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A WEEKLY REVIEW OF CANADIAN CLIMATE

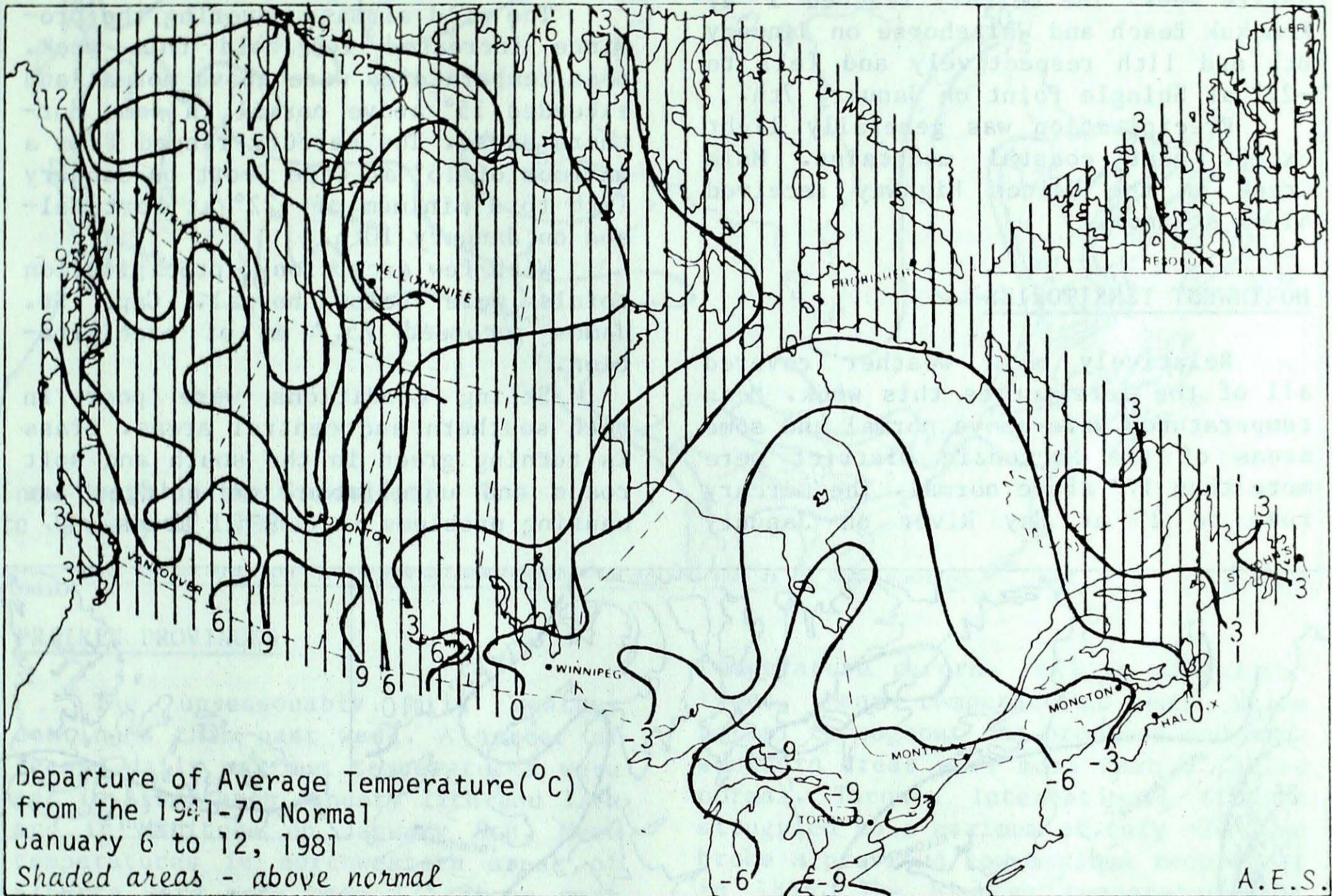
CLIMATIC PERSPECTIVES

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

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VOL.3 NO.2



WEATHER HIGHLIGHTS FOR THE PERIOD - JANUARY 6, 1981 TO JANUARY 12, 1981

East-west temperature contrast increases

With the exceptions of Ontario, Québec and the Maritime Provinces, the country enjoyed relatively mild weather. Mean temperatures over most of B.C. and Alberta were more than 9° above normal and exceeded 18° above normal in the Yukon. Combining operations were reported east of Calgary. Mean temperatures in southern Ontario were more than 9° below normal. Fruit growers in the Niagara Peninsula were concerned about tree damage.

A storm striking Quebec and the Maritime Provinces on January 10th created major transportation problems and resulted in the death of at least three people. Moncton received 40.1 cm of snow from the storm.

Temperatures varied from a maximum of 15° (Cape Scott on January 12th) to a minimum of -45° (Shepherd Bay on January 6th). Cape St. James received a total of 75.7 mm of precipitation for the week.

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

YUKON

A steady stream of warm Pacific air moving north from lower latitudes gave the Yukon above normal temperatures. Central areas enjoyed mean temperatures more than 18° above normal. Whitehorse never saw the mercury drop below the normal daily maximum for the entire week. The mercury reached 3° at Komakuk Beach and Whitehorse on January 8th and 11th respectively and fell to -27° at Shingle Point on January 7th.

Precipitation was generally light except near coastal mountains. Mule Creek on the Haines Highway received 41 cm of snow.

NORTHWEST TERRITORIES

Relatively mild weather covered all of the Territories this week. Mean temperatures were above normal and some areas of the Mackenzie District were more than 17° above normal. The mercury rose to 2° at Hay River on January

11th. The temperature fell to -45° at Shepherd Bay on January 6th.

