





Integrated Climate Bulletin Winter 2018-19 Review **Spring 2019 Outlook**

Jill Maepea

Meteorological Service of Canada **Environment and Climate Change**

Canada

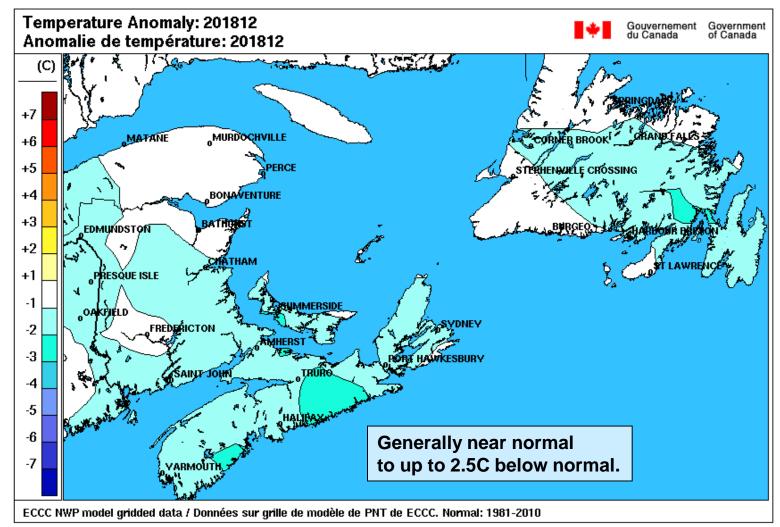
March 5, 2019

December 2018; Climate Summary

				Meai	n Temper	ature (°C)		Total Pre	cip (mm)
						_				Departure from Normal as
Station Name	Prov	TC ID	Type	Monthly Mean	Normal Mean	Departure from Normal	Monthly Total	Normal Total	% of Normal	% of Normal
AROOSTOOK	NB	ICID	DAILY	-8.3	-7.6	-0.7	118.6	89.7	132	
BAS CARAQUET	NB	WXS	AU8	-6.1	-6.0	-0.1	110.0	05.7	152	32
BAS CARAQUET	NB	VVAS	DAILY	-0.1	-0.0	-0.1	89.8	112.6	80	-20
BATHURST A	NB	ZBF	NCA	-8.7	-6.0	-2.7	46.8	98.4		
BOUCTOUCHE CDA CS	NB	ABT	AU8	-6.8	-5.1	-1.8	97.9	101.1		
CHARLO AUTO	NB	ZCR	AU8	-8.4	-7.9		64.1	79.6		
MIRAMICHI RCS	NB	ACQ	AU8	-7.3	-6.2	-1.0	59.5	85.3	70	
DOAKTOWN AUTO RCS	NB	ADN	AU8	-7.5	-6.4	-1.2	85.2	96.7		
FREDERICTON INTL A	NB	YFC	NCA	-6.4	-5.7	-0.7	100.8	94.9	106	
FREDERICTON CDA CS	NB	AFC	AU8	-6.2	-5.3	-0.9	111.5	91.8	122	
FUNDY PARK (ALMA) CS	NB	AFY	AU8	-4.8	-3.3	-1.5	140.3	146.6	96	
GAGETOWN AWOS A	NB	YCX	AU5	-6.2	-4.4	-1.8	97.5	98.4	99	
GRAND MANAN SAR CS	NB	XGM	AU8	-3.6			184.9			
KOUCHIBOUGUAC	NB	AKC	AU8	-7.0	-6.2	-0.8	79.0	125.4	63	-37
MECHANIC SETTLEMENT	NB	AMS	AU8	-7.0			178.3			
MISCOU ISLAND (AUT)	NB	WMI	AU8	-5.3						
MONCTON INTL A	NB	YQM	NCH	-5.9	-4.8	-1.1	83.4	114.4		-27
OAK POINT	NB		DAILY	-4.9	-4.4	-0.5	157.1	98.4	1 60	60
POINT LEPREAU CS	NB	WPE	AU8	-3.3	-3.4	0.1	119.7	132.0	91	-9
RED PINES	NB	ARP	AU8	-8.9	-7.2	-1.7	68.6	87.4	79	-21
SAINT JOHN A	NB	YSJ	NCH	-5.5	-4.4	-1.1	156.0	130.4	120	20
ST. STEPHEN	NB	WSS	AU8	-5.2			123.7			
SUSSEX FOUR CORNERS	NB	ASF	AU8	-5.8	-4.5	-1.3	79.6	105.6	75	-25
WOODSTOCK	NB		DAILY	-7.6	-7.0	-0.6	84.8	103.2	82	-18
WOODSTOCK NEWBRIDGE	NB	EWD	AU8	-7.9	-7.0	-0.9	86.6	103.2	84	-16
Average				-6.4	-5.6	-1.0	104.9	104.7	92	
Max				-3.3	-3.3		184.9	146.6	160	60
Min				-8.9	-7.9	-2.7	46.8	79.6	48	-52



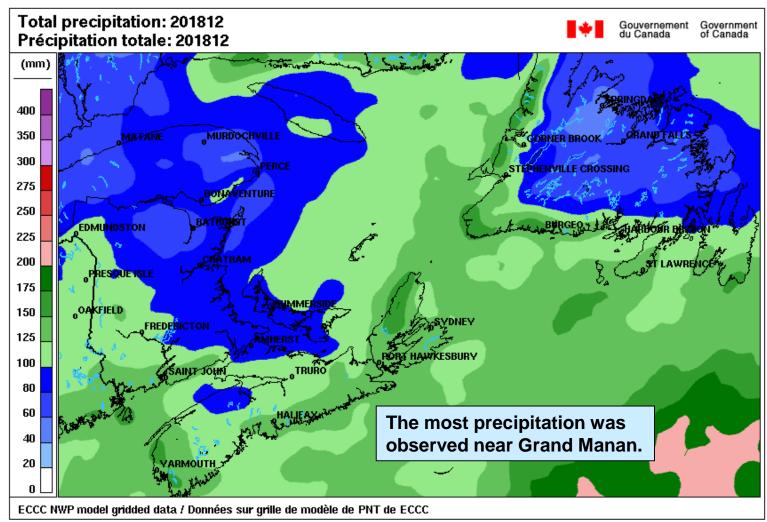
December 2018 Temperature departure from 1981-2010 mean.







