New Brunswick

Integrated Climate Bulletin Summer 2021 Review & Fall Outlook

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





June 2021; Climate Summary

				Mean Temperature /		Total Precipitation /			
				Température moyenne (°C) Précipitat			tations totales (mm)		
			Type /	Monthly	Normal	Diff from	Monthly	Normal	Normal /
		TC ID /	Type	Mean /	Mean /	Normal /	Total /	Total /	Total en %
		ID de	de	Moyenne	Moyenne	Écart avec	Total	Total	de la
Station Name / Nom de la station	Prov	тс	station	mensuelle	Normale	la normale	mensuel	normal	normale
BAS CARAQUET*	NB	WXS	AU8	16.9	15.0	1.9	65.0	74.9	87
BAS CARAQUET	NB		DAILY				65.6	74.9	88
BATHURST A	NB	ZBF	NCA	17.1	15.9	1.3	76.9	96.9	79
BOUCTOUCHE CDA CS*	NB	ABT	AU8	18.0	15.2	2.7	49.2	95.3	52
CHARLO AUTO*	NB	ZCR	AU8	16.7	14.6	2.2	70.8	85.1	83
MIRAMICHI RCS*	NB	ACQ	AU8	18.0	15.7	2.3	88.8	86.3	103
DOAKTOWN AUTO RCS*	NB	ADN	AU8	17.6	16.0	1.6	116.8	95.4	122
EDMUNDSTON*	NB	ERM	AU8	15.8			95.8	97.4	98
FREDERICTON INTL A	NB	YFC	NCA	18.6	16.2	2.3	72.6	82.4	88
FREDERICTON CDA CS*	NB	AFC	AU8	18.5	16.4	2.1	56.6	86.3	66
FUNDY PARK (ALMA) CS	NB	AFY	AU8	15.5	13.8	1.7			
GAGETOWN AWOS A	NB	YCX	AU5	18.7	16.4	2.3			
KOUCHIBOUGUAC	NB	AKC	AU8	17.8	15.5	2.3	100.2	90.5	111
MISCOU ISLAND (AUT)*	NB	WMI	AU8	15.8		\ .	65.4		<u> </u>
MONCTON INTL A	NB	YQM	NCH	18.2	15.2	3.0	30.2	94.6	32
OAK POINT	NB		DAILY	17.5	16.4	1.1			
POINT LEPREAU CS	NB	WPE	AU8	14.2	12.8	1.4			
RED PINES*	NB	ARP	AU8	17.0	15.4	1.6	65.2	83.6	78
SAINT JOHN A	NB	YSJ	NCH	16.1	14.0	2.1	66.4	101.0	66
ST. STEPHEN*	NB	WSS	AU8	18.5			50.8		
SUSSEX FOUR CORNERS*	NB	ASF	AU8	18.0	16.0	2.0	36.2	88.4	41
WOODSTOCK NEWBRIDGE*	NB	EWD	AU8	17.9	16.3	1.6	55.0	91.0	60
Average				17.3	15.4	2.0	68.2	89.0	78
Max				18.7	16.4	3.0	116.8	101.0	122
Min				14.2	12.8	1.1	30.2	74.9	32
* total precip. estimated from tipping b	ucket rai	n gauge	/précip. T	ot. estimées	à partir du	pluviomètre	à augets ba	sculeurs	
Min	nent et			14.2	12.8	1.1	30.2	74.9	



July 2021; Climate Summary

				Mean Temperature /		Total Precipitation /			
				Tempéra	ture moy	enne (°C)	Précipitations tot		tales (mm)
			Type /	Monthly	Mean /	Diff from	Monthly	Normal	Normal /
		TC ID /	Type	Mean /	Moyenn	_	Total /	Total /	Total en %
		ID de	de	Moyenne	e	Écart avec	Total	Total	de la
Station Name / Nom de la station	Prov	TC	station	mensuelle	Normale	la normale	mensuel	normal	normale
BAS CARAQUET	NB	WXS	AU8	17.7	18.7	-1.0			
BAS CARAQUET	NB		DAILY				90.6	80.9	112
BATHURST A	NB	ZBF	NCA	17.7	19.1	-1.3	77.8		
BOUCTOUCHE CDA CS	NB	ABT	AU8	17.7	19.2	-1.5	143.2	99.1	144
CHARLO AUTO	NB	ZCR	AU8	17.3	17.9	-0.6	92.6	102.1	91
MIRAMICHI RCS	NB	ACQ	AU8	18.2	19.1	-0.9	171.8	99.9	172
DOAKTOWN AUTO RCS	NB	ADN	AU8	17.5	19.1	-1.6	149.4	105.8	141
EDMUNDSTON	NB	ERM	AU8	15.8			45.5	113.8	40
FREDERICTON INTL A	NB	YFC	NCA	17.8	19.3	-1.5			
FREDERICTON CDA CS	NB	AFC	AU8	18.1	19.4	-1.3	146.3	89.0	164
FUNDY PARK (ALMA) CS	NB	AFY	AU8	17.3	17.1	0.2			
GAGETOWN AWOS A	NB	YCX	AU5	17.6	19.5	-1.9			
KOUCHIBOUGUAC	NB	AKC	AU8	17.5	19.2	-1.7	116.1	110.4	105
MISCOU ISLAND (AUT)	NB	WMI	AU8	17.0			101.2		
MONCTON INTL A	NB	YQM	NCH	18.0	18.8	-0.8	159.6	92.1	173
OAK POINT	NB		DAILY	18.0	19.5	-1.5	108.5	96.9	112
POINT LEPREAU CS	NB	WPE	AU8	16.0	15.6	<u> 2</u> _{0.4}			
RED PINES	NB	ARP	AU8	17.0	18.6	-1.6	83.3	105.8	_ 79
SAINT JOHN A	NB	YSJ	NCH	16.7	17.1	-0.4	233.4	88.4	264
ST. STEPHEN	NB	WSS	AU8	17.5			156.8		
SUSSEX FOUR CORNERS	NB	ASF	AU8	17.8	19.2	-1.5	108.7	84.0	129
WOODSTOCK NEWBRIDGE	NB	EWD	AU8	16.9	19.0	-2.1	122.6	100.2	122
Average				17.4	18.6	-1.1	124.0	97.7	132
Max				18.2	19.5	0.4	233.4	113.8	264
Min				15.8	15.6	-2.1	45.5	80.9	40



