



Maritimes Monthly Weather & Climate Summary April 2022

Overview

April was near to above normal for precipitation and temperature. One significant storm moved across the region in the third week of the month enhancing flooding in parts of New Brunswick. Less snow than regular for April fell in New Brunswick with little to no snowfall outside coastal areas along the Gulf of St. Lawrence in eastern PEI and eastern NS.

Temperature – Anomaly

Most of Eastern Canada, outside of Labrador, observed near to above normal temperatures in April. Although some areas had above normal temperatures they were generally only up to 1 degree above normal.

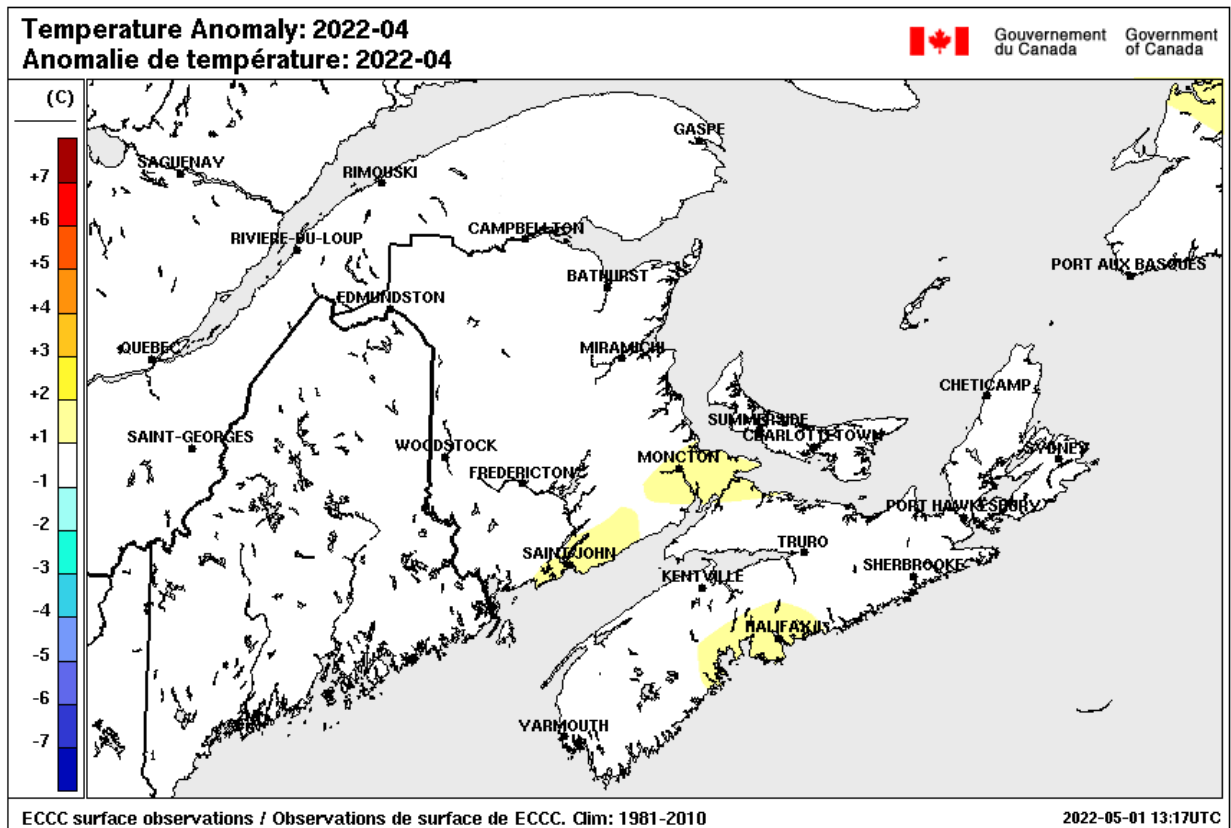


Figure 1: Monthly temperature anomaly map for April 2022 based on archived station data compared to 1981-2010 normals for the Maritimes.

Precipitation – Anomaly

Precipitation amounts for April were near normal for most of the PEI and NS. A band of above normal precipitation stretched from southwestern to northeastern New Brunswick while some lower than normal precipitation amounts were observed in the northwest of the province. That below normal precipitation area is the first such area in the Maritimes since January 2022.

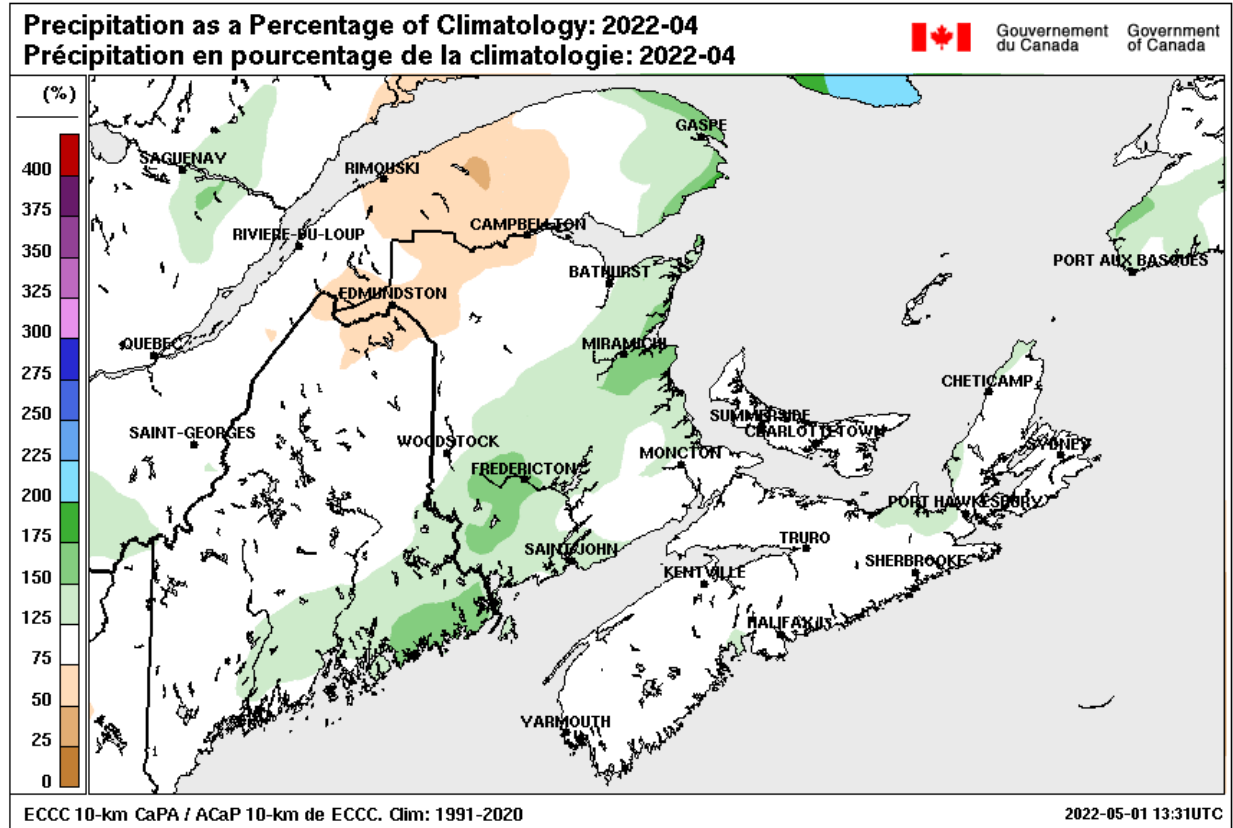


Figure 2: Monthly precipitation anomaly for April 2022 based on ECCC Canadian Precipitation Analysis (CaPA) a gridded blend of model, radar, and station data, compared to 1991-2020 normals for the Maritimes. (Anomaly: Precipitation as a percentage of the average).