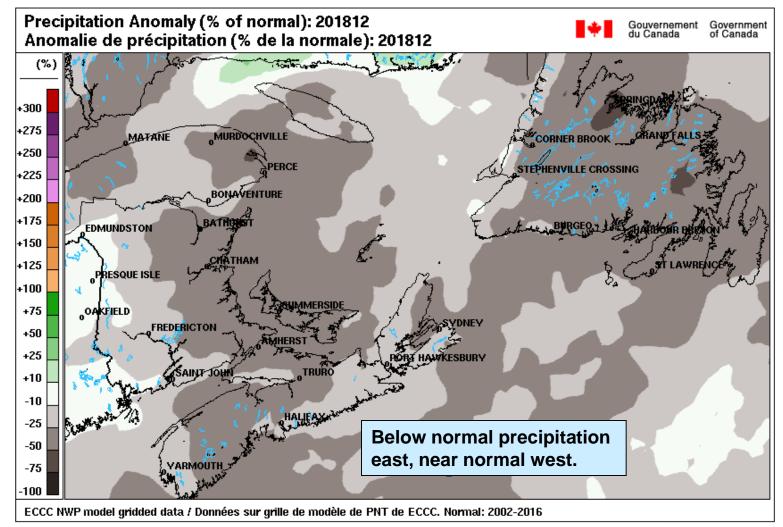
December 2018 Total Precipitation







December 2018 Precipitation departure from 1981-2010 mean.







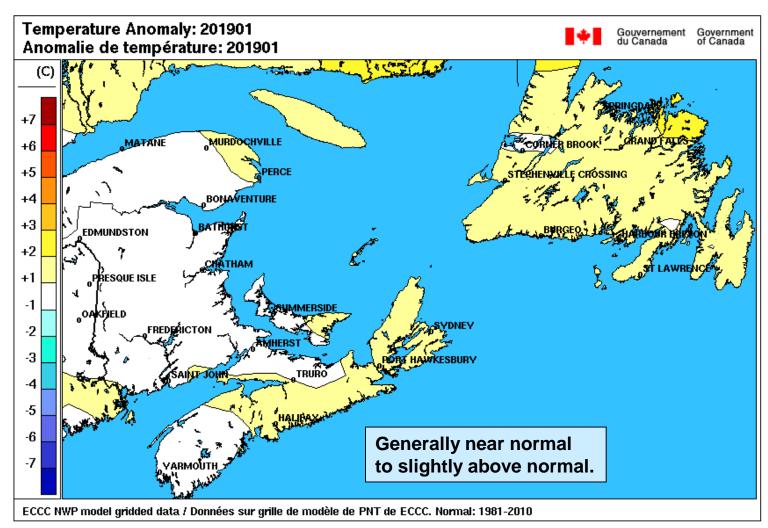
January 2019; Climate Summary

		i			. (0.5)	Total Precip (mm)					
			Mea	n Temper	ature (°C)		i I				
									Departure		
									from		
				l	_				Normal as		
		Station		Normal	Departure	Monthly	Normal	% of	% of		
Station Name	TC ID	Type	Mean	Mean	from Normal	Total	Total	Normal	Normal		
AROOSTOOK		DAILY	-12.6		0.0	164.6	98.7				
BAS CARAQUET	WXS	AU8	-10.0	-9.8	-0.2	155.4	97.3				
BAS CARAQUET		DAILY				189.6	97.3	195	95		
BATHURST A	ZBF	NCA	-12.3		-1.5						
BOUCTOUCHE CDA CS	ABT	AU8	-8.8	-9.0	0.2	136.4	104.2	131	31		
CHARLO AUTO	ZCR	AU8	-12.5	-12.6	0.1	74.4	84.5	88	-12		
MIRAMICHI RCS	ACQ	AU8	-10.9	-10.8	-0.1	154.0	87.0	177	77		
DOAKTOWN AUTO RCS	ADN	AU8	-11.0	-10.7	-0.3	170.8	105.6	162	62		
EDMUNDSTON	ERM	AU8	-14.9	-12.9	-2.0	164.1	79.4	207	107		
FREDERICTON INTL A	YFC	NCA	-9.5	-9.4	-0.1						
FREDERICTON CDA CS	AFC	AU8	-9.5	-9.4	-0.1	134.4	101.9	132	32		
FUNDY PARK (ALMA) CS	AFY	AU8	-6.4	-7.4	1.0	259.6	144.9	179	79		
GAGETOWN AWOS A	YCX	AU5	-9.6	-8.6	-1.0	81.5	104.6	78	-22		
GRAND MANAN SAR CS	XGM	AU8	-5.3			196.6					
KOUCHIBOUGUAC	AKC	AU8	-9.7	-10.1	0.4	201.2	137.7	146	46		
MECHANIC SETTLEMENT	AMS	AU8	-8.7			262.9					
MISCOU ISLAND (AUT)	WMI	AU8	-9.0			151.4					
MONCTON INTL A	YQM	NCH	-8.1	-8.9	0.7	152.1	103.3	147	47		
OAK POINT		DAILY	-7.9	-8.6	0.7	172.5	104.6	165	65		
POINT LEPREAU CS	WPE	AU8	-5.3	-7.1	1.8	163.4	126.6	129	29		
RED PINES	ARP	AU8	-12.6		-0.5	195.0	86.6	\ \			
SAINT JOHN A	YSJ	NCH	-7.5		0.4	171.6	123.5		39		
ST. STEPHEN	WSS	AU8	-7.7			137.5					
SUSSEX FOUR CORNERS	ASF	AU8	-7.6		0.9	170.5	108.8	157	57		
WOODSTOCK	1	DAILY	-11.7		-0.2		104.0				
WOODSTOCK NEWBRIDGE	EWD	AU8	-11.7		-0.2		104.0		34		
Average	200	, .00	-9.6		0.0		105.2				
Max			-5.3		1.8	262.9	144.9		125		
Min			-14.9	-12.9	-2.0	74.4	79.4	78	-22		