Climate Change Canada Changement climatique Canada

August 2021; Climate Summary

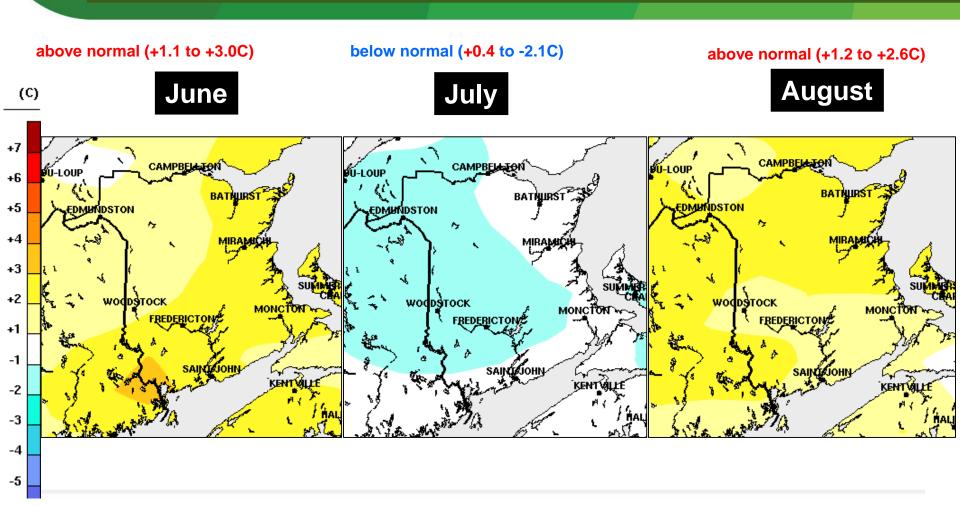
				Mean Temperature / Température moyenne (°C)			Total Precipitation / Précipitations totales (mm)			
Station Name / Nom de la		TC ID / ID de	Station Type / Type de	Monthly Mean /	Normal Mean / Moyenne	Diff from Normal / Écart avec	Monthly Total / Total	Normal Total / Total	Total as % of Normal / Total en % de la	
station	Prov	TC	station	mensuelle	Normale	la normale	mensuel	normal	normale	
BAS CARAQUET	NB	WXS	AU8	20.4	18.6	1.8	69.7	95.0	73	
BAS CARAQUET	NB		DAILY				76.8	95.0	81	
BATHURST A	NB	ZBF	NCA	20.7	18.2	2.5	70.7	82.0	86	
BOUCTOUCHE CDA CS	NB	ABT	AU8	20.4	18.5	2.0	41.8	85.2	49	
CHARLO AUTO	NB	ZCR	AU8	19.8	17.2	2.6	82.9	90.1	92	
MIRAMICHI RCS	NB	ACQ	AU8	21.0	18.5	2.5	60.1	93.1	65	
DOAKTOWN AUTO RCS	NB	ADN	AU8	20.0	18.4	1.6	53.0	94.4	∕ , 56	
EDMUNDSTON	NB	ERM	AU8	18.6			39.7	93.4	43	
FREDERICTON INTL A	NB	YFC	NCA	20.6	18.4	2.1	72.9	85.6	85	
FREDERICTON CDA CS	NB	AFC	AU8	20.7	18.6	2.2	94.8	85.9	110	
FUNDY PARK (ALMA) CS	NB	AFY	AU8	18.8	17.2	1.6	158.2	93.9	168	
GAGETOWN AWOS A	NB	YCX	AU5	20.5	19.2	1.3				
GRAND MANAN SAR CS	NB	XGM	AU8	18.8			97.4			
KOUCHIBOUGUAC	NB	AKC	AU8	20.3	18.5	1.8	66.2	86.7	76	
MECHANIC SETTLEMENT	NB	AMS	AU8	18.8			120.5			
MISCOU ISLAND (AUT)	NB	WMI	AU8	20.1			65.4			
MONCTON INTL A	NB	YQM	NCH							
OAK POINT	NB		DAILY	19.8			73.8	86.5	85	
POINT LEPREAU CS	NB	WPE	AU8	17.5	15.6	1.9	79.1	98.0	81	
RED PINES	NB	ARP	AU8	19.8	17.9	1.9	80.4	93.6	86	
SAINT JOHN A	NB	YSJ	NCH	18.7	16.8	1.8	136.6	81.7	167	
ST. STEPHEN	NB	WSS	AU8	20.2		\ .	72.4			
SUSSEX FOUR CORNERS	NB	ASF	AU8	20.0	18.8	1.2	98.4	74.3	132	
WOODSTOCK NEWBRIDGE	NB	EWD	AU8	20.0	18.4	1.6	79.1	100.6	79	
Average				19.8	18.0	1.9	81.4	89.7	90	
Max				21.0	19.2	2.6	158.2	100.6	168	
Min				17.5	15.6	1.2	39.7	74.3	43	



