New Brunswick

Integrated Climate Bulletin Spring 2021 Review & Summer Outlook

Jill Maepea Meteorological Service of Canada Environment and Climate Change Canada June 2, 2021





March 2021; Climate Summary

				Mean 1	emperature (°C)		Total Precip		(mm)
			Station	Monthly	Normal	Diff from	Monthly	Normal	Total as %
Station Name	Prov	TC ID	Type	Mean	Mean	Normal	Total	Total	of Normal
BAS CARAQUET	NB	WXS	AU8	-2.9	-4.1	1.2			
BAS CARAQUET	NB		DAILY				74.8	91.2	82
BATHURST A	NB	ZBF	NCA	-3.0	-3.8	0.7			
BOUCTOUCHE CDA CS	NB	ABT	AU8	-1.6	-3.0	1.4			
CHARLO AUTO	NB	ZCR	AU8	-3.6	-4.9	1.3	55.6	77.4	72
MIRAMICHI RCS	NB	ACQ	AU8	-2.2	-3.4	1.2			
DOAKTOWN AUTO RCS	NB	ADN	AU8	-2.8	-3.3	0.6			
EDMUNDSTON	NB	ERM	AU8	-4.6			64.5	56.1	115
FREDERICTON INTL A	NB	YFC	NCA	-1.4	-2.4	1.0			
FREDERICTON CDA CS	NB	AFC	AU8	-1.7	-2.2	0.5			
FUNDY PARK (ALMA) CS	NB	AFY	AU8	-1.1	-1.7	0.6			
GAGETOWN AWOS A	NB	YCX	AU5	-1.0	-1.8				
KOUCHIBOUGUAC	NB	AKC	AU8	-1.4	-3.2	1.8	92.0	123.4	75
MISCOU ISLAND (AUT)	NB	WMI	AU8	-3.2			72.1		
MONCTON INTL A	NB	YQM	NCH	-1.2	-2.9	1.7	66.9	115.6	<u>→</u> 58
OAK POINT	NB		DAILY	-1.7			62.6	100.7	62
POINT LEPREAU CS	NB	WPE	AU8	-0.2	-1.5	1.3			
RED PINES	NB	ARP	AU8	-2.9	-4.2	1.3			
SAINT JOHN A	NB	YSJ	NCH	-2.0	-2.5	0.5	94.0	108.2	87
ST. STEPHEN	NB	WSS	AU8	-0.3					
SUSSEX FOUR CORNERS	NB	ASF	AU8	-1.0	-1.9	0.8			
WOODSTOCK NEWBRIDGE	NB	EWD	AU8	-2.5	-3.4	0.9			
Average				-2.0	-2.9	1.0	72.8	96.1	79
Max				-0.2	-1.5	1.8	94.0	123.4	
Min				-4.6	-4.9	0.5	55.6	56.1	58



April 2021; Climate Summary

				Mean T	emperati	ure (°C)	Total Precipitation(mm)			
			Station	Monthly	Normal	from	Monthly	Normal	Total as %	
Station Name	Prov	TC ID	Type	Mean	Mean	Normal	Total	Total	of Normal	
BAS CARAQUET	NB	WXS	AU8	3.6	1.9	1.7				
BAS CARAQUET	NB		DAILY				120.6	82.6	146	
BATHURST A	NB	ZBF	NCA	4.4	3.2	1.3				
BOUCTOUCHE CDA CS	NB	ABT	AU8	4.0	3.0	1.0			_1	
CHARLO AUTO	NB	ZCR	AU8	4.3	1.9	2.4	126.6	71.7	177	
MIRAMICHI RCS	NB	ACQ	AU8	4.7	3.2	1.5				
DOAKTOWN AUTO RCS	NB	ADN	AU8	5.1	3.7	1.4				
EDMUNDSTON	NB	ERM	AU8	4.1						
FREDERICTON INTL A	NB	YFC	NCA	6.1	4.5	1.5				
FREDERICTON CDA CS	NB	AFC	AU8	6.5	4.8	1.7				
FUNDY PARK (ALMA) CS	NB	AFY	AU8	5.9	4.1	1.8				
GAGETOWN AWOS A	NB	YCX	AU5	5.9	4.8	1.1				
KOUCHIBOUGUAC	NB	AKC	AU8	3.6	3.3	0.4	156.4	106.9	146	
MISCOU ISLAND (AUT)	NB	WMI	AU8	2.9						
MONCTON INTL A	NB	YQM	NCH	4.5	3.5	0.9	78.4	97.6	≥ 80	
OAK POINT	NB		DAILY	6.0	4.8	1.2	127.7	89.4	143	
POINT LEPREAU CS	NB	WPE	AU8	5.9	4.0	1.8				
RED PINES	NB	ARP	AU8	4.1	2.8	1.3				
SAINT JOHN A	NB	YSJ	NCH	5.4	3.7	1.8	129.7	105.3	123	
ST. STEPHEN	NB	WSS	AU8	6.9						
SUSSEX FOUR CORNERS	NB	ASF	AU8	5.8	4.8	1.1				
WOODSTOCK		E1115								
NEWBRIDGE	NB	EWD	AU8	5.6	3.7	1.9				
Average				5.0	3.6	1.4	123.2	92.2	136	
Max				6.9	4.8	2.4	156.4	106.9	177	
Min				2.9	1.9	0.4	78.4	71.7	80	



