New Brunswick

Integrated Climate Bulletin Summer 2019 Review & Fall Outlook

Jill Maepea Meteorological Service of Canada Environment and Climate Change Canada September 3, 2019





June 2019; Climate Summary

			Mean Temperature (°C) Tot				Total Pre	otal Precip (mm)			
									Diff from		
								Total as	Normal		
		Station	Monthly	Normal	Diff from	Monthly	Normal	% of	as % of		
Station Name	TC ID	Type	Mean	Mean	Normal	Total	Total >	Normal	Normal		
AROOSTOOK		DAILY	9.1	11.0	-1.8	105.4	86.6	122	22		
BAS CARAQUET	WXS	AU8	6.9	8.8	-2.0	58.2	85.6	68	-32		
BAS CARAQUET		DAILY				67.2	85.6	79	-21		
BATHURST A	ZBF	NCA	7.6	9.7	-2.1	64.5	103.1	63	-37		
BOUCTOUCHE CDA CS	ABT	AU8	7.4	9.8	-2.4	95.9	100.5	95	-5		
CHARLO AUTO	ZCR	AU8	7.6	9.0	-1.4	78.0	84.8	92	-8		
MIRAMICHI RCS	ACQ	AU8	7.9	10.0	-2.2	84.4	99.5	85	-15		
DOAKTOWN AUTO RCS	ADN	AU8	7.9	10.6	-2.7	76.7	113.2	68	-32		
EDMUNDSTON	ERM	AU8	7.5	10.3	-2.8	73.3	90.4	81	-19		
FREDERICTON INTL A	YFC	NCA	8.8	11.1	-2.3	82.2	96.2	85	-15		
FREDERICTON CDA CS	AFC	AU8	9.0	11.3	-2.4	79.1	103.8	76	-24		
GAGETOWN AWOS A	YCX	AU5	8.8	11.3	-2.4	68.0	105.8	64	-36		
GRAND MANAN SAR CS	XGM	AU8	7.5			162.0					
KOUCHIBOUGUAC	AKC	AU8	7.0	9.8	-2.8	85.8	112.2	76	-24		
MECHANIC SETTLEMENT	AMS	AU8	6.9			99.0					
MISCOU ISLAND (AUT)	WMI	AU8	6.2								
MONCTON INTL A	YQM	NCH	7.6	10.0	-2.4	106.6	96.9	110	10		
MONCTON A	YQM	NCA	7.6	10.0	-2.4						
OAK POINT		DAILY	8.8	11.3	-2.5	96.8	105.8	92	-8		
POINT LEPREAU CS	WPE	AU8	7.6	8.7	-1.1	135.3	130.2	104	4		
RED PINES	ARP	AU8	6.9	9.8	-2.9	69.6	96.0	73	-27		
SAINT JOHN A	YSJ	NCH	7.2	9.5	-2.3	119.8	109.8	109	9		
ST. STEPHEN	WSS	AU8	8.7			112.1					
SUSSEX FOUR CORNERS	ASF	AU8	8.5	11.1	-2.6	86.3	103.0	84	-16		
WOODSTOCK		DAILY	8.9	10.9	-2.0	58.2	94.2	4 62	-38		
WOODSTOCK NEWBRIDGE	EWD	AU8	8.3	10.9	-2.6	61.8	94.2	66	-34		
Average			7.8	10.2	-2.3	88.6	99.9	83	-17		
Max			9.1	11.3	-1.1	162.0	130.2	122	22		
Min			6.2	8.7	-2.9	58.2	84.8	62	-38		





July 2019; Climate Summary

				Mean Temperature (°C)			Total Precip (mm)			
										Diff from
									Total as	Normal
			Station	Monthly	Normal	Diff from	Monthly	Normal	% of	as % of
Station Name	Prov	TC ID	Туре	Mean	Mean	Normal	Total	Total	Normal	Normal
BAS CARAQUET	NB	WXS	AU8	19.2	18.7	0.5				
BAS CARAQUET	NB		DAILY				82.2	80.9	102	2
BATHURST A	NB	ZBF	NCA	19.4	19.1	0.4	55.0	100.8	55	-45
BOUCTOUCHE CDA CS	NB	ABT	AU8	19.8	19.2		74.4	99.1	75	-25
CHARLO AUTO	NB	ZCR	AU8	19.3	17.9	1.4	64.4	102.1	63	-37
MIRAMICHI RCS	NB	ACQ	AU8	20.3	19.1	1.1	63.1	99.9	63	-37
DOAKTOWN AUTO RCS	NB	ADN	AU8	19.5	19.1	0.4	69.4	105.8	66	-34
EDMUNDSTON	NB	ERM	AU8	18.1	18.2	-0.1	98.1	113.8	86	-14
FREDERICTON INTL A	NB	YFC	NCA	20.0	19.3	0.8	70.7	88.3	80	-20
FREDERICTON CDA CS	NB	AFC	AU8	20.5	19.4	1.2	83.9	89.0	94	-6
GAGETOWN AWOS A	NB	YCX	AU5	20.2	19.5	0.7	43.0	96.9	44	-56
GRAND MANAN SAR CS	NB	XGM	AU8	18.4						
KOUCHIBOUGUAC	NB	AKC	AU8	19.4	19.2	0.2				
MECHANIC SETTLEMENT	NB	AMS	AU8	18.6			106.2			
MISCOU ISLAND (AUT)	NB	WMI	AU8	18.2						
MONCTON INTL A	NB	YQM	NCH	20.0	18.8	1.2	42.4	92.1	46	-54
OAK POINT	NB		DAILY	19.2	19.5	-0.3	84.6	96.9	87	-13
POINT LEPREAU CS	NB	WPE	AU8	16.9	15.6	1.3				
RED PINES	NB	ARP	AU8	18.8	18.6	0.2	37.2	105.8	35	-65
SAINT JOHN A	NB	YSJ	NCH	18.0	17.1	0.9	100.5	88.4	114	14
ST. STEPHEN	NB	WSS	AU8	20.1						
SUSSEX FOUR CORNERS	NB	ASF	AU8	19.6	19.2	0.4	44.9	84.0	53	-47
WOODSTOCK	NB		DAILY	19.9	19.0	1.0	37.2	100.2	37	-63
WOODSTOCK NEWBRIDGE	NB	EWD	AU8	19.4	19.0	0.4	40.7	100.2	41	-59
Average				19.3	18.7	0.6	66.6	96.7	67	-33
Max				20.5	19.5		106.2	113.8	114	14
Min				16.9	15.6	-0.3	37.2	80.9	35	-65