Environment Climate Cha



Jun.-Jul.-Aug. 2021; Temperature departure from 1981-2010 mean





Jun.-Jul.-Aug. 2021; Precipitation departure from 2002-2020 mean

Below normal south, above normal extreme northwest

Above normal south, below normal north

Below normal, above normal extreme south

June

(%)

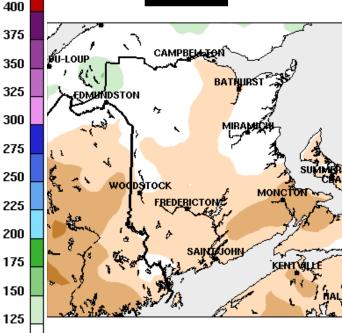
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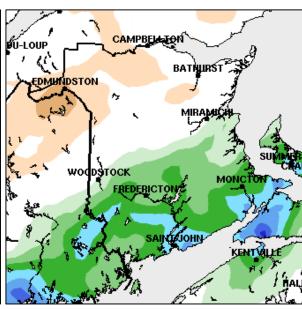
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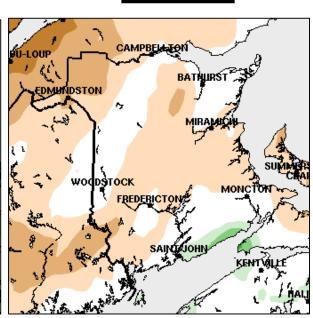
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July