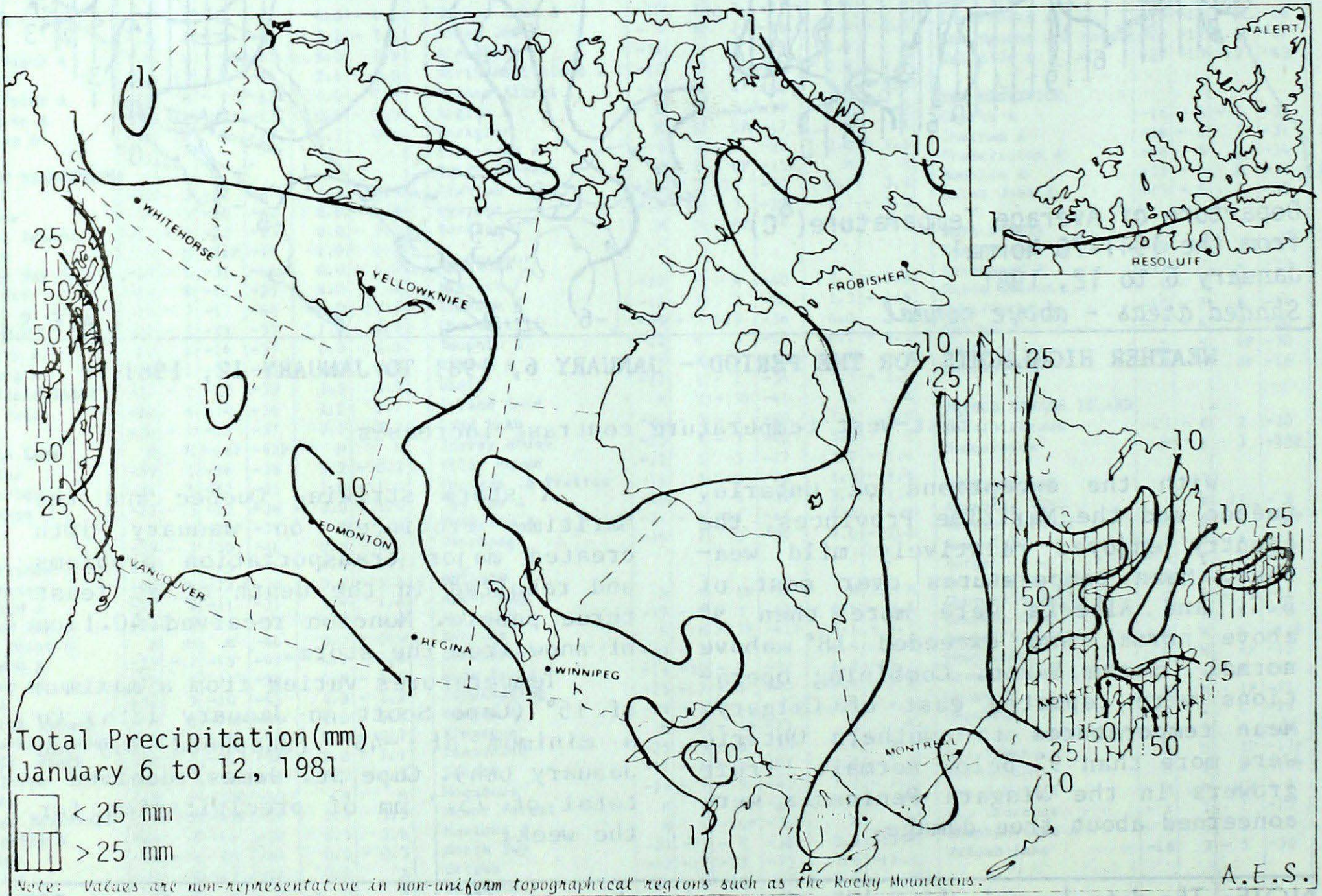
With a few exceptions precipitation totals were below normal. Cape Dyer received 19.0 cm of precipitation.

BRITISH COLUMBIA

The mild airmass covering the province increased its hold this week. Mean temperatures were above normal and exceeded 15° above normal in some northern areas. The mercury ranged from a maximum of 15° at Cape Scott on January 12th to a minimum of -22° at Fort Nelson on January 10th.

With few exceptions, precipitation totals were below normal. Cape St. James recorded 75.7 mm of precipitation.

Skiing conditions were poor in both southern and central areas. Grass is turning green in the south and soft roads and unreliable ice bridges are causing problems in central areas.