May 2021; Climate Summary

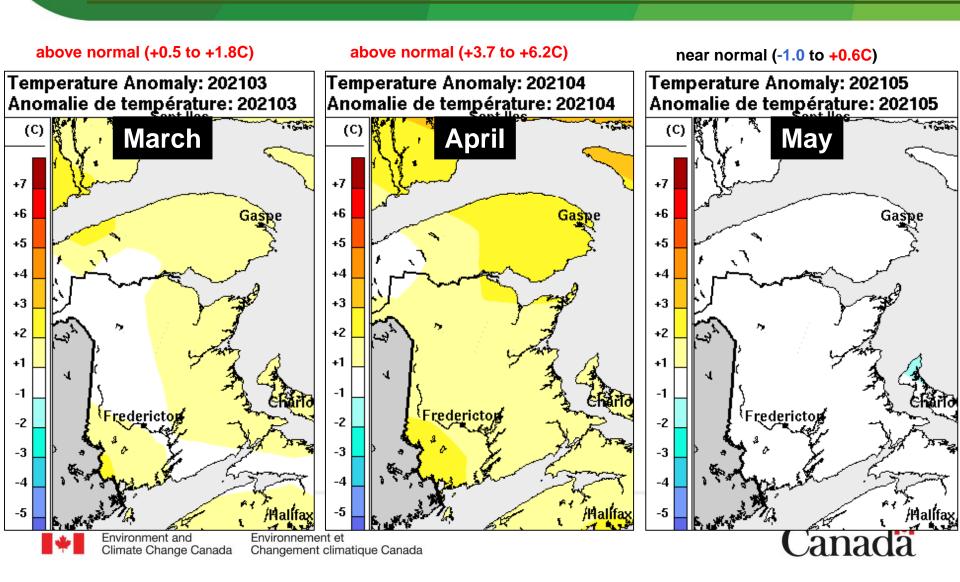
			Mea	n Temperat	ure /	Total Precipitation /			
			Tempér	ature moye	nne (°C)	Précipitations totales (mm)			
		Type /	Monthly	Normal	Diff from	Monthly	Normal	Normal /	
	TC ID /		Mean /	Mean /	Normal /	Total /	Total /	Total en %	
Station Name / Nom de la	ID de	de	Moyenne	Moyenne	Écart avec	Total	Total	de la	
station	TC	station	mensuelle	Normale	la normale	mensuel	normal	normale	
BAS CARAQUET*	WXS	AU8	9.3	8.8	0.5	61.8	85.6	72	
BAS CARAQUET		DAILY				69.2	85.6	81	
BATHURST A	ZBF	NCA	9.7	9.7	0.0	86.6			
BOUCTOUCHE CDA CS*	ABT	AU8	9.5	9.8	-0.3	89.0	100.5		
CHARLO AUTO*	ZCR	AU8	9.5	9.0	0.5	51.4	84.8	² 61	
*MIRAMICHI RCS	ACQ	AU8	10.0	10.0	0.0	97.2	99.5	98	
DOAKTOWN AUTO RCS*	ADN	AU8	10.1	10.6	-0.5	108.6	113.2	96	
EDMUNDSTON*	ERM	AU8	9.0			62.4	90.4	69	
FREDERICTON INTL A	YFC	NCA	11.0	11.1	-0.1				
FREDERICTON CDA CS*	AFC	AU8	11.2	11.3	-0.1	70.2	103.8	68	
FUNDY PARK (ALMA) CS	AFY	AU8	9.4	9.5	-0.1				
GAGETOWN AWOS A	YCX	AU5	10.9	11.3	-0.4				
KOUCHIBOUGUAC	AKC	AU8	8.9	9.8	-0.9	100.6	112.2	90	
MISCOU ISLAND (AUT)*	WMI	AU8	8.2			66.4			
MONCTON INTL A	YQM	NCH	9.7	10.0	<u> </u>	113.5	96.9	117	
OAK POINT		DAILY	10.3	11.3	-1.0	96.6	105.8	91	
POINT LEPREAU CS	WPE	AU8	9.3	8.7	2 0.6				
RED PINES*	ARP	AU8	8.9	9.8	-0.9	95.6	96.0	100	
SAINT JOHN A	YSJ	NCH	9.6	9.5	0.2	71.9	109.8	65	
ST. STEPHEN*	WSS	AU8	11.0			57.8			
SUSSEX FOUR CORNERS*	ASF	AU8	10.4	11.1	-0.7	77.4	103.0	75	
WOODSTOCK NEWBRIDGE*	EWD	AU8	10.4	10.9	-0.5	128.6	94.2	137	
Average			9.8	10.1	-0.2	83.6	98.7	87	
^r d Max			11.2	11.3	0.6	128.6	113.2	137	
^a Min			8.2	8.7	-1.0	51.4	84.8	61	
* total precip estimated from	TBRG								