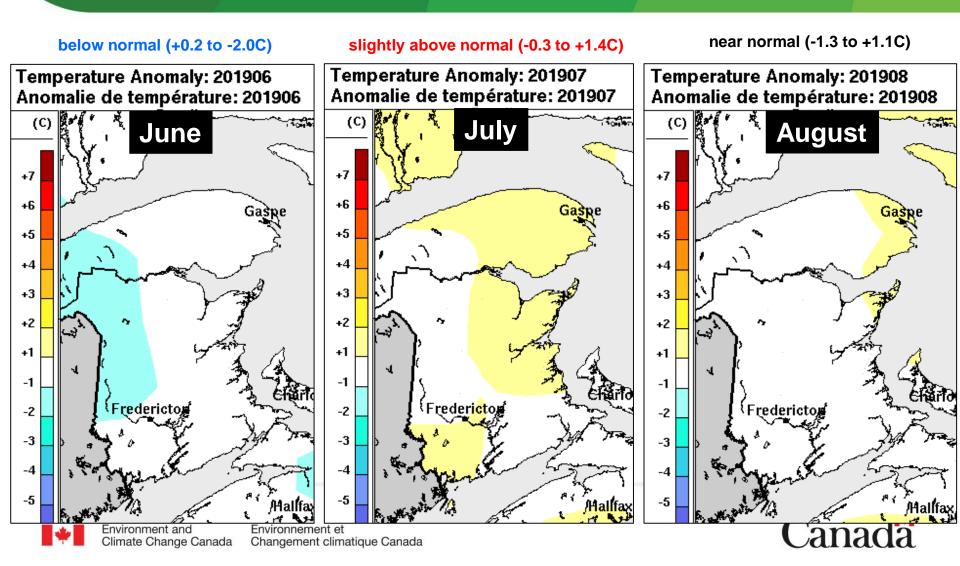
August 2019; Climate Summary

			Mean 1	emperat	ure (°C)		cip (mm)		
									Diff from
								Total as	Normal
		Station	Monthly	Normal	Diff from	Monthly	Normal	% of	as % of
Station Name	TC ID	Type	Mean	Mean	Normal	Total	Total	Normal	Normal
BAS CARAQUET	WXS	AU8	18.8	18.6	0.2	59.2	95.0	4 62	-38
BAS CARAQUET		DAILY				61.8	95.0	65	-35
BATHURST A	ZBF	NCA	18.5	18.2	0.3	51.9	82.0	63	-37
BOUCTOUCHE CDA CS	ABT	AU8	18.5	18.5	0.1	94.0	85.2	110	10
CHARLO AUTO	ZCR	AU8	18.0	17.2	0.9				
MIRAMICHI RCS	ACQ	AU8	19.3	18.5	0.8	60.7	93.1	65	-35
DOAKTOWN AUTO RCS	ADN	AU8	18.0	18.4	-0.4	98.9	94.4	105	5
EDMUNDSTON	ERM	AU8	16.1	17.1	-1.0	62.4	93.4	67	-33
FREDERICTON INTL A	YFC	NCA	18.2	18.4	-0.3	79.9	85.6	93	-7
FREDERICTON CDA CS	AFC	AU8	18.5	18.6	-0.1	109.1	85.9	127	27
GAGETOWN AWOS A	YCX	AU5	18.4	19.2	-0.8				
GRAND MANAN SAR CS	XGM	AU8	17.4			78.2			
KOUCHIBOUGUAC	AKC	AU8	18.4	18.5	0.0	72.8	86.7	84	-16
MECHANIC SETTLEMENT	AMS	AU8	17.6			120.6			
MISCOU ISLAND (AUT)	WMI	AU8	18.3			67.8	•	<u> </u>	
MONCTON INTL A	YQM	NCH	18.8	18.2	0.6	106.7	80.8	1 32	32
MONCTON A	YQM	NCA	18.8	18.2	0.7				
OAK POINT		DAILY	18.4	19.2					
POINT LEPREAU CS	WPE	AU8	16.7	15.6	1.1				
RED PINES	ARP	AU8	18.0	17.9	0.1	67.7	93.6	72	-28
SAINT JOHN A	YSJ	NCH	16.9	16.8	0.1	107.0	81.7	131	31
ST. STEPHEN	WSS	AU8	18.1			109.0			
SUSSEX FOUR CORNERS	ASF	AU8	18.4	18.8	-0.4	60.6	74.3	82	-18
WOODSTOCK		DAILY	17.8	18.4		85.6	100.6	85	-15
WOODSTOCK NEWBRIDGE	EWD	AU8	17.1	18.4	-1.3	75.6	100.6	75	-25
Average			18.0	18.1	0.0	81.5	89.3	89	-11
Max			19.3	19.2	1.1	120.6	100.6	132	32
Min			16.1	15.6	-1.3	51.9	74.3	62	-38