Table 1: Monthly average temperature and total precipitation for April 2022 for selected locations in the Maritimes compared to 1981-2010 Canadian Climate Normals (for the same or a nearby station). Temperature difference from normal: cells shaded pink if ≥ 1 °C, blue if ≤ -1 °C. Precipitation as a percent of normal: cells shaded green if $\geq 125\%$ of normal, yellow if $\leq 75\%$ of normal. Rank (if included) provides a ranking of mean temperature (eg. 1 warmest, 2 second warmest etc.) for the month against long term data for the month).

Location	Mean Temperature (°C)				Total Precipitation (mm)		
	Monthly Mean	Normal Mean	Diff. from Normal	Rank (Warmest Apr)	Monthly Total	Normal Total	Total as % of Normal
Bas Caraquet	2.3	1.9	0.4	>10	133.3	82.6	161
Charlo	2.5	1.9	0.6	>10	69.8	71.7	97
Fredericton	5.3	4.8	0.5	>10	135.4	81.6	166
Moncton	4.7	3.5	1.1	>10	111.1	97.6	114
Saint John	5.0	3.7	1.3	>10	145.5	105.3	138
Woodstock	4.2	3.7	0.5	>10	101.0	80.4	126
Amherst (Nappan)	5.3	4.1	1.1	10	110.7	91.6	121
Greenwood	6.0	5.3	0.7	>10	97.1	83.2	117
Halifax (Shearwater)	6.0	4.3	1.7	7	116.6	117.7	99
Halifax Stanfield Intl A	5.5	4.4	1.0	10	125.4	114.5	110
Sydney	3.1	2.5	0.6	>10	114.0	133.3	86
Truro (Debert)	5.3	4.3	1.1	>10	104.4	87.7	119
Yarmouth	6.0	5.1	0.9	>10	130.4	101.4	129
Charlottetown	4.1	3.1	1.0	>10	91.3	83.7	109
Summerside	4.4	3.0	1.4	>10	84.6	84.2	101

Snowfall

Little snow fell in the Maritimes in April. Snowfall amounts in all three provinces were 10-50 cm less than normal for the month. The main areas that saw snowfall were in northern NB and due to onshore winds off the Gulf of St. Lawrence. The one exception to those areas was Yarmouth, NS, where over twice the normal amount of snow fell (22cm total). Parts of the Cape Breton saw more snowfall (10-25cm) when compared to other Aprils and Sydney reported twice its usual snowfall for the month.

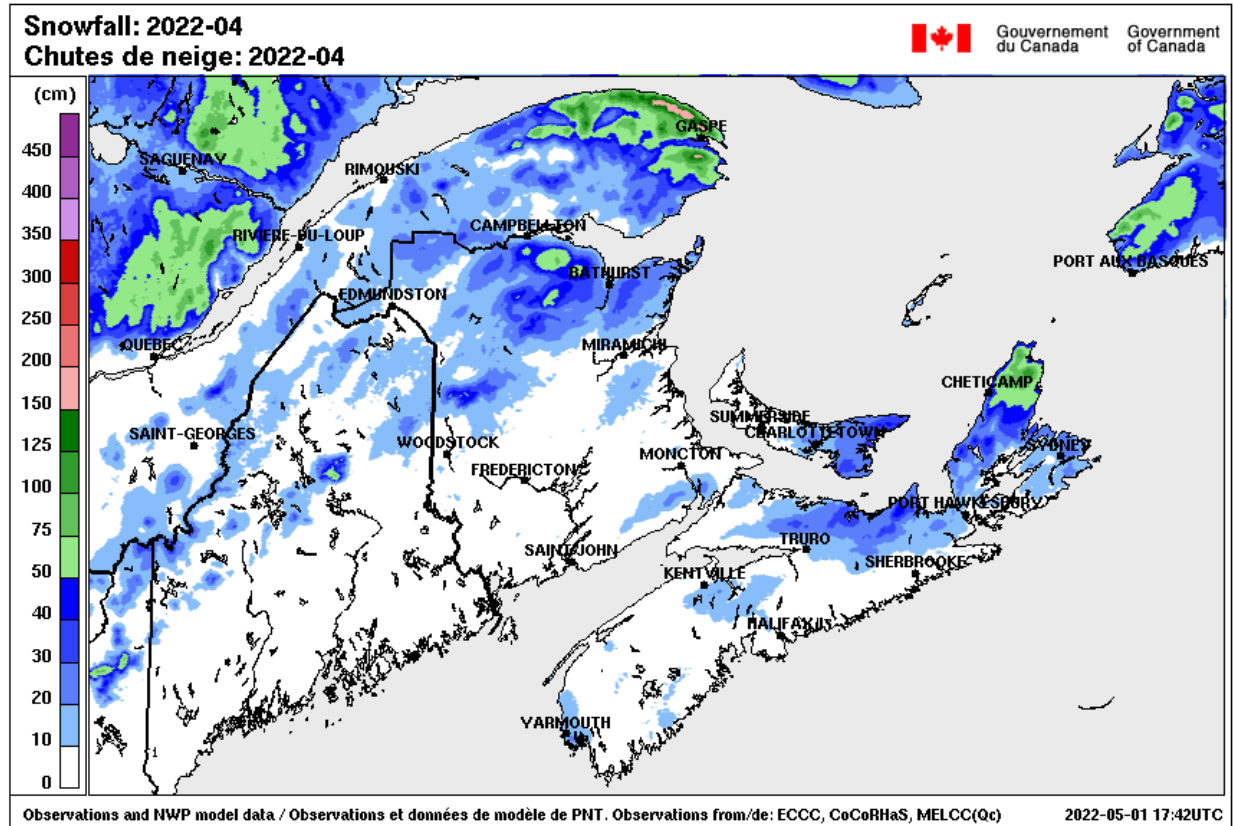


Figure 3: Monthly total snowfall for April 2022 based on a blend of observations and modelled data.

Snow Depth

By the end of April the only snow remaining in the Maritimes was in the higher elevations of the Cape Breton Highlands and in northern NB, a similar pattern to March but with significantly reduced snow depths. Maximum snow depths of 60-80 cm estimated in the Cape Breton highlands and up to 20 cm in northern NB.

