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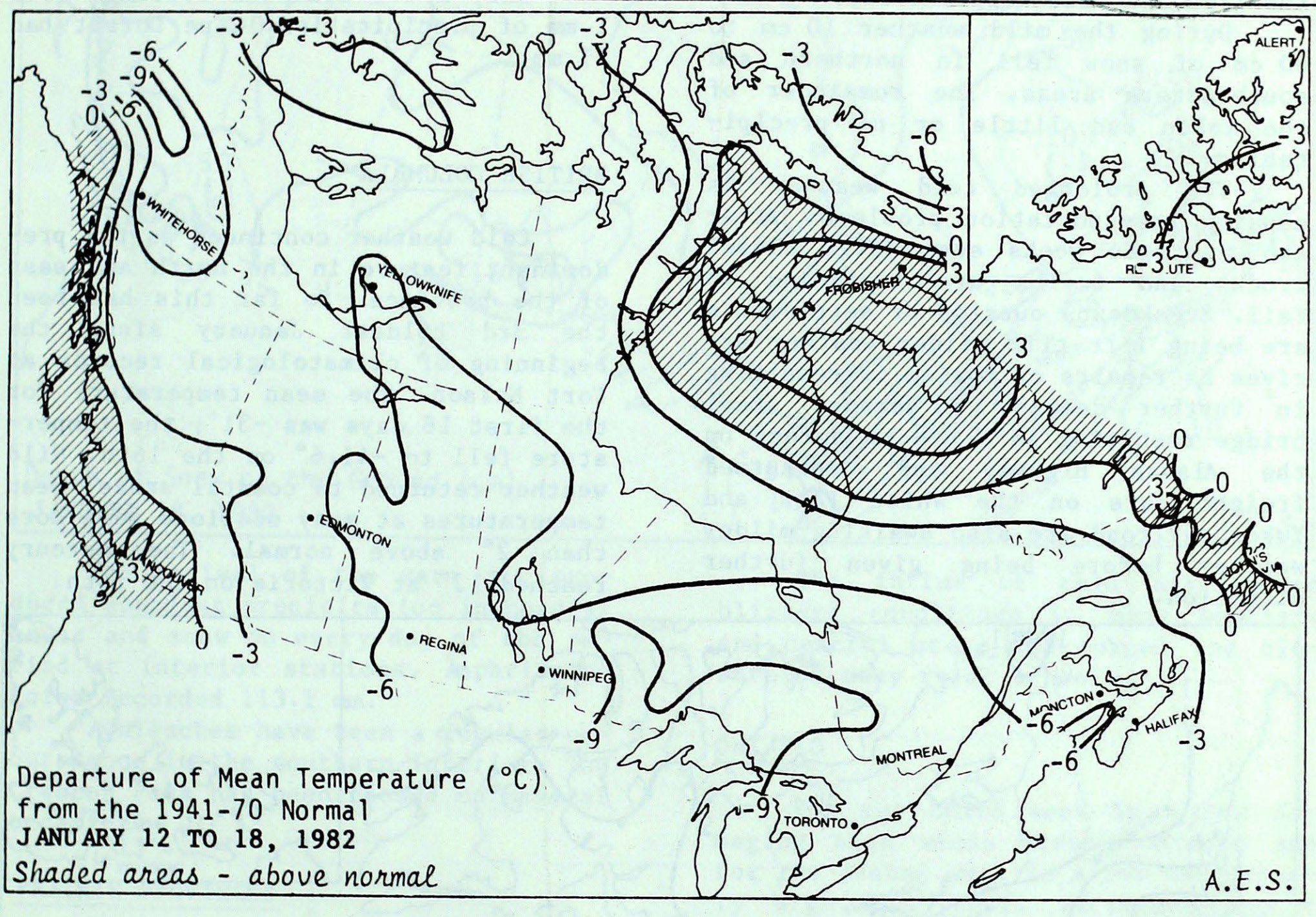
A WEEKLY REVIEW OF CANADIAN CLIMATE

CLIMATIC PERSPECTIVES

Canada

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

JANUARY 22, 1982 VOL.4 NO. 2



Departure of Mean Temperature (°C)
from the 1941-70 Normal
JANUARY 12 TO 18, 1982
Shaded areas - above normal

WEATHER HIGHLIGHTS FOR THE PERIOD - JANUARY 12 TO 18, 1982

The cold persists

With the exception of some brief mild air incursions, the cold kept its grip on most of the areas of Canada. The cold wave spread to include the Atlantic provinces. A storm on the 15 literally paralyzed the area; schools were closed for 4 days in Nova Scotia and New Brunswick. The temperature fell to -30.4° at Charlottetown, an all time record at this station.

Winds hit eastern Canada and produced severe wind chill factors. A power outage forced the evacuation of some 2000 people without heating in Wabush Lake.

The temperature fluctuated between the maximum of 12° recorded at Victoria B.C. and the minimum of -50° recorded at Pond Inlet, N.W.T. The precipitation totaled 113.1 mm at Amphitrite Point, B.C.

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

YUKON

Temperatures had finally risen 20° to 30° to reach near normal values on January 12th and 13th over all but extreme northern areas, but another influx of cold air brought temperatures tumbling back to 15° to 25° below normal by January 15th. Temperatures fell to -48° at both Mayo and Watson Lake on the 17th and 18th respectively.

During the mild weather 10 cm to 60 cm of snow fell in northern and southeastern areas. The remainder of the Yukon had little or no precipitation.

The prolonged cold weather is causing transportation problems. After two to three weeks even large diesel trucks and trains are beginning to fail. Breakdowns outside of settlements are being left till milder weather arrives as repairs or towing is resulting in further damage. A damaged steel bridge resulting in a 200 km detour on the Alaska Highway and overturned freight cars on the White Pass and Yukon railroad are also awaiting milder weather before being given further attention.