June-July-August 2019; Temperature departure from 1981-2010 mean

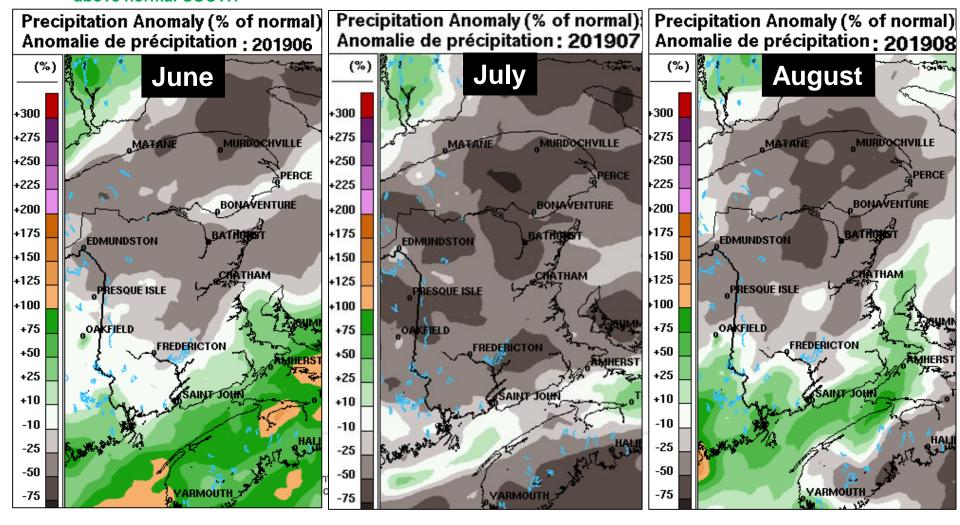


June-July-August 2019; Precipitation departure from 1981-2010 mean

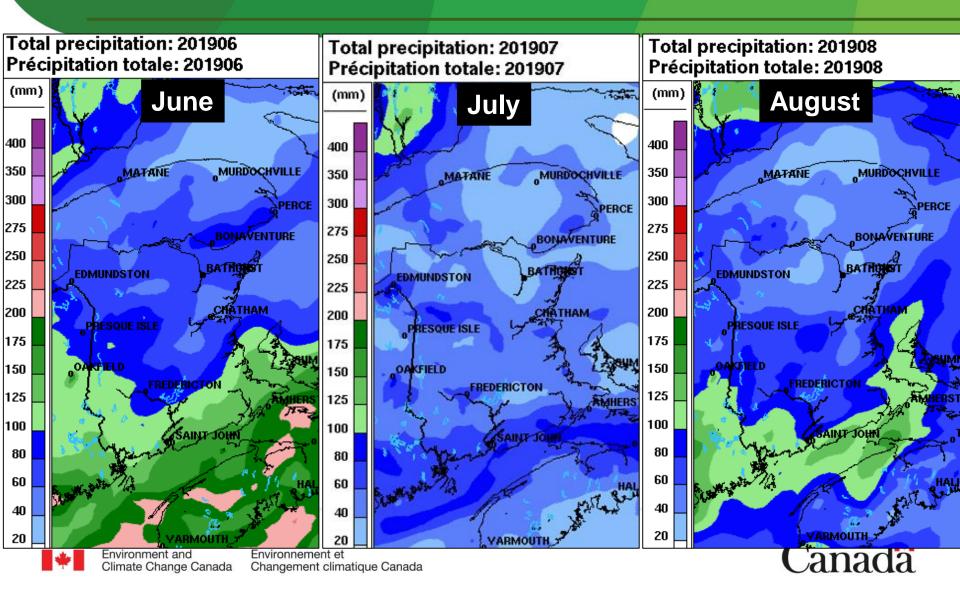
Below normal NORTH, above normal SOUTH

Below normal

Below normal NORTH, above normal SOUTH

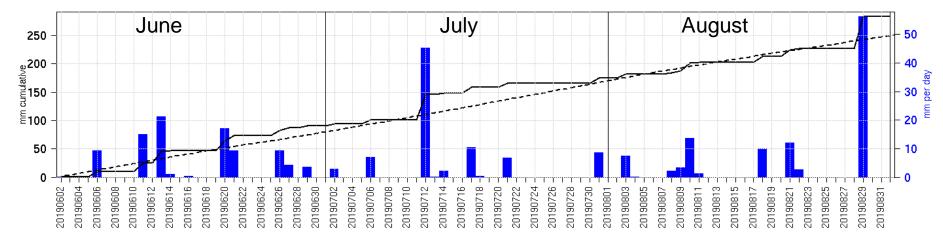


June-July-August 2019; Total precipitation

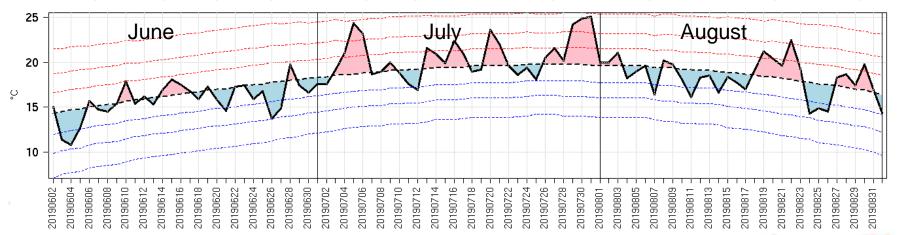


2019 Temperature and precipitation – (J,J,A) for Fredericton

Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars) for Fredericton, NB (45.94N 66.63W)



Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Fredericton, NB (45.94N 66.63W)