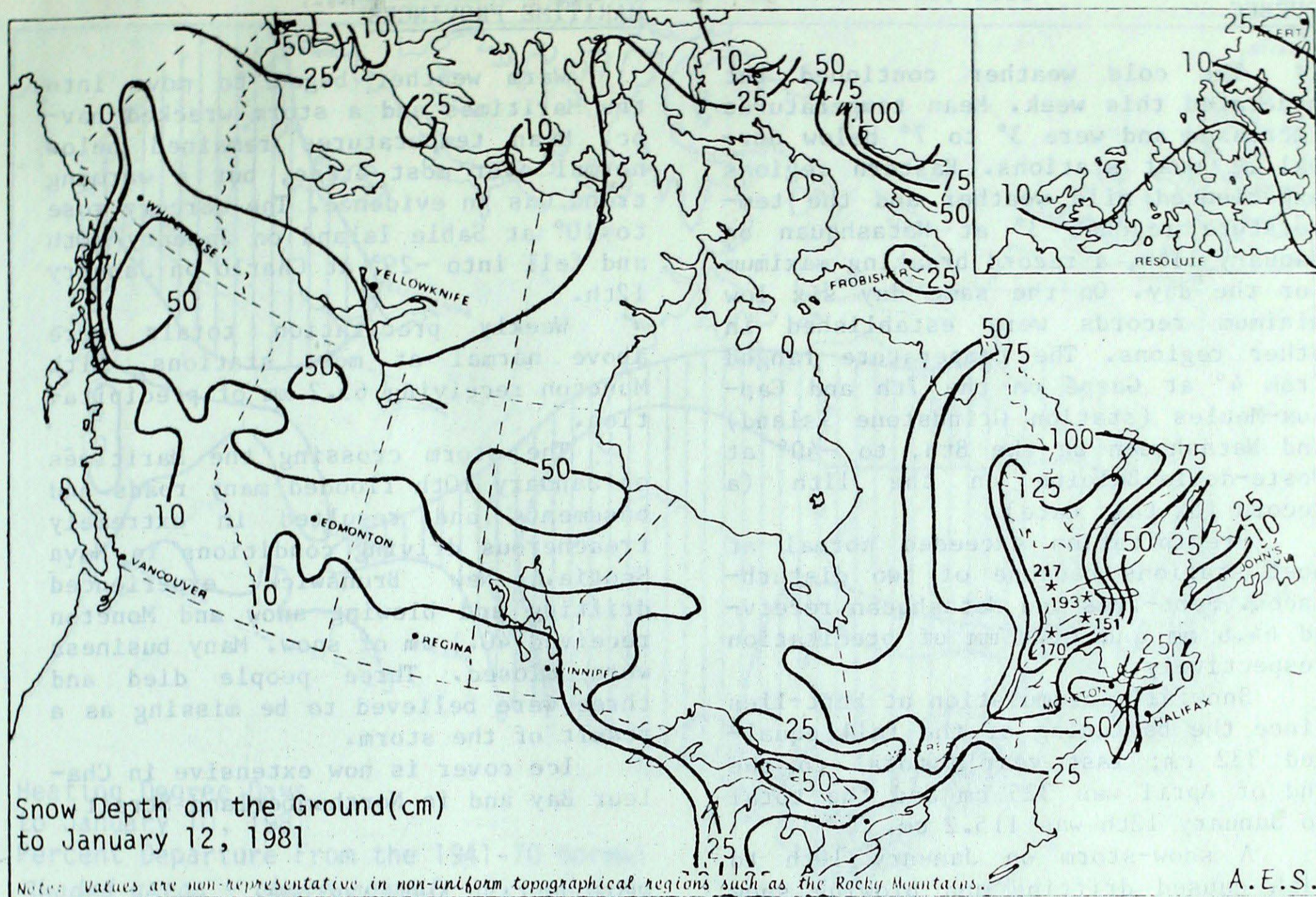


Total Precipitation(mm)
January 6 to 12, 1981

< 25 mm
> 25 mm

Note: Values are non-representative in non-uniform topographical regions such as the Rocky Mountains.

A.E.S.



PRAIRIE PROVINCES

The unseasonably mild weather continued this past week. A number of record daily maximum temperatures were set in Alberta on January 11th and 12th and in Manitoba on January 9th. Mean temperatures in northwestern areas of Alberta were more than 17° above normal. The temperature reached 12° (Calgary on January 12th, Lethbridge on January 11th) and fell to -42° (Thompson on January 7th).

Precipitation was generally light, with most falling in a band from Peace River to Brandon. Slave Lake reported 21.3 mm of precipitation.

The snow cover has disappeared in the area of Calgary south to the border. Combining of last year's crops were reported east of Calgary this past weekend.

ONTARIO

Cold Arctic air continued its domination of Ontario and as a result

temperature records fell in many locations. Mean temperatures were below normal throughout the province and some southern areas were more than 9° below normal. Toronto International Airport struggled to a maximum of only -20° and broke a previous low maximum record set in 1886. The highest temperature for the week was -2° (at Kingston on January 7th) and the lowest -40° (at Moosonee on January 10th).

Precipitation totals were below normal at most stations. Warton recorded a total of 21 mm of precipitation.

Heating degree days are nearly 20% above normal in parts of southern Ontario, causing excessively high heating bills for householders. On the Niagara Peninsula, the extreme minimum temperatures are causing concern over possible damage to the fruit trees. Despite being sheltered by Lakes Ontario and Erie, St. Catharines has been recording temperatures near -25° some mornings.

QUÉBEC

The cold weather continued but moderated this week. Mean temperatures increased and were 3° to 7° below normal at most stations. Eastern regions experienced mild weather and the temperature reached 3° at Natashquan on January 11th, a record breaking maximum for the day. On the same day six low minimum records were established in other regions. The temperature ranged from 4° at Gaspé on the 7th and Cap-aux-Meules (station Grindstone Island) and Natashquan on the 8th, to -40° at Poste-de-la-Baleine on the 11th (a record for this date).

Precipitation exceeded normal at most stations because of two disturbances. Sept-Iles and Natashquan received 64.6 mm and 65.6 mm of precipitation respectively.

Snowfall accumulation at Sept-Iles since the beginning of the fall equalled 332 cm; last year's total to the end of April was 325 cm and the total to January 12th was 115.2 cm.

A snow-storm on January 10th to 11th caused drifting and blowing snow and closed roads in the Gaspé Peninsula. Wind gusts of 85 km/h were recorded at weather stations, with higher values reported unofficially.

The ice has completely interrupted shipping in the St. Lawrence River. There were two ice jams; one at the Jacques Cartier Bridge in Montreal and the other near Sorel. For the first time in 25 years ice invaded Montreal harbour and imprisoned 4 ships. The Franklin was recalled from Newfoundland to help other icebreakers free up the river.

MARITIME PROVINCES

Warm weather began to move into the Maritimes and a storm wrecked havoc. Mean temperatures remained below normal over most areas, but a warming trend was in evidence. The mercury rose to 10° at Sable Island on January 10th and fell into -29° at Charlo on January 12th.

Weekly precipitation totals were above normal at most stations, with Moncton receiving 65.2 mm of precipitation.

The storm crossing the Maritimes on January 10th flooded many roads and basements and resulted in extremely treacherous driving conditions in Nova Scotia. New Brunswick experienced drifting and blowing snow and Moncton received 40.1 cm of snow. Many businesses were closed. Three people died and three were believed to be missing as a result of the storm.