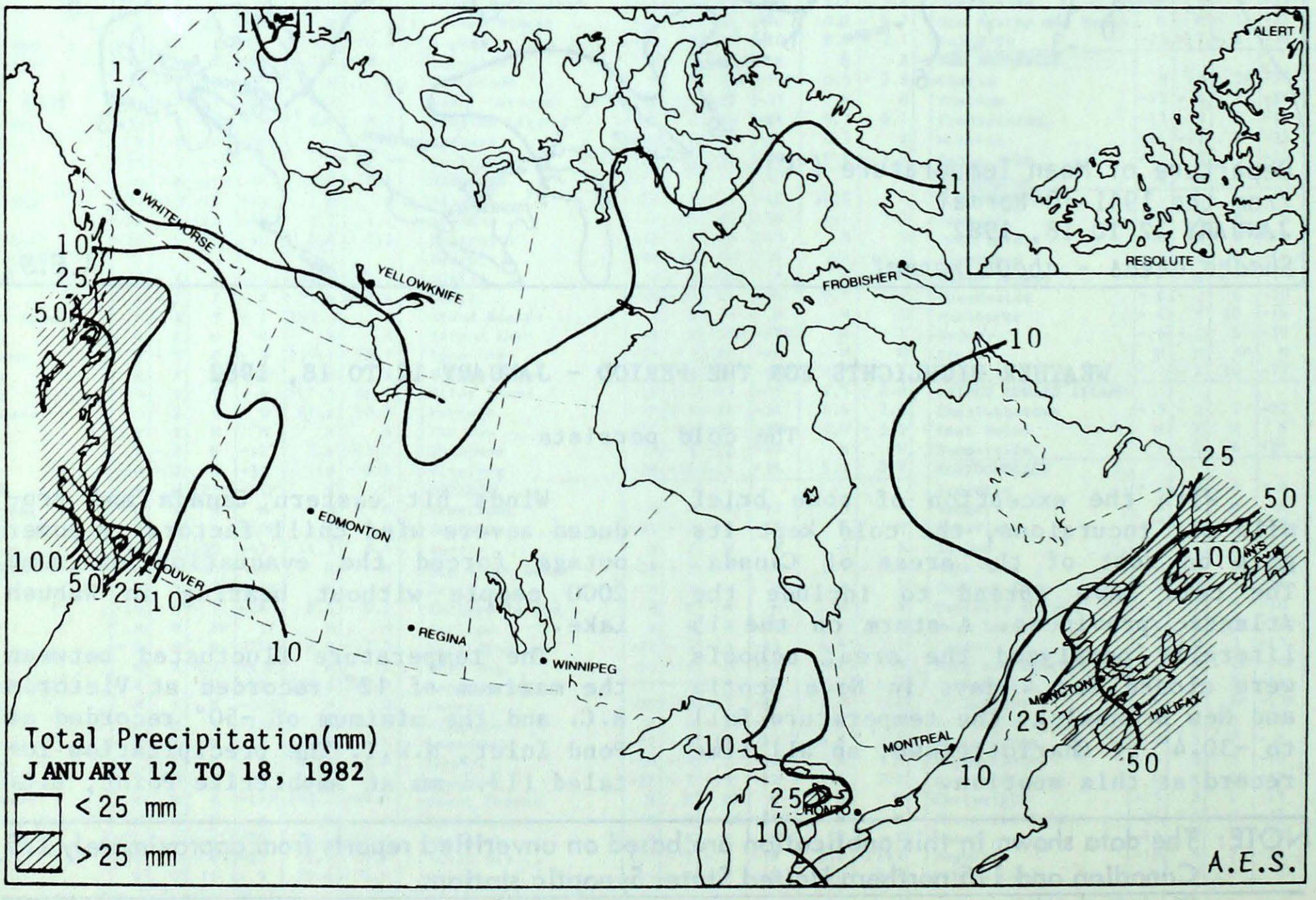
NORTHWEST TERRITORIES

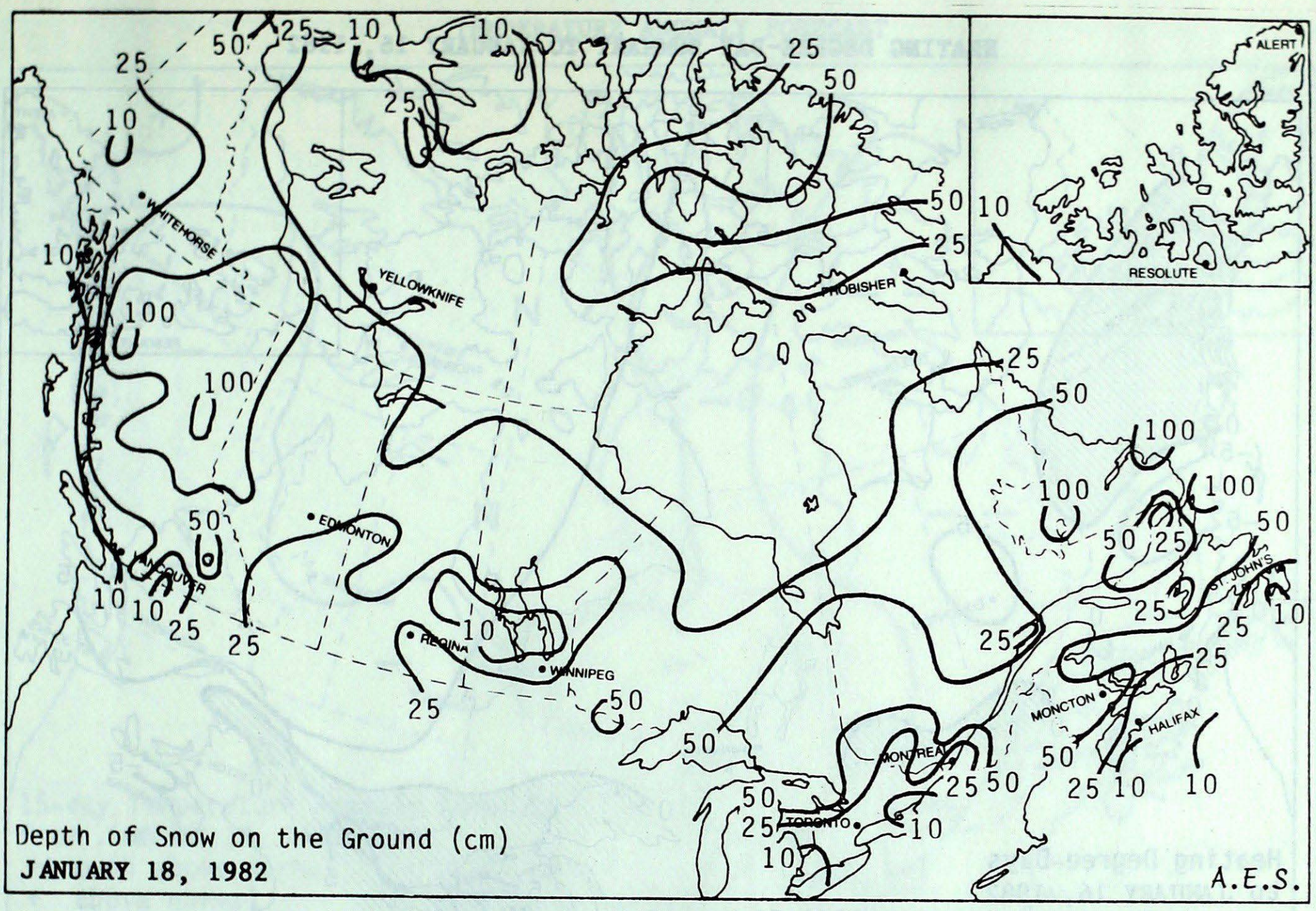
For the first time in many weeks, mean temperatures were below normal throughout most of the Territories. Only the north-eastern Keewatin District and southern Baffin Island recorded above normal mean temperatures. The mercury reached -10° at Cape Dorset and fell to -50° at Pond Inlet.

Only a few stations recorded over 1 mm of precipitation. Cape Dorset had 11 mm.

BRITISH COLUMBIA

Cold weather continued as the predominant feature in the north and east of the province. So far this has been the 3rd coldest January since the beginning of climatological records at Fort Nelson. The mean temperature for the first 18 days was -31°; the temperature fell to -41.6° on the 16th. Mild weather returned to coastal areas; mean temperatures at many stations were more than 2° above normal. The mercury reached 12° at Victoria on the 14th.





Depth of Snow on the Ground (cm)
JANUARY 18, 1982

A.E.S.

The arrival of the warm air produced abundant precipitation in coastal areas and snow on every day of the period at interior stations. Amphritrite Point recorded 113.1 mm.

Avalanches have been a regular occurrence in the southern Interior. The Creston Pass has been closed on several occasions.

PRAIRIE PROVINCES

A surge of mild air on the 13th and 14th brought temperatures above the freezing point for the first time in several weeks in southern and west-central Alberta and in southern Saskatchewan. These mild conditions came to an abrupt end, however, as cold air once again moved rapidly southward. As a result, temperatures varied from 7° at Calgary on the 13th to -46° at Uranium City on the 16th.

Rain or freezing rain fell within the warmer airmass and resulted in extremely treacherous highway conditions. Grande Prairie recorded the greatest precipitation total, 16.8 mm.

The influx of cold air caused blizzard conditions in many southern and central areas and forced the closure of many rural schools.

