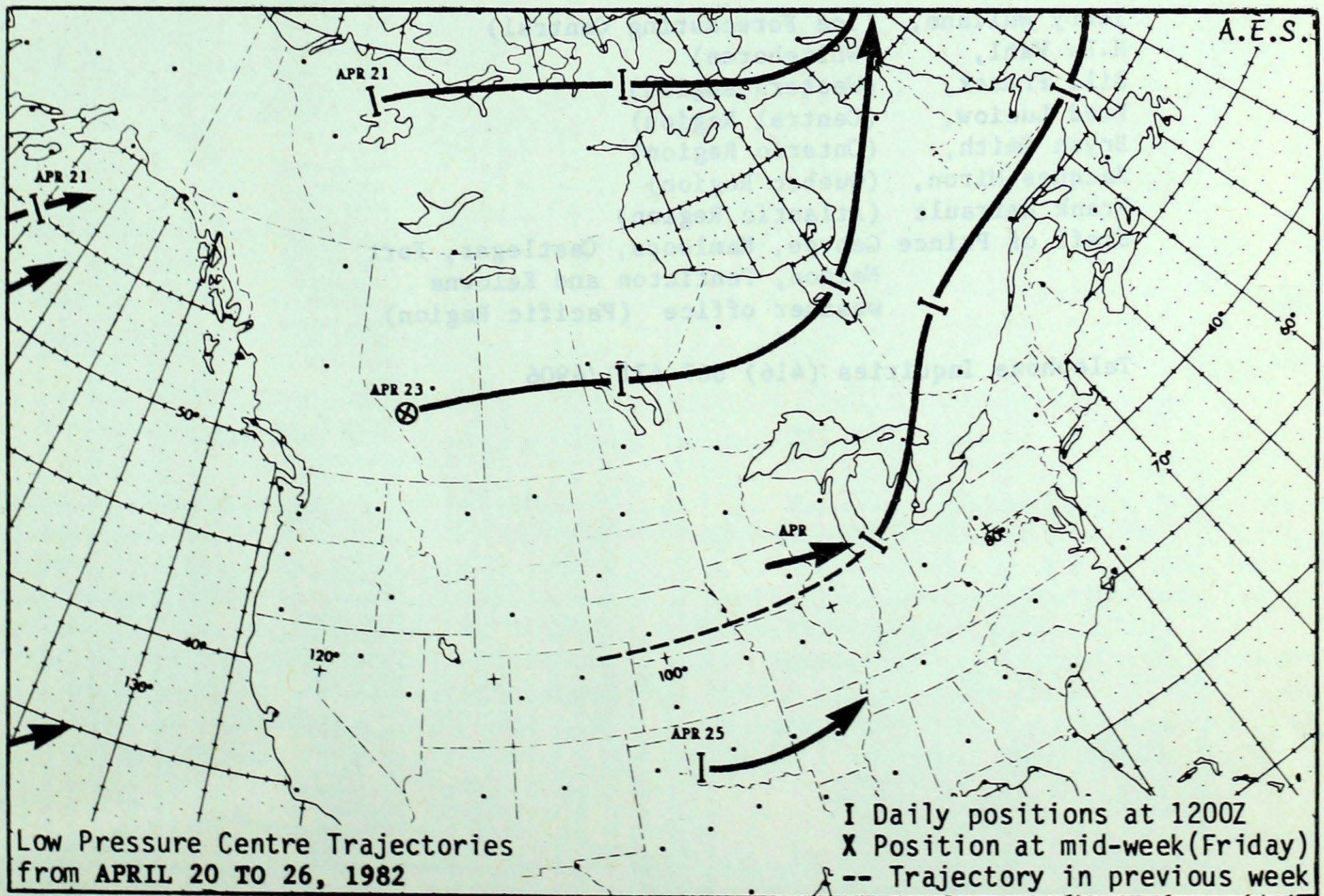
Andy Radomski





Mean Sea Surface Temperature  
MID MARCH TO MID APRIL, 1982

Sea Surface Temperature Anomaly  
MID MARCH TO MID APRIL, 1982



Low Pressure Centre Trajectories  
from APRIL 20 TO 26, 1982

I Daily positions at 1200Z  
X Position at mid-week (Friday)  
-- Trajectory in previous week