Enviro Clima



Mar.-Apr.-May 2021; Temperature departure from 1981-2010 mean

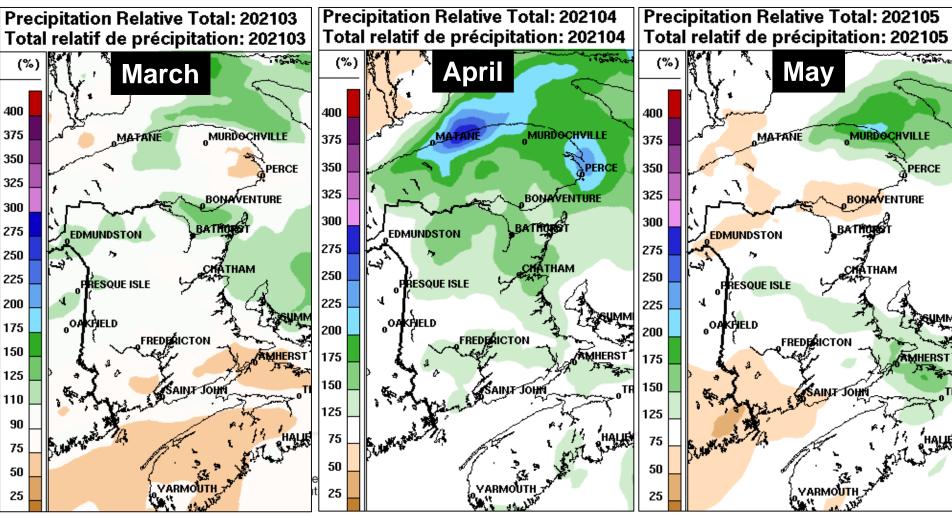


Mar.-Apr.-May 2021; Precipitation departure from 2002-2020 mean

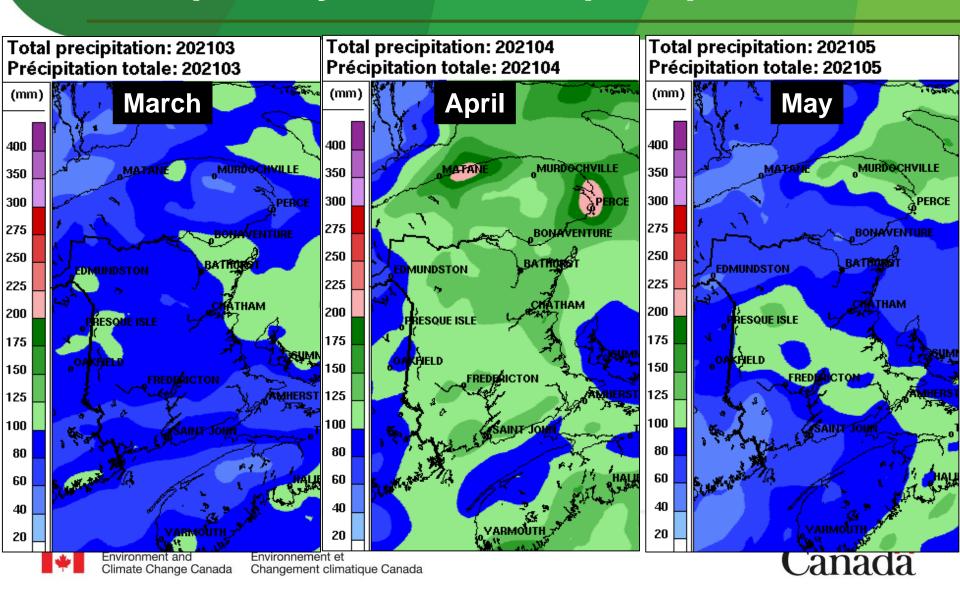
Above normal north, below normal south

Above normal

Above normal central/southeast, below normal northwest/southwest

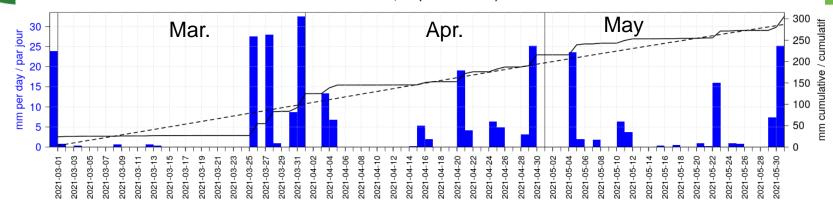


Mar.-Apr.-May 2021; Total precipitation



2021 Temperature and precipitation – (M,A,M) for Fredericton

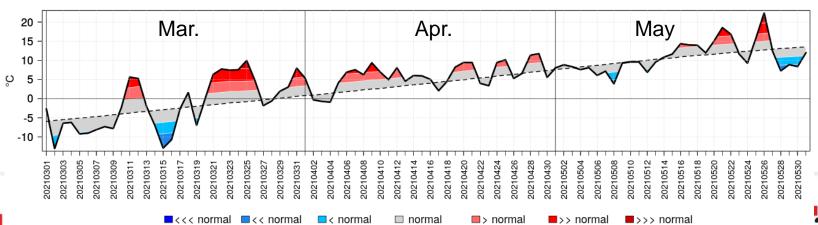
Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Fredericton, NB (45.94N 66.63W)