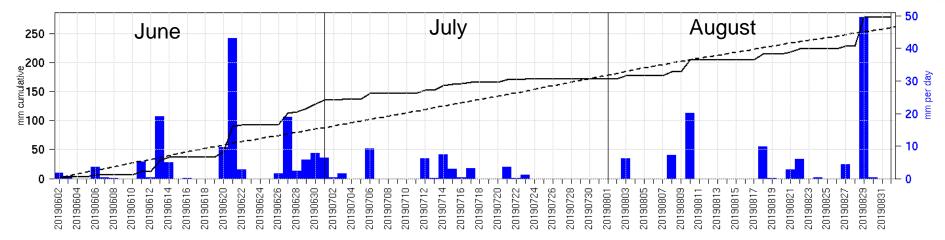




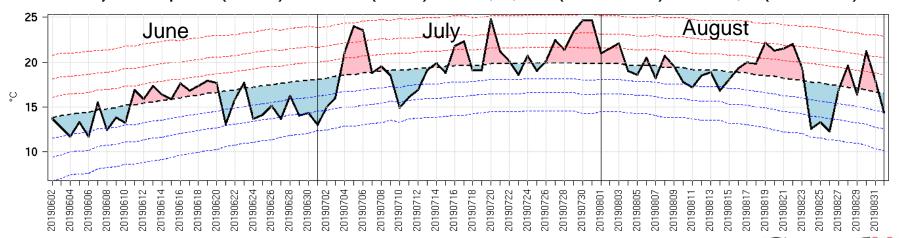


2019 Temperature and precipitation – (J,J,A) for Moncton

Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars) for Moncton, NB (46.08N 64.76W)



Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Moncton, NB (46.08N 64.76W)

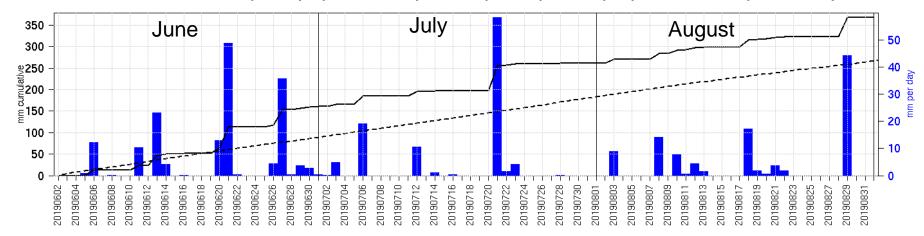




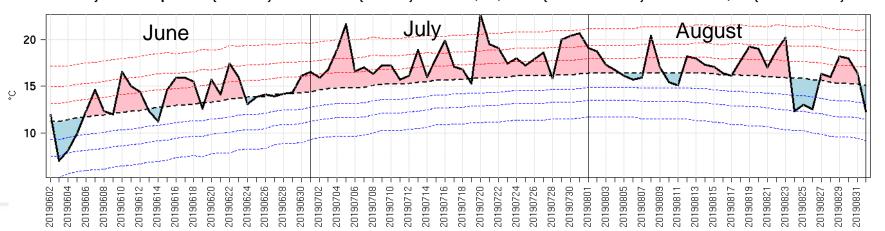


2019 Temperature and precipitation – (J,J,A) for Saint John

Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars) for Saint John, NB (45.26N 66.07W)



Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Saint John, NB (45.26N 66.07W)