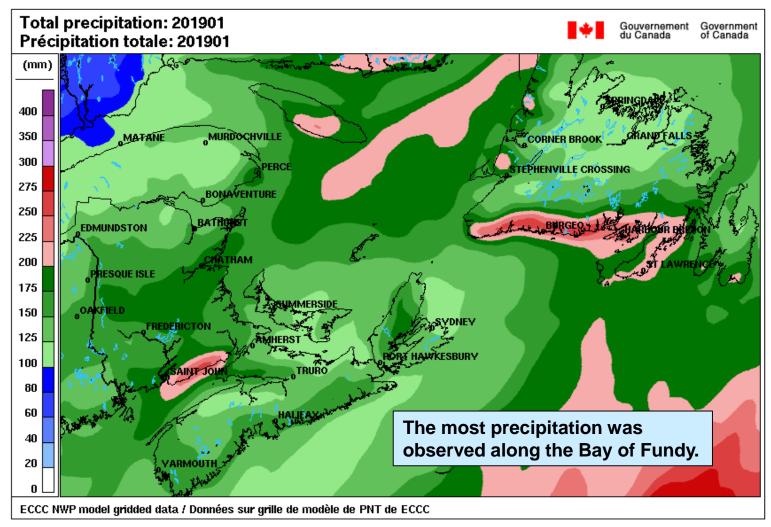
January 2019 Temperature departure from 1981-2010 mean.







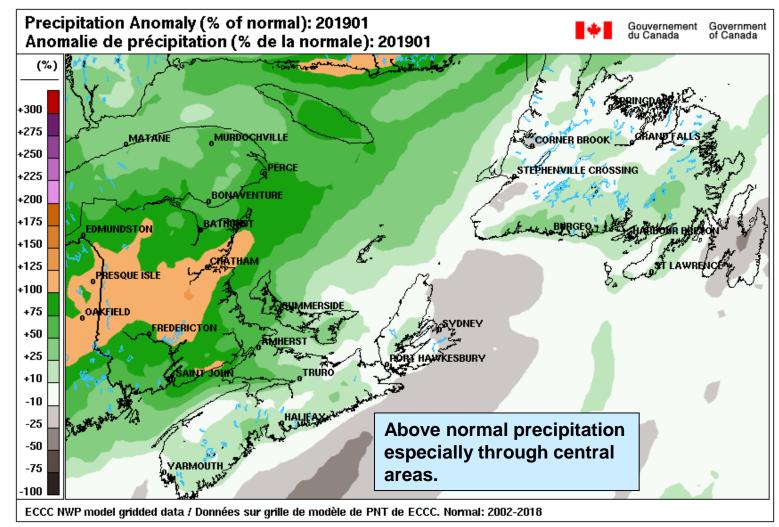
January 2019 Total Precipitation







January 2019 Precipitation departure from 1981-2010 mean.





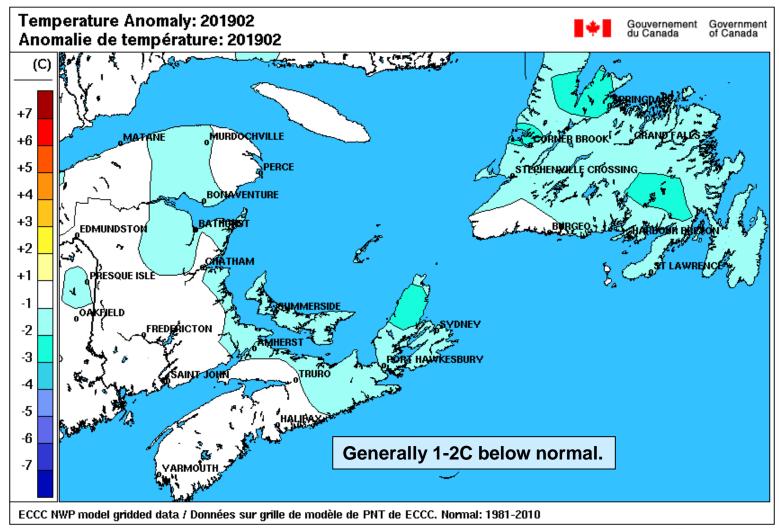


February 2019; Climate Summary

			Mean	Tempera	ture (°C)	Total Precip (mm)				
		Station	Monthly	-	Departure from	Monthly	Normal		Departure from Normal as % of	
Station Name	TC ID	Type	Mean	Mean	Normal	Total	Total	Normal	Normal	
BAS CARAQUET	WXS	AU8	-11.1	-9.7	-1.4	92.7	79.0	117	17	
BAS CARAQUET		DAILY				107.6	79.0	136	36	
BATHURST A	ZBF	NCA	-11.4	-9.4	-2.0					
BOUCTOUCHE CDA CS	ABT	AU8	-9.1	-7.7	-1.4	72.6	88.0	83	-17	
CHARLO AUTO	ZCR	AU8	-11.7	-10.9	-0.8	39.8	66.9	2 60	-40	
MIRAMICHI RCS	ACQ	AU8	-10.0	-8.9	-1.1	54.1	70.9	76	-24	
DOAKTOWN AUTO RCS	ADN	AU8	-10.8	-8.9	-1.9	62.1	77.3	80	-20	
EDMUNDSTON	ERM	AU8	-14.4	-11.3	-3.2	110.1	62.3	→ 177	77	
FREDERICTON INTL A	YFC	NCA	-9.1	-7.9	-1.2					
FREDERICTON CDA CS	AFC	AU8	-9.4	-7.5	-1.9	73.3	70.1	105	5	
FUNDY PARK (ALMA) CS	AFY	AU8	-7.5	-6.1	-1.4	106.2	107.8	98	-2	
GAGETOWN AWOS A	YCX	AU5	-8.6	-6.6	-1.9					
GRAND MANAN SAR CS	XGM	AU8	-5.4			124.7				
KOUCHIBOUGUAC	AKC	AU8	-9.6	-8.6	-1.0	95.8	98.8	97	-3	
MECHANIC SETTLEMENT	AMS	AU8	-9.7			117.9				
MISCOU ISLAND (AUT)	WMI	AU8	-9.8							
MONCTON INTL A	YQM	NCH	-8.3	-7.6	-0.7	75.2	90.9	83	-17	
OAK POINT		DAILY	-7.5	-6.6	0.9	92.1	77.3	119	19	
POINT LEPREAU CS	WPE	AU8	-5.5	-5.5	≥ 0.0	104.2	101.3	103	3	
RED PINES	ARP	AU8	-11.1	-9.9	-1.2	88.8	59.6	149	49	
SAINT JOHN A	YSJ	NCH	-7.8	-7.1	-0.8	93.7	91.0	103	3	
ST. STEPHEN	WSS	AU8	-7.1			93.4				
SUSSEX FOUR CORNERS	ASF	AU8	-8.0	-6.8	-1.2	89.5	85.0	105	5	
WOODSTOCK		DAILY	-10.3	-9.5	-0.8	90.6	71.6	127	27	
WOODSTOCK NEWBRIDGE	EWD	AU8	-10.9	-9.5	-1.4	57.7	71.6	81	-19	
Average			-9.3	-8.3	-1.3	87.7	80.5	105	5	
Max			-5.4	-5.5	0.0	124.7	107.8	177	77	
Min			-14.4	-11.3	-3.2	39.8	59.6	60	-40	