Environment and Environnement et Changement climatique Canada Climate Change Canada

ECCC Gridded Precipitation Analysis / Analyse de précipitation sur grille de ECCC Climatology / Climatologie: 2002-2020

Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Fredericton, NB (45.94N 66.63W)

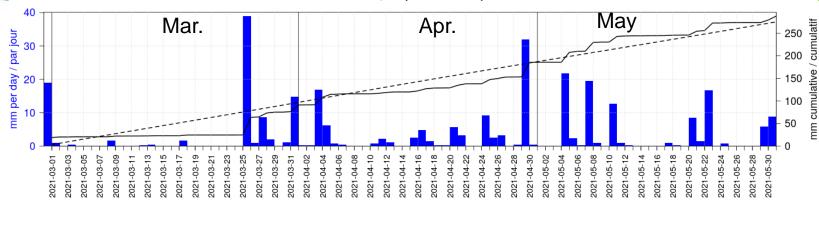






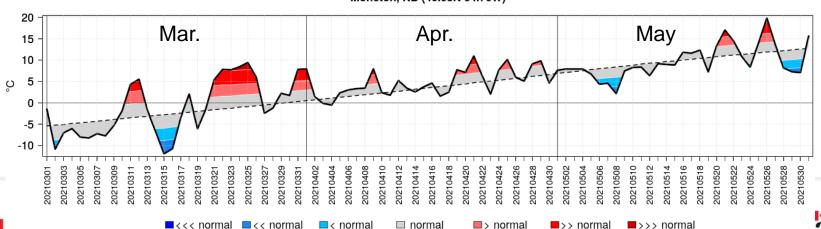
2021 Temperature and precipitation – (M,A,M) for Moncton

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Moncton, NB (46.08N 64.76W)



Environnement et Environment and Changement climatique Canada Climate Change Canada ECCC Gridded Precipitation Analysis / Analyse de précipitation sur grille de ECCC Climatology / Climatologie: 2002-2020

Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Moncton, NB (46.08N 64.76W)

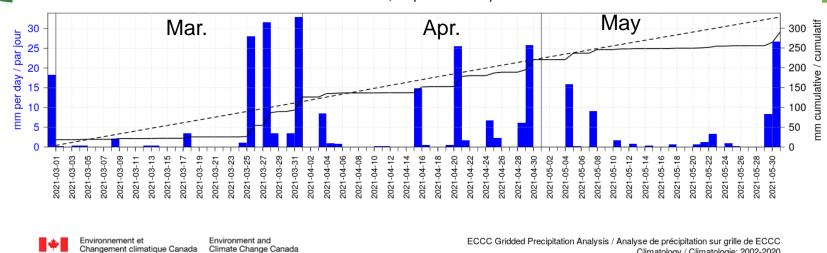






2021 Temperature and precipitation – (M,A,M) for Saint John

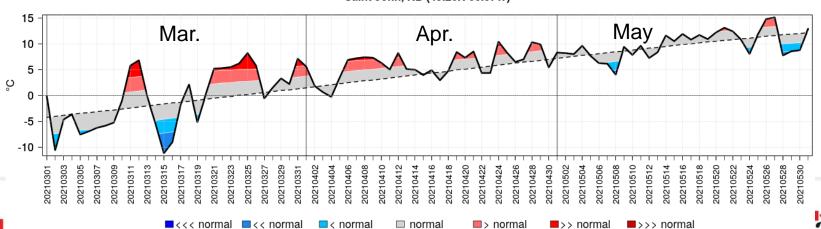
Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line)
Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté)
Saint John, NB (45.26N 66.07W)



Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red)

Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge)

Saint John, NB (45.26N 66.07W)