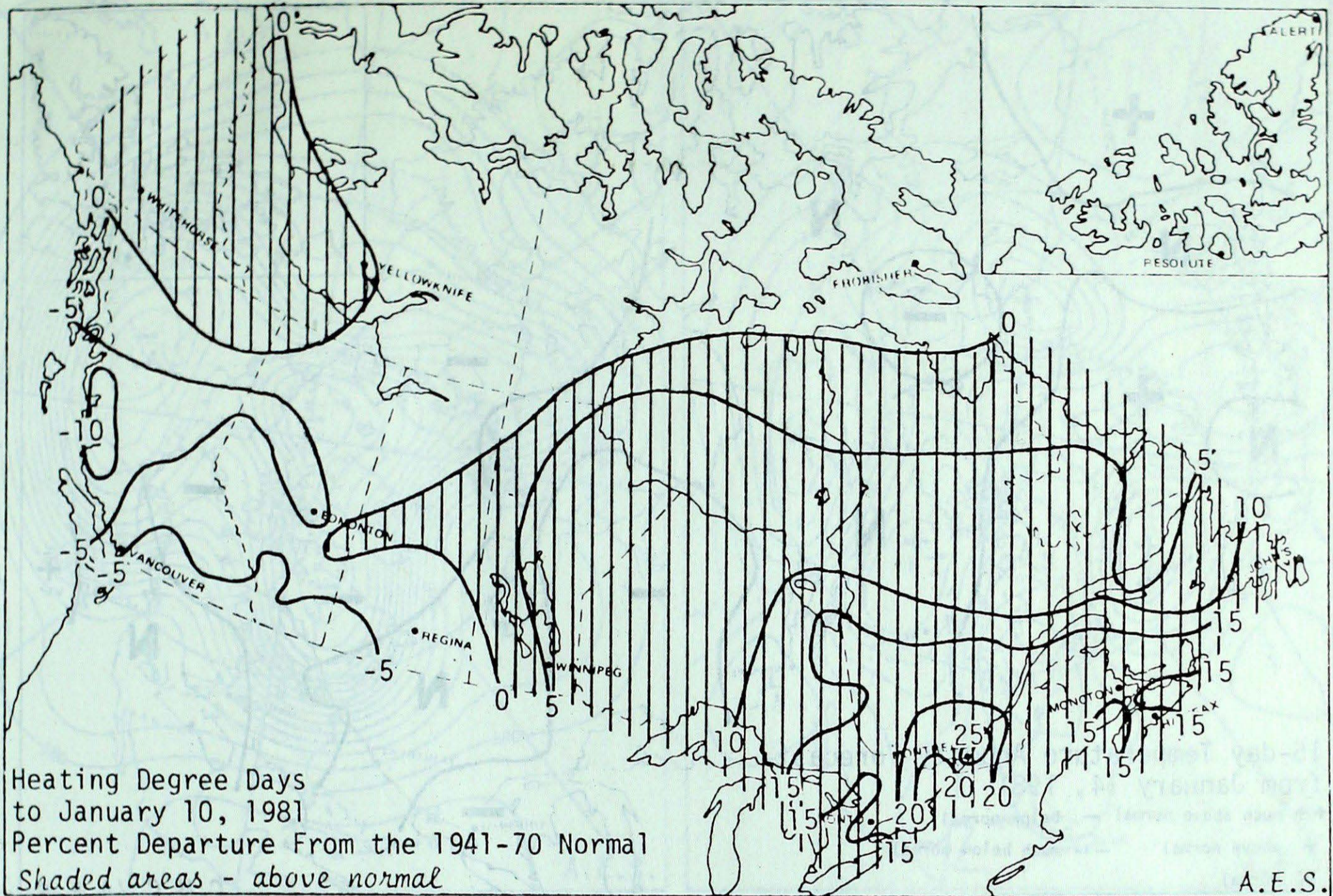
Ice cover is now extensive in Chaleur Bay and in Northumberland Strait.

NEWFOUNDLAND AND LABRADOR

The mild weather continued this week. Mean temperatures over most areas were more than 3° above normal. Some high temperature records were set on January 11th. The mercury ranged from a high of 11° at St. Albans and Argentinia on January 10th and 11th respectively, to a low of -35° at Wabush Lake on January 10th.

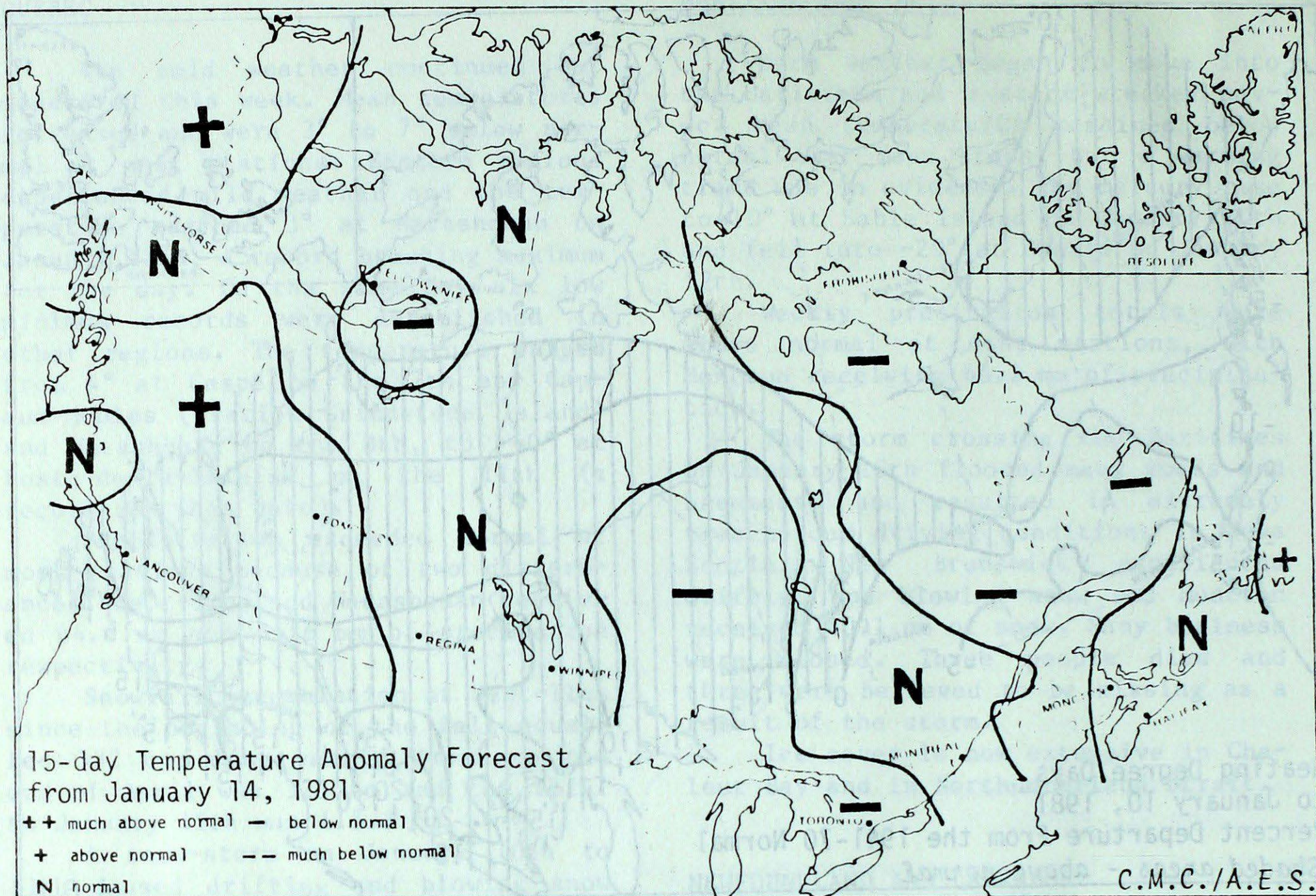
Precipitation totals for the week were close to or below normal at most stations. St. John's recorded 50 mm of precipitation.