ONTARIO

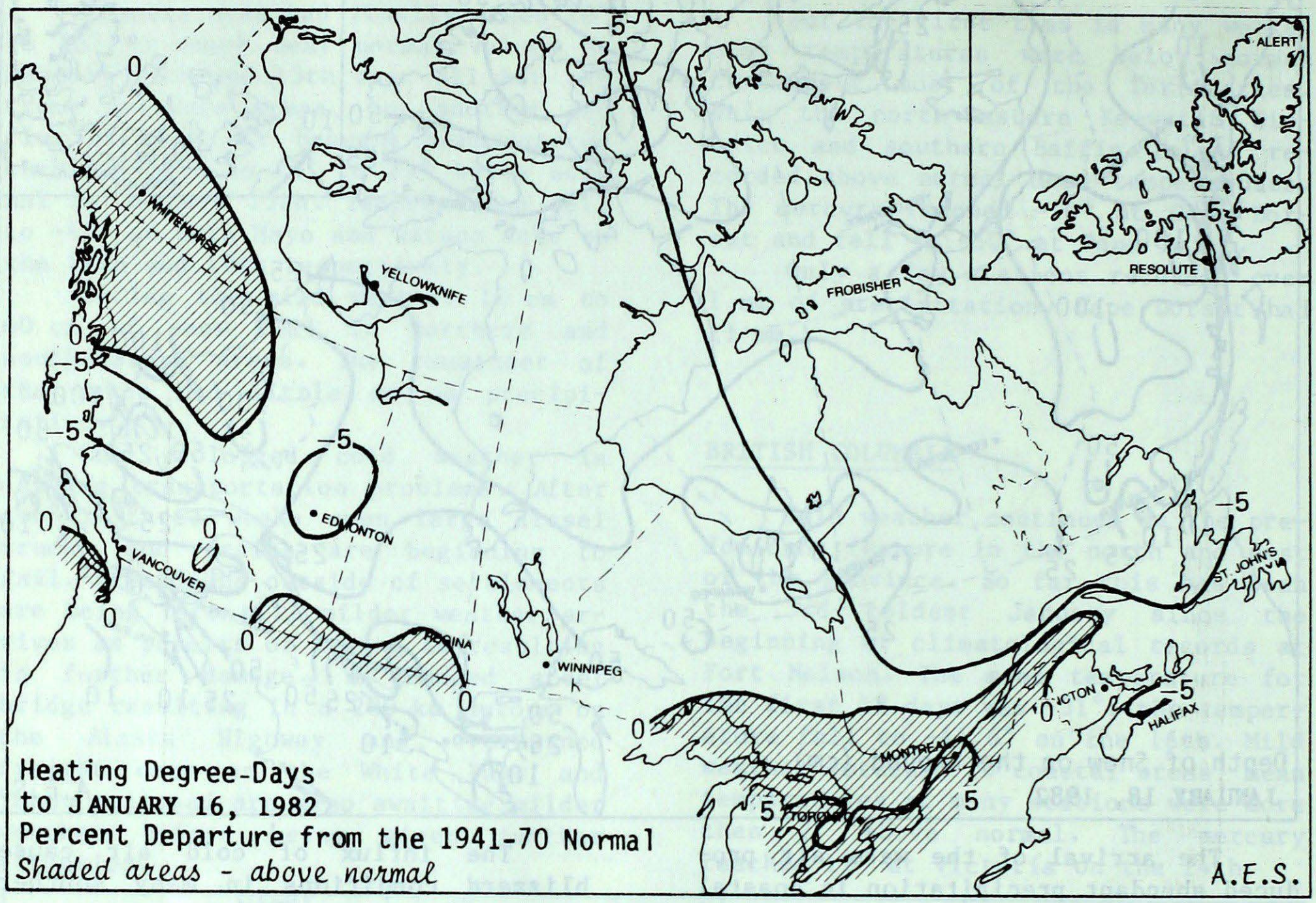
For the third week in a row damaging high winds struck Ontario and for the second week in a row dangerously high wind chill factors prompted warnings not to venture outside unless absolutely necessary. On January 16th and 17th, winds gusting to 70 km/hr, and temperatures in the -20's in the South brought wind chill factors rivalling those of last weekend.

In the North, temperatures fell to the -40's on the mornings of January 17th and 18th. Geraldton fell to -47 on January 18th setting a record minimum for the day and Kapuskasing's minimum of -45° shattered the daily mark set in 1934.

Meanwhile the extreme cold gave Toronto the lowest maximum for any January 18th in 142 years of record, as the high read a meagre -16.6°C.

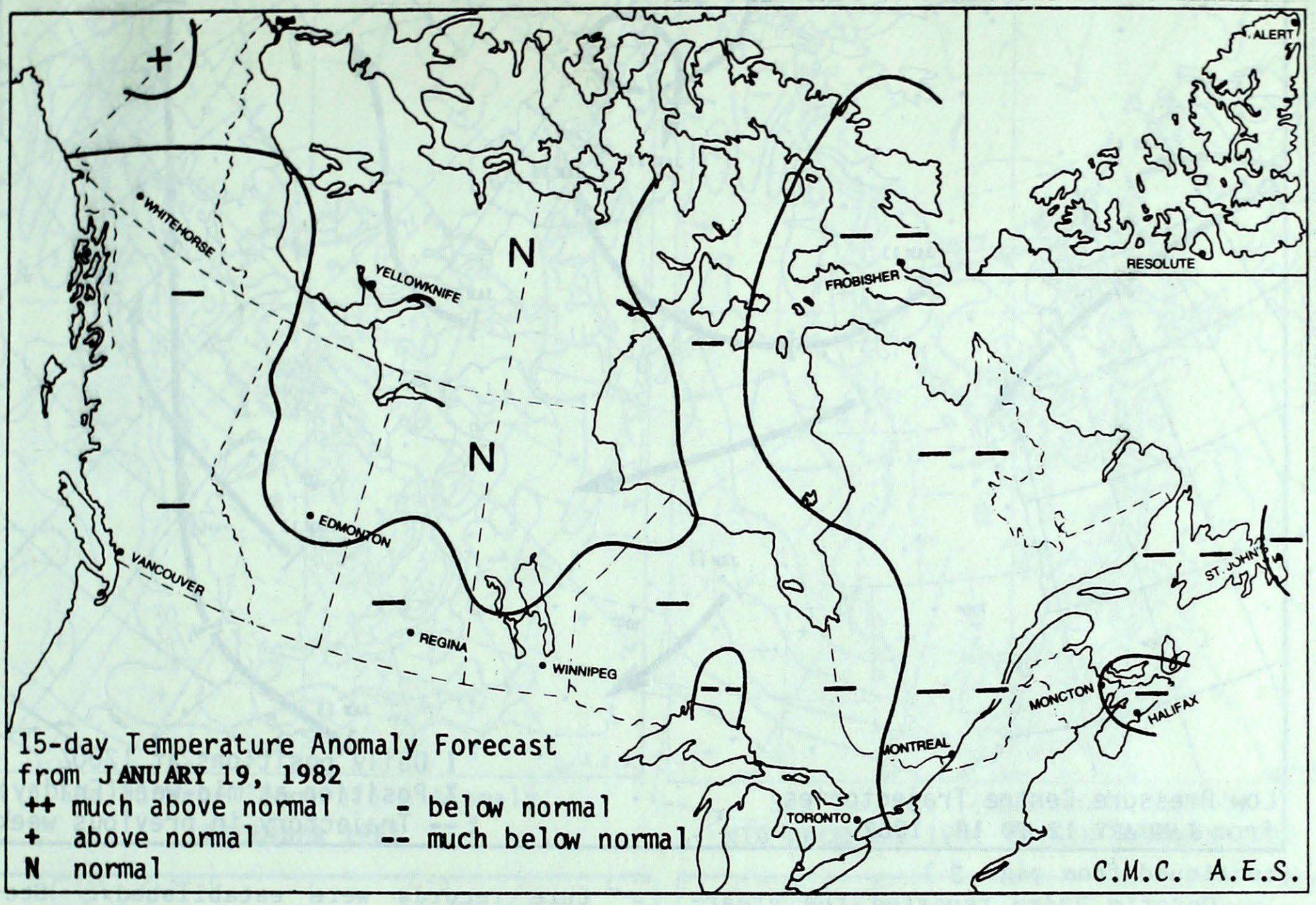
(continued on page 6)