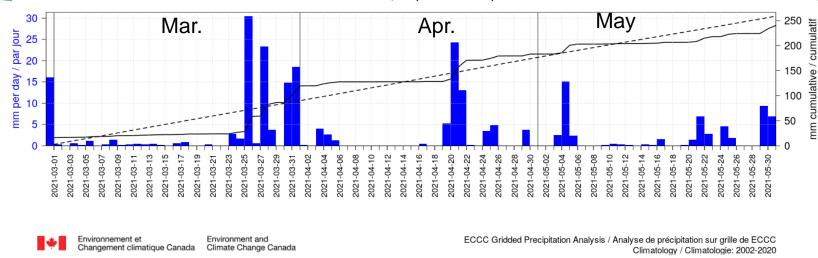




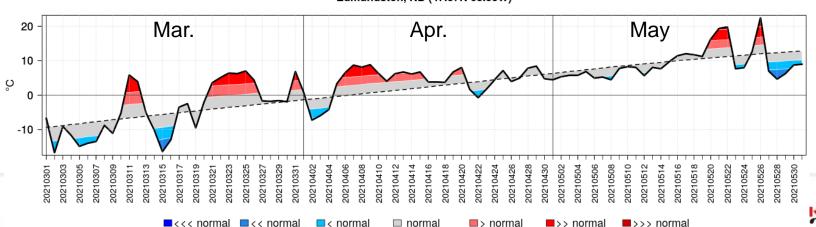
Environment and Climate Change Canada

2021 Temperature and precipitation – (M,A,M) for Edmundston

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Edmundston, NB (47.37N 68.33W)



Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Edmundston, NB (47.37N 68.33W)

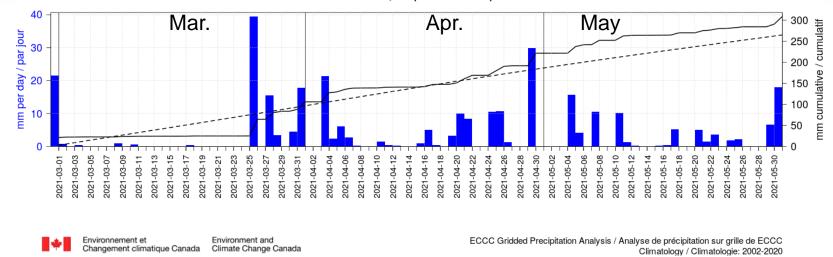




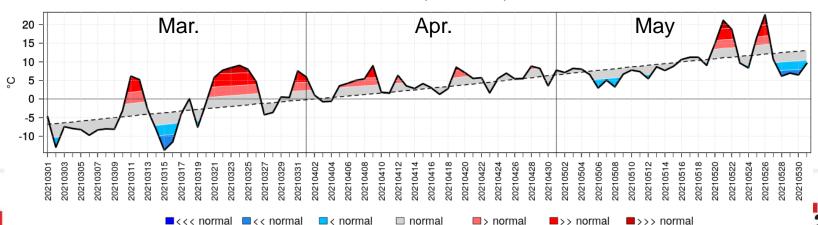


2021 Temperature and precipitation – (M,A,M) for Miramichi

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Miramichi, NB (47.02N 65.50W)



Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Miramichi, NB (47.02N 65.50W)

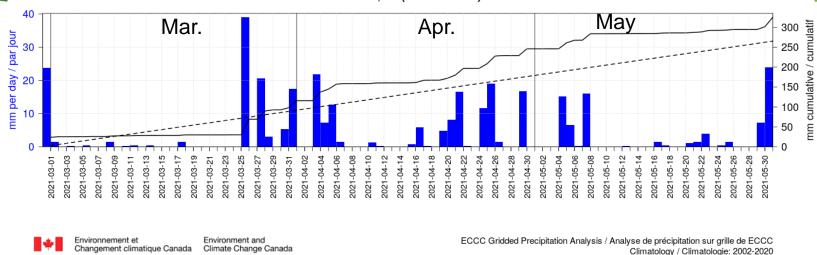




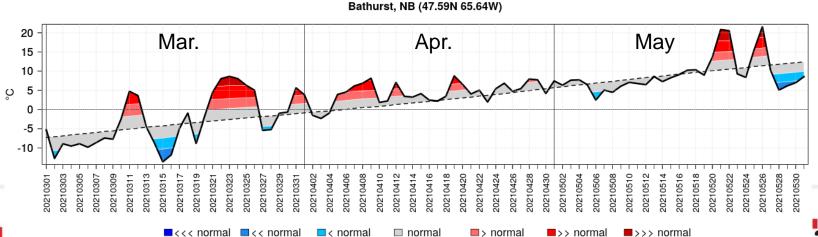


2021 Temperature and precipitation – (M,A,M) for Bathurst

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Précipitation totale quotidienne (barres), Cumulative (trait) et Cumulative moyenne à long terme (tirreté) Bathurst, NB (47.59N 65.64W)



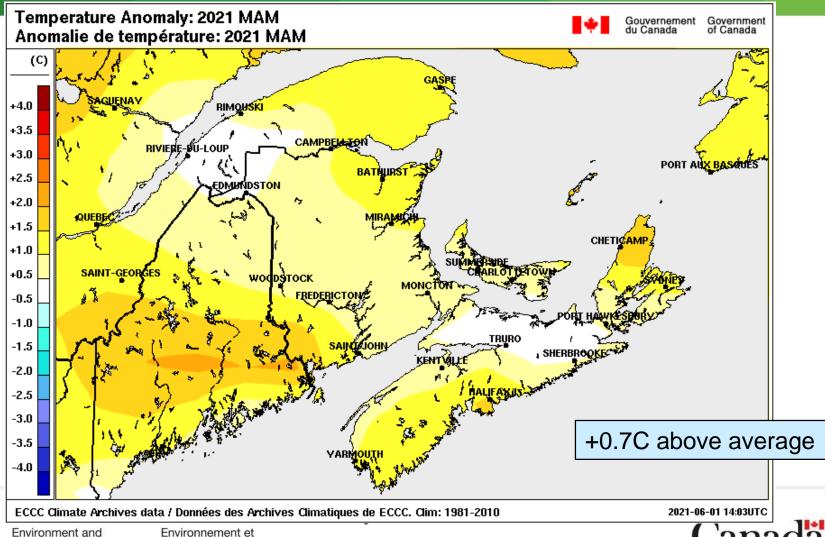
Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge)