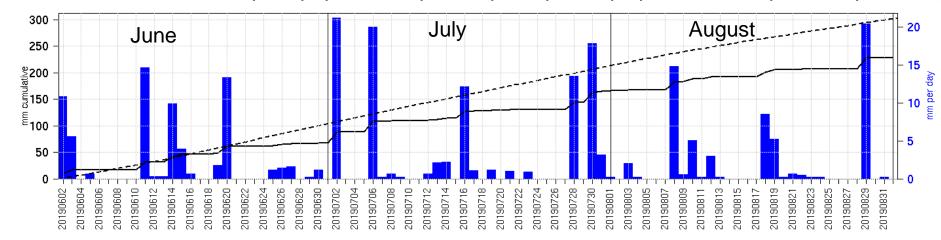




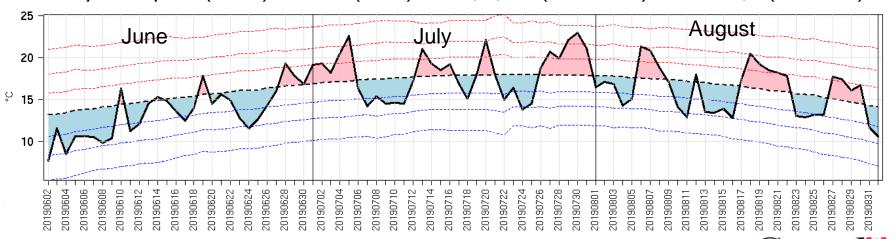
Canada

2019 Temperature and precipitation – (J,J,A) for Edmundston

Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars) for Edmundston, NB (47.37N 68.33W)



Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Edmundston, NB (47.37N 68.33W)

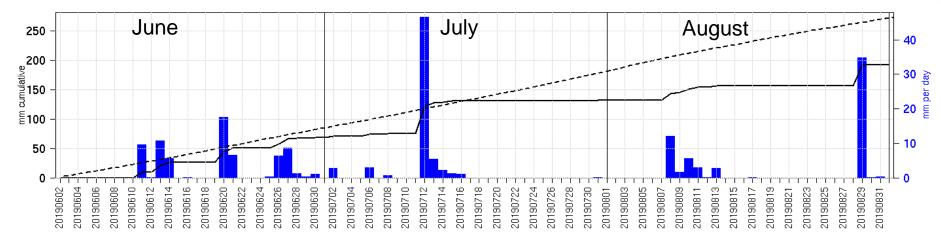




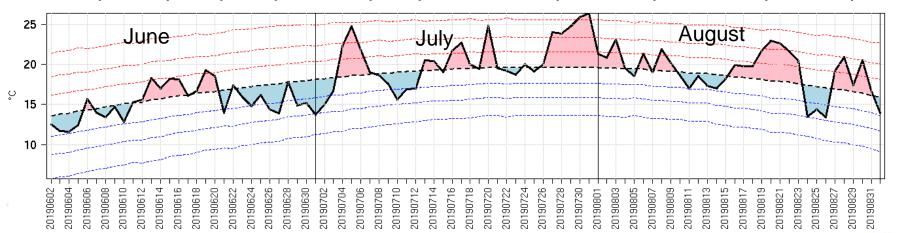


2019 Temperature and precipitation – (J,J,A) for Miramichi

Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars) for Miramichi, NB (47.02N 65.50W)



Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Miramichi, NB (47.02N 65.50W)

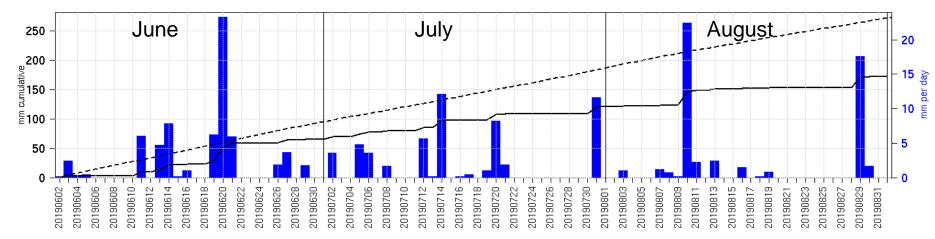




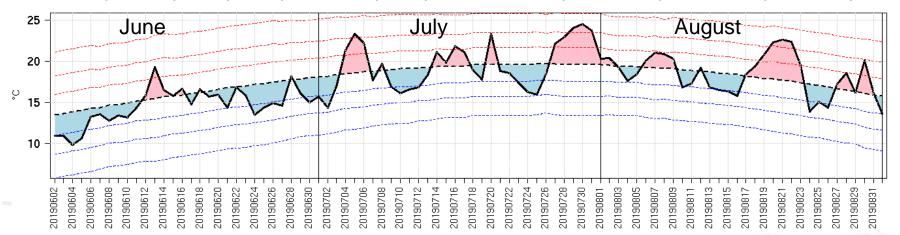


2019 Temperature and precipitation – (J,J,A) for Bathurst

Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars) for Bathurst, NB (47.59N 65.64W)



