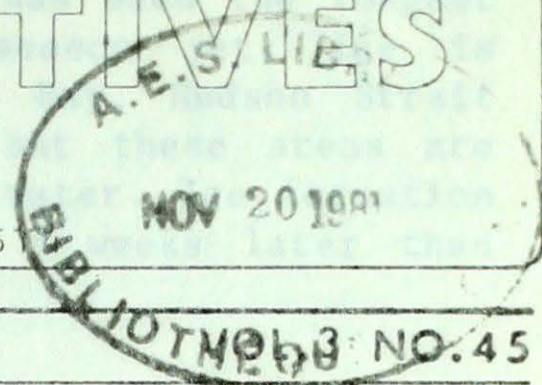


CLIMATIC PERSPECTIVES

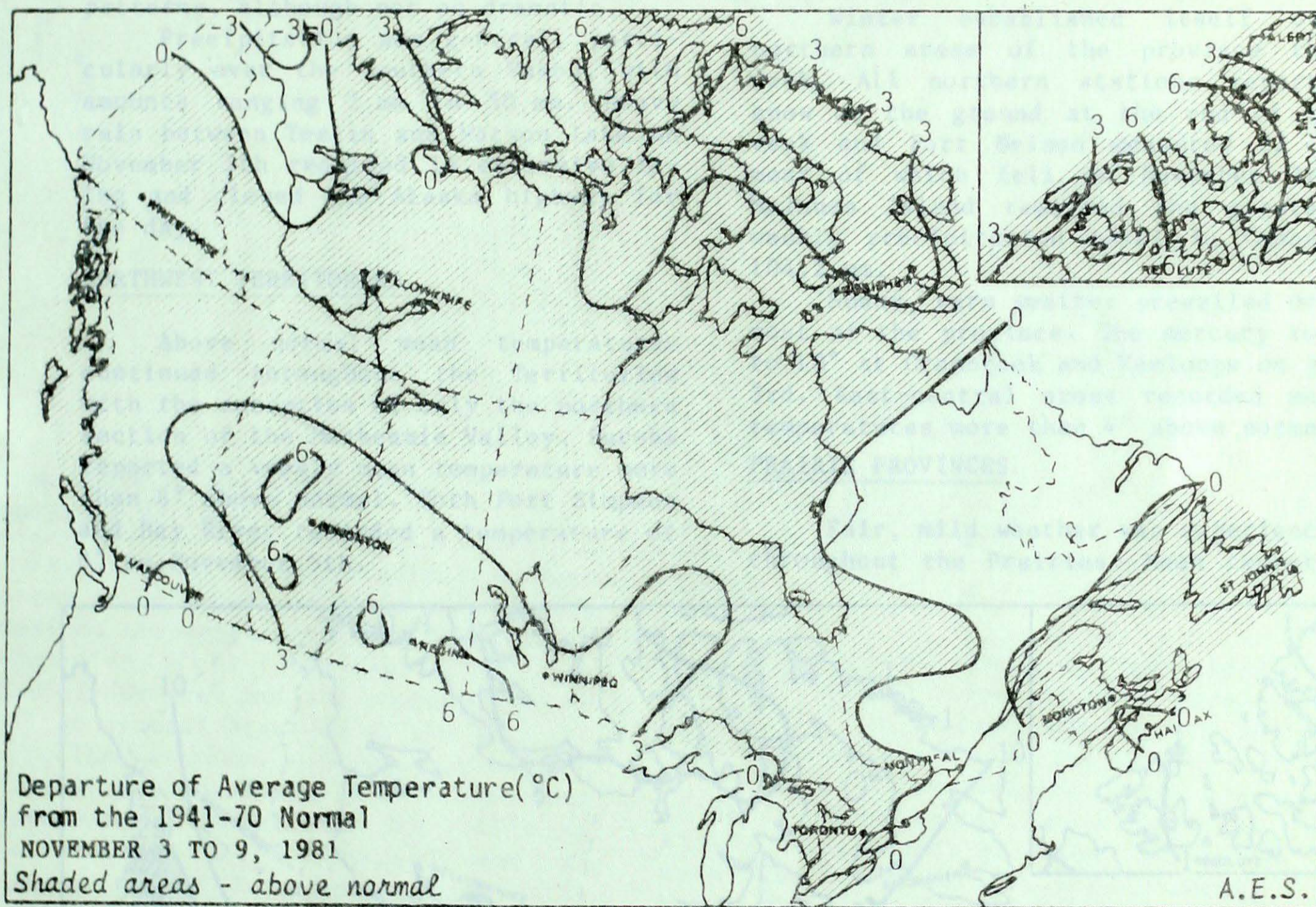
Canada

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



NOVEMBER 13, 1981

(Aussi disponible en français)



WEATHER HIGHLIGHTS FOR THE PERIOD - NOVEMBER 3 TO 9, 1981

Above seasonal temperatures continue in the Arctic

Mean temperatures were above normal again this week throughout the Arctic. As a result, this has been the longest shipping season yet. Ice formation is generally 2 to 3 weeks later than normal.

The southern Alberta sugar beet harvest was considerably above the long term average yield this year. This is

attributed to ideal growing and harvest weather this year.

Temperatures varied from 21° at several stations in Alberta and Saskatchewan on November 3rd and 4th, to -30° at Coppermine, Northwest Territories. The greatest weekly precipitation total, 104.2 mm, was measured at McInnes Island, British Columbia.

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

YUKON

The weather was very variable this week as active storms moved through from the Pacific. Watson Lake, which reported -15° on November 3rd, rose to 8° on November 5th (exceeding the old record of 7° set in 1957), only to slide back to -17° on November 7th. The rest of the southern Yukon had similar patterns, although not as dramatic.