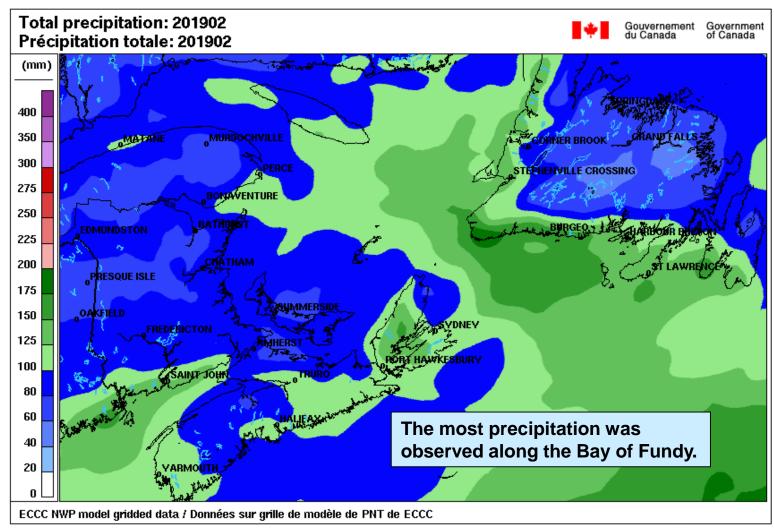
February 2019 Temperature departure from 1981-2010 mean.







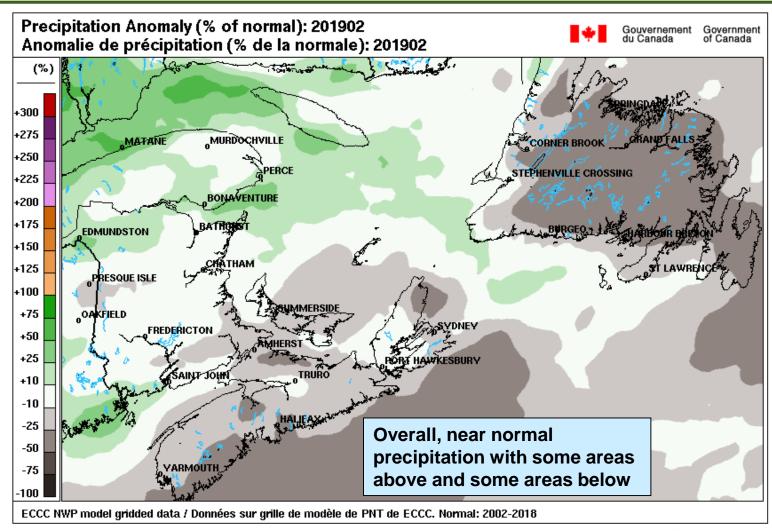
February 2019 Total Precipitation







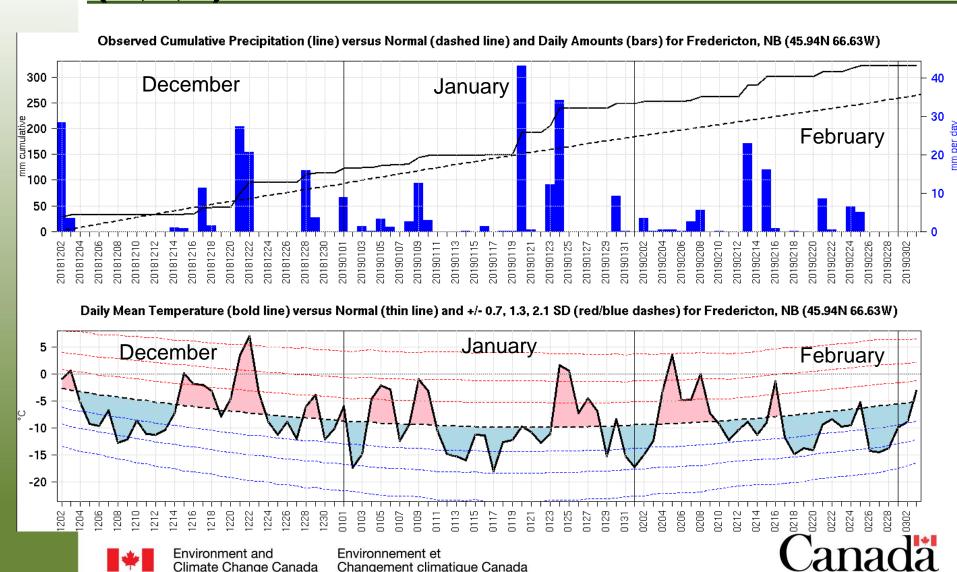
February 2019 Precipitation departure from 1981-2010 mean.