HEATING DEGREE-DAY SUMMARY TO JANUARY 10, 1981



STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	496.0	2.0	5785.5	-37.5	99
Inuvik	362.5	-114.5	4477.0	-17.0	100
Whitehorse	209.5	-164.5	3405.0	26.0	101
Vancouver Int'l A	134.5	-18.5	1329.0	-56.0	96
Edmonton Mun A	232.0	-88.0	2455.0	-153.0	94
Calgary Int'l A	183.0	-97.0	2275.5	-182.5	93
Regina	305.0	-45.0	2553.0	-120.0	96
Winnipeg Int'l A	387.0	37.0	2725.5	128.5	105
Thunder Bay	386.5	62.5	2723.5	197.5	108
Windsor	289.0	69.0	1740.0	212.0	114
Toronto Int'l A	323.5	83.5	2016.5	290.5	117
Ottawa Int'l A	375.5	85.5	2429.5	393.5	119
Montreal Int'l A	376.5	96.5	2412.0	494.0	126
Quebec	383.0	96.0	2643.5	446.5	120
Saint John, N.B.	315.5	70.5	2286.5	289.5	114
Halifax	264.5	54.5	1925.5	308.5	119
Charlottetown	304.0	64.0	2149.5	312.5	117
St. John's, Nfld.	212.0	4.0	2190.0	238.0	112

1981 15 DAY TEMPERATURE ANOMALY FORECAST

Forecast Method

Analogue technique based on point prediction at 70 Canadian stations.

Temperature Scale

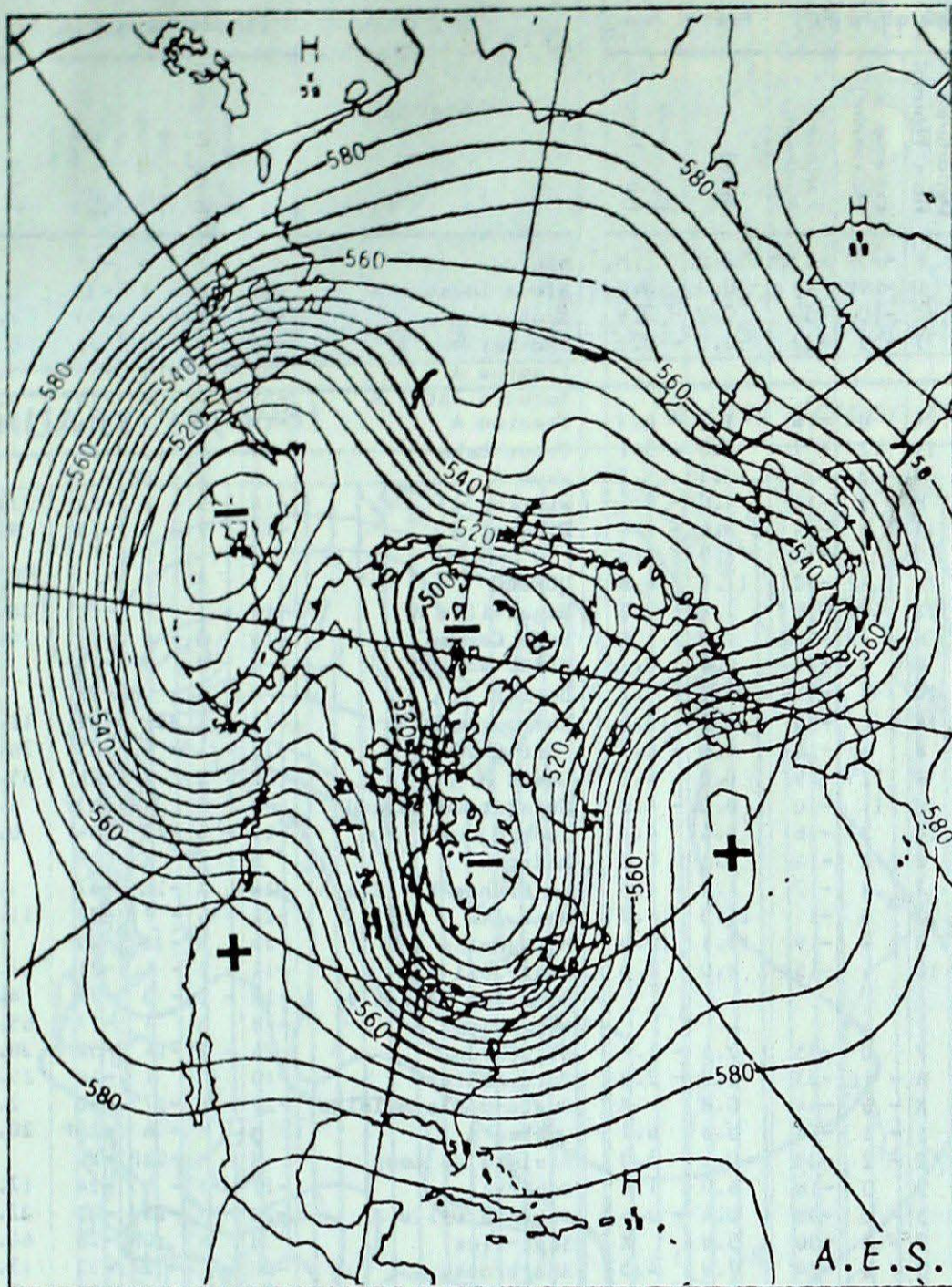
Each temperature class is designed to contain 20% of the historically observed 15 day means pertinent to specific location and time of year:

StationCurrent Temperature Anomaly Forecast

<u>Station</u>		<u>Current Temperature Anomaly Forecast</u>
Whitehorse	Above Normal	From 1.8° to 6.0° above Normal
Victoria	Above Normal	From 0.6° to 2.0° above Normal
Vancouver	Above Normal	From 0.7° to 2.3° above Normal
Edmonton	Above Normal	From 1.5° to 5.0° above Normal
Regina	Near Normal	Within 1.3° of Normal
Winnipeg	Near Normal	Within 1.1° of Normal
Thunder Bay	Below Normal	From 0.9° to 3.0° below Normal
Toronto	Below Normal	From 0.7° to 2.4° below Normal
Ottawa	Near Normal	Within 0.8° of Normal
Montreal	Near Normal	Within 0.8° of Normal
Quebec	Near Normal	Within 0.9° of Normal
Fredericton	Below Normal	From 0.9° to 2.9° below Normal
Halifax	Near Normal	Within 0.7° of Normal
Charlottetown	Near Normal	Within 0.8° of Normal
St. John's	Above Normal	From 0.6° to 2.2° above Normal
Goose Bay	Below Normal	From 1.3° to 4.4° below Normal
Frobisher Bay	Below Normal	From 1.5° to 5.0° below Normal
Inuvik	Above Normal	From 1.3° to 4.3° above Normal