Precipitation was general, particularly over the southern Yukon, with amounts ranging 2 mm to 50 mm. Heavy rain between Teslin and Watson Lake on November 5th resulted in extensive icing and closed the Alaska highway for the day.

NORTHWEST TERRITORIES

Above normal mean temperatures continued throughout the Territories with the exception of only the northern section of the Mackenzie Valley. Eureka reported a weekly mean temperature more than 8° above normal. Both Fort Simpson and Hay River recorded a temperature of 8° on November 5th.

Due to the continuing above normal temperatures this has been the longest Arctic shipping season yet. Ice is forming in Hudson Bay, Hudson Strait and Davis Strait but these areas are still mostly open water. Ice formation is generally 2 to 3 weeks later than normal.

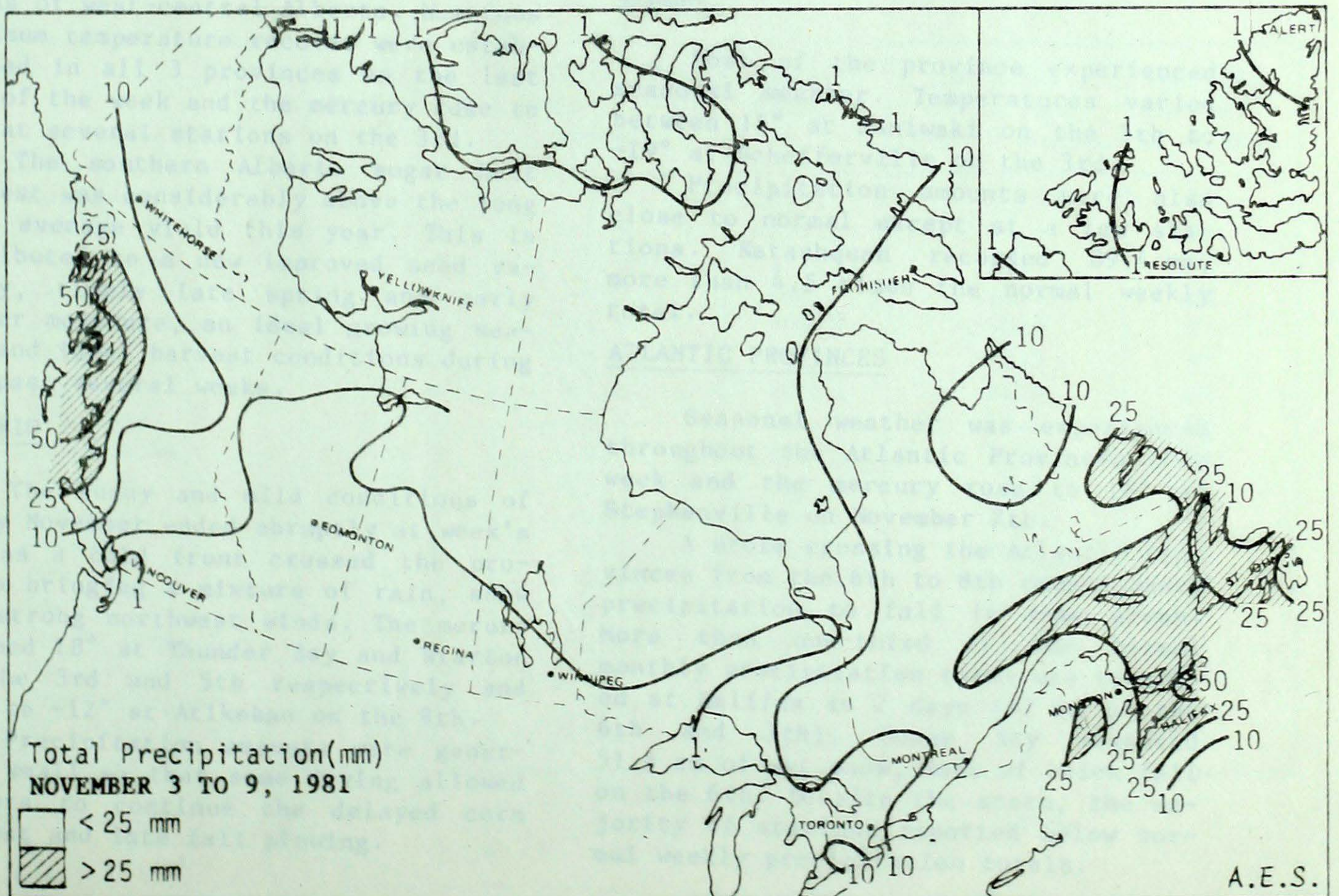
BRITISH COLUMBIA

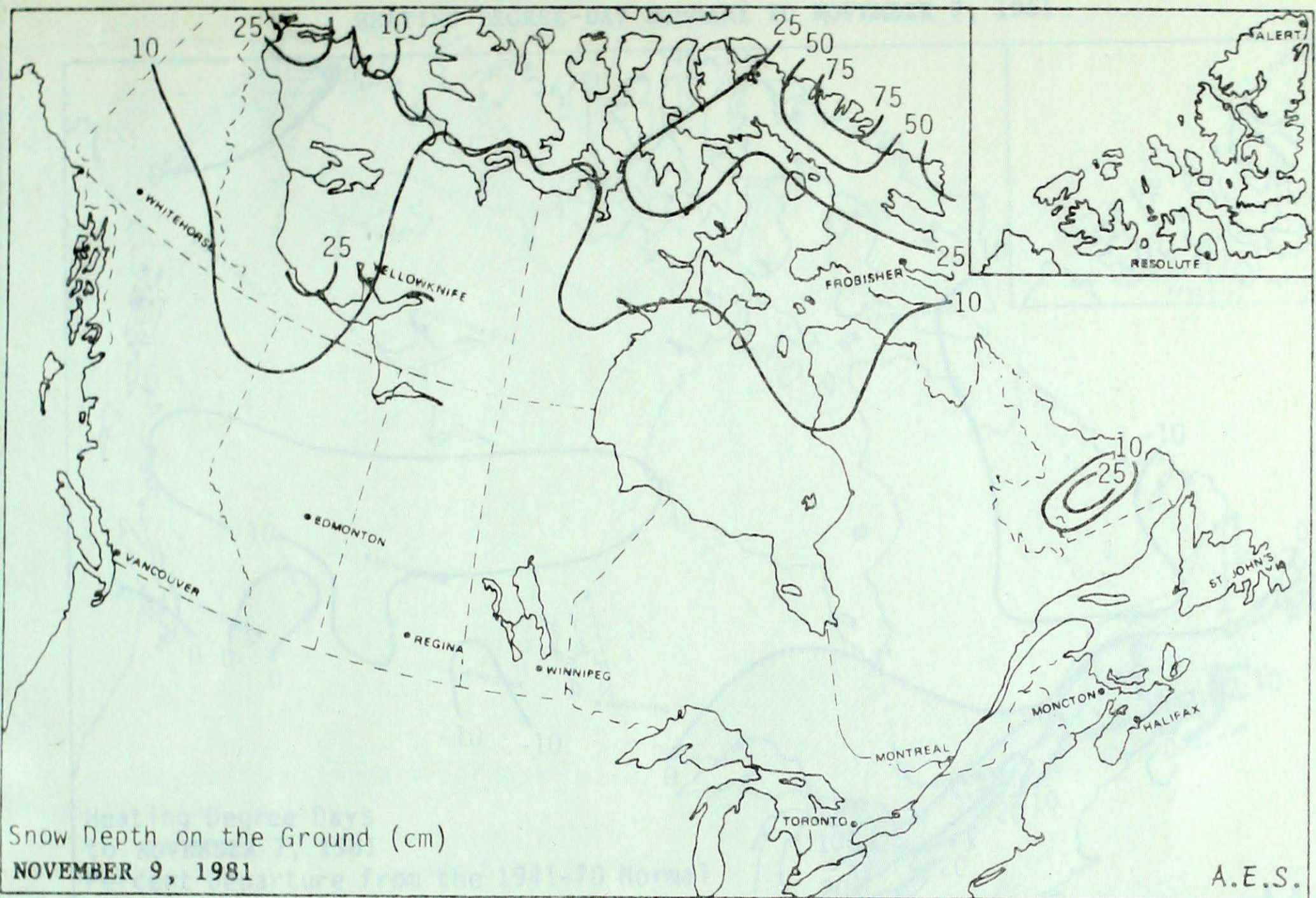
Winter established itself over northern areas of the province this week. All northern stations reported snow on the ground at the end of the week and Fort Nelson measured 22 cm, most of which fell on November 3rd. McInnes Island reported the greatest weekly precipitation total in Canada, 104.2 mm.

Sunny, warm weather prevailed over most of the province. The mercury rose to 18° at Cranbrook and Kamloops on the 3rd. East-central areas recorded mean temperatures more than 4° above normal.

PRAIRIE PROVINCES

Fair, mild weather was experienced throughout the Prairies. Mean tempera-





tures exceeded 8° above normal in some areas of west-central Alberta. Numerous maximum temperature records were established in all 3 provinces on the last day of the week and the mercury rose to 21° at several stations on the 3rd.

The southern Alberta sugar beet harvest was considerably above the long term average yield this year. This is attributed to a new improved seed variety, timely late spring and early summer moisture, an ideal growing season and ideal harvest conditions during the past several weeks.

ONTARIO

The sunny and mild conditions of early November ended abruptly at week's end as a cold front crossed the province bringing a mixture of rain, snow and strong northwest winds. The mercury reached 18° at Thunder Bay and Warton on the 3rd and 5th respectively and fell to -12° at Atikokan on the 9th.

Precipitation amounts were generally small so that some drying allowed farmers to continue the delayed corn harvest and late fall plowing.

QUÉBEC

Most of the province experienced seasonal weather. Temperatures varied between 15° at Maniwaki on the 5th to -19° at Schefferville on the 3rd.