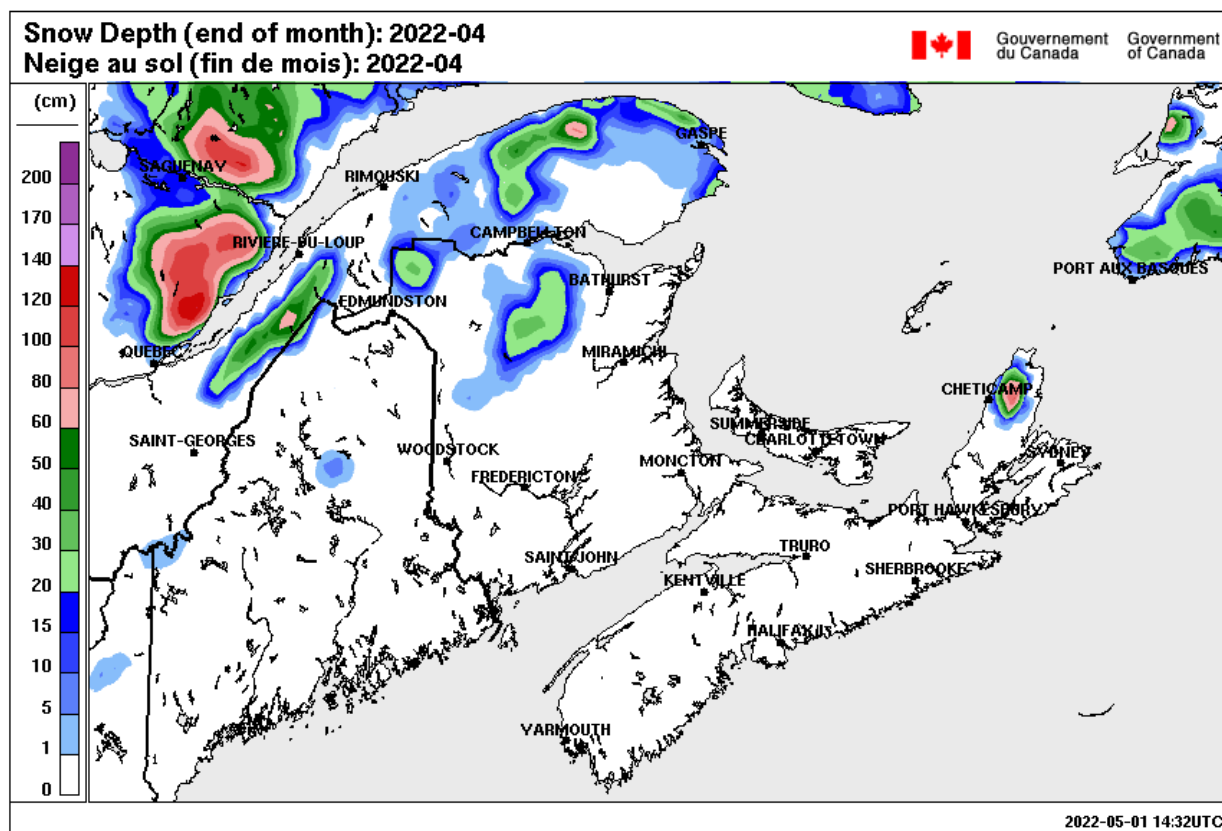
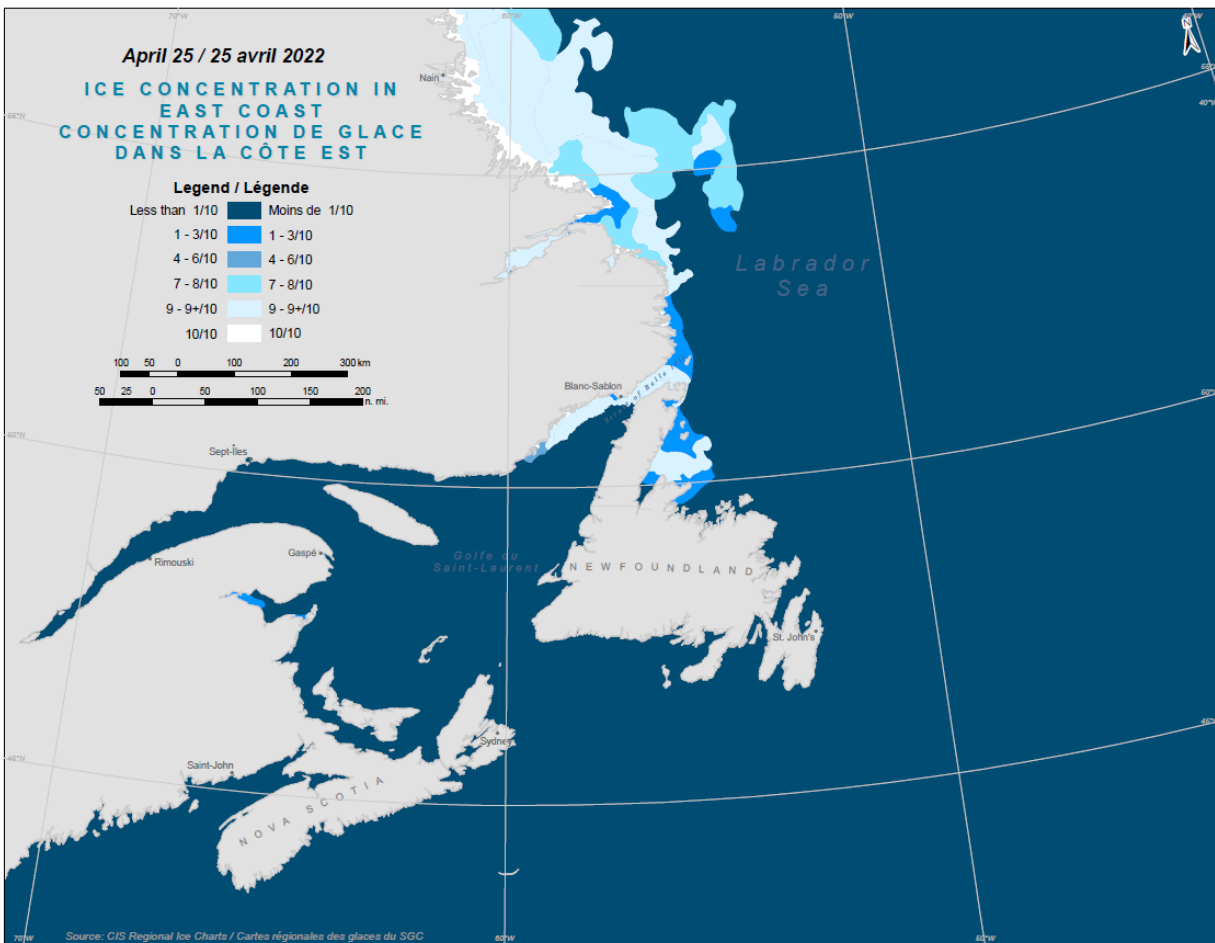


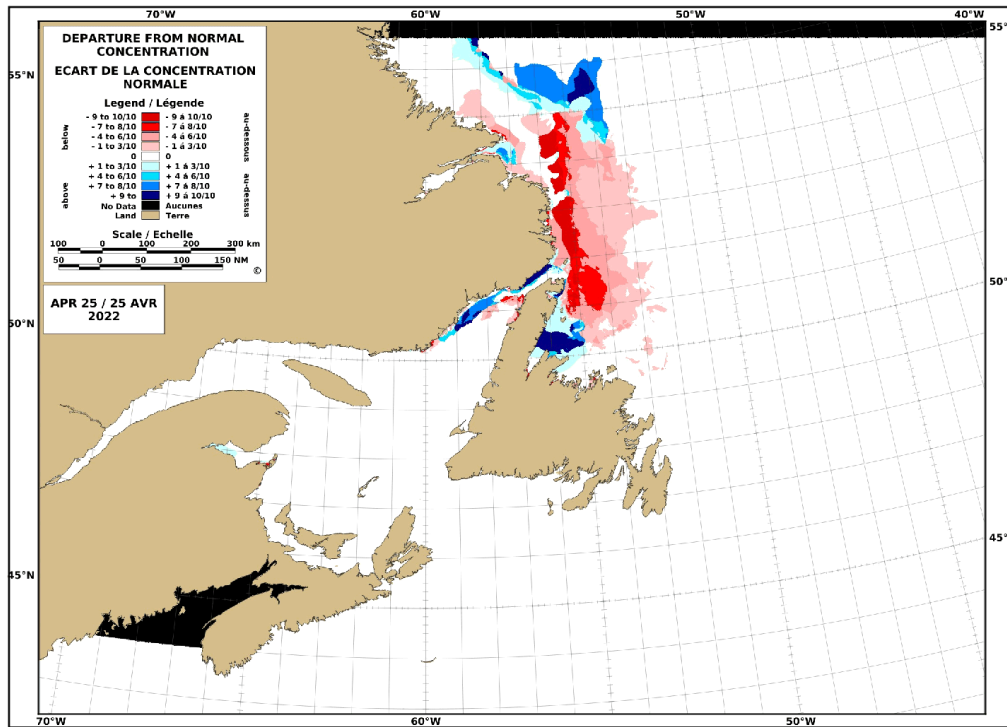
Figure 4: Month-end snow depth for April 2022 based on a blend of observations and modelled data.