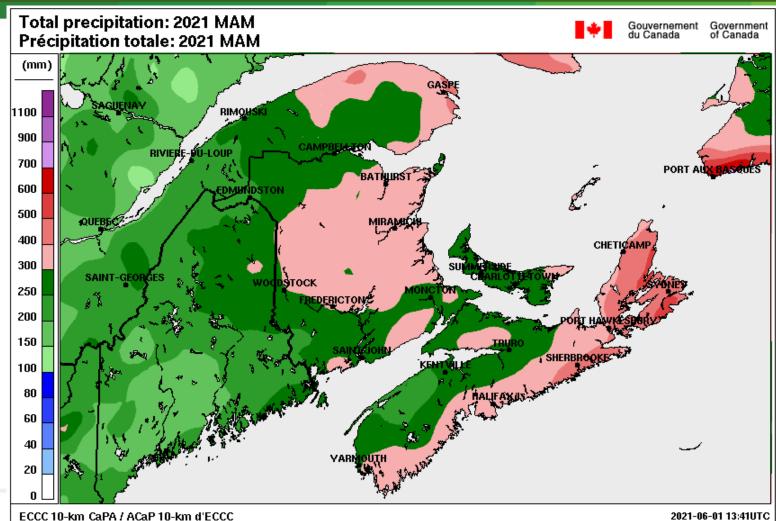


Spring 2021 (M,A,M) Temperature Departure from 1981-2010 mean





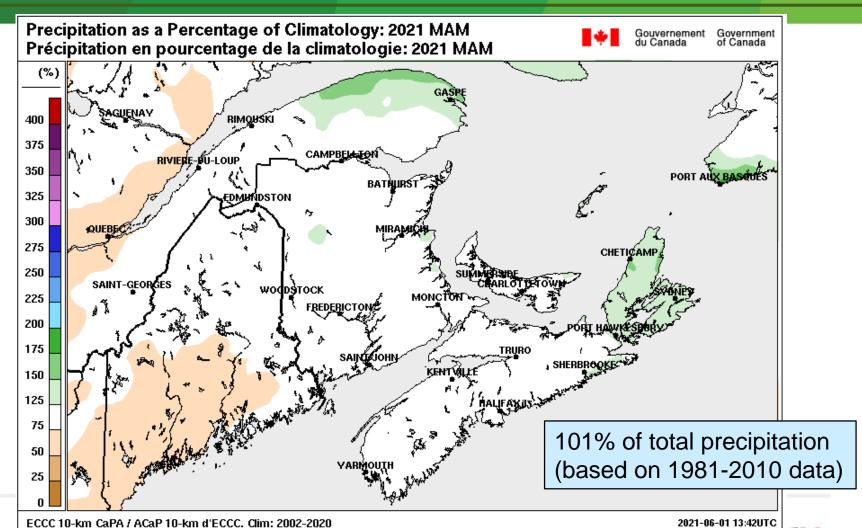
Spring 2021 (M,A,M) Total precipitation







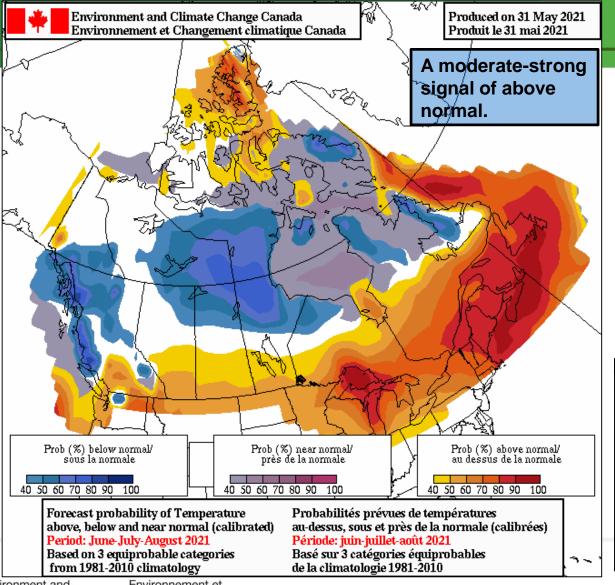
Spring 2021 (M,A,M) Precipitation departure from 2002-2020 mean