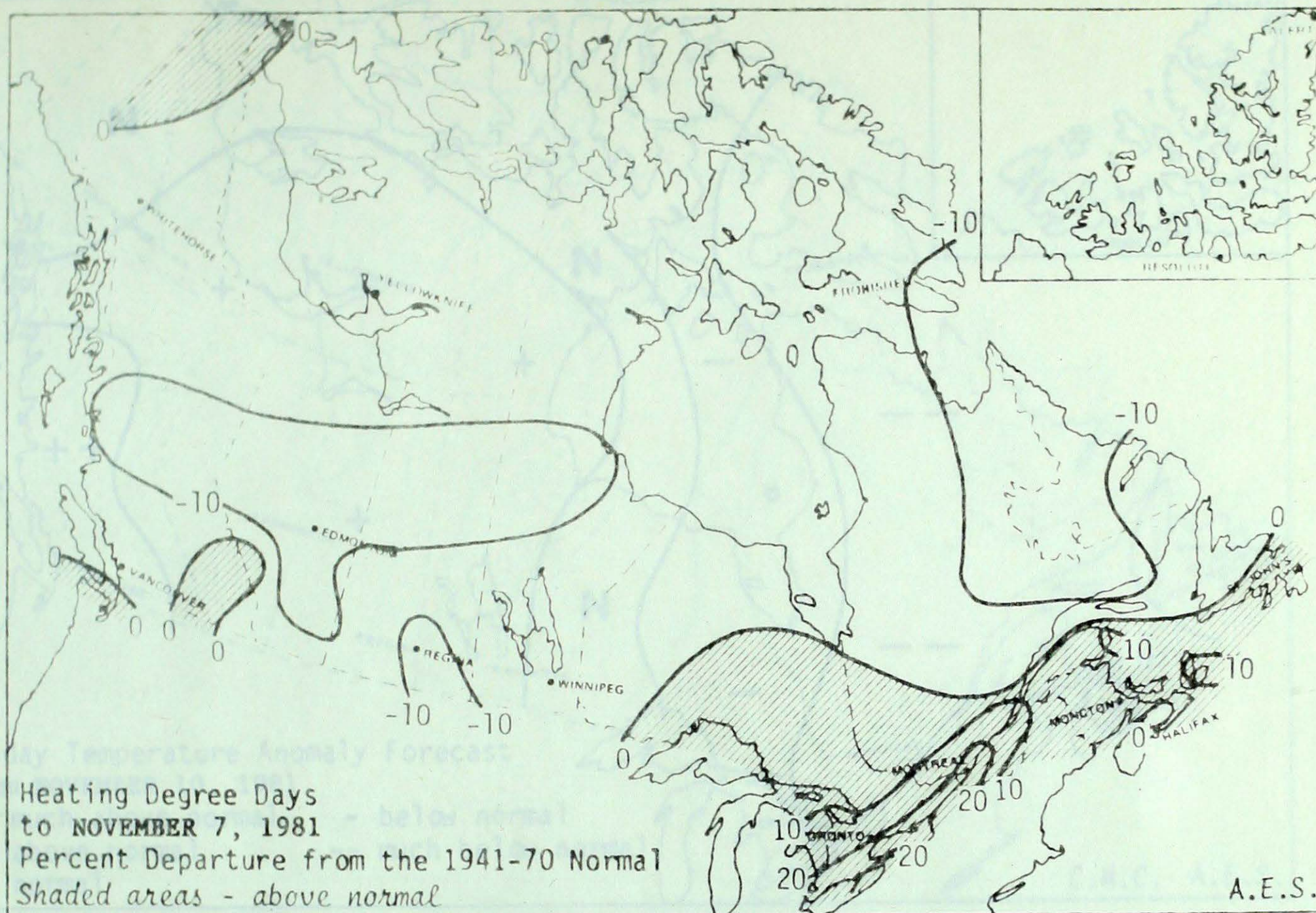
Precipitation amounts were also close to normal except at a few stations. Natashquan recorded 89.4 mm, more than 4.5 times the normal weekly total.

ATLANTIC PROVINCES

Seasonal weather was experienced throughout the Atlantic Provinces this week and the mercury rose to 18° at Stephenville on November 7th.