Sea ice

Gulf of St. Lawrence:

The Gulf of St. Lawrence marked another month of below normal ice conditions through April. The Gulf started the month as predominantly open water except for some mobile ice around the Magdalen Islands and near Cape Breton. The majority of ice in the Gulf was contained in the Northeast Arm as ice continued to flow from the Strait of Belle Isle, resulting in an ice coverage of 3.1%. By mid-month, the mobile ice in the middle of the Gulf had melted and the consolidated ice along the New Brunswick and the western Prince Edward Island coast began to fracture. At the end of April, all of the ice, outside of the Northeast Arm, had melted. While, within the Northeast Arm, conditions remained relatively unchanged since the beginning of the month. Ice coverage had dropped to 1.1% by the end of April.





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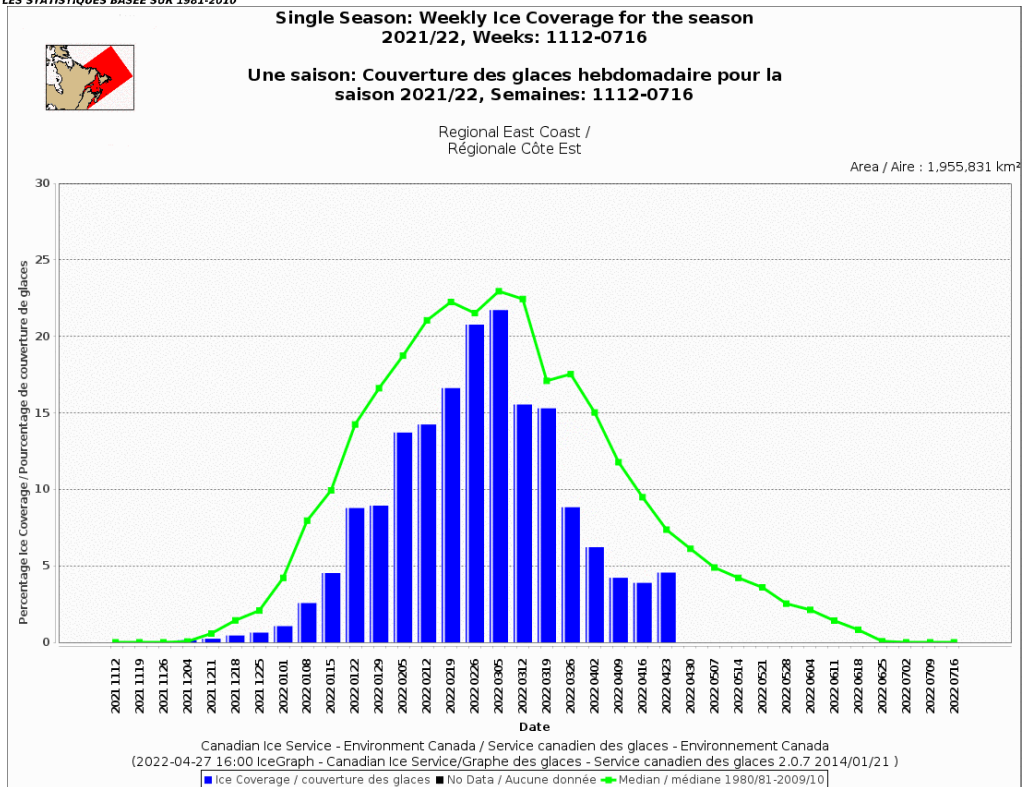


Figure 5, 6, & 7: Sea ice analyses charts Concentration (top), Departure from Normal (middle) and Ice Coverage compared to normal (bottom) for April 25 2022 for the East Coast.

Source: <https://iceweb1.cis.ec.gc.ca/Prod/page2.shtml?subID=2004>

Significant Weather Events & Impacts

April 3-4: A low pressure system moved just south of the Nova Scotia coastline. Rain initially along the NS coast changed quickly to snowfall in NS and remained all snow in Prince Edward Island. School openings were delayed in Cape Breton. Total snowfall ranged from 20-30 cm while total precipitation was 20-30mm. Winds in Sydney gusted up to 92 km/h.

[Some classes delayed or cancelled in Cape Breton due to storm cleanup | CBC News](#)

[Maritime weather: Snowfall warnings in N.S. and P.E.I. | CTV News](#)

April 19: A strong storm crossed northern New Brunswick spreading rain and wind across the Maritimes. Rainfall amounts of 40-52 mm (unofficial observations up to 66 mm) in NS and 30-77 mm in NB. Precipitation amounts pushed some areas of the Saint John River over the flood stage when combined with snow melt and already high water levels. Some light snow and ice pellets fell in northern NB. Strong winds gusted into the low 80 km/h range in southern NB and PEI and over 100 km/h in many coastal locations in NS. Les Suetes winds gusted from 130-142 km/h. Many April 19 daily precipitation records were broken across NS and NB.

[160 km/h winds could cause damage, send shingles flying in parts of Cape Breton | CBC News](#)

[Thousands lose power as howling winds sweep eastern N.B. | CBC News](#)

[Heavy rain wreaks havoc, 2 N.B. communities expected to reach flood stage | CBC News](#)

ECCC Weather summaries – [NS](#) [NB](#)

April 27-30 : A slow moving low crossed northern Nova Scotia before stalling just south of the province. Some late season snow fell in northern New Brunswick while the rest of the Maritimes saw mainly a rain event, with the highest rainfall amounts in NB. Off and on precipitation continued through the end of the month during this long lasting 4 day event. Rainfall of 30-55 mm reported in NB, 30-40 mm NS and PEI, with one private station reporting 15cm of wet snow in northern NB and up to 30 cm in the St-Arthur region.

Daily Temperature and Precipitation Time Series

The time series below for the three provincial capitals indicate near to above normal precipitation. In Halifax and Fredericton almost half the precipitation for the month fell on a single day. Less precipitation fell in Charlottetown on that day, so amounts were near normal for the month. Temperatures in all three capitals were generally near to above normal. One short below normal period was observed in Charlottetown with all three stations seeing a cold end to the month.