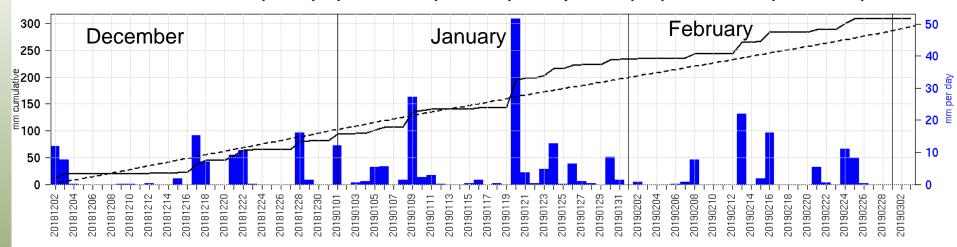


2018-19 Temperature and precipitation – (D,J,F) for Fredericton

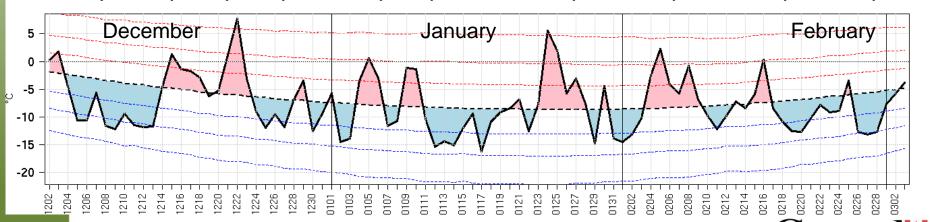


2018-19 Temperature and precipitation – (D,J,F) for Moncton

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

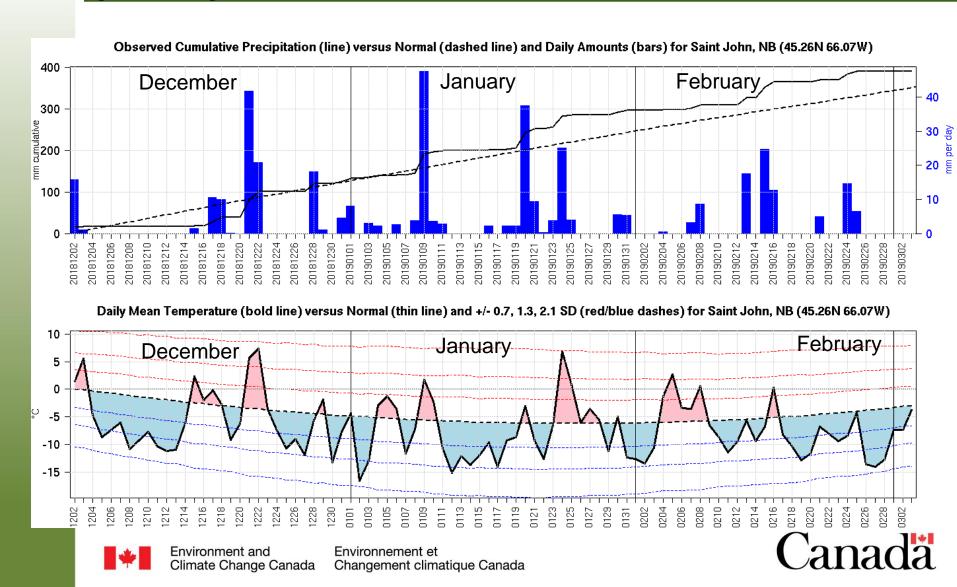


Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Moncton, NB (46.08N 64.76W)



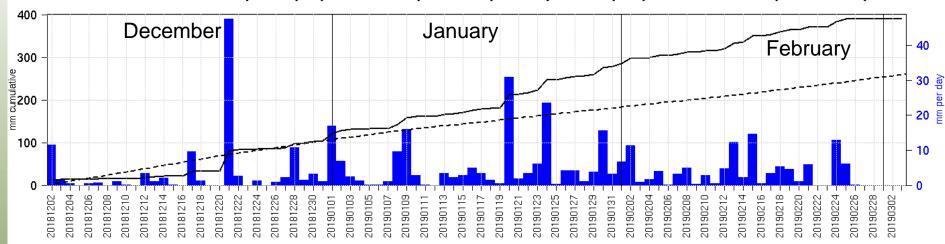


2018-19 Temperature and precipitation – (D,J,F) for Saint John

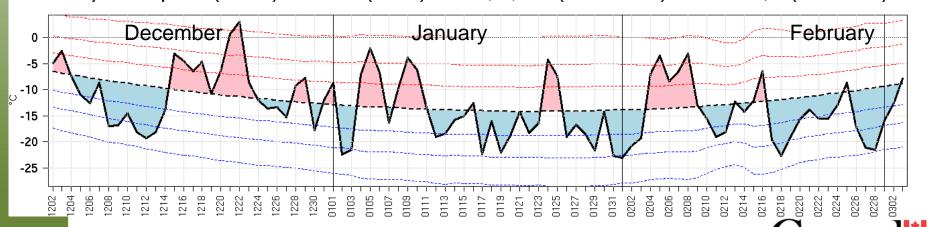


2018-19 Temperature and precipitation – (D,J,F) for Edmundston

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

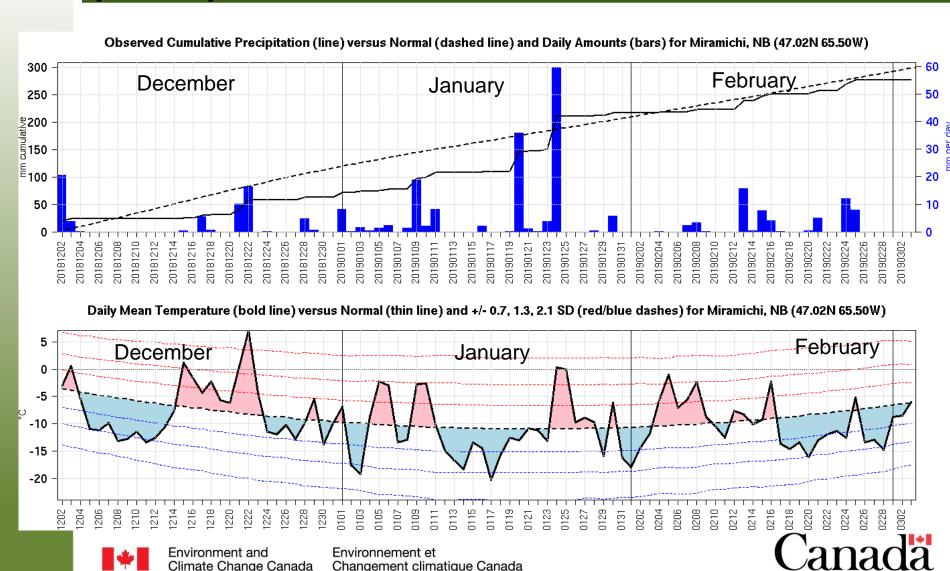


Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes) for Edmundston, NB (47.37N 68.33W)