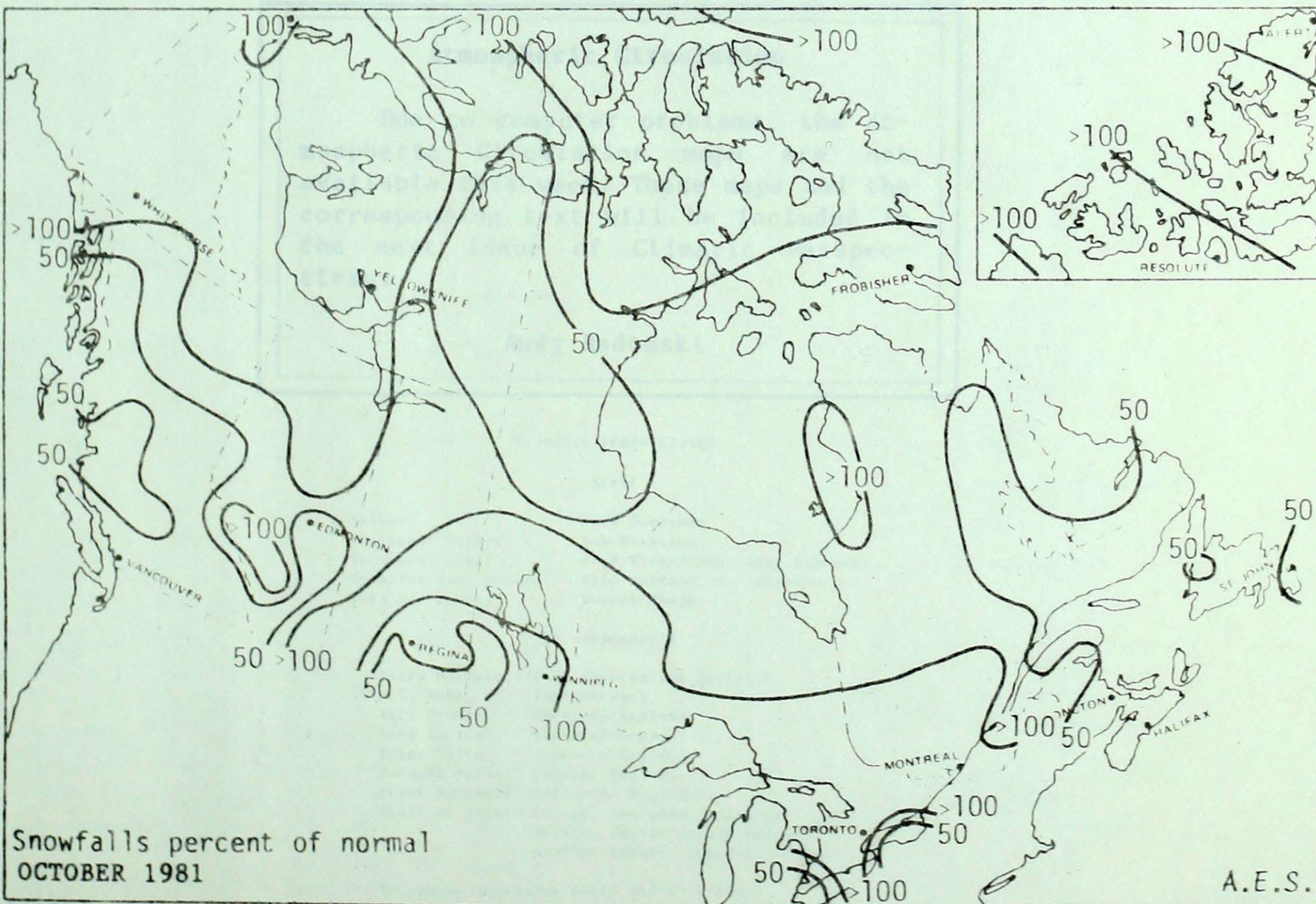
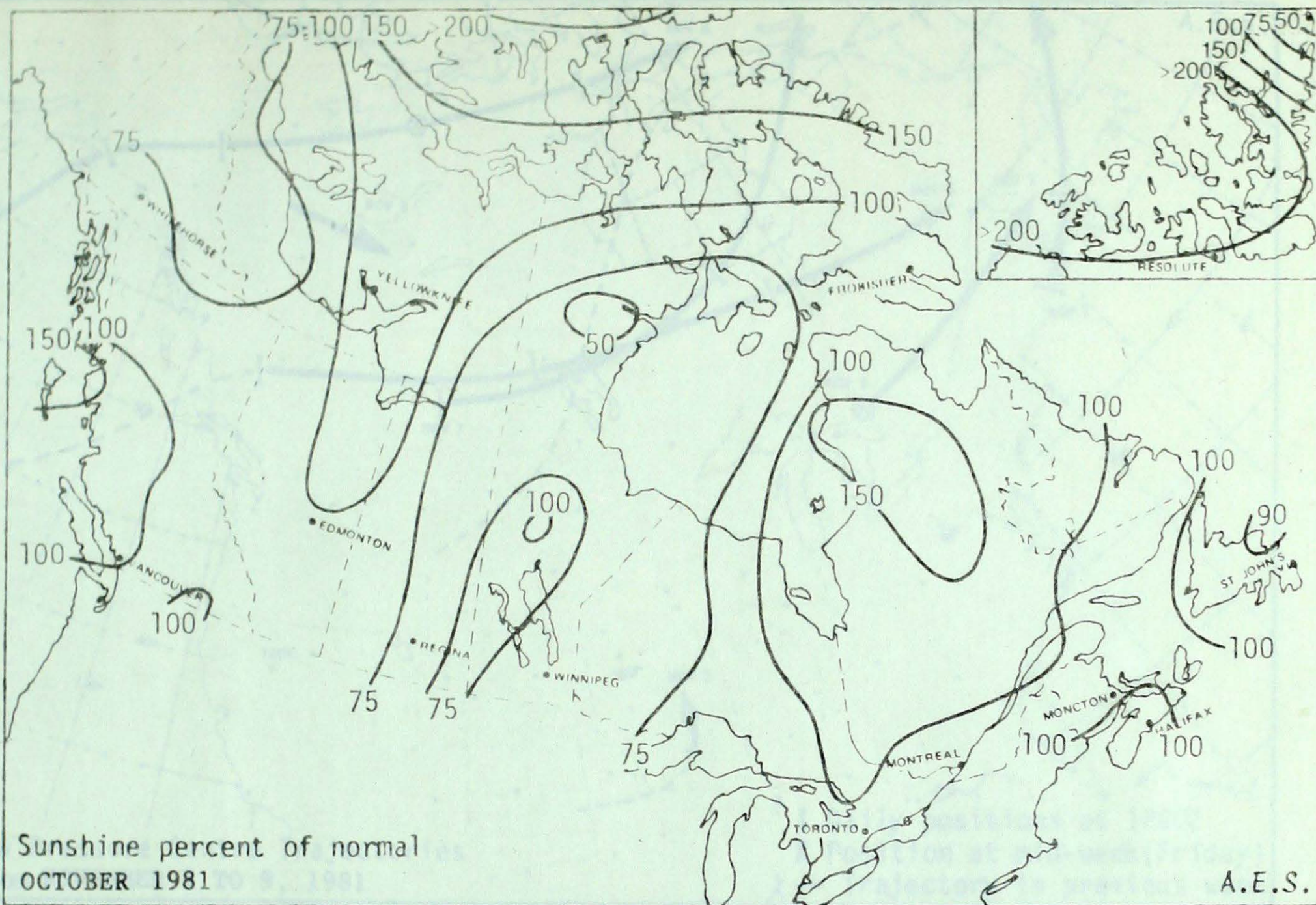
A storm crossing the Atlantic Provinces from the 6th to 8th caused heavy precipitation to fall in some areas. More than one-third of the normal monthly precipitation total was recorded at Halifax in 2 days (62 mm on the 6th and 7th). Goose Bay measured 51.4 cm of wet snow, most of which fell on the 6th. Despite the storm, the majority of stations reported below normal weekly precipitation totals.