## CLIMATIC PERSPECTIVES

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# UNITED STATES

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. APRIL 30, 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
<b>YUKON</b>							Smithers	4	-1	15	-5	1.8	-2.0	Petawawa	7	X	25	-4	7.6	X
Burwash	-2	-1	6	-14	0.2	-3.5	Stewart	4	X	11	-1	M	X	Pickle Lake	1	1	20	-17	0.0	-11.4
Dawson	2	2	9	-8	0.0	-1.9	Terrace	5	-1	13	-3	9.8	2.2	Red Lake	5	1	25	-12	0.0	-9.3
Faro	M	X	M	M	M	X	Vancouver	9	0	20	2	0.0	-11.8	Simcoe	M	M	21P	-2P	17.8	0.0
Komakuk Beach	M	M	-15P	-22P	M	M	Victoria	9	0	19	0	0.0	-8.1	Sioux Lookout	5	2	26	-11	0.0	-11.6
Mayo A	1	0	8	-7	0.0	-2.1	Williams Lake	5	0	18	-5	0.0	-5.2	Sudbury	4	-2	19	-9	12.9	-1.2
Shingle Point	M	M	-15P	-21P	M	M	<b>ALBERTA</b>						Thunder Bay	6	2	26	-8	0.0	-12.9	
Tealin	M	X	6P	-8P	M	X	Banff	3	1	16	-9	M	M	Timmins	1	-3	20	-11	34.8	26.6
Watson Lake	1	-1	10	-11	0.0	-4.2	Calgary	8	4	22	-5	0.8	-6.6	Toronto	9	1	23	-2	11.2	-3.6
Whitehorse	1	-1	6	-9	0.0	-1.4	Cold Lake	7	4	19	-3	0.0	-5.8	Trenton	9	0	21	-3	19.2	2.8
<b>NORTHWEST TERRITORIES</b>							Coronation	7	4	23	-5	0.0	-6.1	Upsala	M	X	M	M	M	X
Cape Parry	M	M	-9P	-20P	M	M	Edmonton Intl	7	3	19	-4	2.2	-0.6	Wawa	0	X	14	-14	7.6	X
Cape Young	M	M	-5P	-17P	M	M	Edmonton Namao	7	3	19	-2	1.6	-2.6	Warton	8	1	20	-3	8.2	-10.5
Clinton Point	M	M	-2P	-12P	M	M	Edson	6	0	19	-5	0.4	-7.1	Windsor	11	0	22	-1	1.8	-18.3
Contwoyto Lake	M	M	M	M	M	M	Fort Chipewyan	3	-1	15	-5	M	M	<b>QUEBEC</b>						
Coppermine	-15	0	0	-25	0.0	-1.8	Fort McMurray	6	4	19	-4	0.2	-4.5	Bagotville	3	0	24	-9	7.4	-5.7
Fort Reliance	-10	-2	7	-25	7.6	6.3	Grande Prairie	5	1	14	-4	1.4	-3.3	Baie Comeau	0	-2	6	-9	6.0	-13.2
Fort Simpson	3	3	15	-5	4.2	-3.3	High Level	5	1	17	-4	12.2	-2.9	Blanc Sablon	-3	-3	3	-12	M	M
Fort Smith	3	3	13	-10	0.0	-4.0	Jasper	5	1	17	-6	1.2	-3.1	Border	M	M	M	M	M	M
Hay River	1	4	15	-9	0.0	-4.9	Lac La Biche	M	X	M	M	M	X	Chevery	M	X	M	M	M	X
Inuvik	-13	-1	-3	-27	6.0	2.7	Lethbridge	9	3	23	-5	0.0	-10.6	Chibougamau	-1	X	18	-17	12.0	X
Lady Franklin Point	-17	0	-5	-24	0.0	-0.3	Medicine Hat	9	3	25	-5	0.0	-9.2	Gaspé	1	X	14	-9	19.5	X
Nicholson Peninsula	M	M	-5P	-20P	M	M	Peace River	6	3	16	-2	4.3	0.4	Grindstone Island	3	1	17	-3	3.4	-7.9