August

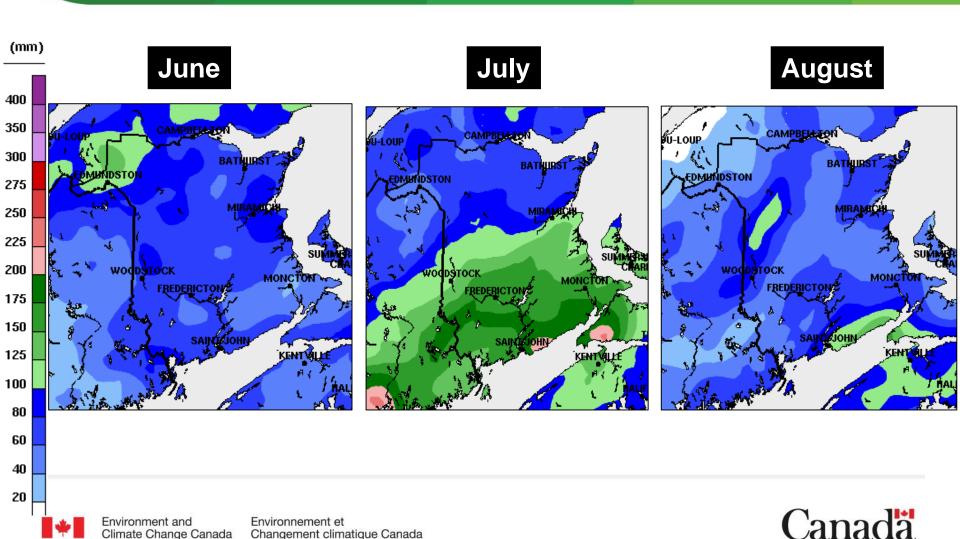






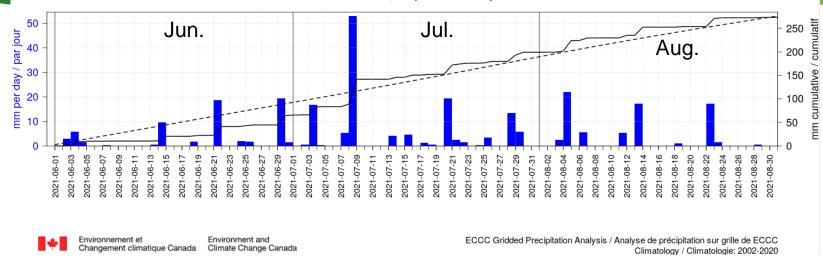


Jun.-Jul.-Aug. 2021; Total precipitation

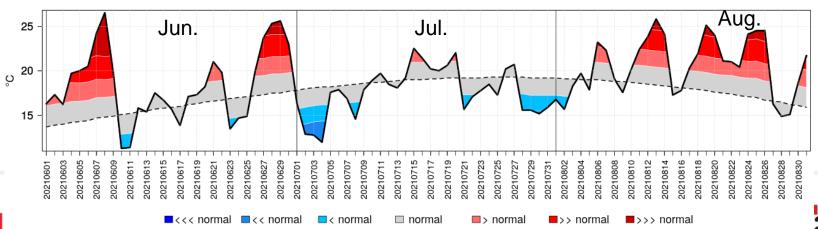


2021 Temperature and precipitation – (J,J,A) for Fredericton

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)



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)

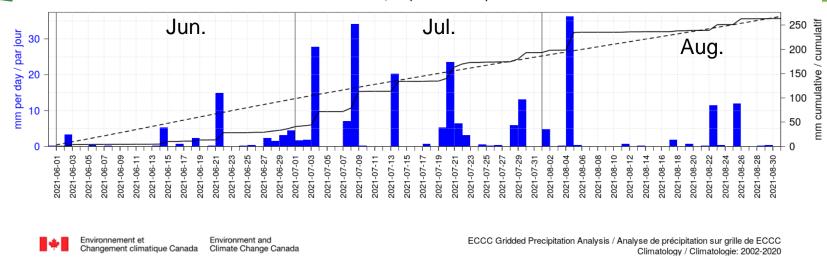




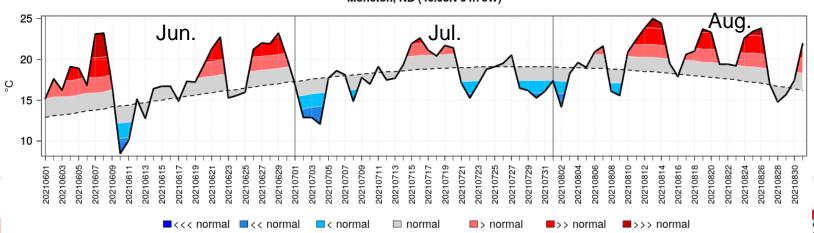


2021 Temperature and precipitation – (J,J,A) for Moncton

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)



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)

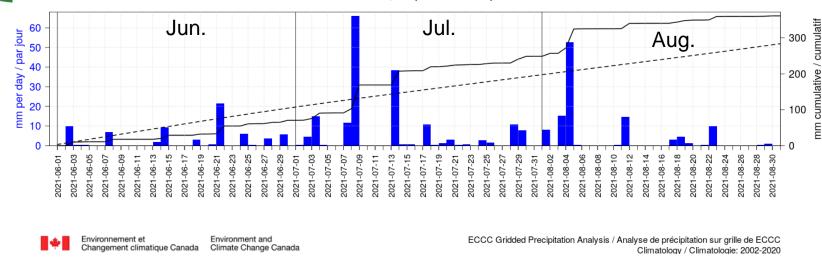




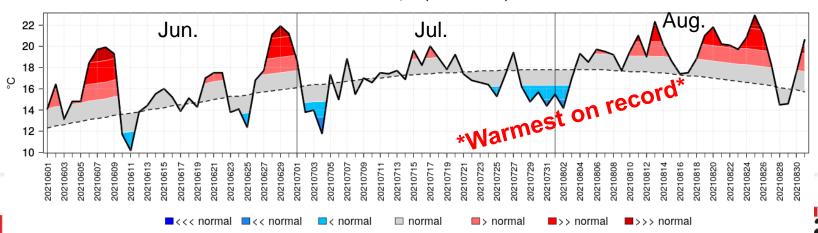


2021 Temperature and precipitation – (J,J,A) for Saint John

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)