HEATING DEGREE-DAY SUMMARY TO NOVEMBER 7, 1981

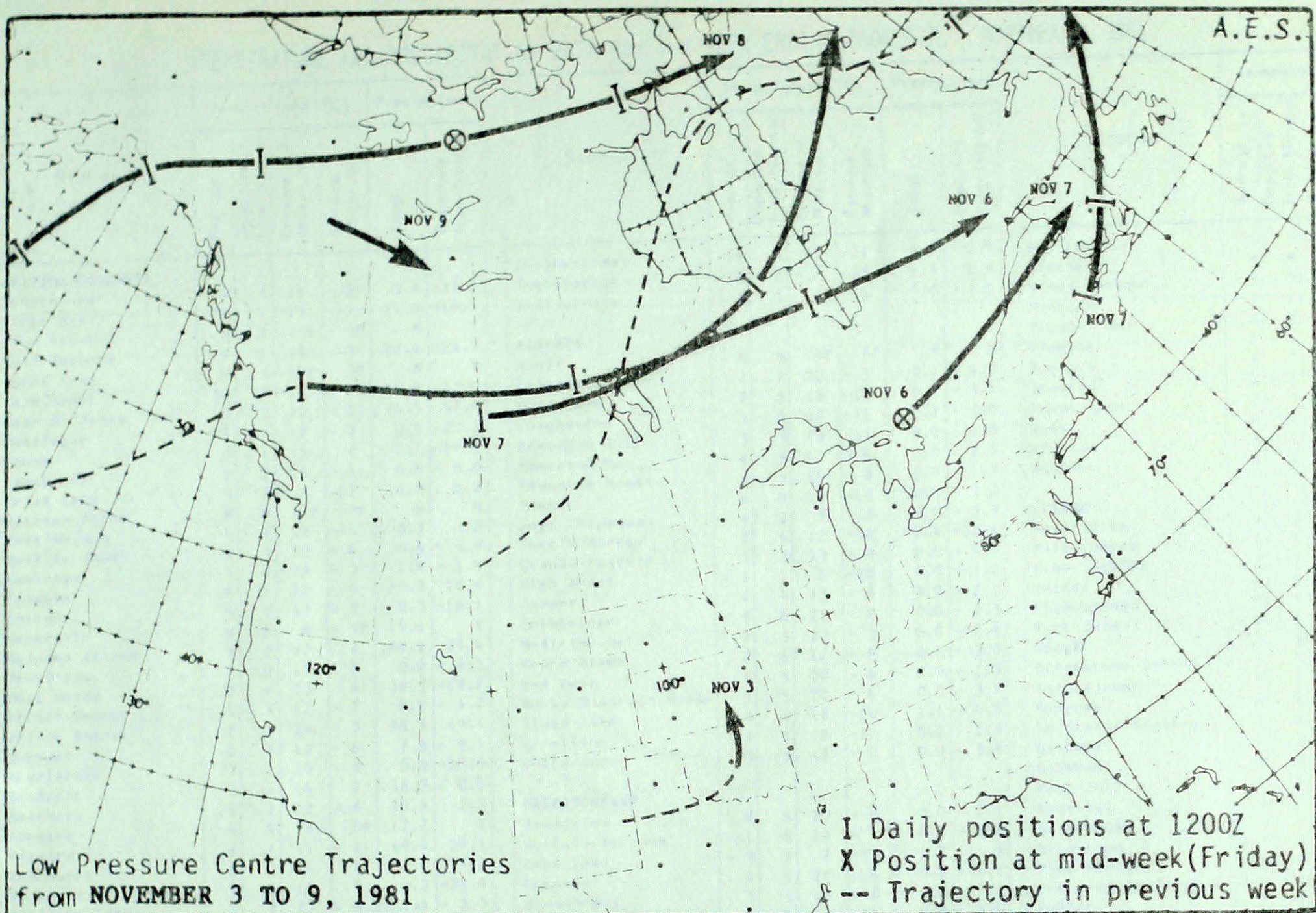


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	215.5	-58.5	2792.5	-83.5	97
Inuvik	255.5	11.5	1877.5	-3.5	100
Whitehorse	159.0	-4.0	1267.5	-40.5	97
Vancouver	64.0	-9.0	480.0	-27.0	95
Edmonton Mun	91.5	-34.5	708.0	-150.0	83
Calgary	75.0	-45.0	792.5	-93.5	89
Regina	87.0	-41.0	709.0	-86.0	89
Winnipeg	76.5	-49.5	668.5	-47.5	93
Thunder Bay	94.5	-19.5	828.0	21.0	103
Windsor	54.5	-15.5	422.0	73.0	121
Toronto	75.5	-5.5	584.5	122.5	127
Ottawa	85.0	-4.0	636.5	96.5	118
Montreal	87.0	0.0	630.5	141.5	129
Quebec	94.5	-10.5	738.0	79.0	112
Saint John, N.B.	88.0	-2.0	682.5	6.5	101
Halifax	80.5	7.5	529.0	33.0	107
Charlottetown	85.0	0.0	589.5	20.5	104
St. John's, Nfld.	100.0	11.0	803.0	4.0	101

LOW PRESSURE SEASONAL MAPS



LOW PRESSURE CENTRE TRAJECTORIES



Atmospheric Circulation

Due to computer problems, the Atmospheric Circulation maps are not available this week. These maps and the corresponding text will be included in the next issue of Climatic Perspectives.