HEATING DEGREE-DAY SUMMARY TO JANUARY 16, 1982

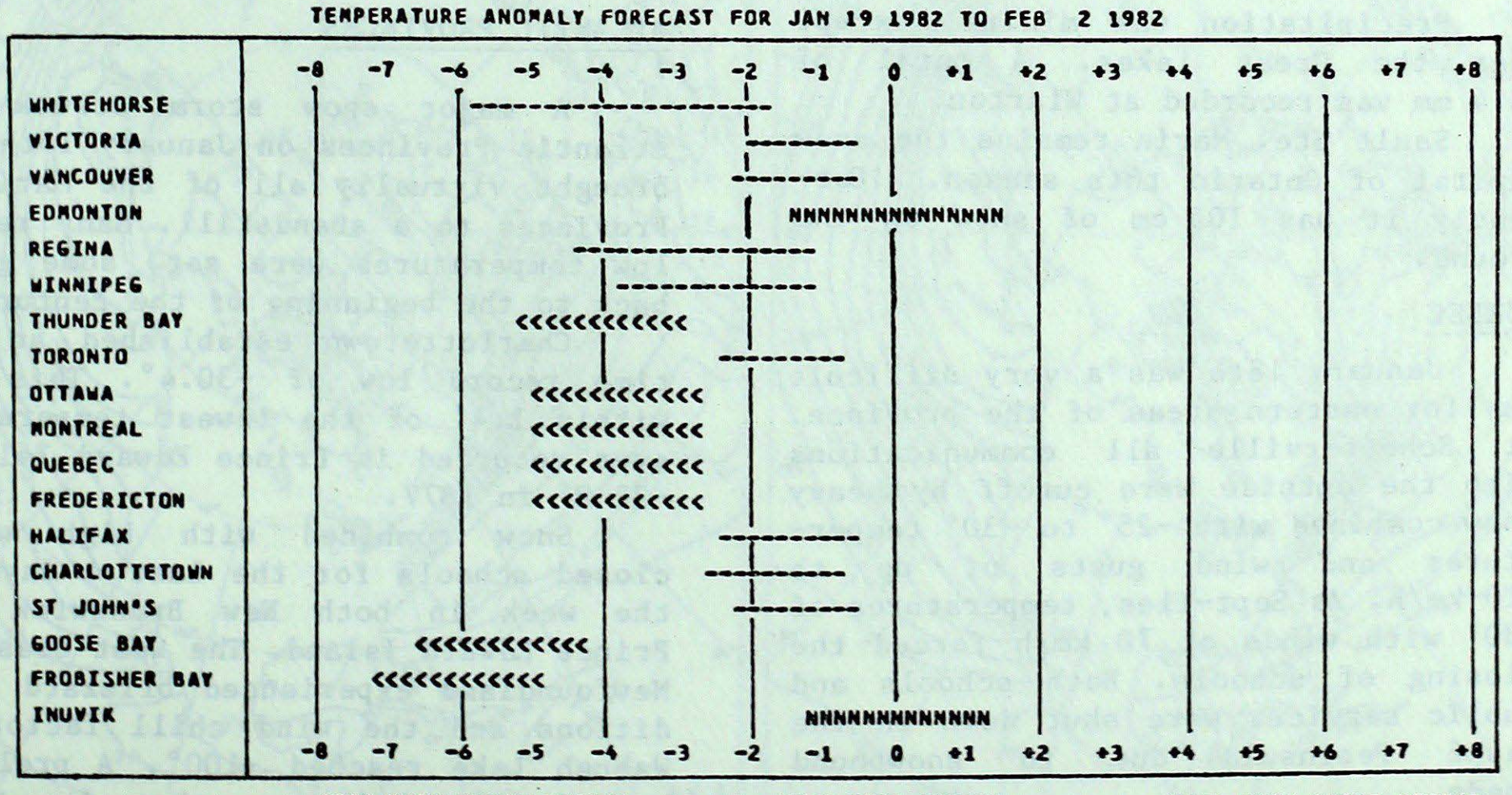


STATION	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL
Resolute	778.5	-17.5	5832.0	-293.0	95
Inuvik	830.5	59.5	4869.0	-119.0	98
Whitehorse	788.0	190.0	3643.5	40.5	101
Vancouver	288.5	39.5	1455.5	-25.5	98
Edmonton Mun	646.0	130.0	2603.5	-200.5	93
Calgary	618.0	166.0	2600.0	-30.0	99
Regina	723.5	163.5	2874.5	-8.5	100
Winnipeg	704.0	138.0	2765.5	-47.5	98
Thunder Bay	634.0	112.0	2744.0	20.0	101
Windsor	415.0	63.0	1785.5	125.5	108
Toronto	438.5	54.5	2030.5	160.5	109
Ottawa	523.5	59.5	2269.5	59.5	103
Montreal	511.5	67.5	2225.0	143.0	107
Quebec	510.5	47.5	2429.5	56.5	102
Saint John, N.B.	440.0	45.0	2123.5	-23.5	99
Halifax	361.5	23.5	1720.0	-25.0	99
Charlottetown	403.5	18.5	1905.5	-76.5	96
St. John's, Nfld.	328.0	-6.0	1996.0	-82.0	96