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

Atmospheric Circulation



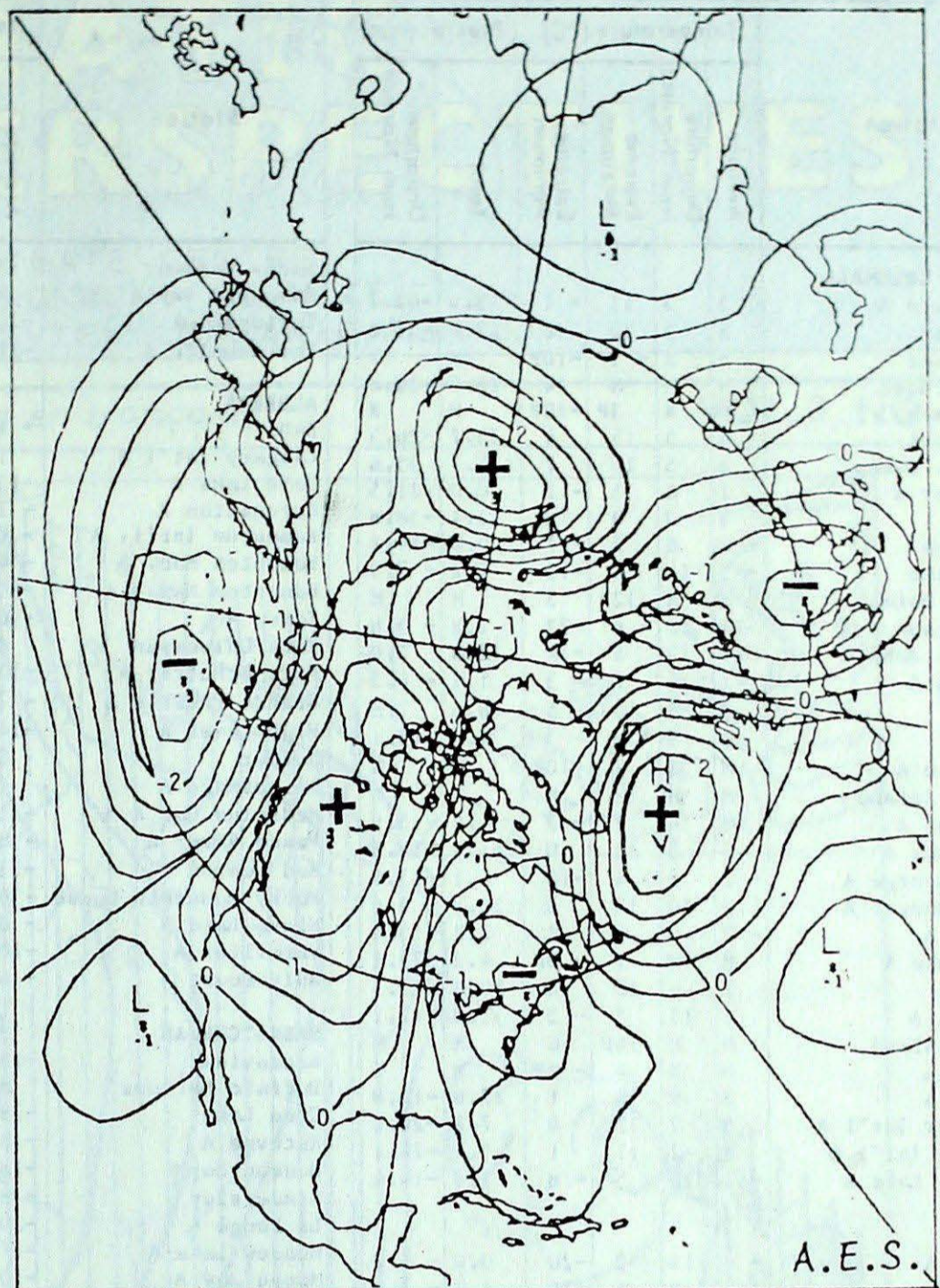
7-day Mean 50 kPa Height Map(in dam)
January 5 to 11, 1981

Anomalous conditions prevailed across the continent.

Positive height anomalies in western Canada were as much as 20 dam above the normal. Negative 50 kPa anomalies continued over Ontario, Quebec and the Maritimes; only Newfoundland in the east had above normal heights for the second week running.

Mean temperatures compared very favourably to the height anomaly pattern. A southwesterly flow of warm Pacific air pushed inland as far north as the Yukon and the western Arctic and throughout the prairie provinces.

Precipitation amounts across most of Canada were generally light, with the exception of both the west and east coasts. A large amplitude ridge effectively blocked most storm systems approaching from the mid Pacific forcing



7-day Mean 50 kPa Height Anomaly
(in 5 dam intervals) January 5 to 11, 1981

them to curve northeastwards and weaken in the Gulf of Alaska. Only extreme coastal areas of British Columbia received any significant precipitation.

The eastern half of the country continued to be influenced by a northwesterly flow of dry, very cold Arctic air. Weak disturbance tracking southeastward deposited only light snowfall amounts. As these systems approached the east coast, they came in phase with the stationary long-wave trough in the vicinity of the Great Lakes Basin, at the same time, tapping the large relatively warm moisture source of the Atlantic ocean. With both good thermal and dynamic support major development occurred. On several occasions this past week vigorous storms tracked through the Atlantic Provinces bringing with them high winds, heavy snows and rain.