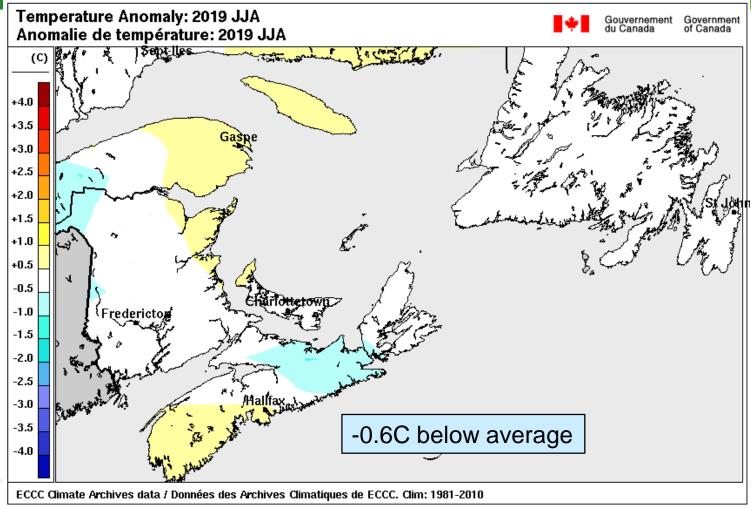
Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Bathurst, NB (47.59N 65.64W)







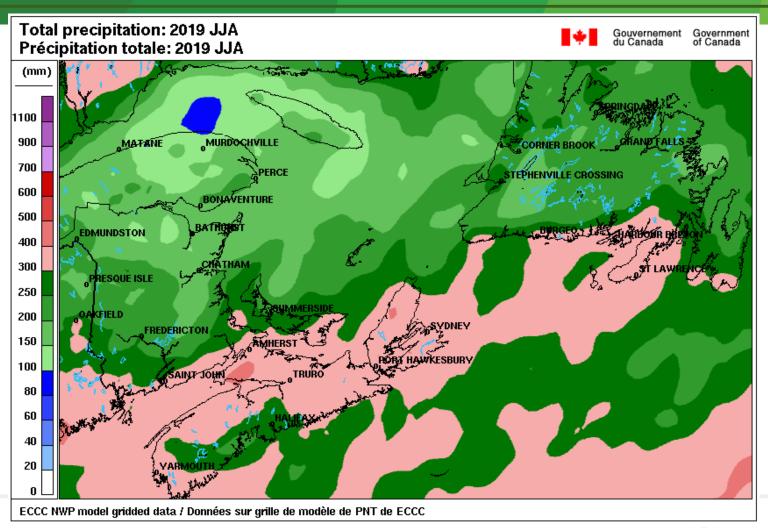
Summer 2019 (J,J,A) Temperature Departure from 1981-2010 mean







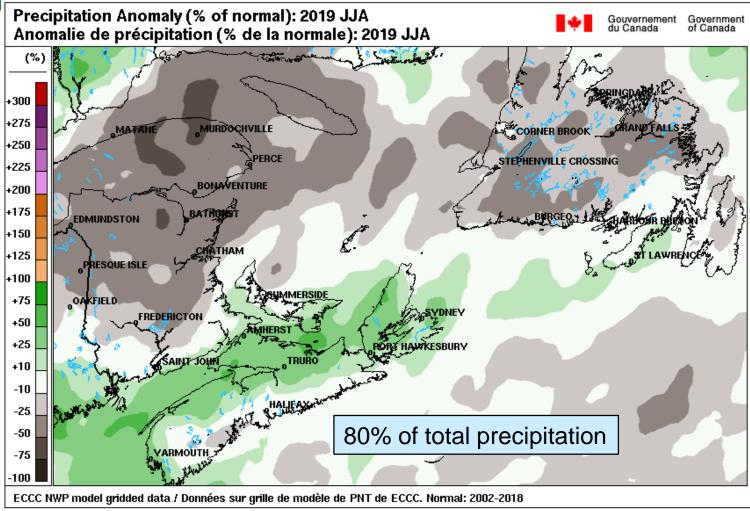
Summer 2019 (J,J,A) Total precipitation







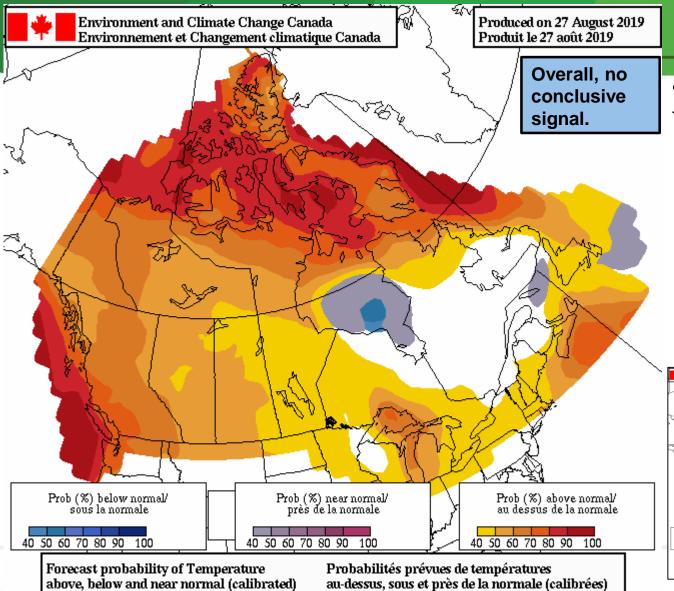
Summer 2019 (J,J,A) Precipitation departure from 1981-2010 mean