Outlook – Summer 2021 (J,J,A)

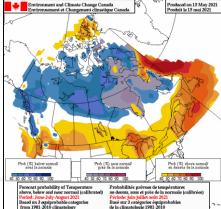


Temperature

June July August

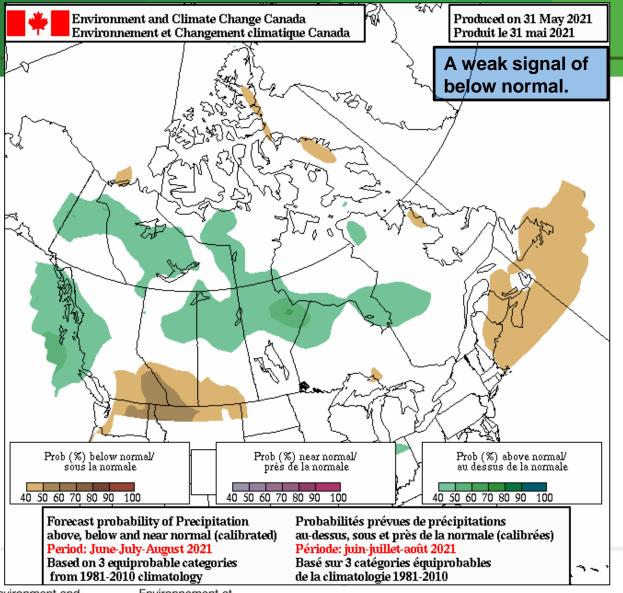
NB (J,J,A) Normal; 25/12°C

Produced May 15





Outlook – Summer 2021 (J,J,A)

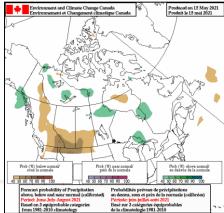


Precipitation

June July August

NB (J,J,A) Normal; ~256 mm

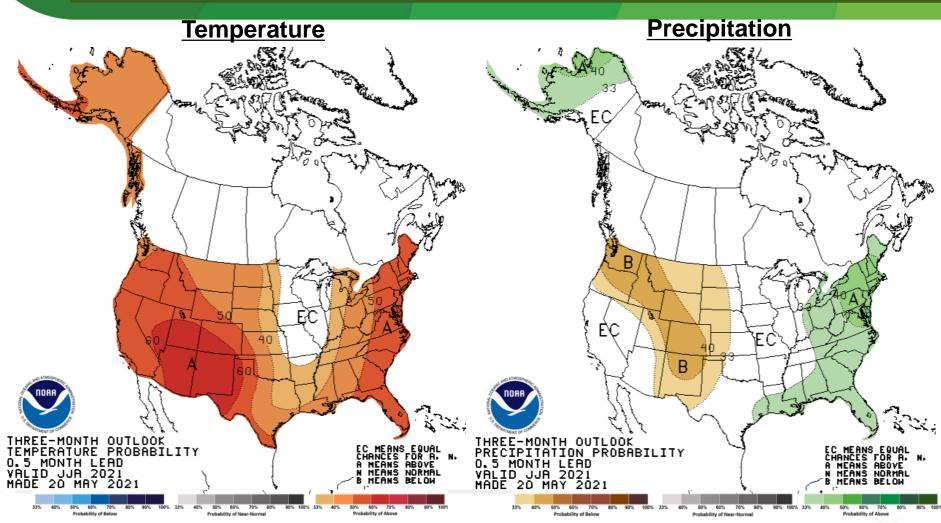
Produced May 15





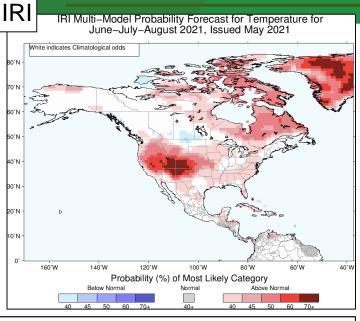


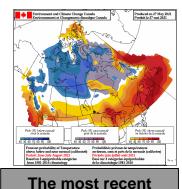
June – July - August

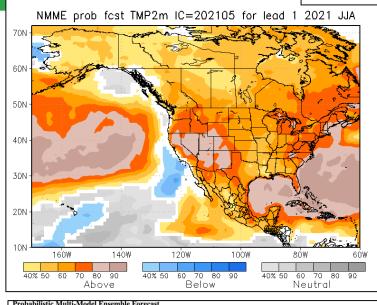




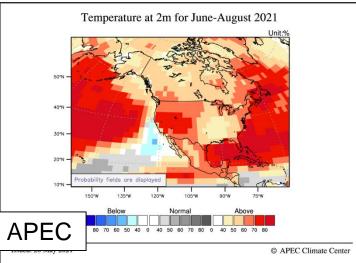
Summer 2021 Probabilistic Forecast from foreign models (temperature)