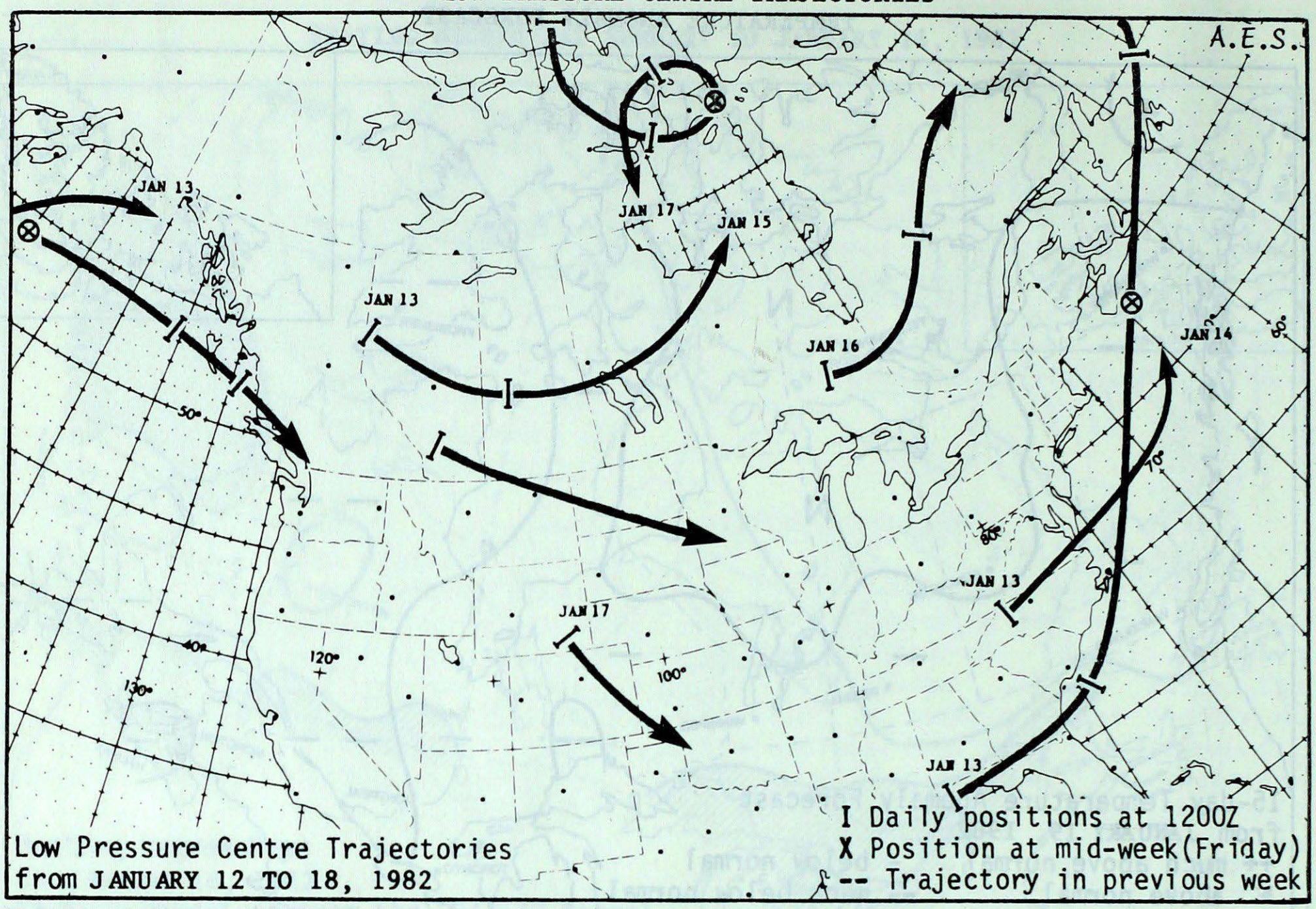
TEMPERATURE ANOMALY FORECAST



TEMPERATURE ANOMALY FORECAST FOR JAN 19 1982 TO FEB 2 1982



LOW PRESSURE CENTRE TRAJECTORIES



Low Pressure Centre Trajectories
from JANUARY 12 TO 18, 1982

(continued from page 3)

Ontario Hydro reported the greatest one day usage of electricity ever on January 11th and attributed the record to Ontarians' attempts to maintain comfortable home temperatures during the brunt of the "Arctic Cold".

Precipitation was minimal except near the Great Lakes. A total of 33.4 mm was recorded at Wiarton.

Sault Ste. Marie remains the snow capital of Ontario this season. Currently it has 105 cm of snow on the ground.

QUEBEC

January 18th was a very difficult day for eastern areas of the province. At Schefferville all communications with the outside were cutoff by heavy snow combined with -25° to -30° temperatures and wind gusts of up to 110 km/h. At Sept-Iles, temperatures of -30° with winds of 70 km/h forced the closing of schools. Both schools and public services were shut down in the Gaspé Peninsula due to snowbound roads.

Over the course of the week 25 daily low temperature records were set. On the 18th, two monthly low temperature records were established. Ste-Agathe des Monts recorded -39° breaking the old record of -37° set on January 4th, 1981 and Roberval recorded -39° breaking the old record of -37.3° set on January 17, 1974.

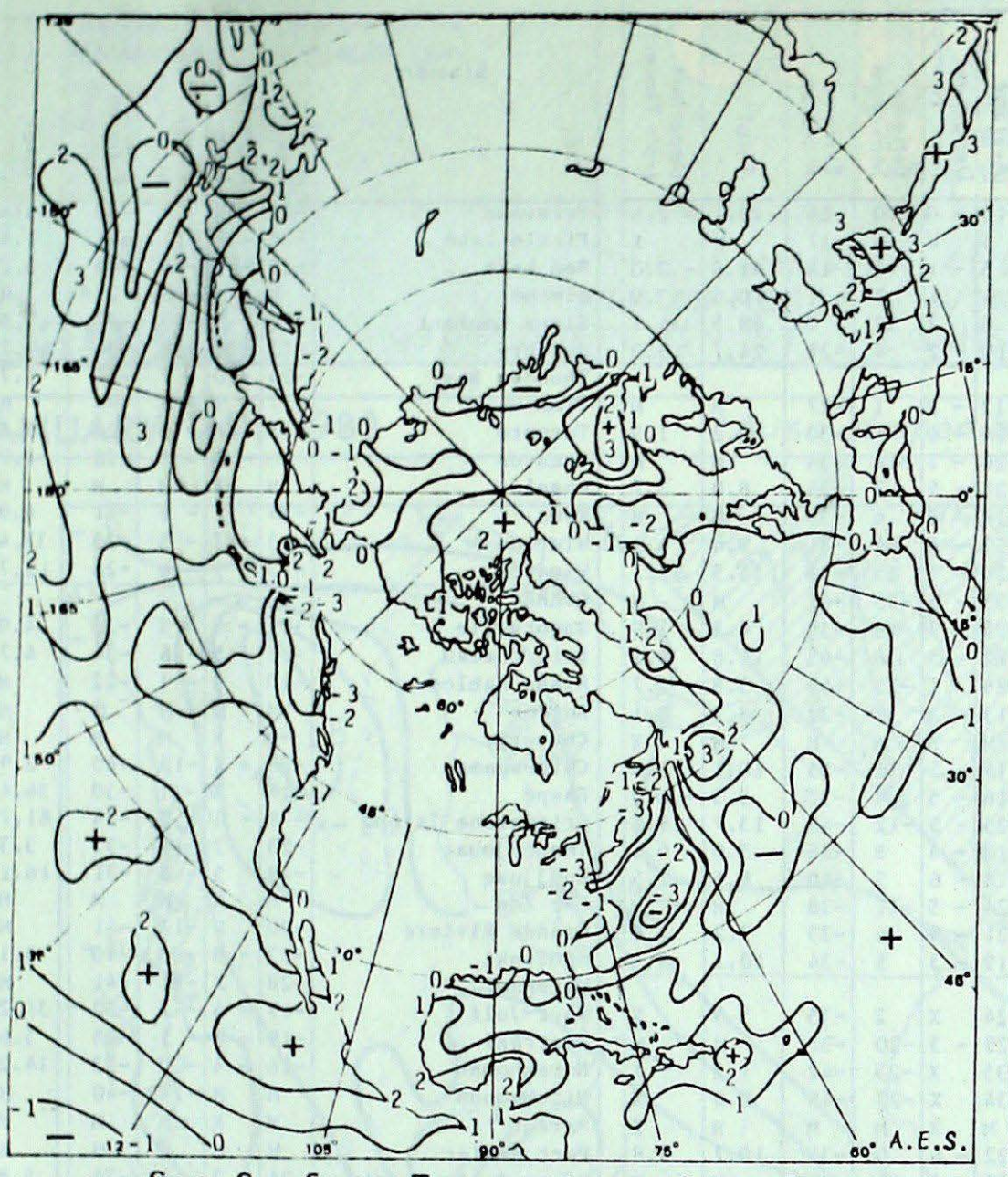
ATLANTIC PROVINCES

A major snow storm struck the Atlantic Provinces on January 15th and brought virtually all of the Maritime Provinces to a standstill. Many record low temperatures were set, some going back to the beginning of the century.

Charlottetown established an all time record low of -30.4°. This was within 2.4° of the lowest temperature ever recorded in Prince Edward Island, -32.8° in 1877.

Snow combined with high winds closed schools for the last 4 days of the week in both New Brunswick and Prince Edward Island. The west coast of Newfoundland experienced blizzard conditions and the wind chill factor at Wabush Lake reached -100°. A preliminary report indicates that due to a power failure, 2000 people had to be evacuated from their homes and lodged at a school at Wabush Lake.