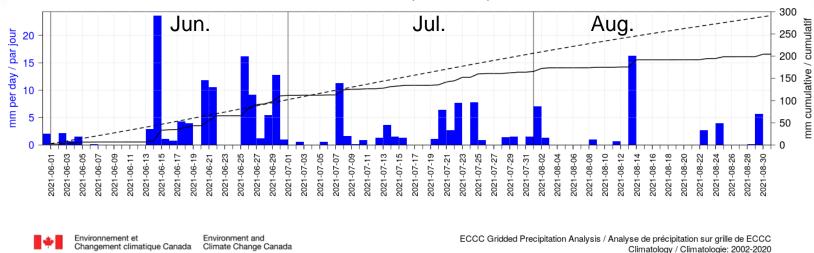




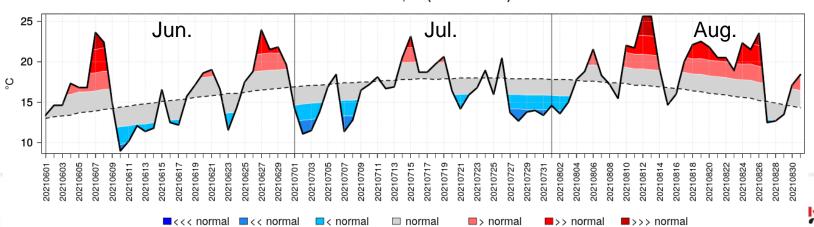


2021 Temperature and precipitation – (J,J,A) for Edmundston

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)

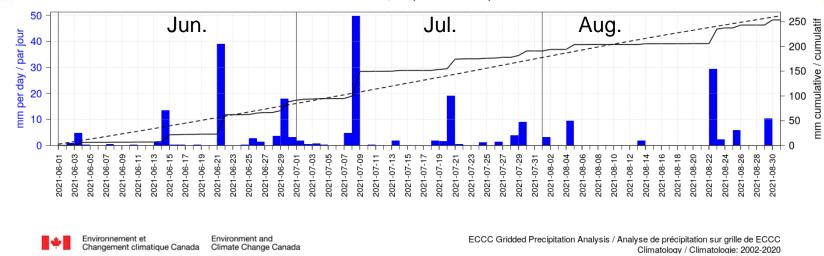




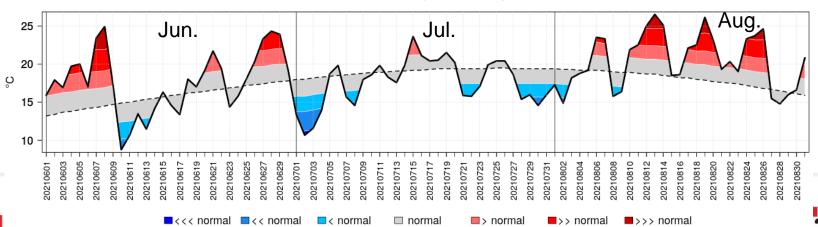


2021 Temperature and precipitation – (J,J,A) for Miramichi

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)

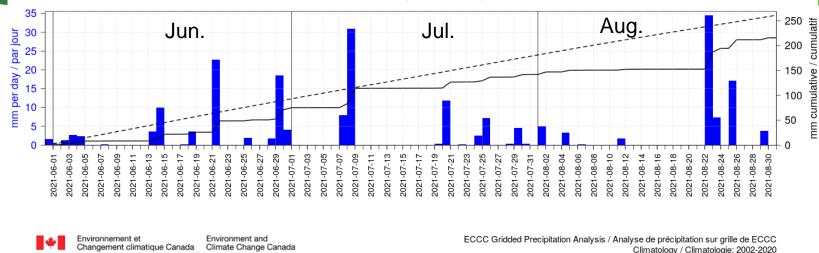




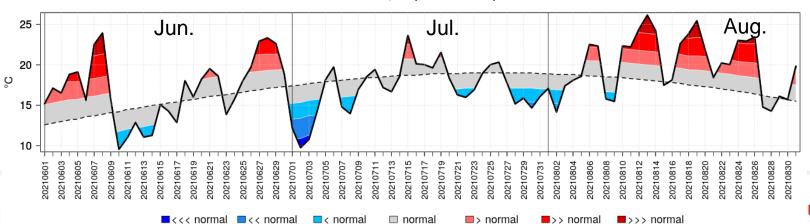


2021 Temperature and precipitation – (J,J,A) for Bathurst

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)



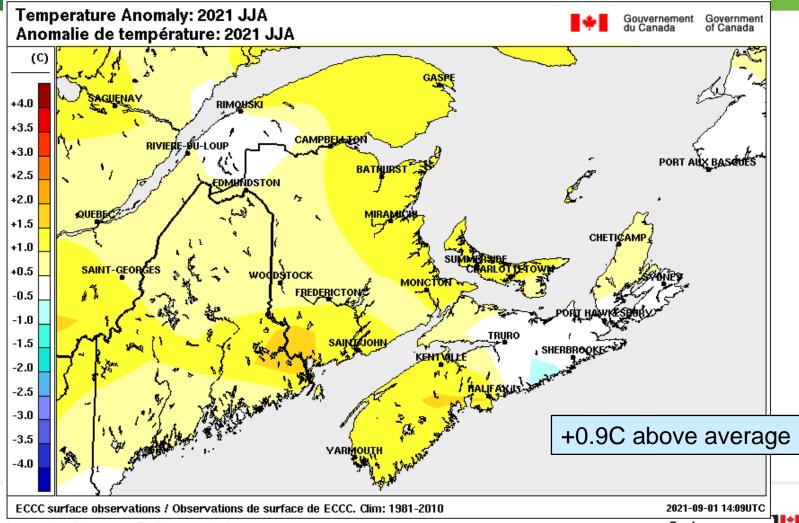
Daily Mean Temperature (line), Long-Term Mean (dashed line) and Categories based on Standard Deviations (blue and red) Température quotidienne moyenne (trait), Moyenne à long terme (tirreté) et Catégories basées sur des écart-types (bleu et rouge) Bathurst, NB (47.59N 65.64W)