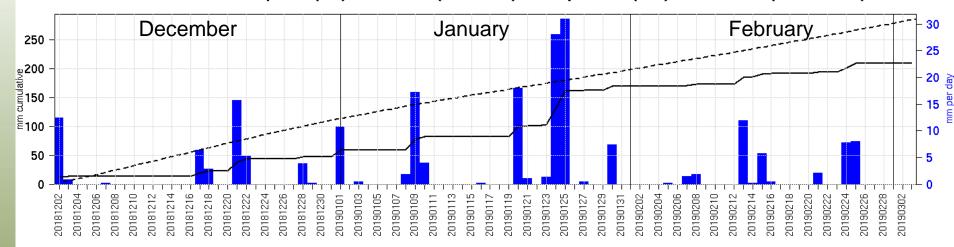


2018-19 Temperature and precipitation – (D,J,F) for Miramichi

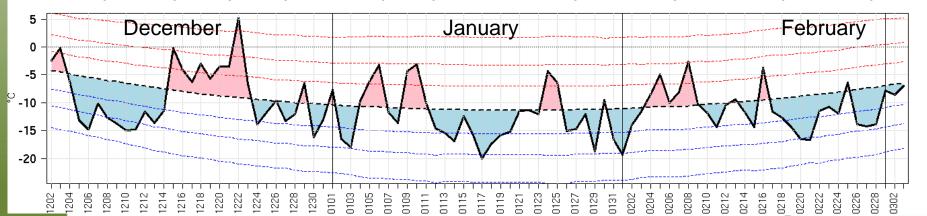


2018-19 Temperature and precipitation – (D,J,F) for Bathurst

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)

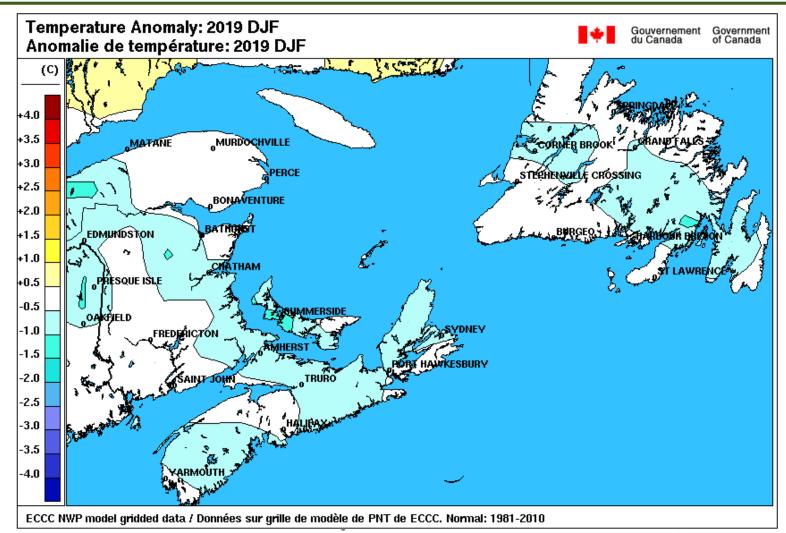




Environnement et Changement climatique Canada



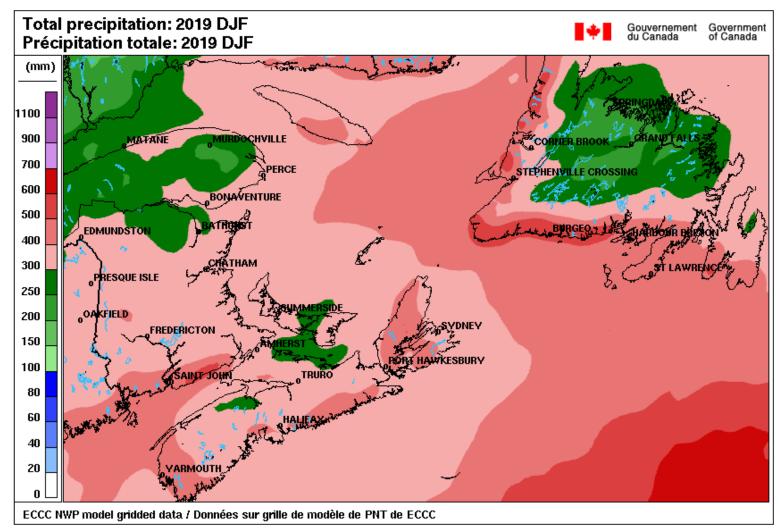
Winter 2018-19 (D,J,F) Temperature departure from 1981-2010 mean







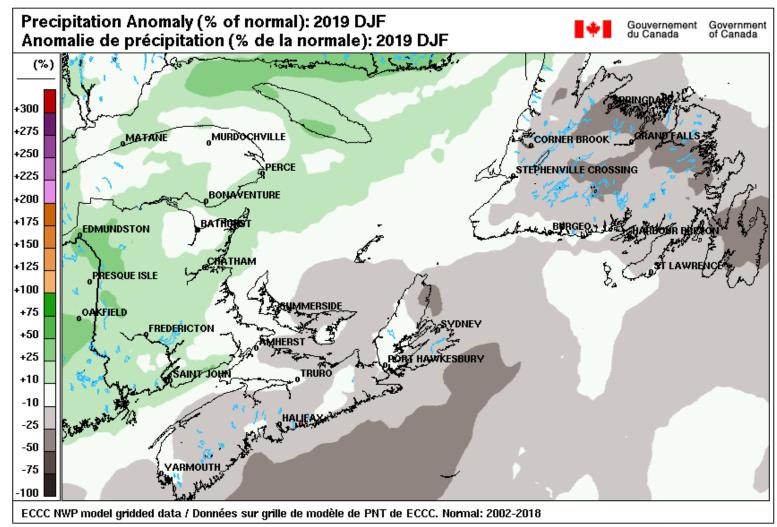
Winter 2018-19 (D,J,F) Total Precipitation







