

WEATHER HIGHLIGHTS FOR THE WEEK - MARCH 25 - 31, 1980

Ice Continues to Impede Ferry Service in the Maritimes

After 6 days the Atlantica with 140 passengers and 69 crew on board was released from an ice jam near Sydney but only two days later a second ferry, the Nautica, was stuck in the ice.

Only the B.C. coast had copious precipitation, 98.4 mm being recorded at Tofino and 93.9 mm at Cape Scott. Southern Canada warmed up during the week except southern British Columbia was colder than last week. The mercury rose to 16° at Kamloops on March 28, but plunged to -43° at Eureka two days later. The snow depth at Hopedale dropped to 232 cm by the end of 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 AND NORTHWEST TERRITORIES

Most of the Arctic continued to experience above normal temperatures except in the northern Yukon and Beaufort Sea areas and in northern Ellesmere Island. High and low temperatures ranged from 10° at Fort Simpson and Fort Smith to -43° at Eureka.

Sunshine was generally enjoyed in most areas and little precipitation fell. Some isolated sites recorded up to 10 mm including Fort Smith and northern Yukon stations. Whiteouts were common along the Dempster Highway in the Richardson Mountains during a snowstorm on March 25-26.

Large flocks of snowbirds in the Yukon provide further signs of the approach of spring.

BRITISH COLUMBIA

Further evidence of the advance of spring is given by daytime temperatures which rose above the freezing point at all stations every day of the week, reaching 16° at Kamloops on March 28. Mean temperatures for the week exceeded normal except at Dease Lake where the lowest temperature, -14° was reported on the 30th.

Interior areas enjoyed the best springtime weather with sunny skies and little or no precipitation. The Kelowna region has had the driest March since 1968, receiving 8.4 mm of precipitation. However, the west coast of Vancouver Island and the B.C. coast generally felt the lingering effects of winter, having cooler temperatures and copious rainfalls. Tofino and Cape Scott recorded the most rain: 98.4 and 93.9 mm, respectively.

Some excellent skiing conditions still prevail in southern areas where most snow is confined on the mountain slopes.

Logging and oil exploration operations in the Fort Nelson region are still being hampered by muddy and impassable roads. In the Prince George region loggers continue to cut in the bush where plenty of snow remains.



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



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PRAIRIE PROVINCES

The week was generally sunny throughout the Prairies. Most stations received occasional rain; the weekly total only exceeded 5 mm at Lethbridge where 9.8 mm fell.

Mean temperatures stayed above normal, with departures greater than 8° in the northern areas. However, southwestern Alberta experienced weather somewhat colder than normal. Prairie temperature extremes were 15° at Estevan on March 29 and -23° at Cree Lake and Meadow Lake on March 26.

Forestry scientists are concerned that the almost snowless winter, at times unusually mild, will cause extensive damage to small evergreen trees, less than 3 m high, throughout northern Ontario. The trees became active on sunny days but starved for water owing to the deeply frozen soil resulting from the lack of insulating snow cover during the winter. Tree and plant nurseries have also reported damage from unusual the winter weather.

Snow cover is so meager, that no spring flooding is likely.

ONTARIO

Generally above normal temperatures and cloudy skies prevailed across the province with rare exceptions. The highest temperature (13°) was reported at Atikokan on March 31, the lowest (-24°) at Geraldton on the 26th and Trout Lake on the 25th.

Rainfall was frequent in a few southern areas and light enough not to cause flooding. Most precipitation for the week was recorded at Windsor (26.5 mm). Although the flood waters of the previous week generally receded Conservation Authorities remained on the alert for any problems should heavy rain develop.

Snow cover is rapidly disappearing from the north and northwestern regions. Bare ground is reported south of a line from Wiarton to the northern Haliburton area.

The Great Lakes have mostly open water except for ice in southern Georgian Bay, along the southern and eastern shores of Lakes Huron and Superior, and in the entrance to the Niagara River. However, the approaches to the Welland Canal are fairly clear of ice.

QUEBEC

Spring has displayed its mild nature again this week. Average temperatures remained above normal in all regions during the week, exceeding 5° at most stations. A few northern sites reported record high temperatures on March 25 and 26.

Precipitation was below normal except in the Gaspé and Cap-aux-Meules (Grindstone Island station) regions where more than 10 mm of rain fell. Sunshine ranged from 30 to 58% of the total possible for the week in most areas.

ATLANTIC PROVINCES

Widespread precipitation fell at the beginning and end of the week but no flooding resulted. Almost 27 mm of precipitation was recorded at Yarmouth, while Gander received about 19 mm on March 25.

Severe ice conditions off Cape Breton Island into Cabot Strait continue to plague transportation services, especially ferries to Newfoundland. About 140 passengers and 69 crew were stranded for 6 days on board the Marine Atlantica, which finally navigated the last 11 km into Sydney Harbour on the 29th.

Transfer of railroad cars was totally disrupted with 258 cars in North Sydney awaiting shipment to the Island where huge loads have also piled up at the docks. At Port-aux-Basques 45 commercial vehicles loaded with perishable goods have yet to be shipped. On the 31st the <u>Marine Nautica</u> was stuck in the ice again on the way to Portaux-Basques, and 3 ice breakers were attempting to free her.

