

Environnement et Changement climatique Canada





September 2018 Review October and Fall Outlook

Jill Maepea Meteorological Service of Canada Environment and Climate Change Canada October 3, 2018

September 2018; Climate Summary

			Mea	n Temper	ature (°C)	Total Precip (mm)			
									Departure
									from
									Normal as
		Station	Monthly	Normal	Departure	Monthly	Normal	% of	% of
Station Name	TC ID	Туре	Mean	Mean	from Normal	Total	Total	Normal	Normal
BAS CARAQUET	WXS	AU8	13.4	13.1	0.3	51.6	72.6	71	-29
BAS CARAQUET		DAILY				35.0	72.6	48	-52
BATHURST A	ZBF	NCH	13.1	13.5	-0.4	28.9	84.2	34	-66
BOUCTOUCHE CDA CS	ABT	AU8	14.2	13.8	0.4	66.4	86.3	77	-23
CHARLO AUTO	ZCR	AU8	12.6	12.1	0.5	55.4	79.3	70	-30
MIRAMICHI RCS	ACQ	AU8	14.0	13.5	0.5	66.0	84.5	78	-22
DOAKTOWN AUTO RCS	ADN	AU8	13.7	13.5	0.2	47.0	100.2	47	-53
EDMUNDSTON	ERM	AU8	11.7	12.2	-0.5	70.8	94.6	75	-25
FREDERICTON	YFC	NCA	14.4	13.6	0.8				
FREDERICTON CDA CS	AFC	AU8	14.8	14.0	0.8	32.6	94.7	34	-66
FUNDY PARK (ALMA) CS	AFY	AU8	14.2	13.7	0.5	183.3	122.7	ال ا	49
GAGETOWN AWOS A	YCX	AU5	14.4	14.7	-0.3	33.0	86.1	38	-62
GRAND MANAN SAR CS	XGM	AU8	13.5			102.6			
KOUCHIBOUGUAC	AKC	AU8	13.4	13.3	0.1	55.7	83.7	67	-33
MECHANIC SETTLEMENT	AMS	AU8	13.6			89.5			
MONCTON INTL A	YQM	NCH	14.4	13.6	0.8	100.5	93.5	107	7
OAK POINT		DAILY	14.9	14.7	0.2	69.6	86.1	81	-19
POINT LEPREAU CS	WPE	AU8	14.1	12.4	1.7	53.7	120.9	44	-56
RED PINES	ARP	AU8	12.3	13.1	-0.8	20.5	76.5	27	-73
SAINT JOHN A	YSJ	NCH	13.3	13.0	0.4	109.0	105.6	103	3
ST. STEPHEN	WSS	AU8	14.7			64.0			
SUSSEX FOUR CORNERS	ASF	AU8	14.1	14.3	-0.2	58.2	99.9	58	-42
WOODSTOCK		DAILY	14.0	13.2	0.8	57.6	95.7	60	-40
WOODSTOCK NEWBRIDGE	EWD	AU8	13.0	13.2	-0.2	51.4	95.7	54	-46
Average			13.7	13.4	0.3	65.3	91.8	66	-34
Max			14.9	14.7	1.7	183.3	122.7	149	49
Min			11.7	12.1	-0.8	20.5	72.6	27	-73

Highlights:

The average temperature was near normal (+0.3C above normal). Point Lepreau had the highest positive anomaly with an average temperature of +1.7C above normal.

Total precipitation amounts were below normal, with an average of 66% of total precipitation. The Fundy Park area received up to 121mm on September 26th which contributed to one of the only sites to report above normal precipitation. However, northern parts of the province continued their dry spell for the fourth month in a row as Charlo only received 70% of their precipitation for the month.





September 2018; Climate Summary

Events:

Sep. 11; Rain event; Remnants of tropical depression Gordon brought localized areas of heavy rain of 20-35mm to the Bay of Fundy area with Grand Manan receiving as much as 74mm.