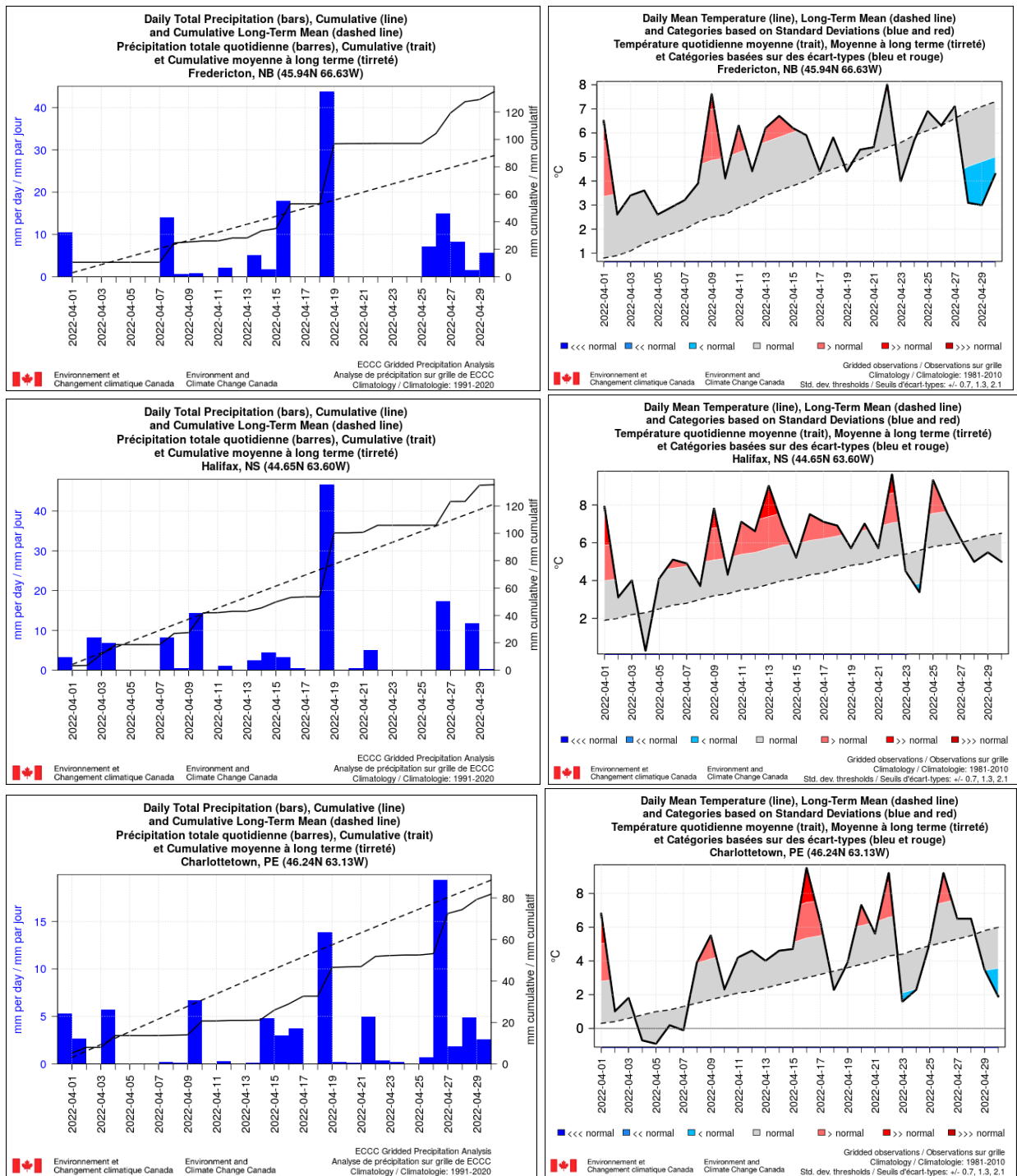
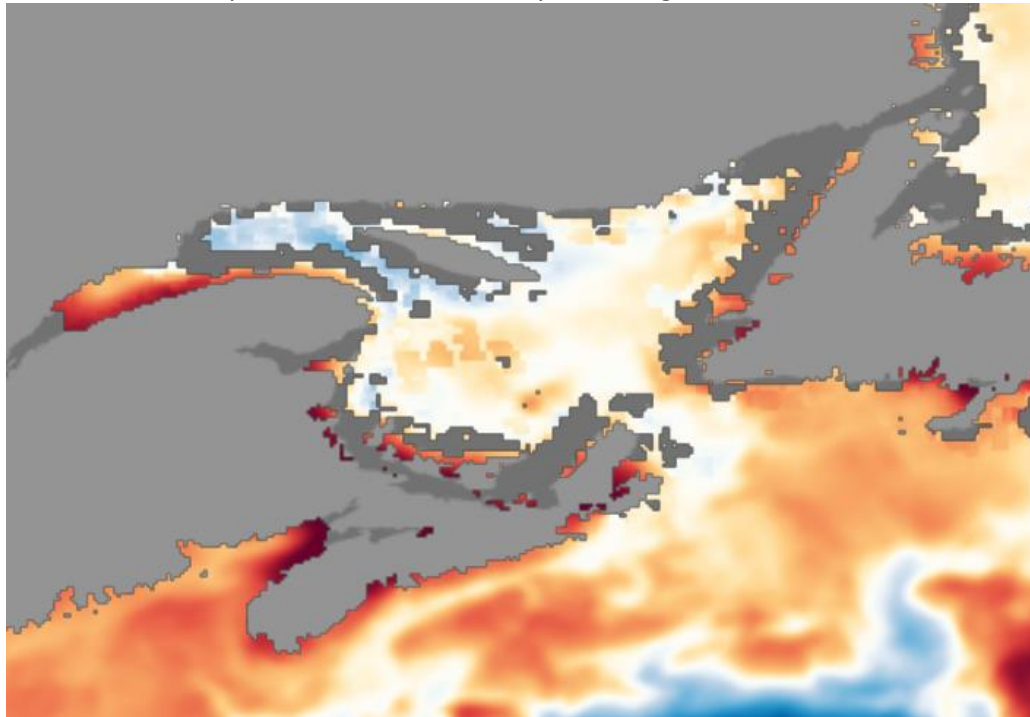


Figure 8: Daily total precipitation (Canadian Precipitation Analysis (CaPA) data) and mean temperature for Fredericton, NB (top), Halifax, NS (middle), and Charlottetown, PEI (bottom), for April 2022 based on gridded data, compared to long-term means (Canadian Precipitation Analysis (CaPA) data, 1991-2020, and temperature data, 1981 to 2010).

Sea Surface Temperature - Departure from Normal

The sea surface temperature (SST) departure from normal map for the week of April 18-24, 2022 indicates most of the centre of the Gulf of St. Lawrence has temperatures near normal (when not ice covered). Much of the ice has melted in the last month. The St Lawrence Estuary and most coastal locations have temperatures above normal by 3 to 5 degrees Celsius.



Degrees C / degrés C



Figure 9: Sea surface temperature (SST) anomaly map for April 18-24, 2022. Data based on 1981-present.

Source: <https://www.nvl.noaa.gov/view/#SSTA>.

River Flows

The daily stream flow anomaly map for the Maritimes provinces for May 1st, 2022 shows stream flows for most rivers were near normal. A few stations in central Nova Scotia show slightly below normal flows with many stations in NB are still not reporting due to winter ice conditions. Two stations in PEI showed slightly higher than normal flow due to precipitation in the last 4 days of the month.