SEA SURFACE TEMPERATURE

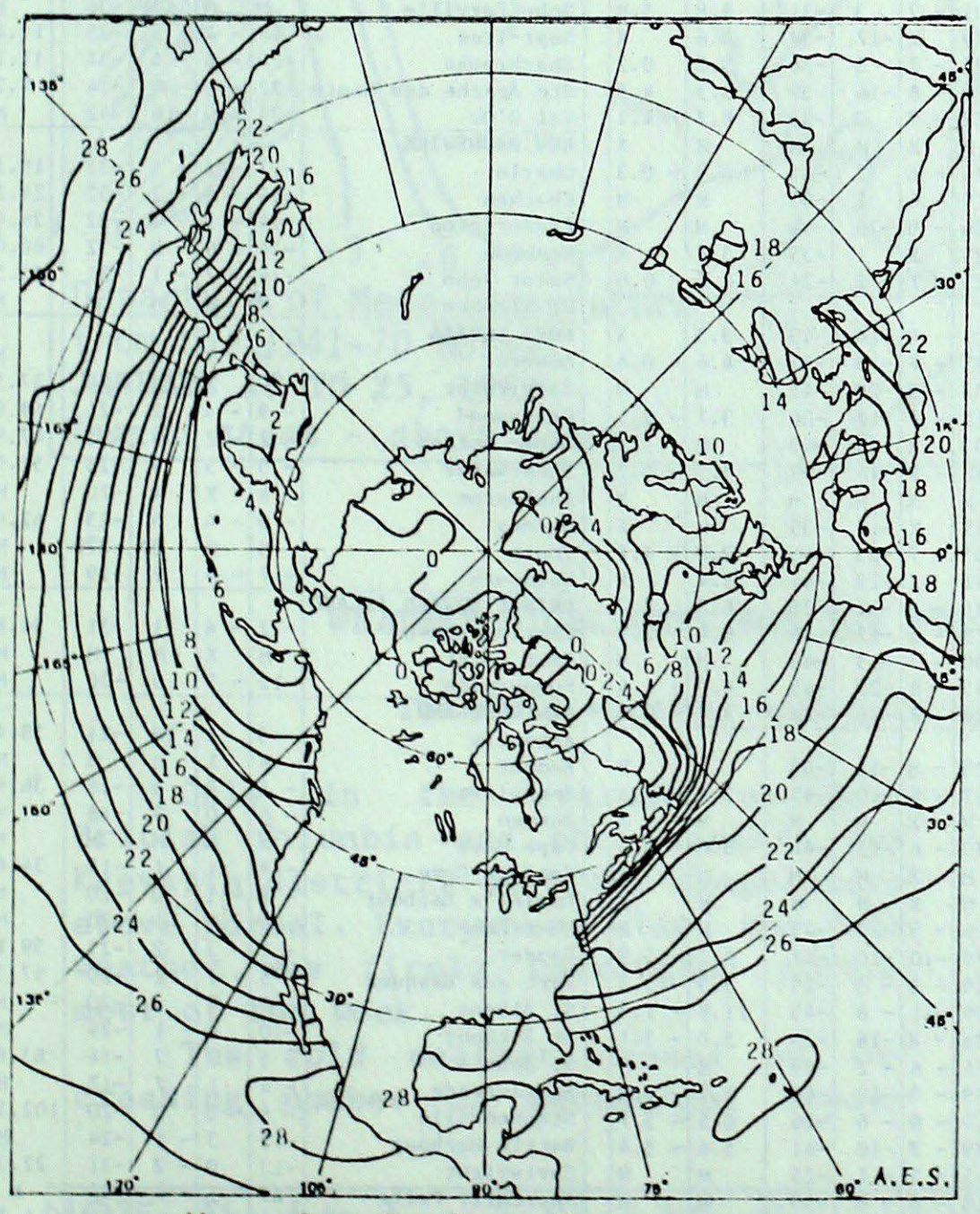


Sea Surface Temperature Anomaly

DECEMBER 1981

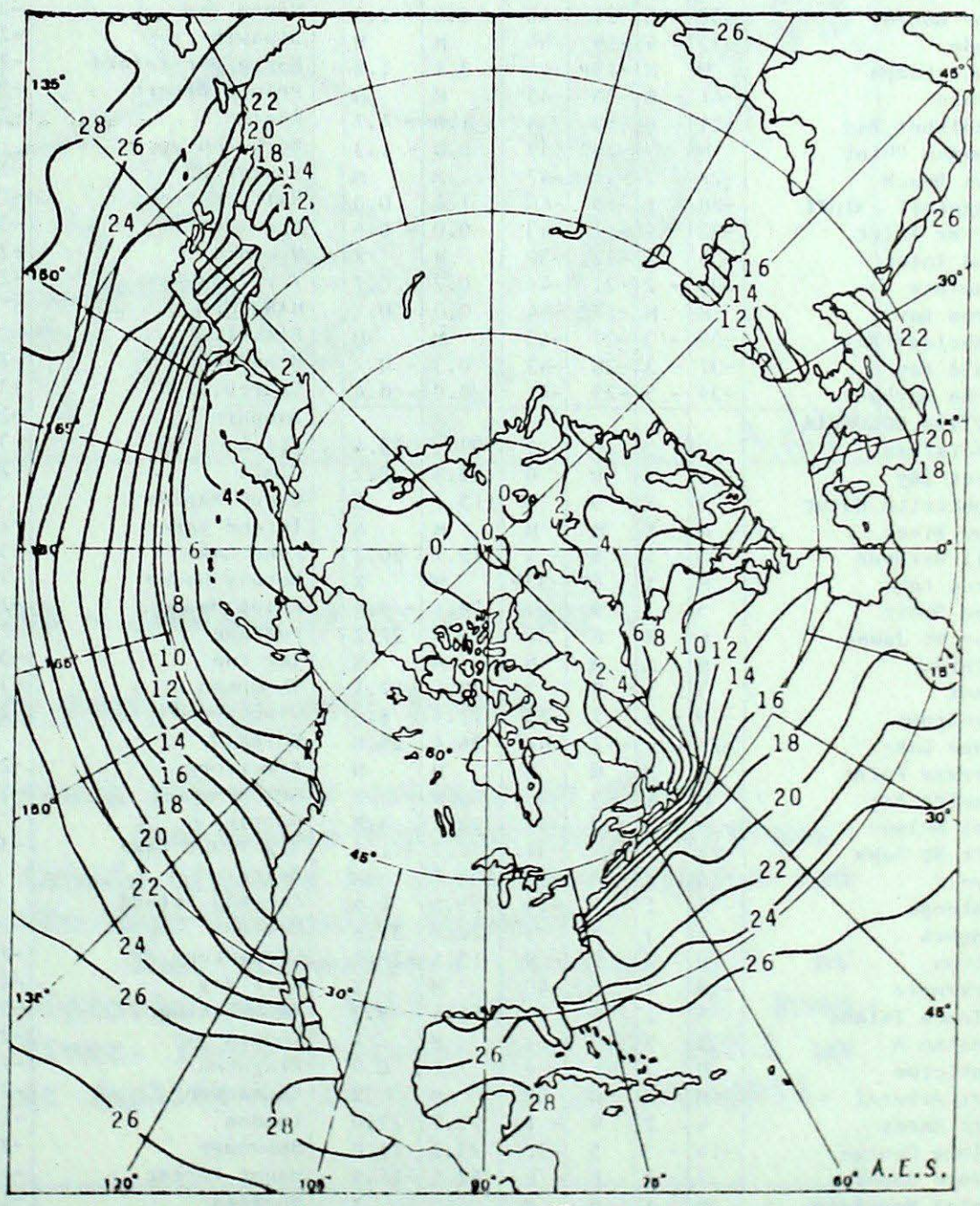
Sea Surface Temperature Anomaly

MID-DECEMBER 1981 TO MID-JANUARY 1982



Mean Sea Surface Temperature

DECEMBER 1981



Mean Sea Surface Temperature

MID-DECEMBER 1981 TO MID-JANUARY 1982

TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. JANUARY 19, 1982

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
YUKON						
Burwash	-30	1	-18	-43	1.6	- 0.2
Dawson	-40	-11	-24	-47	0.2	- 3.8
Faro	M	X	M	M	M	X
Komakuk Beach	-30	- 3	-23	-35	0.0	- 1.0
Mayo A	-38	-10	-23	-48	0.5	- 5.3
Shingle Point	-29	- 1	-19	-37	1.2	1.0
Teslin	M	X	-13P	-41P	M	X
Watson Lake	-31	- 6	-15	-48	10.3	- 0.7
Whitehorse	-28	- 8	-16	-41	0.3	- 4.2
NORTHWEST TERRITORIES						
Cape Parry	-32	- 2	-27	-37	0.2	- 1.3
Cape Young	-32	- 2	-24	-39	0.0	- 0.8
Clinton Point	-30	- 2	-23	-37	0.0	- 2.2
Contwoyto Lake	-36	- 4	-29	-41	M	M
Coppermine	-33	- 4	-26	-40	0.6	- 1.4
Fort Reliance	-36	- 6	-29	-43	M	M
Fort Simpson	-33	- 4	-24	-46	M	M
Fort Smith	-34	- 7	-26	-45	2.4	- 2.1
Hay River	-32	- 6	-26	-42	1.8	- 4.1
Inuvik	-34	- 2	-23	-42	1.2	- 1.0
Lady Franklin Point	-33	- 2	-26	-41	0.0	- 2.0
Nicholson Peninsula	-32	- 4	-27	-38	0.0	- 0.6
Norman Wells	-33	- 3	-23	-45	0.2	- 4.4
Port Radium	M	X	M	M	M	X
Robertson Lake	M	X	M	M	M	X
Tuktoyaktuk	M	M	-24P	-38	0.0	- 0.4
Yellowknife	-36	- 7	-29	-43	0.0	- 4.0
Baker Lake	-37	- 4	-28	-44	0.3	- 2.2
Coral Harbour	-27	3	-12	-38	M	M
Ennadai Lake	M	M	M	M	M	M
Jenny Lind Island	M	M	-28P	-43	0.0	- 0.2
Pelly Bay	-36	- 4	-23	-44	0.0	- 0.3
Rankin Inlet	-37	X	-27	-44	M	X
Shepherd Bay	M	M	-28P	-44	3.7	2.6
Alert	-36	- 4	-29	-45	0.1	- 1.0
Broughton Island	-29	- 5	-21	-38	0.0	- 2.4
Cape Dorset	-21	X	-10	-31	11.0	X
Cape Dyer	-27	- 6	-13	-41	0.0	-15.1
Cape Hooper	-30	- 5	-21	-40	0.0	- 2.0
Clyde	-32	- 4	-19	-44	M	M
Dewar Lakes	M	M	-19P	-45	2.1	1.8
Eureka	-41	- 4	-35	-45	M	M
Frobisher Bay	-21	6	-13	-34	1.8	- 4.7
Gladman Point	M	M	-28P	-49	0.0	- 1.3
Hall Beach	-28	2	-16	-47	M	M
Longstaff Bluff	-28	- 1	-19	-40	1.4	0.0
Mackar Inlet	-32	- 2	-17	-43	0.0	- 0.6
Pond Inlet	-36	X	-22	-50	M	X
Resolute	-35	- 2	-21	-44	0.2	- 0.7
Byron Bay	M	M	-27P	-44	0.0	- 0.1
Cambridge Bay	-37	- 3	-27	-43	M	M
Mould Bay	-37	- 3	-28	-43	0.3	- 0.1
Sachs Harbour	-34	- 5	-29	-41	0.0	- 0.4
BRITISH COLUMBIA						
Abbotsford	3	2	10	- 2	92.1	48.4
Alert Bay	4	1	8	0	62.8	8.2
Amphitrite Point	6	X	9	0	113.1	X
Blue River	M	X	M	M	M	X
Bull Harbour	5	1	8	- 1	79.7	20.2
Burns Lake	M	X	5P	-33P	M	X
Cape Scott	5	1	9	1	88.4	- 9.4
Cape St James	6	2	8	1	62.9	27.2
Clinton	M	X	M	M	M	X
Comox	3	1	9	- 3	33.1	-17.4
Cranbrook	- 9	- 1	7	-23	11.5	- 6.6
Dease Lake	-25	- 6	- 7	-41	36.4	29.0
Estevan Point	M	M	M	M	M	M
Ethelda Bay	M	X	9	- 3P	M	X
Fort Nelson	-28	- 5	-20	-42	13.2	4.8
Fort St John	-25	- 7	-14	-34	7.3	- 1.5
Hope	3	X	10	- 5	104.8	X
Kamloops	- 5	1	6	-14	15.8	8.4
Langara	4	1	8	1	70.8	31.6
Lytton	0	3	9	- 9	13.5	-29.3
Mackenzie	-19	X	5	-40	M	X
McInnes Island	5	1	9	0	66.4	8.3
Nanaimo A	2	X	10	- 1	M	X