Andy Radomski

CLIMATIC PERSPECTIVES

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. NOVEMBER 10, 1981

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
BRITISH COLUMBIA							Shepherd Bay	-16	5	-11	-21	6.0	4.9	Red Lake	1	4	14	-8	5	
Abbotsford	M	1	16	-2	3.6	-37.3	Tuktoyaktuk	-18	-2	-7	-25	1.3	0.0	Simcoe	M	M	17	-3P	14	
Alert Bay	M	X	10P	-5P	M	X	Yellowknife	-8	1	4	-24	7.0	1.6	Sioux Lookout	3	5	16	-8	2	
Blue River	M	X	10P	-3P	M	X	ALBERTA							Sudbury	3	1	12	-7	11	
Bull Harbour	9	1	13	3	27.4	-24.2	Banff	M	M	14P	-4P	M	M	Thunder Bay	3	2	18	-9	0	
Burns Lake	M	X	10P	-3P	M	X	Calgary	7	7	20	-5	0.0	-4.8	Timmins	0	1	12	-11	16	
Cape Scott	10	3	14	6	42.8	-42.0	Edmonton	2	5	15	-10	0.0	-3.4	Toronto	6	0	15	-5	5	
Cape St James	9	2	12	5	76.5	37.4	Edmonton Int'l	3	4	17	-11	0.0	-2.0	Trenton	4	-1	14	-5	11	
Castlegar	4	1	12	-3	0.0	-20.2	Edmonton Mun	3	5	18	-11	0.0	-1.0	Trout Lake	-2	3	4	-10	5	
Comox	7	1	15	1	2.1	-29.1	Edmonton Nanno	4	5	17	-6	0.0	-2.5	Wawa	M	X	11	-10P	21	
Cranbrook	2	2	18	-8	0.0	-8.0	Edson	4	5	16	-6	0.0	-1.5	Warton	5	1	18	-5	9	
Dease Lake	3	1	7	-12	16.8	8.2	Fort Chipewyan	4	8	16	-10	0.0	-3.2	Windsor	8	2	17	-1	4	
Estevan Point	M	M	12P	3P	M	M	Fort McMurray	-4	2	9	-18	0.0	-5.9	QUÉBEC						
Fort Nelson	-6	1	12	-16	8.3	3.2	Grande Prairie	2	6	12	-10	2.4	-2.4	Bagotville	1	0	11	-8	33	
Fort St John	3	5	12	-6	0.6	-4.9	High Level	3	5	13	-6	0.0	-4.5	Risle Comeau	2	1	7	-8	26	
Kamloops	5	2	18	-3	1.4	-1.9	Jasper	-4	1	8	-20	6.0	1.2	Blanc Sablon	2	1	11	-8	23	
Langara	8	1	12	4	70.3	18.4	Lethbridge	4	4	13	-4	5.0	-2.1	Border	M	M	M	-14P		
Lytton	6	1	17	-2	0.0	-18.1	Medicine Hat	8	6	21	-6	0.0	-3.3	Chibougamau	M	X	9	-11P	13	
Mackenzie	M	X	8	-5P	19.4	X	Peace River	7	5	20	-2	0.0	-2.4	Fort Chimo	-6	0	1	-12	3	
McInnes Island	9	2	12	4	104.2	29.4	Red Deer	2	6	12	-8	0.5	-3.0	Gaspé	3	X	11	-5	25	
Penticton	4	0	15	-5	0.0	-4.3	Rocky Mountain House	4	5	20	-6	0.0	-2.3	Grindstone Island	5	0	11	0	39	
Port Hardy	9	2	13	4	26.5	-19.7	Slave Lake	3	6	16	-10	1.1	-4.5	Inoucdjouac	-5	0	1	-12	16	
Prince George	4	3	12	-7	8.2	-4.7	Vermilion	3	5	18	-12	0.0	-2.8	Koartak	M	X	0P	-8P		
Prince Rupert	7	1	14	-3	98.9	49.4	Whitcourt	3	5	17	-9	0.0	-3.8	La Grande Rivière	-5	X	1	-12	10	
Quamuel	4	3	13	-6	2.8	-8.1	SASKATCHEWAN							Maniwaki	1	-2	15	-10	5	
Revelstoke	3	1	10	-2	0.0	-20.6	Broadview	4	6	20	-8	0.0	-2.1	Matagami	M	X	14	-11P	23	
Sandspit	9	2	14	2	36.2	-0.1	Buffalo Narrows	1	4	12	-9	0.4	-6.6	Mont-Joli	3	1	11	-4	9	
Smithers	2	2	12	-4	10.8	-2.3	Cree Lake	-3	X	7	-13	1.7	X	Montréal	4	-1	14	-5	21	
Stewart	M	X	8	0P	117.7	X	Estevan	4	5	21	-8	0.0	-4.0	Natashquan	2	1	9	-6	89	
Terrace	4	1	11	-1	69.4	29.1	Hudson Bay	3	5	13	-8	0.0	-7.1	Nitchecon	-7	-2	2	-17	15	
Vancouver	8	0	14	1	1.0	27.2	Kindersley	4	5	20	-11	0.0	-1.0	Port Menier	M	M	7P	-5P		
Victoria	7	0	14	1	0.2	-22.0	La Ronge	1	5	13	-13	3.1	-2.7	Poste-de-la-Baleine	-3	-1	2	-11	14	
Williams Lake	3	3	13	-6	1.4	-2.5	Meadow Lake	2	X	16	-10	0.4	X	Québec	3	0	11	-6	23	
YUKON							Moose Jaw	5	6	20	-9	0.0	-2.2	Rivière du Loup	M	M	-10P	-6P		
Burwash	-9	2	2	-22	2.4	-0.9	Nipawin	2	X	13	-8	0.0	X	Roberval	1	0	12	-10	49	
Dawson	M	M	1	-23P	4.8	-2.7	North Battleford	2	4	15	-12	0.0	-2.5	Schefferville	-8	-2	2	-19	3	
Komakuk Beach	-20	-5	-14	-26	0.0	-2.9	Prince Albert	2	4	14	-11	0.0	-3.4	Sept-Îles	-1	-1	5	-8	25	
Mayo	M	M	2	-18P	2.6	-5.4	Regina	3	5	19	-11	0.0	-3.2	Sherbrooke	2	1	14	-7	24	