Sep. 22; Wind event; An intense storm ushered in the first day of autumn with maximum wind gusts reaching 85 km/h in the Charlo area and causing several power outages across the province.

Sep. 26: Rain event; A low pressure system from the Great Lakes brought periods of rain and isolated thunderstorms to the province and the precipitation was especially heavy along the Fundy coast where locally 50-80mm fell. Fundy Park reported the most rain at 121mm.

Days with thunderstorm activity (lightning) in New Brunswick; 3, 6, 17, 21, 26

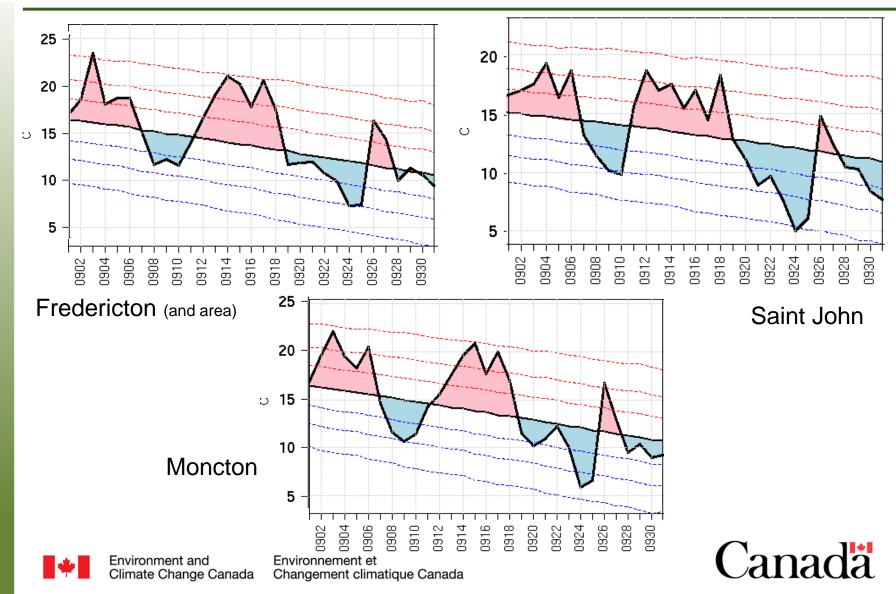
Days with temperature records broken or tied in New Brunswick; **3** 6 9 10 13 14 15 17 23 24 25 (red=maximum, blue=minimum)