Penticton	0	2	10	- 6	7.1	0.3
Port Alberni	M	X	M	M	M	X
Port Hardy	4	2	9	- 1	72.2	22.0
Prince George	-14	- 3	5	-32	23.2	11.0
Prince Rupert	2	1	8	- 6	52.5	-18.9
Puntzi Mountain	M	X	M	M	M	X
Quesnel	-11	0	6	-25	M	M
Revelstoke	- 6	1	4	-15	M	M
Sandspit	4	3	9	0	34.7	1.4

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
Smithers	-10	- 0	10	-24	13.1	- 2.6
Stewart	- 5	X	6	-17	M	X
Terrace	- 5	- 1	5	-14	41.8	- 2.0
Vancouver	4	1	8	- 1	70.5	33.9
Victoria	5	2	12	0	68.5	34.1
Williams Lake	-10	- 2	4	-24	24.7	15.0
ALBERTA						
Banff	12	- 2	1	-27	M	M
Calgary	-14	- 4	7	-30	6.2	1.9
Cold Lake	-26	- 7	-14	-34	M	M
Coronation	-21	- 5	3	-34	8.0	3.7
Edmonton Intl	-19	- 3	6	-39	M	M
Edmonton Namao	-19	- 4	4	-31	9.4	4.1
Edson	-20	- 5	5	-38	15.5	11.1
Fort Chipewyan	-33	- 5	-25	-42	M	M
Fort McMurray	-28	- 7	-19	-39	4.1	- 1.9
Grande Prairie	-22	- 5	6	-43	16.8	8.1
High Level	-29	1	-21	-44	3.8	- 1.7
Jasper	-13	- 2	3	-33	8.1	0.1
Lac La Biche	M	X	M	M	M	X
Lethbridge	-14	- 5	6	-35	10.1	5.0
Medicine Hat	-16	- 5	4	-32	5.3	- 0.6
Peace River	-25	- 5	-12	-45	13.7	9.6
Red Deer	-18	- 4	6	-35	5.0	- 0.1
Rocky Mountain House	-18	- 6	5	-40	8.5	2.5
Slave Lake	-24	- 5	-11	-38	M	M
Vermilion	-21	- 3	6	-35	7.2	2.6
Whitecourt	-19	- 3	5	-34	10.1	3.5
SASKATCHEWAN						
Broadview	-24	X	2	-35	5.9	X
Buffalo Narrows	-29	- 3	-20	-37	M	M
Collins Bay	-35	X	-25	-42	1.2	X
Cree Lake	-34	X	-23	-45	0.6	X
Eastend Cypress	M	X	M	M	M	X
Estevan	-22	- 6	0	-34	10.2	4.8
Hudson Bay	-28	- 7	-15	-36	M	M
Kindersley	-22	- 6	2	-33	7.9	4.9
La Ronge	-30	- 6	-20	-39	5.2	0.1
Meadow Lake	-27	X	-15	-39	4.5	X
Moose Jaw	-21	- 7	3	-31	9.8	5.8
Nipawin	-29	X	-17	-38	5.6	X
North Battleford	-25	- 7	3	-36	5.2	0.2
Prince Albert	-29	- 8	-16	-39	9.3	4.5
Regina	-23	- 7	0	-35	8.7	4.1
Rockglen	M	X	M	M	M	X
Saskatoon	-24	- 6	2	-35	3.9	- 0.3
Swift Current	-19	- 6	2	-35	M	M
Uranium City	-36	- 8	-26	-46	M	M
Wynyard	-25	X	1	-35	5.9	X
Yorkton	-25	- 7	2	-34	7.0	0.6
MANITOBA						
Bissett	-27	X	-14	-43	3.3	X
Brandon	-25	- 7	- 5	-35	4.6	- 0.6
Churchill	-33	- 5	-20	-41	M	M
Dauphin	-25	- 7	-12	-36	3.7	- 2.1
Gillam	-33	X	-19	-43	M	X
Gimli	-26	- 6	-16	-38	3.3	- 2.7
Grand Rapids	M	X	M	M	M	X
Island Lake	-29	X	-17	-39	M	X
Lynn Lake	-35	- 7	-23	-45	2.0	- 4.7
Norway House	-31	X	-19	-44	3.4	X
Pilot Mound	-26	- 8	-11	-35	6.3	2.2
Portage	-25	- 8	-12	-35	8.4	2.8
The Pas	-30	- 7	-19	-43	M	M
Thompson	-35	- 8	-20	-45	4.0	- 1.4
Winnipeg	-26	- 8	-16	-36	3.7	- 2.9
ONTARIO						
Armstrong	-28	- 8	-11	-48	M	M
Atikokan	-27	- 8	-10	-45	2.8	- 4.5
Barrie	M	X	M	M	M	X
Big Trout Lake	-30	- 6	-13	-41	3.0	- 3.5
Britt	M	X	M	M	M	X
Caribou Island	M	X	M	M	M	X
Earlton	-26	- 9	-10	-45	M	M
Geraldton	-29	-10	-10	-47	1.2	- 5.9
Gore Bay	-19	- 9	- 5	-29	3.9	-13.5
Kapuskasing	-29	-11	- 8	-45	11.8	- 1.3
Kenora	-26	- 8	-16	-39	5.0	- 3.1
Kingston	-16	- 6	- 2	-29	M	M
Lansdowne	-29	- 7	-12	-40	1.2	- 6.0
London	-14	- 8	- 6	-26	8.5	- 5.7
Moosonee	-29	- 9	-10	-41	5.6	- 5.4
Mount Forest	-15	- 5	- 7	-25	M	M
Muskoka	-18	- 8	- 6	-39	M	M
Nagagami	M	X	M	M	M	X
North Bay	-21	- 8	- 9	-36	6.2	- 9.2
Ottawa	-19	- 8	- 4	-29	5.7	- 6.4