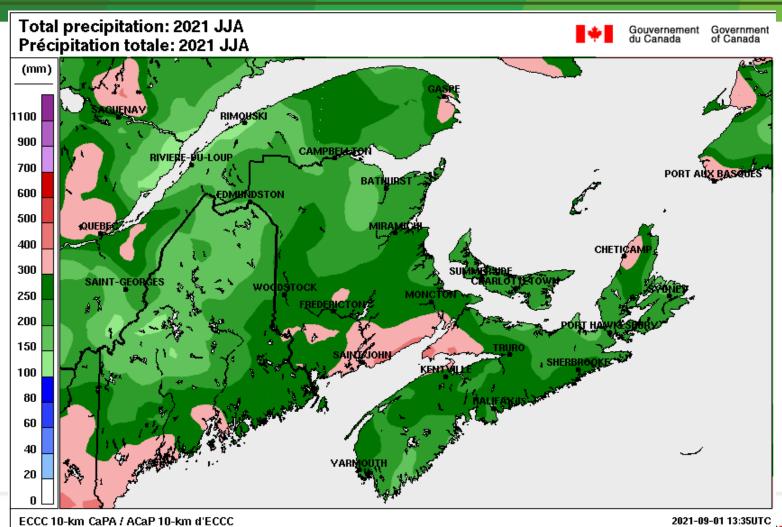


Summer 2021 (J,J,A) Temperature Departure from 1981-2010 mean





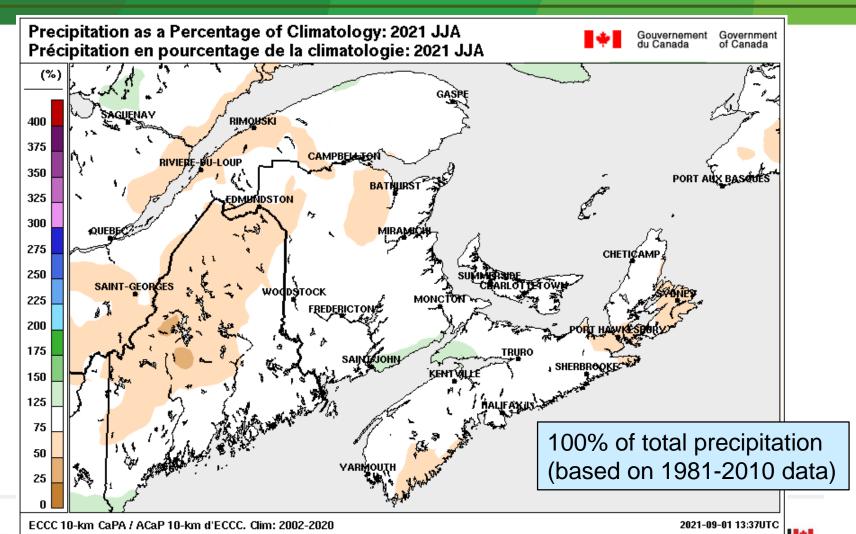
Summer 2021 (J,J,A) Total precipitation





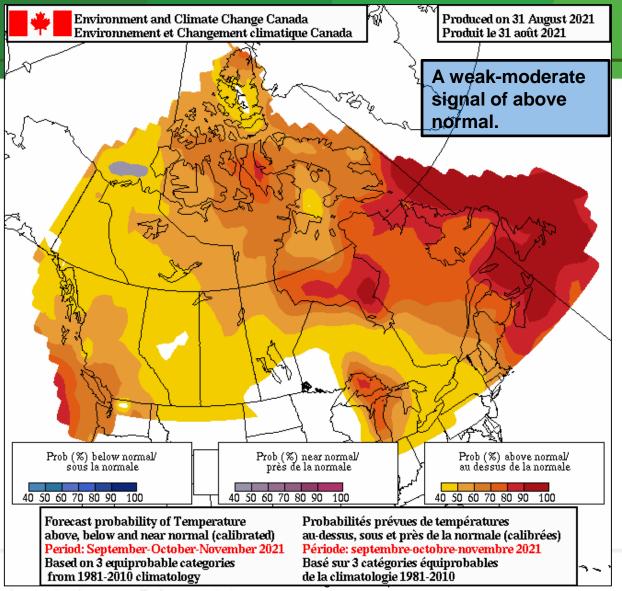


Summer 2021 (J,J,A) Precipitation departure from 2002-2020 mean





Outlook – Fall 2021 (S,O,N)