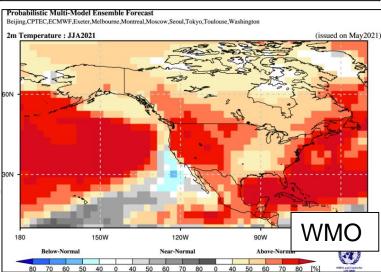


NMME

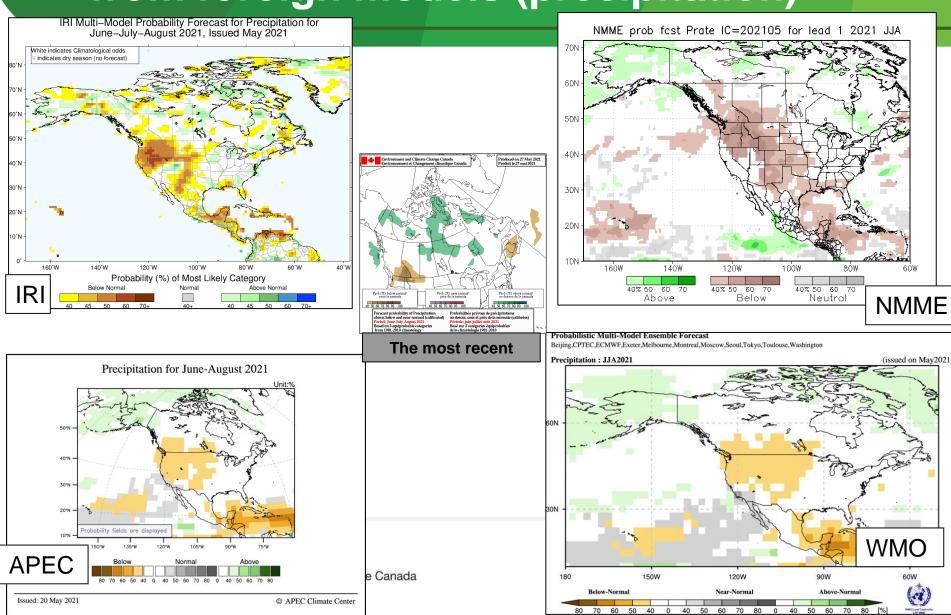




Canada

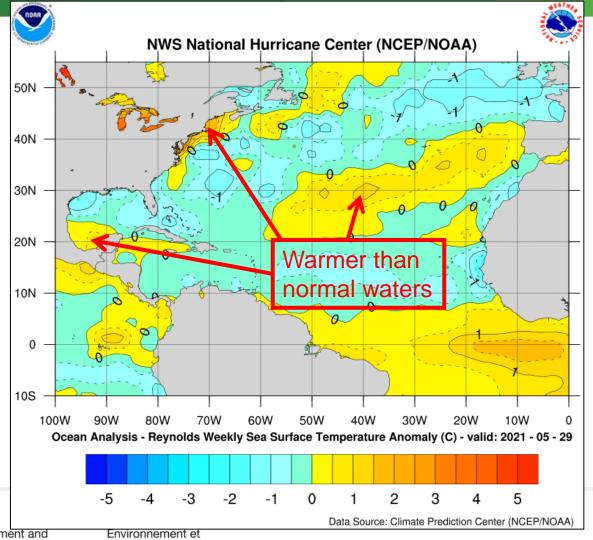


Summer 2021 Probabilistic Forecast from foreign models (precipitation)



Ocean conditions...

SST (Sea Surface Temperature) anomaly from May 29



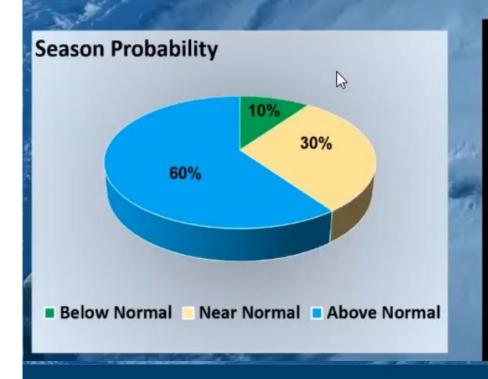




Spring 2021 Atlantic Hurricane Forecast



2021 NOAA Hurricane Season Outlook



13-20 Named Storms

(Average 14)

6-10 Hurricanes

(Average 7)

3-5 Major Hurricanes

(Average 3)





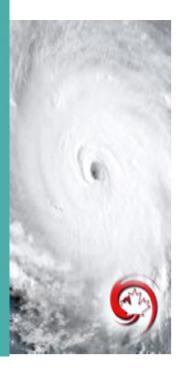


2021 List of Atlantic Storm Names

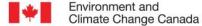
From NOAA

Ana
Bill
Claudette
Danny
Elsa
Fred
Grace

Henri Ida Julian Kate Larry Mindy Nicholas Odette Peter Rose Sam Teresa Victor Wanda



Names provided by the World Meteorological Organization





Contact

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Warning Preparedness Meteorologist

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Environment and Climate Change Canada Weather Pages

www.weather.gc.ca

