



MARITIME CANADA CLIMATE SUMMARY

February 2022

A Mild and Wet February Across the Maritimes

Both temperatures and precipitation were above normal across all the Maritimes with Cape Breton and PEI more than 2 C above normal for the month. A succession of storms brought above normal precipitation to the region. Snowfall amounts ranged from 50-125 cm for NB and Cape Breton, 40 to 100 for PEI, and 20 to 50 for NS. The most significant storm occurred early in the month (4-5th) bringing over 50 cm of snow to parts of NB and PEI, and rain changing to freezing rain then snow in NS. The freezing rain and strong winds brought extensive tree damage and prolonged power cuts across the province. Sea Ice coverage in the Gulf of St. Lawrence at the end of the month was well below normal in extent and thickness especially in the eastern Gulf. Open water Sea Surface Temperatures continued above normal around the coastlines especially in the Bay of Fundy which had a positive anomaly of 3-5 C.

The Warmest (°C)

New Brunswick	
St Stephen	19.6
Nova Scotia	
Waterville	16.0
Prince Edward Island	
Stanhope	12.1

The Coldest (°C)

New Brunswick	
Edmundston	-36.3
Nova Scotia	
Collegeville	-27.4
Prince Edward Island	
Maple Plains	-26.2

The Wettest (Total mm)

New Brunswick	
Fundy Park	228.8
Nova Scotia	
Kejimikujik	216.4
Prince Edward Island	
Stanhope	146.5

The Capital Stats

Station Name	Mean Temperature (°C)			Extremes	
	Monthly Mean	Normal Mean	Diff from Normal	Max (Date)	Min (Date)
Charlottetown	-5.0	-7.3	2.3	10.1 (23)	-21.3 (01)
Halifax	-2.1	-4.2	2.1	12.0 (12)	-14.4 (02)
Fredericton	-6.6	-7.5	0.9	17.8 (23)	-28.3 (01)

Station Name	Total Precipitation			Snowfall	
	Monthly Total (mm)	Normal Total (mm)	Percent Normal	Total (cm)	SOG End of Month
Charlottetown	158.7	83.2	191	104.4	32
Halifax	183.8	105.1	175	63	12
Fredericton	97.1	70.1	139	67.6	9

Daily Temperature Records

Several mild spells resulted in a total of 81 new daily record highs (NS-47, NB-21, PEI-13) across the region. Topping the list, the 19.6 C recorded at St. Stephen on 23rd, was an all-time February record for NB at any station, bettering the old record of 18.9 set at Richibucto in 1934. It was also the highest temperature in Canada recorded for February 2022. The Annapolis Valley saw 3 stations record temperatures above 15 C on 12th. Just 12 record daily minimums were set.

Other Significant Events (information provided by Climate Services, ECCC)

February 4-5: A trough of low pressure slowly moved across Nova Scotia bringing a mix of precipitation types to NS and a mainly snow event for NB and PEI. Power outages and building closures were reported due to heavy snow and freezing rain. NB and PEI saw snowfall amounts of 20 to 57 cm with some ice pellets mixed in over southeastern areas. The amount of snow, combined with previous events, contributed to the collapse of a roof in NB. NS saw rain change through a period of freezing rain and ice pellets to snow, with precipitation amounts of 40 to 65 mm.

[Many malls, businesses closed as storm brings snow, freezing rain to the Maritimes | CTV News](#)

[Thousands in Nova Scotia still without power Monday evening following weekend storm | CTV News](#)

February 8-9: A low crossed Nova Scotia and brought significant wintertime rainfall of 30 to 70 mm to NS, southern NB, and PEI, causing localized flooding and inundated roads. The highest rainfall amounts were in coastal and eastern NS. Significant wind gusts of 100 to 115 km/h accompanied the storm while Les Sables wind gusts upward of 170 km/h occurred in western Cape Breton. Because of generally mild temperatures, the only significant snowfall occurred in central and northern NB, with 10 to 29 cm.

[Another weather system prompts more power outages, school closures and collisions | CTV News](#)

February 17-18: A broad trough moved across the region with a significant rain and wind event for much of the Maritimes and snow for northern NB. Rainfall amounts were highest in NB with 25 to 105 mm, with up to 55 mm in NS, and 34 mm in PEI. Edmundston saw 15 cm of snow. Strong winds accompanied the storm with many coastal NS stations reporting gusts above 100 km/h, and southern NB and PEI stations reporting up to 95 km/h. Record high daily temperatures were set at many locations, followed by a rapid temperature drop to below freezing behind the low. Power outages were widespread. Flooding and road washouts caused the closure of highways in Cape Breton.

February 22-23: A mixed weather event for mainly NB as a low crossed north of the province. The event was mainly snow in the north, mixed freezing precipitation in the centre, and mainly rain in the south. Total precipitation amounts were 15 to 39 mm. Strong wind gusts accompanied the storm with some stations gusting above 90 km/h along the Bay of Fundy. Warm temperatures south of the low on Feb. 23 set many daily temperatures records across NS and PEI, including the second highest temperature in the records for New Brunswick in February, at St. Stephen (19.6 C).

Compiled by Peter J. Lewis with data and information provided by Client Service Operations Atlantic, Meteorological Service of Canada Environment and Climate Change Canada / Government of Canada

Other CMOS News

CMOS YouTube Channel: Scott Kehler's excellent talk on Private Sector Meteorology in Canada can be found on [the CMOS YouTube channel](#). Hit the 'Subscribe' button to be alerted when new talks are uploaded.

Upcoming Seminars Hosted by CACOR:

March 23rd – Jennifer Purdy, Health Impacts of Climate Change

March 30th – Darrin Qualman, Climate, farms, food, emissions and solutions

April 6th – Dr. Sailesh Rao, Climate Healers: Food is Climate

April 13th – Frank de Jong, Henry George Economics: For a Just, Green, and Prosperous

All CACOR lectures are held at 2:30PM AST. Click [here to get the Zoom links](#).

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