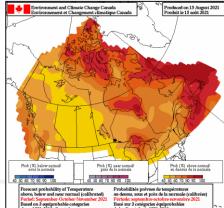


Temperature

September October November

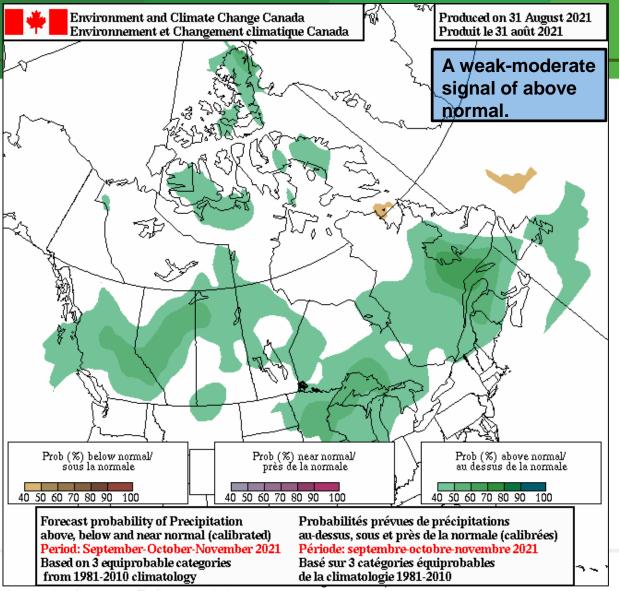
NB (S,O,N) Normal; 11.9/1.8°C

Produced August 15





Outlook - Fall 2021 (S,O,N)

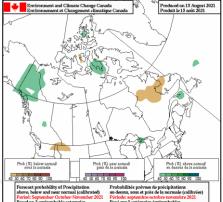


Precipitation

September October November

NB (S,O,N) Normal; ~298 mm

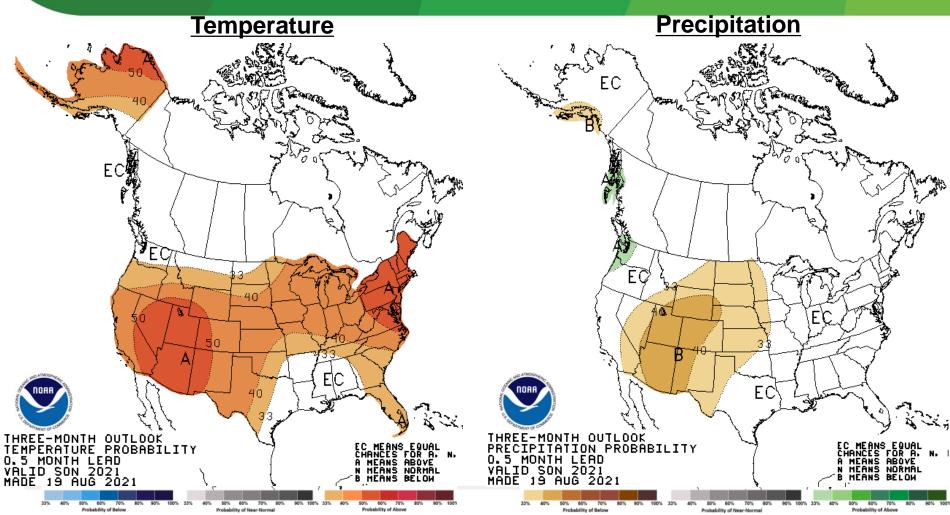
Produced August 15







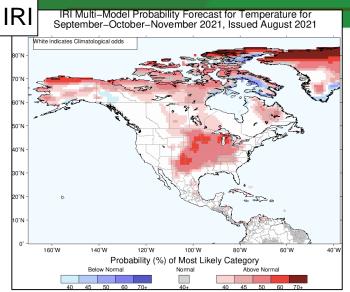
September - October - November

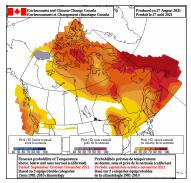


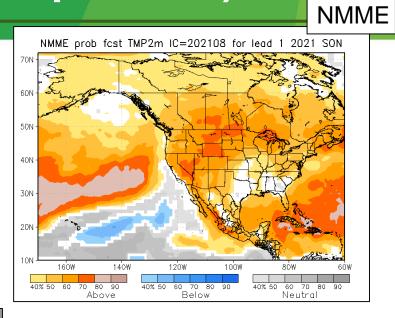




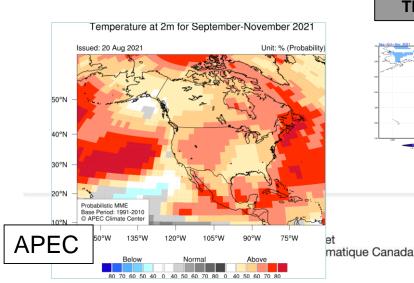
Fall 2021 Probabilistic Forecast from foreign models (temperature)