Outlook – Fall 2019 (S,O,N)

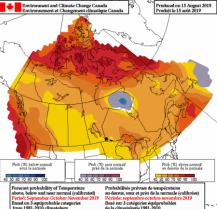


Temperature

September **October November**

NB (S, O, N) Normal; 11.9/1.8C

Produced August 15

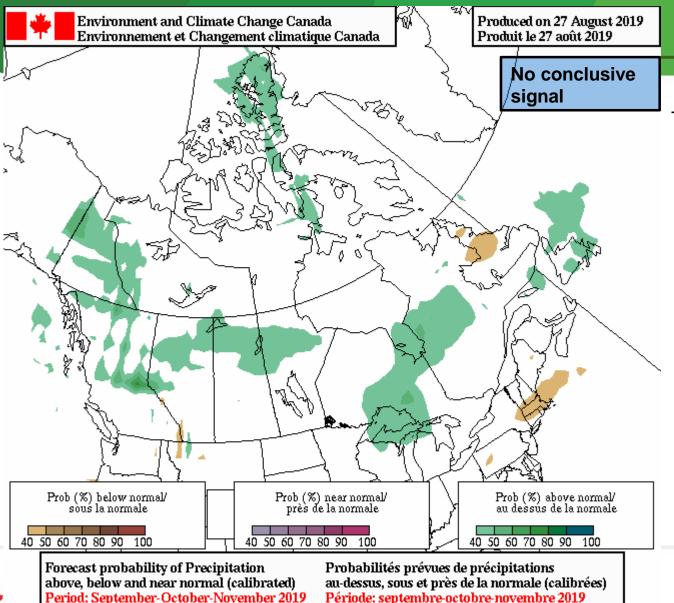


Period: September-October-November 2019 Based on 3 equiprobable categories

from 1981-2010 climatology

Période: septembre-octobre-novembre 2019 Basé sur 3 catégories équiprobables de la climatologie 1981-2010

Outlook - Fall 2019 (S,O,N)



Based on 3 equiprobable categories from 1981-2010 climatology

Basé sur 3 catégories équiprobables

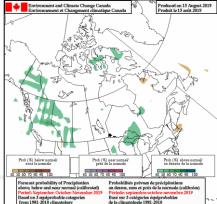
de la climatologie 1981-2010

Precipitation

September October November

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

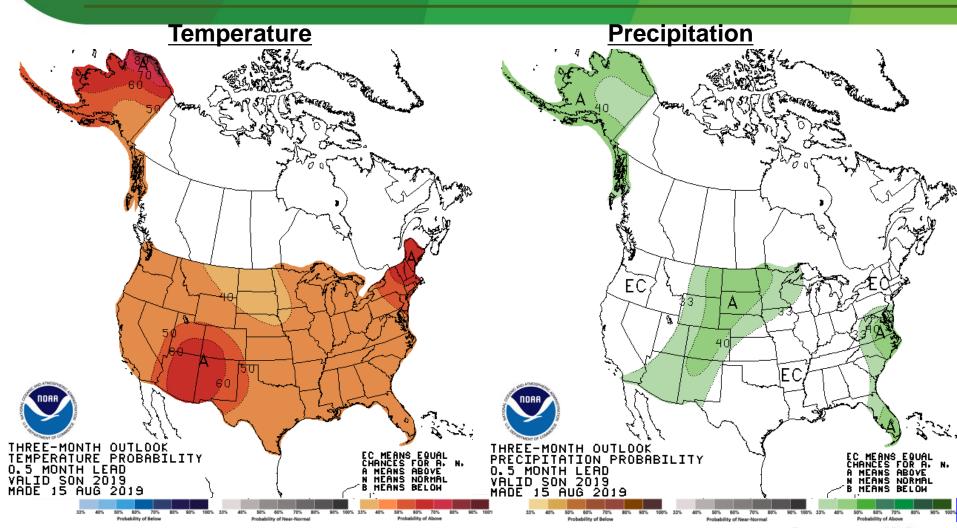
Produced August 15







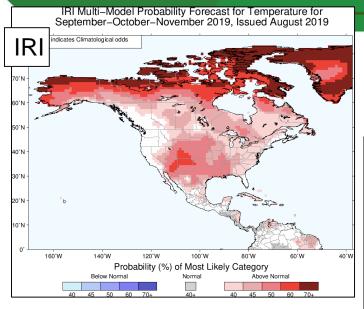
September – October - November 2019

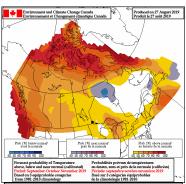


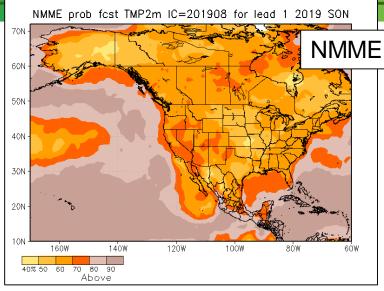


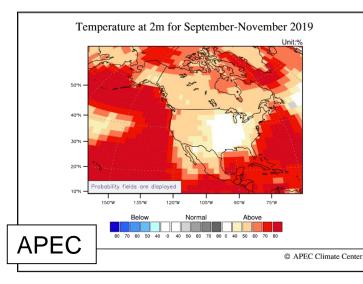


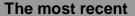
Fall 2019 Probabilistic Forecast From foreign models (temperature)