Norman Wells	-2	2	14	-14	0.0	-3.4	Red Deer	7	3	22	-4	0.0	-8.6	Inoucdjouac	M	M	-5P	-20P	M	M
Port Radium	M	X	M	M	M	X	Rocky Mountain House	5	2	21	-7	0.4	-10.0	Kuujuuaq	-13	-6	-3	-25	M	M
Robertson Lake	M	X	M	M	M	X	Slave Lake	3	-2	12	-5	0.4	-3.0	Lac Eon	M	X	M	M	M	X
Tuktoyaktuk	M	M	-13P	-22P	M	M	Vermilion	7	4	21	-2	0.0	-4.9	Grande Riviere	-9	X	4	-19	2.4	X
Yellowknife	-3	2	8	-16	0.2	-1.7	Whitecourt	6	3	20	-4	0.4	-7.6	Maniwaki	7	1	24	-4	21.2	7.9
Baker Lake	-18	-3	-7	-27	1.3	-1.7	<b>SASKATCHEWAN</b>							Matagami	-1	X	18	-15	M	X
Coral Harbour	-17	-3	-8	-27	3.0	-1.6	Broadview	8	X	25	-4	0.2	X	Mont-Joli	4	1	18	-7	5.5	-3.5
Ennadai Lake	M	M	M	M	M	M	Buffalo Narrows	5	0	18	-5	M	M	Montréal	8	0	23	-2	6.6	-12.6
Jenny Lind Island	-19	1	-6	-26	0.0	-0.9	Collins Bay	0	X	12	-12	0.0	X	Natashquan	-2	-3	5	-10	14.6	-4.1
Pelly Bay	M	M	-19P	-27P	M	M	Cree Lake	3	X	22	-8	0.9	X	Nitchequon	-7	-2	9	-21	16.4	7.6
Rankin Inlet	-16	X	-5	-28	7.9	X	Eastend Cypress	M	X	M	M	M	X	Parent	M	X	M	M	M	X
Shepherd Bay	-22	-2	-11	-32	7.0	4.4	Estevan	8	3	26	-4	0.4	-6.5	Port Manier	M	M	M	M	M	M
Alert	-23	-2	-17	-32	7.0	5.4	Hudson Bay	7	4	25	-5	0.2	-8.7	Poste-de-la-Baleine	-9	-5	1	-21	2.6	-5.3
Broughton Island	M	M	-18P	-25P	M	M	Kindersley	8	5	24	-5	0.0	-9.2	Québec	5	0	21	-3	11.0	-7.9
Cape Dorset	-14	X	-6	-21	9.4	X	La Ronge	4	1	18	-6	2.4	-1.5	Rivière du Loup	M	M	M	M	M	M
Cape Dyer	M	M	-13P	-27P	M	M	Meadow Lake	5	X	18	-8	2.2	X	Roberval	4	1	23	-4	17.1	4.5
Cape Hooper	M	M	-18P	-27P	M	M	Moose Jaw	9	4	25	-2	0.0	-7.7	Schefferville	-11	-6	3	-27	3.2	-4.0
Clyde	-21	-5	-13	-31	2.8	1.2	Nipawin	7	X	22	-4	2.8	X	Sept-Iles	-1	-2	11	-9	20.2	8.1
Dewar Lakes	M	M	-22P	-30P	M	M	North Battleford	8	3	24	-6	0.0	-7.4	Sherbrooke	6	2	24	-6	32.6	14.3
Eureka	-29	-5	-19	-38	0.0	-0.5	Prince Albert	7	3	24	-5	3.2	-4.4	Ste Agathe des Monts	5	1	21	-5	22.4	4.5
Profisher Bay	-16	-5	-5	-26	4.2	-0.9	Regina	8	3	24	-3	0.0	-7.2	Val D'Or	1	-3	19	-9	30.5	21.2
Gladman Point	M	M	-16P	-29	5.0	3.3	Rockglen	M	X	M	M	M	X	<b>NEW BRUNSWICK</b>						
Hall Beach	M	M	-19P	-28P	M	M	Saskatoon	9	4	24	-4	0.6	-7.8	Charlo	2	0	19	-8	6.7	-8.7
Longstaff Bluff	M	M	-22P	-31P	M	M	Swift Current	8	3	24	-7	0.0	-9.1	Chatham	6	1	25	-5	20.2	6.6