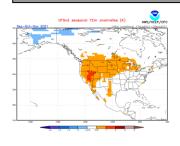


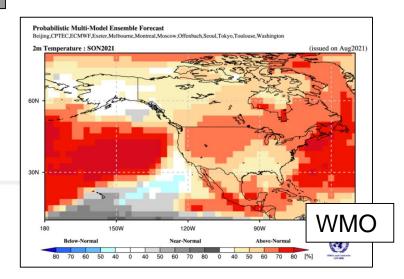




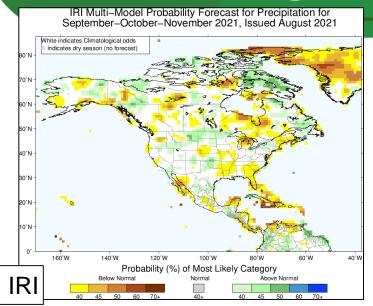
The most recent

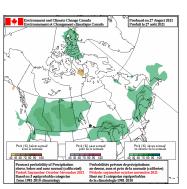


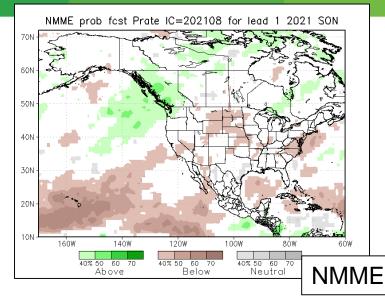




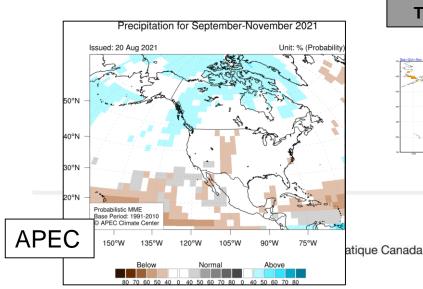
Fall 2021 Probabilistic Forecast from foreign models (precipitation)

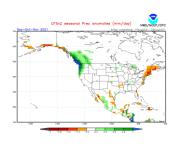


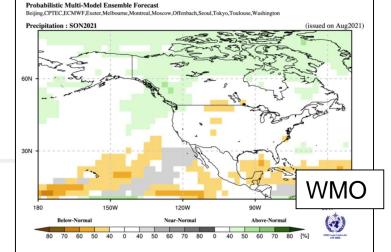




The most recent



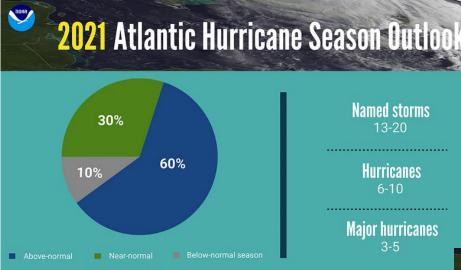




2021 Atlantic Tropical Season Forecast

Forecast issued May 20th

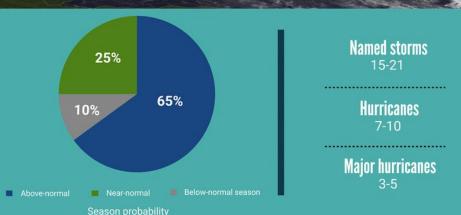






Updated August 4th

2021 Atlantic Hurricane Season Outlook AUGUST 4 UPDATE





Environnement et Changement climatique Canada

Preliminary Summary 2021 Season

(as of September 1 2021)



NATIONAL HURRICANE CENTER

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Tropical cyclone activity in the Atlantic basin during August was above normal in terms of the numbers of named storms, hurricanes, and major hurricanes. Six named storms formed in the Atlantic basin in August, with three of them becoming hurricanes, and two of those becoming major hurricanes. Grace was a category 3 hurricane when it made landfall just south of Tuxpan, Mexico, on 22 August, and Ida was a category 4 hurricane when it made landfall near Port Fourchon, Louisiana, on 29 August. One tropical depression formed on the last day of the month. Based on a 30-year climatology (1991-2020), 3 or 4 named storms typically develop in August, with one or two of them becoming hurricanes. A major hurricane forms in August every 1 to 2 years.

Summary Table

Name	Dates	Max Wind (mph)				
TS Ana	22-23 May	45*				
TS Bill	14-16 Jun	60				
TS Claudette	19-22 Jun	45				
TS Danny	28-29 Jun	45				
H Elsa	1-9 Jul	85				
TS Fred	11-18 Aug	65				
MH Grace	13-21 Aug	125				
H Henri	16-23 Aug	75				
MH Ida	26 Aug-	150				
TS Kate	28 Aug-	45				
TS Julian	29-30 Aug	60				
TD Twelve	31 Aug-	35				





Contact

Jill Maepea

Warning Preparedness Meteorologist

jill.maepea@ec.gc.ca

Environment and Climate Change Canada Weather Pages

www.weather.gc.ca