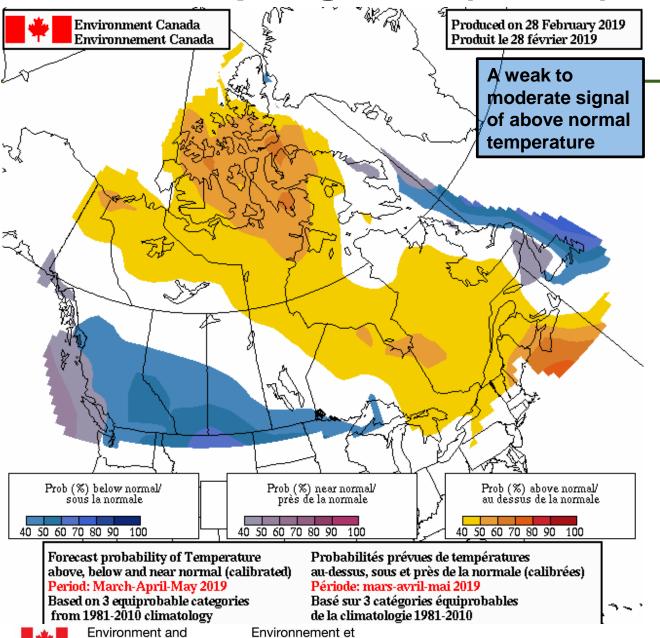
Winter 2018-19 (D,J,F) Precipitation departure from 1981-2010 mean







Outlook - Spring 2019 (M,A,M)



Changement climatique Canada

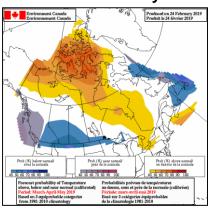
Climate Change Canada

Temperature

March April May

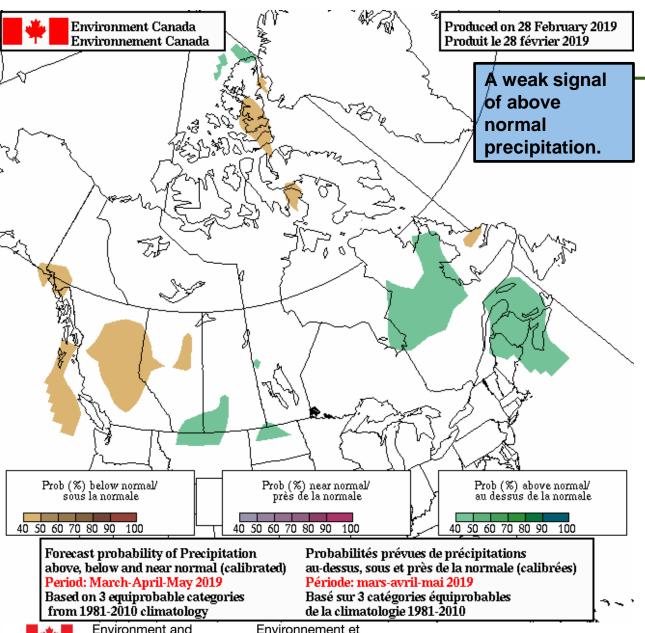
NB (M, A, M) Normal; 10/-1

Produced February 24





Outlook – Spring 2019 (M,A,M)

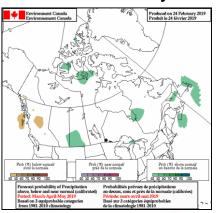


Precipitation

March April May

NB (M, A, M) Normal; ~275 mm

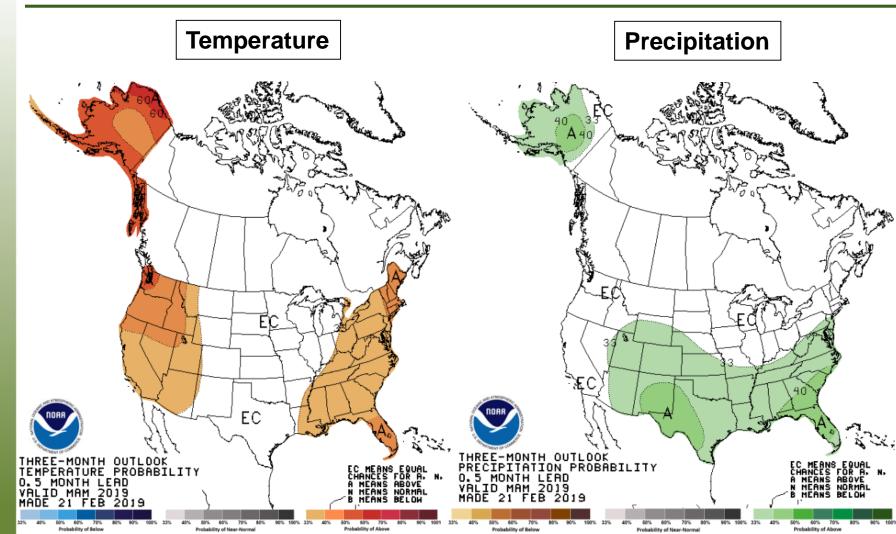
Produced February 24







March – April – May 2019

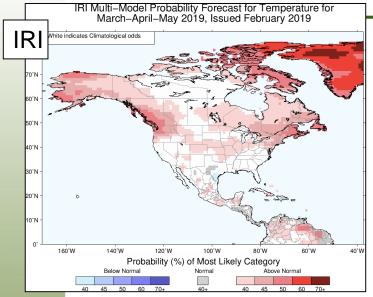


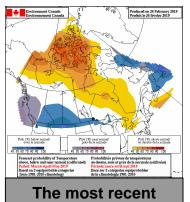


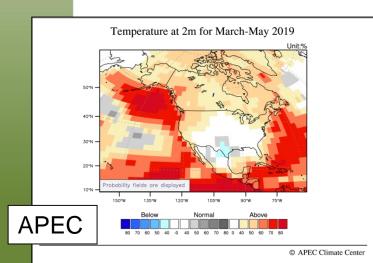
Environnement et Changement climatique Canada



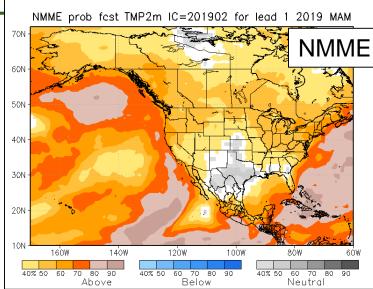
Spring 2019 Probabilistic Forecast from Foreign models (Temperature)