The spring runoff is about normal. Most rivers in the southern Maritimes are ice free. The water in 6 major reservoirs is about 1% below normal and have about 58% of their full capacity.

Mean temperatures were above normal and almost the same as last week's. The mercury rose to 15° at Bonavista on the 29th and dropped to -16° at Wabush Lake on the 27th.

The Gulf of St. Lawrence is mostly open water, but ice is still congested in southern areas, especially in Cabot Strait and in the approaches to Sydney Harbour.

Winds have congested ice in the Strait of Belle Isle and along the Labrador coast where the ice pack is 100-160 km wide. Newfoundland coastal waterways are open with only loose ice extending up to Notre Dame Bay. Elsewhere the ice is slowly retreating northward.

CLIMATIC PERSPECTIVES

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СІТҮ	MONTHLY CUMULATIVE TOTAL	MONTHLY DIFF. FROM 1941-70 NORMAL	SEASONAL TOTAL	SEASONAL DIFF. FROM 1941-70 NORMAL	SEASONAL PERCENT OF NORMAL	
Resolute	1631.0	-136.0	9980.0	-190.0	98	100
Inuvik	1515.5	-7.5	7559.0	-1069.0	88	S inte
Whitehorse	851.5	-66.5	5540.5	-435.5	93	S W
Vancouver	442.0	8.0	2470.0	-76.0	97	i an T
Edmonton	798.0	-33.0	4457.5	-511.5	90	en en A
Calgary	796.5	5	4374.0	-243.0	95	Store 2
Regina	916.5	-14.5	4996.5	-296.5	94	wh rid
Winnipeg	986.0	64.0	5319.3	39.5	101	
Thunder Bay	883.0	27.0	4940.0	-41.0	99	107
Windsor	644.5	50.5	3242.5	23.5	101	330
Toronto	703.5	34.5	3640.5	36.5	101	
Ottawa	705.5	-43.5	4044.0	-155.0	96	is ch
Montreal	696.5	-32.5	3955.5	-57.5	99	Salt
Quebec	798.0	5.0	4497.5	39.5	101	ed with
Saint John, N.B.	749.0	15.0	3926.5	-94.5	98	14:00
Halifax sol soled	687.5	19.5	3480.5	80.5	102	12.50
Charlottetown	768.5	11.5	3898.0	39.0	101	1000
St. John's, Nfld.	714.5	-20.5	3859.0	56.0	101	and.

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:

Station	Current	Temperature Anomaly Forecast
Whitehorse Victoria	Above Normal Near Normal	From 0.8° to 2.5° above Normal Within 0.3° of Normal
Vancouver	Near Normall	Within 0.3° of Normal From 0.8° to 2.8° above Normal
Regina	Below Normal	From 0.9° to 3.1° below Normal
Winnipeg Thunder Bay	Much Below Normal Below Normal	From 0.6° to 2.0° below Normal
Toronto	Below Normal	From 0.6° to 2.0° below Normal

Ottawa Montreal Quebec Fredericton Halifax Charlottetown St. John's Goose Bay Frobisher Bay Inuvik Below Normal Near Normal Near Normal Below Normal Below Normal Below Normal Below Normal Below Normal Much Below Normal Near Normal From 0.6° to 2.0° below Normal Within 0.5° of Normal Within 0.5° of Normal From 0.5° to 1.6° below Normal From 0.4° to 1.4° below Normal Within 0.5° of Normal From 0.4° to 1.5° below Normal From 0.8° to 2.5° below Normal More than 3.8° below Normal Within 1.1° of Normal

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



7-day Mean 50 kPa Height Map(in dams) March 24 to 30, 1980

The atmospheric circulation was complex and much the same as last week's. Numerous short waves traversed the continent resulting in strong deflections and vortices in the upper steering flow.

The seven-day mean flow at 50 kPa continued generally in the west-east direction, with weak ridges over eastern Quebec and Labrador and a persistent trough off the coast of Newfoundland.



7-day Mean 50 kPa Height Anomaly (in 5 dam intervals)March 24 to 30,1980

At the surface weak high and low pressure systems moved rapidly across the country providing typically changeable springtime weather. Precipitation was light almost everywhere, except along the B.C. coast where amounts exceeding 50 mm were common. Temperatures remained near or well above

Atmospheric Circulation Features

normal except in southern British Columbia.

Andy Radomski

15 DAY TRADERATIN 8 ANTRALLY MORE CAST



Monthly Mean Sea Temperature for March 1980

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TEMPERATURE AND PRECIPITATION DATA FOR THE WEEK ENDING 0600 G.M.T. APP 1, 1980

	Temperature	(°C)	Precip. (mm		Tem	perc	ture (°C)	Precip	. (mm)		Ter	nper	oture	(°C)	Precip	. (mm)
Station	Average Departure from Normal Extreme Maximum	Extreme Minimum	Total Departure from Normal	Station	Average	from Normal	Extreme Maximum	Extreme Minimum	Total	Departure from Normal	Station	Averoge	Departure, from Normal	Extreme Maximum	Extreme Minimum	Total .	Departure from Normal
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