Station	Temperature (°C) Average	Departure from Normal	Extreme Maximum	Extreme Minimum	Precip. (mm) Total	Departure from Normal
Petawawa	-2?	X	- 7	-38	3.6	X
Pickle Lake	-28	- 7	-11	-41	1.4	- 8.9
Red Lake	-29	- 9	-16	-44	3.2	- 8.1
Simcoe	M	M	- 8P	-25P	M	M
Sioux Lookout	-28	- 9	-13	-43	3.6	- 5.3
Sudbury	-23	- 8	- 8	-36	11.7	3.9
Thunder Bay	-24	-10	- 7	-40	1.7	- 8.5
Timmins	-27	- 9	- 8	-44	M	M
Toronto	-15	- 8	- 5	-26	9.1	- 1.1
Trenton	-16	- 8	- 2	-28	4.7	-10.4
Upsala	M	X	M	M	M	X
Wawa	-24	X	- 6	-41	4.0	X
Wiarton	-13	- 7	- 5	-23	33.4	13.9
Windsor	-13	- 9	- 6	-26	13.7	3.3
QUÉBEC						
Bagotville	-21	- 6	- 9	-35	4.0	-10.9
Baie Comeau	-18	- 5	- 6	-34	4.7	-11.8
Blanc Sablon	-10	3	- 1	-22	M	M
Border	M	M	M	M	M	M
Chevery	M	X	M	M	M	X
Chibougamau	-28	X	-13	-40	2.9	X
Gaspé	-14	X	- 1	-30	36.4	X
Grindstone Island	- 9	- 3	0	-24	81.7	60.3
Inoucdjouac	-23	2	-14	-31	3.3	1.0
Kuujjuaq	-19	5	- 5	-31	16.1	8.2
Lac Eon	M	X	M	M	M	X
Grande Riviere	-30	X	-17	-41	M	X
Maniwaki	-23	- 8	- 8	-40	6.1	- 3.0
Matagami	-28	X	-11	-41	M	X
Mont-Joli	-17	- 6	- 7	-32	31.2	8.4
Montréal	-19	- 9	- 5	-28	5.6	-10.7
Natashquan	-16	- 4	- 0	-33	14.2	- 9.3
Nitchequon	M	M	-14P	-40	M	M
Parent	M	X	M	M	M	X
Port Menier	M	M	M	M	M	M
Poste-de-la-Baleine	-26	- 3	-14	-36	5.8	0.0
Québec	-19	- 7	- 6	-35	6.2	-10.0
Rivière du Loup	M	M	M	M	M	M
Roberval	-22	- 6	- 9	-39	2.8	- 9.5
Schefferville	M	M	10P	-36	M	M
Sept-Iles	-18	- 4	- 5	-35	11.4	-12.6
Sherbrooke	-20	- 6	- 6	-34	11.1	2.8
Ste Agathe des Monts	-22	- 6	- 8	-34	7.2	- 4.8
Val D'Or	-27	-10	-10	-42	M	M
NEW BRUNSWICK						
Charlo	-17	- 2	- 5	-32	19.1	3.6
Chatham	-14	- 5	- 2	-32	28.2	2.5
Fredericton	-14	- 5	- 1	-32	26.4	3.1
Moncton	-14	- 6	0	-32	60.0	35.9
Saint John	-14	- 7	- 1	-31	35.5	- 0.4
St Stephen	M	X	M	M	M	X
NOVA SCOTIA						
Amherst	M	X	M	M	M	X
Eddy Point	-10	X	3	-28	57.5	X
Greenwood	- 9	- 4	2	-24	49.0	24.7
Sable Island	- 2	- 2	9	-15	47.9	21.1
Shearwater	- 9	- 5	4	-25	52.9	19.2
Shelburne	- 6	X	4	-20	M	X
Sydney	- 9	- 4	5	-25	62.0	29.6
Truro	M	M	2P	-27P	M	M
Yarmouth	- 7	- 4	2	-19	M	M
PRINCE EDWARD ISLAND						
Charlottetown	-12	- 6	1	-31	54.8	32.1
East Point	M	X	M	M	M	X
Summerside	-12	- 5	0	-30	M	M
NEWFOUNDLAND						
Argentia	- 3	X	10	-24	53.4	X
Badger	M	X	M	M	M	X
Bonavista	- 4	0	5	-18	36.6	18.3
Burgeo	- 6	0	3	-18	M	M
Cape Race	M	X	M	M	M	X
Comfort Cove	- 8	1	1	-19	34.6	13.9
Daniel's Harbour	- 8	- 1	0	-20	M	M
Deer Lake	- 8	1	1	-20	M	M
Gander	- 7	- 1	2	-21	59.2	41.8
Port aux Basques	- 5	- 1	2	-20	57.2	33.9
St Albans	- 7	1	4	-20	M	M
St Anthony	-10	X	- 1	-24	M	X
St John's	- 5	- 1	7	-16	63.8	36.5
St Lawrence	- 4	1	7	-17	M	M
Stephenville	- 6	- 2	3	-20	102.1	81.2
Battle Harbour	-12	3	- 1	-24	M	M
Cartwright	-13	0	- 2	-31	22.3	1.4
Churchill Falls	-25	- 1	- 7	-37	M	M
Goose	-17	- 1	- 4	-33	15.7	- 3.8
Hopedale	M	M	- 3P	-29P	M	M
Wabush Lake	-?6	- 5	-11	-39	M	M

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