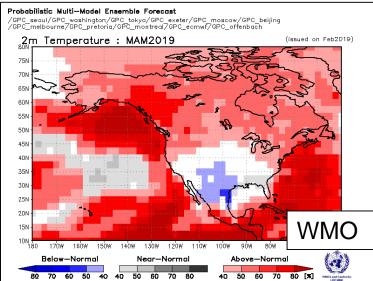




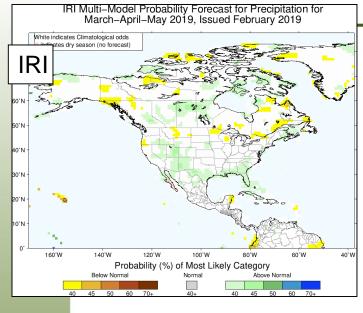


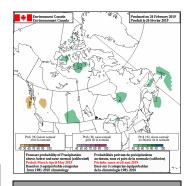
nement et ment climatique Canada

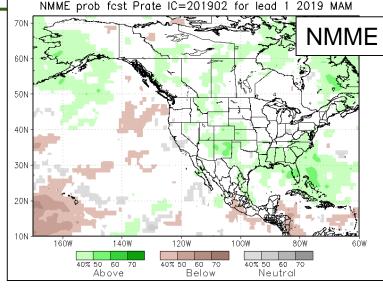


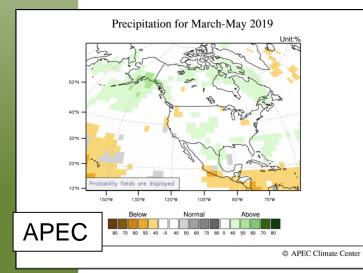


Spring 2019 Probabilistic Forecast from Foreign models (Precipitation)





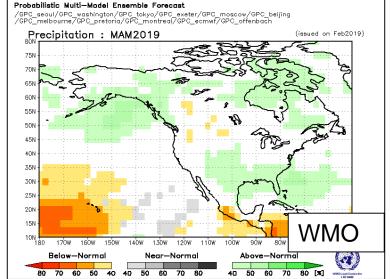






nnement et

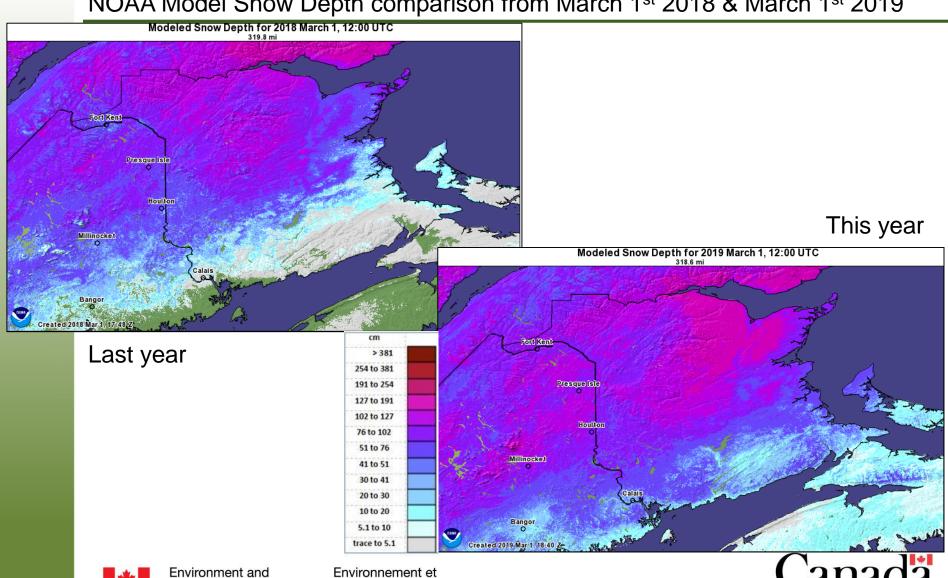
pement climatique Canada



Additional Information

Climate Change Canada

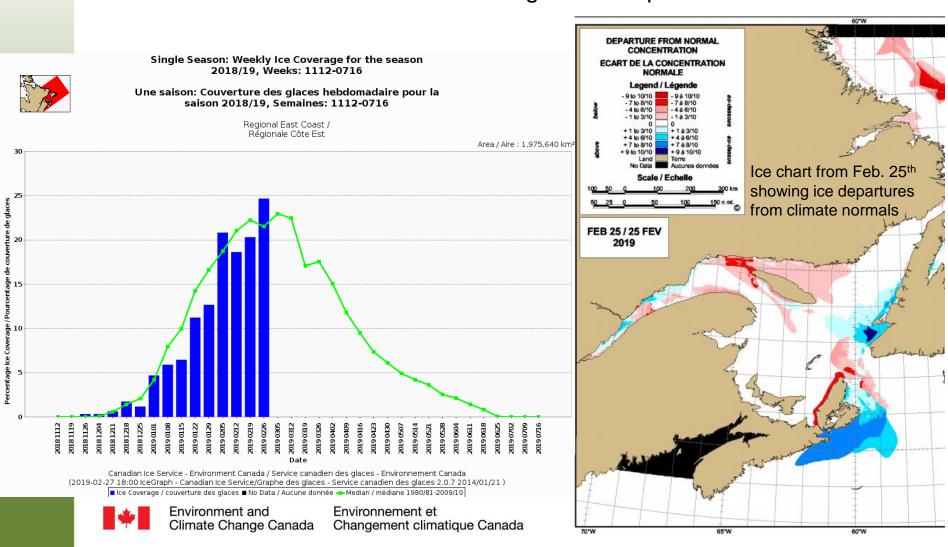
NOAA Model Snow Depth comparison from March 1st 2018 & March 1st 2019



Changement climatique Canada

Additional Information

The Gulf of St Lawrence sea ice has a significant impact on albedo.



Contact

Jill Maepea
Warning Preparedness Meteorologist
jill.maepea@canada.ca

Environment and Climate Change Canada's Weather Pages

www.weather.gc.ca