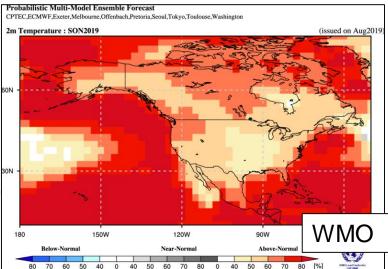




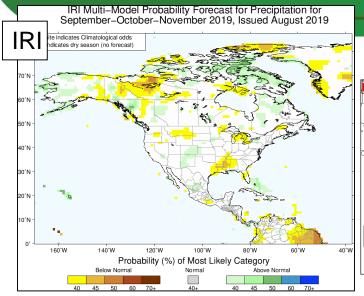


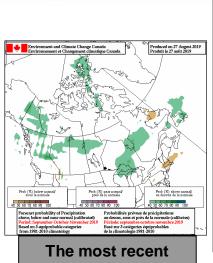


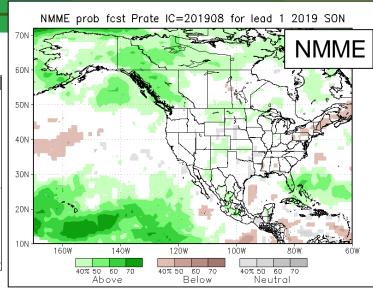
Canada

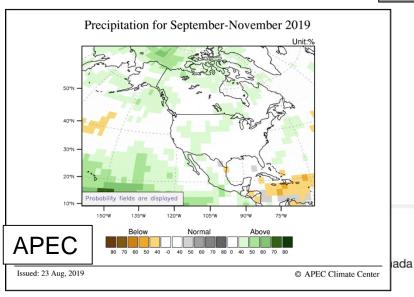


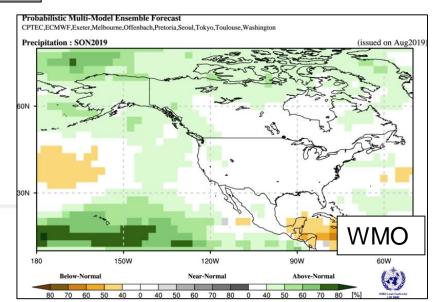
Fall 2019 Probabilistic Forecast From foreign models (precipitation)







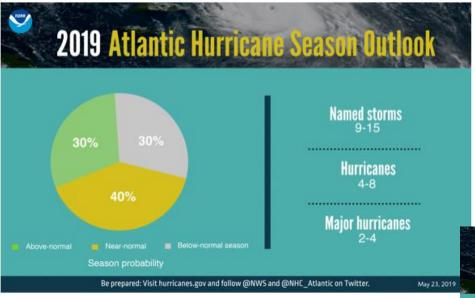




2019 Atlantic Tropical Season Forecast

Forecast issued May 23rd

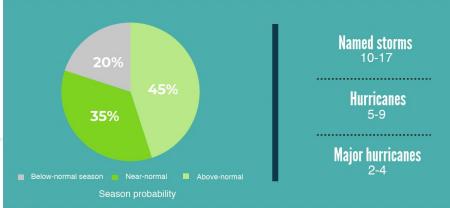




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HURRICANE
PREPARED

Updated August 8th



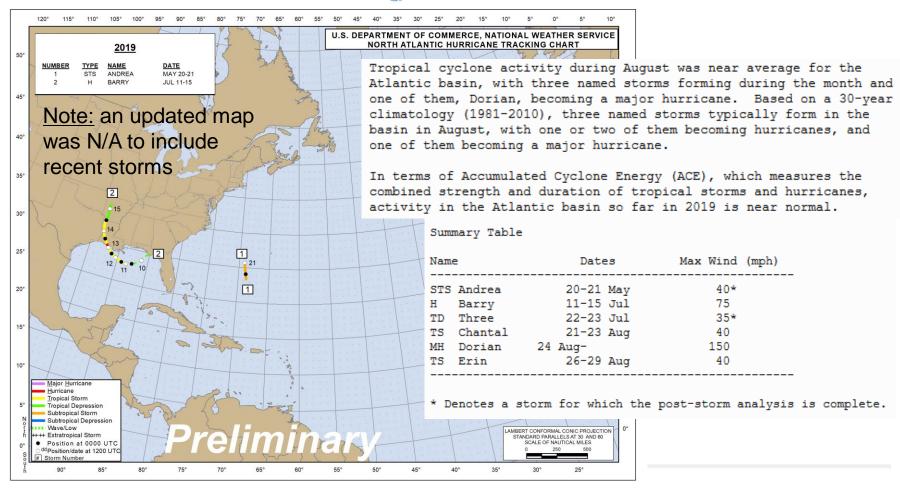




Preliminary Summary 2019 Season

(as of September 1 2019)









Contact

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Environment and Climate Change Canada Weather Pages

www.weather.gc.ca