Andy Radomski

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. JANUARY 13, 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							Sachs Harbour	M	M	-15P	-33P	M	M	Simcoo	-11	-6	-4	-21	M	M
Abbotsford A	5	3	11	-1	5.0	-42.1	Shepherd Bay A	M	M	-19P	-45	0.0	0.0	Stouxt Lookout A	-21	-3	-9	-33	0.0	-7.7
Alert Bay	8	5	12	2	22.0	-31.6	Tuktoyaktuk	-20	10	-10	-30	0.0	-0.9	Sudbury A	-21	-6	-6	-33	7.1	-6.3
Blue River	M	X	-1P	-10P	M	X	Yellowknife A	-21	7	-9	-32	3.0	-0.2	Thunder Bay A	-18	-4	-6	-33	0.4	-8.7
Bull Harbour	M	M	M	4	28.3	-30.8	ALBERTA							Timmins A	-24	-5	-9	-39	3.8	-9.9
Burns Lake	M	X	3P	-10P	M	X	Banff	-6	4	0	-18	1.2	-0.1	Toronto Int'l A	-15	-8	-4	-26	3.3	-7.4
Cape Scott	8	5	15	4	35.7	-26.5	Calgary Int'l A	-1	11	12	-7	0.0	-3.1	Trenton A	-18	-10	-3	-34	17.4	9.9
Cape St. James	8	5	10	7	75.7	35.6	Cold Lake A	-13	7	-2	-24	10.1	5.2	Trout Lake	-24	-1	-13	-32	1.8	-4.8
Castlegar A	1	6	5	-2	0.0	-21.5	Coronation A	-7	8	2	-15	4.0	-0.2	Wawa A	M	X	-6P	-35P	M	X
Comox A	5	3	9	0	13.4	-38.8	Edmonton Int'l A	-6	13	5	-14	3.6	-1.4	Warton A	-16	-9	-3	-33	21.0	4.2
Cranbrook	-4	8	3	-7	0.0	-14.2	Edmonton Mun. A	-4	10	7	-12	7.9	3.3	Windward A	-12	-7	-3	-19	9.1	-1.2
Dease Lake	-5	16	5	-15	0.2	-7.9	Edmonton Namao A	-5	12	4	-12	11.6	6.8	QUÉBEC						
Estevan Point	M	M	12P	3	M	M	Edson A	-6	12	9	-19	2.4	-3.8	Bagotville A	-17	-1	-7	-29	28.3	15.6
Fort Nelson A	-14	10	-6	-22	1.8	-5.8	Fort Chipewyan	M	M	-1P	-30P	M	M	Bele Comeau	-14	0	-4	-29	24.7	8.4
Fort St. John A	-4	13	6	-14	12.0	3.0	Fort McMurray A	-13	8	4	-25	6.8	0.7	Blanc Sablon	M	M	3P	-19	M	M
Kamloops A	1	6	7	-3	1.1	-6.5	Grande Prairie A	-7	10	2	-19	5.2	-3.2	Border	M	M	-6P	-29	M	M
Langara	8	5	10	5	46.6	7.8	High Level A	-14	18	-2	-25	2.7	-3.8	Chibougamau	-23	X	-11	-32	12.5	X
Lytton	2	9	8	-3	1.8	-13.1	Jasper	-3	8	6	-11	0.6	-8.2	Fort Chimo A	-22	-1	-4	-35	26.1	13.3
Mackenzie A	M	X	2	-10P	M	X	Lethbridge A	1	9	12	-9	0.0	-4.3	Gaspé A	M	X	4P	-28	55.8	X
McInnes Island	M	M	M	M	M	M	Medicine Hat A	-1	10	11	-10	0.0	-4.8	Grindstone Island	M	M	4P	-13P	4.3	-17.9
Penticton A	3	4	7	-3	1.4	-5.9	Peace River A	-8	14	3	-16	9.4	4.3	Inouéjouac	-27	-4	-20	-34	0.2	-1.7
Port Hardy A	7	5	13	0	41.4	-18.9	Red Deer A	-7	8	2	-14	3.6	0.3	Koartak	M	X	M	M	M	X
Prince George A	-2	8	4	-10	4.1	-13.1	Rocky Mountain House	-6	7	8	-17	1.4	-2.5	La Grande Rivière A	-28	X	-16	-37	3.4	X
Prince Rupert A	8	10	14	2	59.9	6.6	Slave Lake A	-8	13	5	-21	21.3	14.2	Maniwaki	-20	-6	-7	-32	11.8	1.6
Quesnel A	-2	9	5	-7	2.2	-13.4	Vermilion A	-10	8	0	-19	15.1	10.9	Matagami A	-25	X	-8	-39	M	X
Revelstoke A	M	M	1	-9P	4.2	-23.1	Whitecourt	-6	10	6	-15	8.0	1.3	Mont-Joli A	-14	-2	-4	-21	61.0	40.4
Sandspit	7	6	10	3	50.6	13.3	SASKATCHEWAN							Montréal (A Int.)	-18	-7	-3	-28	8.0	-6.7
Smithers A	1	11	5	-2	2.0	-12.1	Broadview	-15	7	0	-35	2.5	-1.4	Natashquan A	-8	3	4	-17	65.6	46.1
Spring Island	M	M	14P	6	M	M	Buffalo Narrows	M	M	-1P	-33	2.2	-2.9	Nitchecon	-24	-2	-14	-32	20.0	12.4
Stewart A	M	X	4	-2P	M	X	Cree Lake	-23	X	-6	-44	0.8	X	Port Menier	-10	0	1	-18	29.1	12.5
Terrace A	3	9	6	1	27.6	-10.0	Estevan A	-13	1	-1	-26	8.8	6.1	Poste-de-la-Baleine	-27	-6	-17	-40	2.3	-4.8
Vancouver Int'l A	5	2	12	0	7.2	-26.3	Hudson Bay	-18	2	-2	-35	0.2	-5.3	Québec A	M	M	-6	-29P	20.3	2.5
Victoria Int'l A	6	2	11	1	5.4	-24.1	Kindersley	-8	9	0	-16	6.0	1.8	Rivière du Loup	M	M	-12P	-24	M	M
Williams Lake A	-1	10	5	-8	1.3	-14.4	La Ronge A	-20	5	0	-38	0.4	-3.4	Roberval A	-17	-1	-9	-24	17.9	1.5
YUKON							Meadow Lake A	-17	X	-2	-36	5.8	X	Schefferville A	-23	-1	-15	-33	37.1	28.4