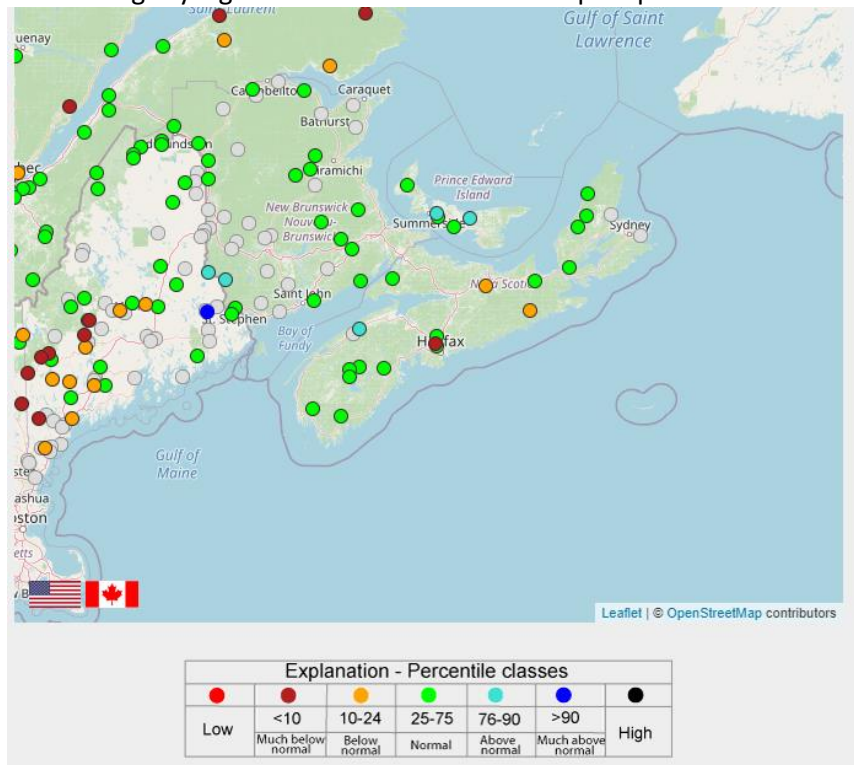


Figure 10: North America Water Watch map of stream flow compared to normal stream flow for the day of the year, as of May 1st, 2022, for the Maritime provinces.

Water levels on the Saint John River looked to have peaked with the April 19th storm. The graphic below indicates the peak water level (meters) on the Saint John River at Maugerville occurred around the 18th of April with water levels at the end of the month near normal.

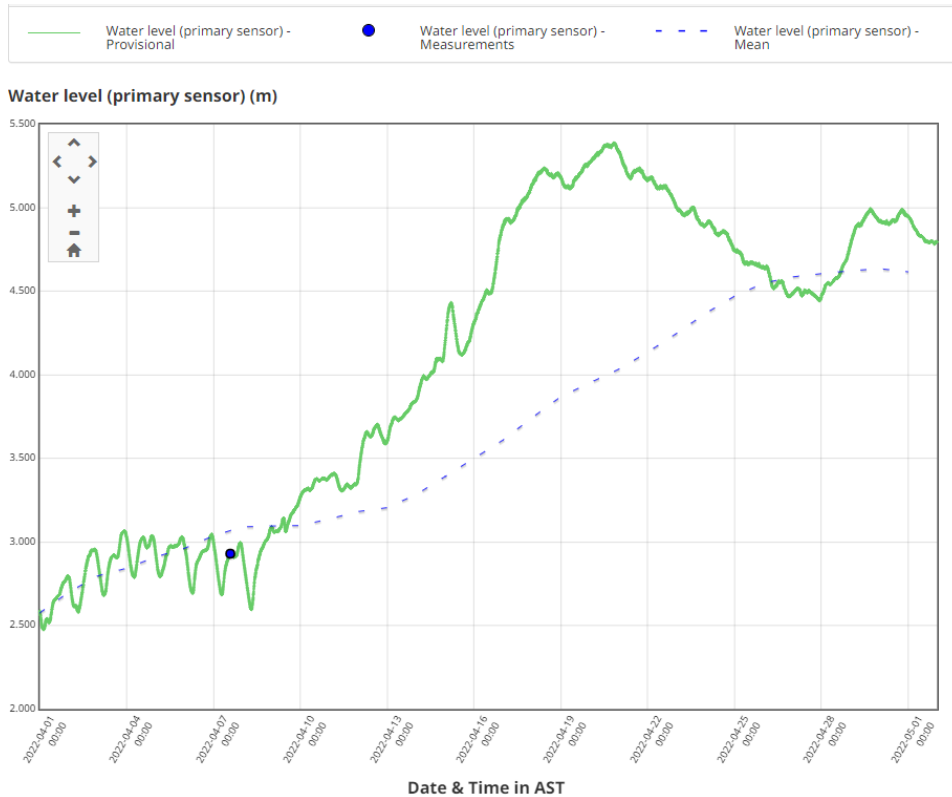


Figure 11: Water Level of the Saint John River at Maugerville for April 2022. Source: [Real-Time Hydrometric Data Map Search - Water Level and Flow - Environment Canada \(ec.gc.ca\)](https://real-time-hydrometric-data-map-search-water-level-and-flow-environment-canada.ec.gc.ca)

Other Climate Related Information

[2021 was the warmest year on record in the Gulf of Maine | CBC News](#)

['It scares the bejesus out of me': coastal erosion eats away at Nova Scotia's waterfront | CBC Radio](#)

[Halifax winters becoming noticeably warmer - CityNews Halifax](#)

[Sixty years of data shows more hot days, fewer frosty days in Nova Scotia | CBC News](#)

[Gagetown hits flood stage on Monday as St. John River rises | CBC News](#)

Temperature & Precipitation Outlook

The four-week outlook for temperature and precipitation from the Canadian Global Ensemble Prediction System (GEPS) for May 2 to 30, 2022 indicates above normal temperatures are probable for NB, central and western NS and northern Cape Breton with near normal temperatures for PEI, eastern mainland of NS and southern Cape Breton. There are no significant trends for precipitation, therefore, near normal conditions are forecast.

The four-week outlook from April performed well for temperature with most southern areas being above or slightly normal. The precipitation outlook also performed well for the region except for southwestern through northeastern NB where above normal precipitation occurred and was not forecast.

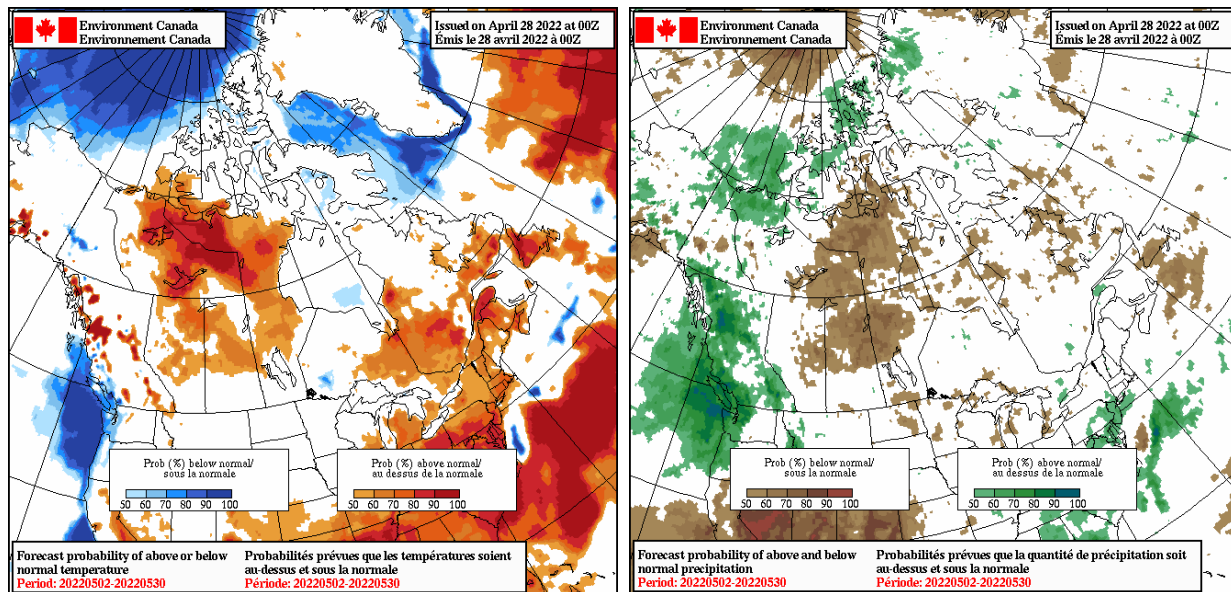


Figure 12: Temperature and Precipitation Anomaly Forecasts from the MSC Global Ensemble Prediction System issued April 28, 2022 for May 2-30, 2022.