Mackay Inlet	M	M	-22P	-26P	M	M	Uranium City	0	1	13	-12	0.0	-0.4	Fredericton	6	1	23	-5	16.6	1.7
Pond Inlet	-23	X	-15	-29	0.0	X	Wynyard	8	X	25	-6	1.4	X	Moncton	6	2	23	-4	0.7	-13.3
Resolute	-20	1	-14	-30	0.0	-1.5	Yorkton	8	4	25	-3	0.8	-6.3	Saint John	5	0	14	-3	29.7	9.7
Byron Bay	-18	1	-7	-27	0.0	-0.3	<b>MANITOBA</b>							St Stephen	M	X	M	M	M	X
Cambridge Bay	-18	2	-6	-26	3.5	2.2	Bissett	7	X	25	-9	0.0	X	<b>NOVA SCOTIA</b>						
Mould Bay	-22	-2	-16	-29	5.4	4.6	Brandon	8	4	27	-3	0.0	-8.7	Amherst	M	X	M	M	M	X
Sachs Harbour	-20	-2	-6	-27	0.0	-0.8	Churchill	-8	1	6	-18	0.4	-5.3	Eddy Point	4	X	21	-3	18.7	X
<b>BRITISH COLUMBIA</b>							Dauphin	9	5	25	-3	0.6	-12.1	Greenwood	7	1	23	-3	7.1	-7.6
Abbotsford	11	2	24	0	0.0	-18.5	Gillam	-3	X	7	-17	10.2	X	Sable Island	5	1	10	-2	M	M
Alert Bay	7	-1	18	1	2.2	-16.6	Gimli	7	3	26	-6	0.0	-10.3	Shearwater	6	1	17	-2	2.0	-20.6
Amphitrite Point	8	X	16	2	0.0	X	Grand Rapids	M	X	M	M	M	X	Shelburne	4	X	20	-4	8.0	X
Blue River	M	X	M	M	M	X	Island Lake	3	X	15	-14	M	X	Sydney	6	3	21	-5	6.0	-8.4
Bull Harbour	M	M	12	0P	6.8	-18.6	Lynn Lake	0	-2	13	-13	3.6	0.9	Truro	6	3	21	-5	6.0	-8.4
Burns Lake	3	X	14	-7	0.0	X	Norway House	4	X	17	-6	3.0	X	Yarmouth	6	1	13	0	8.6	-12.8
Cape Scott	7	0	13	3	5.0	-36.7	Pilot Mound	8	4	27	-5	0.0	-12.2	<b>PRINCE EDWARD ISLAND</b>						
Cape St James	7	1	14	3	5.7	-14.9	Portage	9	4	28	-6	0.0	-12.2	Charlottetown	5	2	21	-3	4.2	-9.3
Clinton	M	X	M	M	M	X	The Pas	6	4	19	-5	1.2	-6.6	East Point	M	X	M	M	M	X
Comox	9	0	20	-1	0.0	-8.2	Thompson	1	0	14	-11	4.4	-2.6	Summerside	5	1	16	-3	8.8	-4.4
Cranbrook	8	1	21	-5	0.0	-9.8	Winnipeg	9	3	29	-6	0.0	-10.2	<b>NEWFOUNDLAND</b>						
Dease Lake	1	-1	7	-8	0.0	-1.9	<b>ONTARIO</b>							Argentia	3	X	10	-2	22.5	X
Estevan Point	M	M	M	M	M	M	Armstrong	3	1	23	-19	0.0	-13.3	Badger	M	X	M	M	M	X
Ethelda Bay	6	X	11	-3	M	X	Atikokan	5	1	26	-11	0.0	-13.6	Bonavista	2	1	12	-4	7.2	-5.6
Fort Nelson	5	2	16	-3	0.0	-5.3	Barrie	M	X	M	M	M	X	Burgeo	1	-1	4	-3	31.0	3.9
Fort St John	7	3	15	-2	1.0	3.9	Big Trout Lake	-3	-1	10	-22	1.6	-5.8	Cape Race	M	X	M	M	M	X
Hope	11	X	25	1	0.0	X	Britt	M	X	M	M	M	X	Comfort Cove	2	1	17	-5	14.8	-5.5
Kamloops	11	2	26	-3	0.0	-2.7	Caribou Island	M	X	M	M	M	X	Daniel's Harbour						