



# MARITIME CANADA CLIMATE SUMMARY

## December 2021

### December Temperatures Make it 11 Months above Normal for 2021

With average temperatures coming in 1 to 2 C above normal across most of the Maritimes, December completed a year with every month above normal, with the exception of July which was near-to or slightly below normal. Apart from the Cape Breton Highlands total precipitation amounts were near to below normal across the region. Snowfall amounts were highest in northern NB and the Cape Breton Highlands where snow squalls in the last two weeks produced 100+ cm. Parts of southeastern NB and PEI recorded well below normal snowfall. Given the above normal temperatures, not surprisingly sea surface temperatures remained well above normal with areas along the Atlantic coast of NS and in the Bay of Fundy recording a +5 C anomaly. By the end of the month only one small area around Fredericton recorded abnormally dry conditions in the Canadian Drought Monitor.

#### The Warmest (°C)

<b>New Brunswick</b>	
Moncton	16.0
<b>Nova Scotia</b>	
Greenwood A.	18.3
<b>Prince Edward Island</b>	
Stanhope	14.8

#### The Coldest (°C)

<b>New Brunswick</b>	
Edmundston	-25.8
<b>Nova Scotia</b>	
Debert	-19.2
<b>Prince Edward Island</b>	
Maple Plains	-15.2

#### The Wettest (Total mm)

<b>New Brunswick</b>	
Fundy Park	129.2
<b>Nova Scotia</b>	
NE Margaree	234.7
<b>Prince Edward Island</b>	
East Point	102.8

### The Capital Stats

Station Name	Mean Temperature (°C)			Extremes	
	Monthly Mean	Normal Mean	Diff from Normal	Max (Date)	Min (Date)
Charlottetown Airport	-1.5	-3.3	1.8	13.8 (7)	-13.5 (24)
Halifax Stanfield Airport	-0.7	-2.4	1.7	16.1 (7)	-12.2 (10)
Fredericton Airport	-3.5	-5.3	1.8	14.0 (6)	-16.4 (24)

Station Name	Total Precipitation			Snowfall	
	Monthly Total (mm)	Normal Total (mm)	Percent Normal	Total (cm)	SOG End of Month
Charlottetown Airport	86.5	118.1	73	20.8	2
Halifax Stanfield Airport	156.8	143.3	109	28.3	9
Fredericton	67.4	91.8	73	NA	NA

### Daily Temperature Records

December provided an astonishing 82 new daily high temperature records, the majority (54) were in NS with 18 in NB and 10 PEI. Most were recorded in the two-day periods 6, 7<sup>th</sup> and 11, 12<sup>th</sup> and ranged across all of the region. Most were in the low to mid teens. The highest of 18.3 at Greenwood on 7<sup>th</sup> was the 3<sup>rd</sup> highest December day on record. Only one new record low was set – at Grand Manan NB with -11.7 on 4<sup>th</sup>.

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

**December 6-7:** A powerful storm brought high winds, rain, lightning, and mild temperatures. Daily temperature records were set in many areas with temperatures in the mid-teens. Rainfall amounts of up to 58mm and wind gusts along the coasts to 80-130 km/h were reported.

[Storm knocks out power to thousands across Nova Scotia | CBC News](#)

[ECCC weather summary for Nova Scotia](#)

**December 8-9 - Snowstorm:** A fast moving low pressure system passed south of NS and brought heavy snow to the province. Up to 40 cm fell over parts of NS.

[Snowstorm closes schools across Nova Scotia | CBC News](#)

[Homes flood, huge hole opens up after 2 water mains break in Halifax | CBC News](#)

[Thousands without power, schools closed after overnight winds | CBC News](#) (NB)

[ECCC weather summary for Nova Scotia](#)

**December 11-12:** A frontal disturbance brought strong winds and a mix of precipitation to the Maritimes, including snow and several hours of freezing rain to central and northern New Brunswick and heavy rain and thunderstorms to some areas, especially Nova Scotia. The highest rainfall amounts, over 50 mm, were along the Atlantic coast. The rain and very mild temperatures melted the significant snowfall from earlier in the week, causing localized flooding. The storm caused power outages and disrupted ferry service.

[High winds knock out power to thousands of N.S. homes, businesses early Sunday | CBC News](#)  
[Power restored for many N.B. Power customers | CBC News](#)

[Cracked lighting poles behind MacKay Bridge shutdown | CBC News](#)

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

**Upcoming Symposium:** The National Research Council of Canada (NRC) and the German Federal Ministry of Education and Research (BMBF) are hosting a symposium to celebrate the success of women in STEM. The event is a virtual event taking place **February 10-11**. For more information and to RSVP, click [here](#).

**2022 Science is for Everyone:** The American Meteorological Society (AMS) Board on Outreach and Informal Education (BOIE) presents *SCIENCE IS FOR EVERYONE* -- a series of science education opportunities aimed at improving the scientific literacy of all community members across the country. The presentations will include both virtual and hybrid platforms and feature some of the most interesting and innovative professionals in the fields of Science, Technology, Engineering, and Math. For more info, including dates and times of their webinar series, click [here](#).

Canadian Meteorological and Oceanographic Society (CMOS) | Halifax Chapter

[cmos@cmos.ca](mailto:cmos@cmos.ca) | [www.cmos.ca](http://www.cmos.ca) | Follow us on [Facebook](#) and [Twitter](#)

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