Shingle Point	-20	-5	-14	-29	3.8	2.3	Rocky Mtn	M	X	19P	-4P	M	X	Ste Agathe des Monts	1	-1	13	-10	23	
Watson Lake	-7	1	8	-17	9.7	0.9	Saskatoon	3	5	15	-9	0.0	-2.5	Val d'Or	-1	-1	13	-12	15	
Whitehorse	-5	0	3	-19	9.8	4.7	Swift Current	5	6	21	-11	0.0	-3.4	NEW BRUNSWICK						
NORTHWEST TERRITORIES							Uranium City	-5	1	4	-16	7.0	1.8	Charlo	3	1	12	-3	22	
Alert	-22	3	-14	-29	0.0	-2.1	Wynyard	4	6	16	-8	0.0	-2.3	Chatham	4	0	14	-4	20	
Baker Lake	-13	4	-3	-19	3.0	0.6	Yorkton	3	5	15	-7	0.0	-5.6	Fredericton	4	0	13	-3	29	
Broughton Island	-10	3	-6	-15	1.0	-13.6	MANITOBA							Moncton	5	0	14	-5	14	
Byron Bay	-18	2	-11	-26	0.5	-0.5	Blissett	3	3	16	-9	2.9	-2.3	St. John	5	0	14	-2	32	
Cambridge Bay	-17	3	-12	-25	0.0	-1.6	Brandon	3	5	17	-9	0.0	-4.3	NOVA SCOTIA						
Cape Dorset	M	X	-1	-15P	M	X	Churchill	-6	2	2	-15	6.1	-5.1	Eddy Point	7	X	16	0	54	
Cape Dyer	-11	1	-3	-25	20.4	4.3	Dauphin	4	6	17	-8	0.0	-5.5	Greenwood	6	0	16	-2	20	
Cape Hooper	-9	5	-5	-14	5.4	-2.8	Gillam	-6	X	3	-18	3.6	X	Sable Island	9	0	16	5	6	
Cape Parry	-12	2	-5	-18	3.6	1.2	Gimli	4	4	17	-7	1.2	-5.0	Shearwater	7	0	14	-1	38	
Cape Young	-13	2	-5	-25	2.8	-0.7	Inland Lake	0	X	8	-8	9.6	X	Sydney	6	0	17	-2	28	
Clinton Point	M	M	-7P	-27	2.8	0.0	Lynn Lake	-5	2	7	-13	10.2	2.6	Truro	M	M	16	-2P		
Clyde	-11	2	-2	-19	10.4	5.6	Norway House	-1	X	9	-10	9.0	X	Yarmouth	8	0	14	-1	24	
Contwoyto Lake	M	M	-2	-22P	1.3	-4.2	Pilot Mound	5	6	18	-10	0.0	-3.1	PRINCE EDWARD ISLAND						
Coppermine	-16	-1	-4	-30	13.8	10.4	Portage la Prairie	5	6	17	-8	0.0	-6.6	Charlottetown	6	1	15	-1	46	
Coral Harbour	-13	2	-2	-22	6.4	1.7	The Pas	1	4	12	-8	2.8	-3.9	Summerside	6	0	14	-2	34	
Dewar Lakes	-11	6	-4	-18	8.8	5.1	Thompson	-6	1	6	-17	3.6	-2.3	NEWFOUNDLAND						
Ennadai	M	M	M	-21P	M	M	Winnipeg	5	6	18	-10	0.2	-6.1	Argentia	7	X	16	-1	35	
Eureka	-20	8	-12	-28	2.0	1.0	ONTARIO							Battle Harbour	1	0	6	-8	29	
Fort Reliance	-7	2	5	-13	2.0	-4.1	Armstrong	2	5	14	-8	0.2	-13.4	Bonavista	6	0	15	-3	9	
Fort Simpson	-10	0	8	-23	6.7	-1.2	Atikokan	3	3	17	-12	0.6	-6.9	Burgeo	5	1	13	-2	26	
Fort Smith	-6	1	5	-22	3.8	-1.2	Earleton	2	1	14	-7	8.0	-7.9	Cartwright	-1	-1	4	-10	32	
Frobisher Bay	-6	4	1	-14	17.0	7.1	Gardton	1	2	13	-8	1.2	-5.5	Churchill Falls	-6	-1	-1	-11	15	
Gladman Point	-17	4	-10	-21	0.0	-0.9	Gore Bay	4	0	12	-4	11.6	-2.5	Comfort Cove	4	1	16	-7	5	
Hall Beach	M	M	-8	-24P	1.3	-1.6	Kapuskaing	0	1	12	-10	12.8	-7.0	Daniel's Harbour	6	2	17	-3	30.5	
Hay River	-5	1	8	-18	6.0	-0.3	Kenora	3	5	14	-8	2.4	-8.0	Deer Lake	4	1	17	-7	12.7	
Inuvik	-21	-4	-13	-29	4.5	1.2	Kingston	5	0	12	-5	22.4	5.9	Gander	4	1	15	-6	5.0	
Jenny Lind Island	-17	3	-11	-24	2.4	1.5	Lansdowne	1	4	12	-9	2.8	-7.3	Goose	-2	-1	3	-8	39.5	
Lady Franklin Point	-12	4	-2	-21	0.0	-1.3	London	6	1	17	-4	14.8	-3.0	Hopedale	M	M	2P	-8	10.7	
Longstaff Bluff	M	M	-3P	-14P	9.0	4.9	Monteone	M	M	13P	-11	0.0	-19.0	Port aux Basques	6	1	12	0	26.1	
Mackay Inlet	-18	2	-13	-24	0.5	-0.9	Mount Forest	M	M	15	-5P	5.0	-12.1	St Albans	M	M	15P	-3P	11.8	
Mould Bay	-24	0	-19	-29	0.0	-0.6	Muskoka	M	M	15	-6P	8.6	-12.4	St Anthony	2	X	11	-8	33.5	
Nicholson Peninsula	-15	0	-5	-25	0.0	-0.7	North Bay	2	0	12	-8	9.8	-11.5	St. John's	5	0	15	-4	40.5	
Norman Wells	-16	-3	-4	-25	5.7	-0.5	Ottawa	4	0	17	-5	20.6	2.1	St. Lawrence	7	2	14	-2	12.8	
Pelly Bay	-18	3	-12	-22	0.0	-0.5	Petawawa	2	X	16	-									