Source: http://collaboration.cmc.ec.gc.ca/cmc/ensemble/monthly/prev_mens_geps.html

Contact

Environment and Climate Change Canada, Meteorological Service of Canada,
Prediction Services Operations – Atlantic and Ice, Applied Climatology Services
Email address: climatatlantique-climateatlantic@ec.gc.ca

Appendix

Table A1: Station metadata for the selected locations in Table 1.

Location/ Emplacement	Station Name/ Nom de la station	Climate ID/ ID climat	Station Operator/ Opérateur de station ¹	Type ²
Bas Caraquet	BAS CARAQUET	8100467	ECCC-MSC	A
Charlo	CHARLO AUTO	8100885	ECCC-MSC	A
Fredericton	FREDERICTON CDA CS	8101605	ECCC-MSC	A
Moncton	MONCTON/GREATER MONCTON ROMEO LEBLANC INTL A	8103201	NavCan	H
Saint John	SAINT JOHN A	8104901	NavCan	H
Woodstock	WOODSTOCK NEWBRIDGE	8105603	ECCC-MSC	A
Amherst (Nappan)	NAPPAN AUTO	8203702	ECCC-MSC	A
Greenwood	GREENWOOD A	8202000	DND	H
Halifax (Shearwater)	SHEARWATER RCS	8205092	ECCC-MSC	A
Halifax Stanfield Intl A	HALIFAX STANFIELD INT'L A	8202251	NavCan	H
Sydney	SYDNEY A	8205701	NavCan	H
Truro (Debert)	DEBERT	8201390	ECCC-MSC	A
Yarmouth	YARMOUTH A	8206495	NavCan	H
Charlottetown	CHARLOTTETOWN A	8300301	NavCan	H
Summerside	SUMMERSIDE	8300596	ECCC-MSC	A

¹ Station Operator: CCN = Cooperative Climate Network, ECCC-MSC= Environment and Climate Change Canada, Meteorological Service of Canada, DND = Department of National Defence, NavCan = Nav Canada

² Type: A = Automatic observation, H = Human observation

Table A2: Monthly totals for April 2022 for New Brunswick stations, compared to 1981-2010 Canadian Climate Normals (if available for same or nearby station). Temperature difference from normal: cells shaded pink if ≥ 1 °C, blue if ≤ -1 °C. Precipitation as a percent of normal: cells shaded green if $\geq 125\%$ of normal, yellow if $\leq 75\%$ of normal.

Station Name / Nom de la station	Prov	TC ID / ID de TC	Station Type / Type de station	Mean Temperature / Température moyenne (°C)			Total Precipitation / Précipitations totales (mm)		
				Monthly Mean / Moyenne mensuelle	Normal Mean / Moyenne Normale	Diff from Normal / Écart avec la normale	Monthly Total / Total mensuel	Normal Total / Total normal	Total as % of Normal / Total en % de la normale
BAS CARAQUET	NB	WXS	AU8	2.3	1.9	0.4	133.3	82.6	161
BAS CARAQUET	NB		DAILY				119.2	82.6	144
BATHURST A	NB	ZBF	NCA	3.5	3.2	0.3			
CHARLO AUTO	NB	ZCR	AU8	2.5	1.9	0.6	69.8	71.7	97
MIRAMICHI RCS	NB	ACQ	AU8	3.9	3.2	0.7	119.2	84.9	140
DOAKTOWN AUTO RCS	NB	ADN	AU8	4.2	3.7	0.5	130.0	83.4	156
EDMUNDSTON	NB	ERM	AU8	2.4			68.3	58.2	117
FREDERICTON INTLA	NB	YFC	NCA	5.0	4.5	0.5			
FREDERICTON CDA CS	NB	AFC	AU8	5.3	4.8	0.5	135.4	81.6	166
FUNDY PARK (ALMA) CS	NB	AFY	AU8	5.2	4.1	1.2	128.0	120.7	106
KOUCHIBOUGUAC	NB	AKC	AU8	3.8	3.3	0.5	140.8	106.9	132
MECHANIC SETTLEMENT	NB	AMS	AU8	3.5			171.4		
MISCOU ISLAND (AUT)	NB	WMI	AU8	2.1					
MONCTON/GREATER MONCTON ROMEO LEBLANC INTLA	NB	YQM	NCH	4.7	3.5	1.1	111.1	97.6	114
OAK POINT	NB		DAILY	5.3	4.8	0.5	151.9	89.4	170
POINT LEPREAU CS	NB	WPE	AU8	5.3	4.0	1.2	113.7	116.0	98
RED PINES	NB	ARP	AU8	3.0	2.8	0.3	160.3	75.6	212
SAINT JOHN A	NB	YSJ	NCH	5.0	3.7	1.3	145.5	105.3	138
ST. STEPHEN	NB	WSS	AU8	5.6			137.8		
SUSSEX FOUR CORNERS	NB	ASF	AU8	5.7	4.8	0.9	100.9	89.7	112
WOODSTOCK NEWBRIDGE	NB	EWD	AU8	4.2	3.7	0.5	101.0	80.4	126
Average				4.1	3.6	0.7	124.3	89.2	137
Max				5.7	4.8	1.3	171.4	120.7	212
Min				2.1	1.9	0.3	68.3	58.2	97

Table A3: Same as Table A2, for Nova Scotia.