Burwash A	-8	19	2	-20	0.0	-4.2	Moose Jaw A	-10	3	2	-24	7.9	4.5	Sept-Îles	M	M	0P	-28	64.6	44.3
Dawson A	-11	18	-1	-24	4.2	-1.9	Nipawin A	-18	X	-3	-33	0.0	X	Sherbrooke A	-20	-7	-2	-32	13.4	1.5
Komakuk Beach A	-16	10	3	-25	0.0	-0.1	North Battleford A	-14	3	0	-26	11.2	6.7	St. Agathe des Monts	-21	-5	-6	-32	13.6	-4.9
Mayo A	-8	19	2	-23	0.8	-7.1	Prince Albert	-21	-1	-5	-35	1.8	-2.7	Val d'Or A	-22	-5	-8	-36	10.8	-4.9
Shingle Point A	-16	10	-1	-27	0.0	-2.6	Regina A	-14	2	-2	-27	4.4	1.6	NEW BRUNSWICK						
Watson Lake A	-14	11	-6	-25	5.8	-3.8	Rockyglon	M	X	-1P	-14	M	X	Charlo A	-15	0	-1	-29	29.8	14.5
Whitehorse A	-4	15	3	-15	3.2	-1.5	Saskatoon A	-14	4	-1	-30	5.9	1.0	Chatham A	-14	-4	3	-25	34.2	11.0
NORTHWEST TERRITORIES							Swift Current A	-5	8	4	-16	M	M	Fredericton A	-13	-4	5	-28	45.2	23.7
Alert	-33	0	-25	-38	1.9	0.3	Uranium City	-22	6	-7	-36	4.9	-2.6	Moncton A	-11	-3	7	-21	65.2	39.4
Baker Lake	-27	6	-15	-36	0.3	-0.7	Wynyard	-14	8	0	-32	2.0	-2.9	Saint John A	-12	-4	5	-24	36.0	4.9
Broughton Island	-22	0	-15	-30	2.6	2.0	Yorkton A	-17	1	-1	-30	2.0	-3.0	NOVA SCOTIA						
Byron Bay	-23	10	-10	-36	5.0	5.0	MANITOBA							Eddy Point	-5	X	6	-16	37.7	X
Cambridge Bay A	-26	8	-13	-37	0.0	-1.1	Bissett	-22	1	-6	-35	0.4	-6.7	Greenwood A	-8	-3	8	-15	61.1	33.8
Cape Dorset	-22	X	-14	-36	4.2	X	Brandon A	-18	0	-4	-30	1.3	-1.7	Sable Island	1	1	10	-6	37.6	4.7
Cape Dyer A	-22	0	-13	-36	19.0	1.8	Churchill A	-24	2	-16	-34	0.6	-2.8	Shearwater A	-5	-1	7	-14	51.1	15.8
Cape Hooper	-22	2	-17	-27	5.4	4.2	Dauphin A	-16	2	1	-27	0.4	-4.8	Sydney A	-4	0	7	-18	13.6	-17.6
Cape Parry A	-20	10	-8	-32	0.0	-0.8	Gillam A	-24	X	-14	-38	0.8	X	Truro	M	M	8	-14P	M	M
Cape Young A	-21	10	-7	-35	2.5	2.0	Glennie	-19	-1	-5	-30	0.5	-5.8	Yarmouth A	-5	-2	1	-10	62.3	28.2
Chesterfield Inlet	-29	3	-13	-36	0.3	-1.4	Island Lake	-22	X	-13	-35	M	X	PRINCE EDWARD ISLAND						
Clinton Point	-17	12	-3	-31	1.0	0.5	Lynn Lake	-23	5	-6	-38	2.8	-0.9	Charlottetown	-9	-2	6	-18	30.5	3.4
Clyde	-23	3	-13	-30	2.0	-0.8	Norway House	-23	X	-10	-38	2.0	X	Summerside	M	M	6P	-19	14.6	-9.6
Contwoyto Lake	-26	7	-14	-37	M	M	Pilot Mound	-17	0	-3	-28	1.2	-3.8	NEWFOUNDLAND						
Coppermine	-21	9	-7	-35	0.6	-1.8	Portage la Prairie	-16	1	0	-26	1.0	-4.9	Argentia VTMS	0	X	11	-11	37.8	X
Coral Harbour	-26	4	-16	-35	0.4	-1.8	The Pas A	-20	1	-3	-35	0.0	-5.7	Battle Harbour	M	M	1P	-13	4.0	-10.1
Dewar Lakes	-25	1	-13	-34	0.0	-1.2	Thompson A	-24	4	-10	-42	1.1	-3.3	Bonavista	-2	1	6	-10	24.2	-1.2
Ennadai	M	M	-17P	-36	M	M	Winnipeg	-19	-1	-5	-29	0.2	-3.8	Burgeo	-1	4	6	-9	32.7	5.5
Eureka	-34	2	-23	-42	4.4	4.0	ONTARIO							Cartwright	-8	4	5	-18	24.8	4.6
Fort Reliance	-23	6	-11	-37	3.8	0.5	Armstrong	-23	-3	-9	-36	1.0	-7.2	Churchill Falls A	-18	4	2	-32	22.4	5.0
Fort Simpson	-14	17	-2	-25	6.9	3.0	Atikokan	-21	-1	-8	-34	1.3	-8.2	Comfort Cove	-4	5	9	-15	19.7	3.9
Fort Smith A	-17	9	-1	-30	3.0	-1.6	Earlton	M	M	-6P	-36	M	M	Daniel's Harbour	-2	4	9	-9	5.0	-14.1
Frobisher Bay A	-23	1	-8	-32	9.3	4.0	Geraldton	-24	-2	-10	-35	0.8	-9.1	Deer Lake	-4	6	7	-16	12.1	-2.1
Gladman Point A	-28	6	-17	-42	0.0	-0.7	Gore Bay A	-18	-9	-4	-31	7.9	-3.1	Gander Int'l A	-4	2	8	-14	20.4	-4.2
Hall Beach A	-28	2	-16	-40	3.0	0.9	Kapuskasing	-24	-6	-10	-37	3.8	-7.0	Goose A	-13	3	5	-27	24.1	9.6
Hay River A	-14	12	2	-31	2.0	-4.1	Kenora A	-20	-3	-6	-29	0.4	-5.7	Hopedale	-13	2	4	-25	19.5	7.9
Inuvik A	-17	15	-3	-25	0.0	-3.7	Kingston	-17	-7	-2	-29	M	M	Port aux Basques	M	M	5	-9P	13.4	-18.1
Jenny Lind Island	M	M	-15P	-38	1.0	-0.1	Lansdowne	-23	0	-11										