Station Name / Nom de la station	Prov	TC ID / ID de TC	Station Type / Type de station	Mean Temperature / Température moyenne (°C)			Total Precipitation / Précipitations totales (mm)		
				Monthly Mean / Moyenne mensuelle	Normal Mean / Moyenne Normale	Diff from Normal / Écart avec la normale	Monthly Total / Total mensuel	Normal Total / Total normal	Total as % of Normal / Total en % de la normale
ALDERSVILLE	NS	ANR	AU8	4.9	4.7	0.3	122.1	107.8	113
BACCARO PT	NS	ACP	AU8	6.0	4.9	1.1	97.8	106.2	92
BEAVER ISLAND (AUT)	NS	WBV	AU8	4.3					
BEDFORD RANGE	NS	ABR	AU7	5.5	4.1	1.4			
BRIER ISLAND	NS	WVU	AU8	6.2			96.1		
CARIBOU POINT (AUT)	NS	WBK	AU8	4.7	4.2	0.5	75.3	93.7	80
CHETICAMP HIGHLANDS	NS	AHT	AU8	3.8	3.6	0.2	130.3	88.1	148
COLLEGEVILLE AUTO	NS	AGL	AU8	3.5	3.5	0.1	124.5	94.2	132
DEBERT	NS	ZDB	AU8	5.3	4.3	1.1	104.4	87.7	119
EMERGENCY WEATHER STATION #2 (NEW ROSS)	NS	ERU	AU8	5.2	4.7	0.5	128.9	107.8	120
ESKASONI FIRST NATION	NS	AEI	AU8	4.5	3.2	1.3	119.4	125.8	95
GRAND ETANG	NS	WZQ	AU8	3.6	3.6	0.1			
GREENWOOD A	NS	YZX	WOD	6.0	5.3	0.7	97.1	83.2	117
HALIFAX DOCKYARD	NS	AHD	AU7	6.3	4.9	1.4			
HALIFAX KOOTENAY	NS	AHK	AU7	5.7	4.3	1.5			
HALIFAX STANFIELD INT'L A	NS	YHZ	NCH	5.5	4.4	1.0	125.4	114.5	110
HALIFAX WINDSOR PARK	NS	AHW	AU7	6.3	4.9	1.4			
HART ISLAND (AUT)	NS	WRN	AU8	4.0					
INGONISH BEACH RCS	NS	XIB	AU7	3.3	2.7	0.5	160.1	168.6	95
KEJIMKUJIK 1	NS	WKG	AU8	5.6	5.1	0.5	128.5	123.9	104
KENTVILLE CDA CS	NS	XKT	AU7	6.1	5.3	0.8	87.3	92.7	94
LOUISBOURG	NS	AUU	AU8	3.0	2.2	0.8	141.8	147.5	96
LUNENBURG	NS	XLB	AU8	5.9	5.0	0.9			
MALAY FALLS	NS	XMY	AU8	4.8	3.2	1.6	136.2	132.2	103
MCNABS ISLAND (AUT)	NS	XMI	AU8	6.0	4.3	1.7			
NAPPAN AUTO	NS	XNP	AU8	5.3	4.1	1.1	110.7	91.6	121
NORTH MOUNTAIN CS	NS	XNM	AU7	0.3	1.4	-1.1	111.4		
NORTHEAST MARGAREE (AUT)	NS	WNS	AU7	3.7	3.3	0.3	109.0	95.7	114
OSBORNE HEAD DND	NS	AOS	AU7	5.1	4.3	0.8			
PARRSBORO	NS	APR	AU8	4.5	4.2	0.3	106.8	103.6	103
PORT HAWKESBURY	NS	YPD	NCA	3.6	2.7	0.9			
SABLE ISLAND	NS	ASB	AU8	5.0	4.0	0.9	37.9	114.8	33
SHEARWATER JETTY	NS	WZU	AU7	5.9	4.3	1.6			
SHEARWATER RCS	NS	AAW	AU8	6.0	4.3	1.7	116.6	117.7	99
SHELburne SANDY POINT	NS	ESB	AU8	5.6			142.5		
ST PAUL ISLAND (AUT)	NS	WEF	AU8	1.5					
SYDNEY A	NS	YQY	NCH	3.1	2.5	0.6	114.0	133.3	86
SYDNEY CS	NS	AQY	AU8	2.9	2.5	0.4			
TRACADIE	NS	XTD	AU8	3.9	3.5	0.4	110.0	94.2	117
UPPER STEWIACKE RCS	NS	AOH	AU8	4.1	4.2	-0.2	98.2	101.5	97
WESTERN HEAD	NS	WWE	AU8	5.9			116.1		
YARMOUTH A	NS	YQI	NCH	6.0	5.1	0.9	130.4	101.4	129
YARMOUTH RCS	NS	EQI	AU8	5.9	5.1	0.8	123.9	101.4	122
Average				4.7	4.0	0.8	113.9	109.2	105
Max				6.3	5.3	1.7	160.1	168.6	148
Min				0.3	1.4	-1.1	37.9	83.2	33

Table A4: Same as Table A2, for Prince Edward Island.

Station Name / Nom de la station	Prov	TC ID / ID de TC	Station Type / Type de station	Mean Temperature / Température moyenne (°C)			Total Precipitation / Précipitations totales (mm)		
				Monthly Mean / Moyenne mensuelle	Normal Mean / Moyenne Normale	Diff from Normal / Écart avec la normale	Monthly Total / Total mensuel	Normal Total / Total normal	Total as % of Normal / Total en % de la normale
CHARLOTTETOWN A	PEI	YYG	NCH	4.1	3.1	1.0	91.3	83.7	109
EAST POINT (AUT)	PEI	WEP	AU8	2.8	2.4	0.4	97.9	92.7	106
NORTH CAPE	PEI	WNE	AU8	3.0			93.8		
ST. PETERS	PEI	ZSP	AU8	3.3	2.4	0.9	107.1	86.8	123
STANHOPE	PEI	ANH	AU8	3.6			103.0		
SUMMERSIDE	PEI	WSD	AU8	4.4	3.0	1.4	84.6	84.2	101
MAPLE PLAINS	PEI	XMP	AU8	4.4	3.1	1.3			
HARRINGTON CDA CS	PEI	AHR	AU8	3.8	3.1	0.8	90.8	83.7	108
Average				3.7	2.8	1.0	95.5	86.2	109
Max				4.4	3.1	1.4	107.1	92.7	123
Min				2.8	2.4	0.4	84.6	83.7	101

Table A5: Monthly totals of rainfall and snowfall and month end snow depth, for March 2022, for Maritimes stations, compared to 1981-2010 Canadian Climate Normals (if available for same or nearby station). Rainfall/snowfall as a % of normal: cells shaded green if >125% of normal, yellow if <75% of normal.

Station Name	Prov	TC ID	Station Type	Total Rainfall (mm)			Total Snowfall (cm)			End Month Snow on Ground		
				Monthly Total	Normal Total	Total as % of Normal	Monthly Total	Normal Total	Total as % of Normal	End Month SOG	Norm End Mo SOG	End Month as % Normal
AROOSTOOK	NB		DAILY									
BAS CARAQUET	NB		DAILY	92.6	48.1	192	26.6	34.5	77	0	6	0%
FREDERICTON 4.0 SSE (CAN-NB-1)	NB		CoCoRaHS				Trace	13.5	0	0	0	0%
MONCTON/GREATER MONCTON ROMEO LEBLANC INTL A	NB	YQM	NCH	100.6	62.3	162	12.6	31.2	40		1	
OAK POINT	NB		DAILY	151.3	74.9	202	0.6	14.5	4	0	0	
SAINT JOHN A	NB	YSJ	NCH	145.5	85.7	170	0.0	20.0	0		0	
GREENWOOD A	NS	YZX	WOD	84.0	67.8	124	11.8	15.1	78		0	
HALIFAX	NS	YHZ	NCH	116.2	98.2	118	11.0	15.9	69		0	
LAKE MAJOR	NS		DAILY									
SYDNEY A	NS	YQY	NCH	83.4	112.2	74	46.6	21.4	217		0	
WATERVILLE CAMBRIDGE	NS		DAILY									
YARMOUTH A	NS	YQI	NCH	108.5	92.0	118	21.9	9.8	223		0	
CHARLOTTETOWN A	PEI	YYG	NCH	77.4	59.7	130	14.9	24.4	61		1	
Average				106.6	77.9	143	16.2	20.0	77	0.0	0.8	0%
Max				151.3	112.2	202	46.6	34.5	223	0	6	0%
Min				77.4	48.1	74	0.0	9.8	0	0	0	0%

Glossary

CaPA: The Canadian Precipitation Analysis. Full details available [here](#)

Standard Deviation: A statistical measure of how data compares to the mean (average) value. The standard deviation referenced in these monthly summaries is relative to the Canadian Climate Normals data set. The higher the standard deviation value, the further the data is from the normal value.

Temperature Anomaly: The deviation of temperature in a given region over a specified period from the long-term average value for the same region.

A more extensive glossary for weather and climate related terminology can be found [here](#).

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