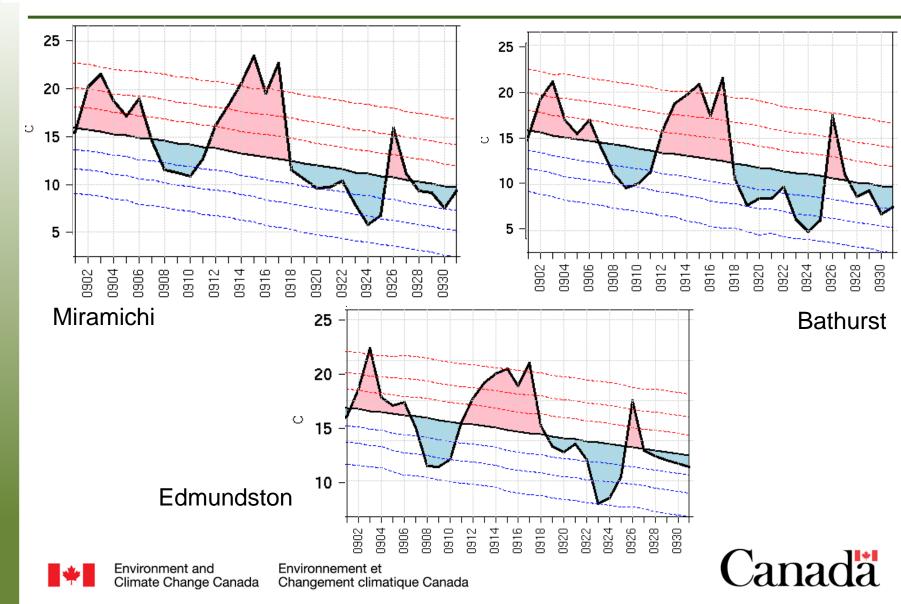
September 2018 - Temperature





September 2018 - Temperature

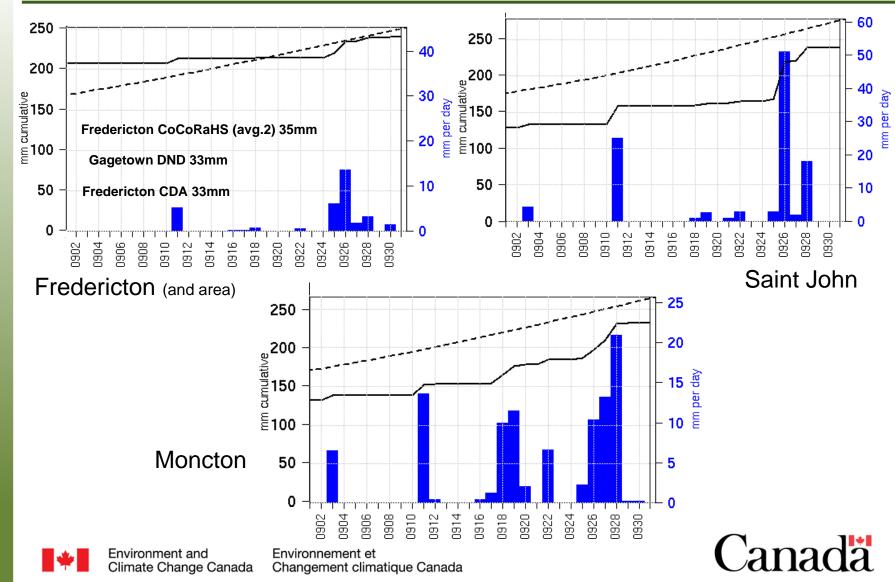
Daily Mean Temperature (bold line) versus Normal (thin line) and +/- 0.7, 1.3, 2.1 SD (red/blue dashes)



September 2018 - Precipitation

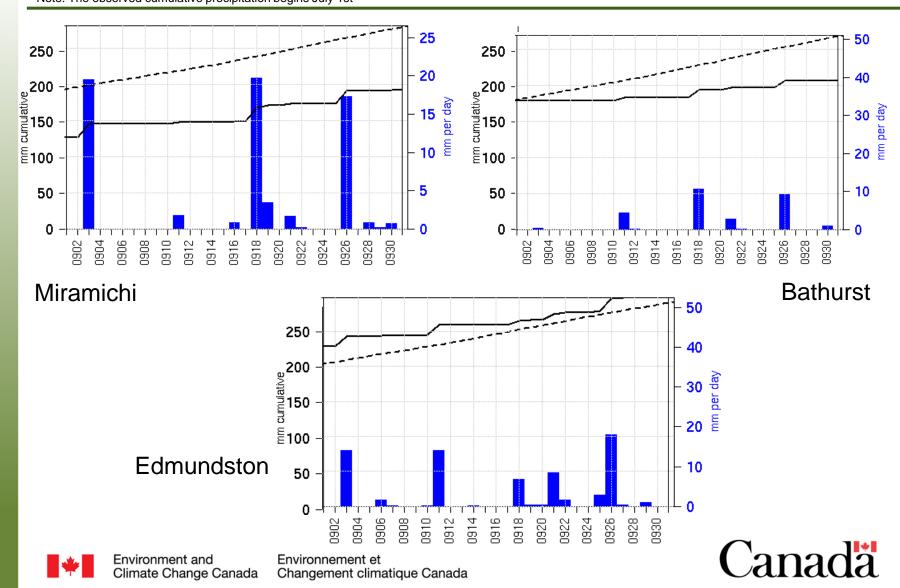
Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars)

Note: The observed cumulative precipitation begins July 1st

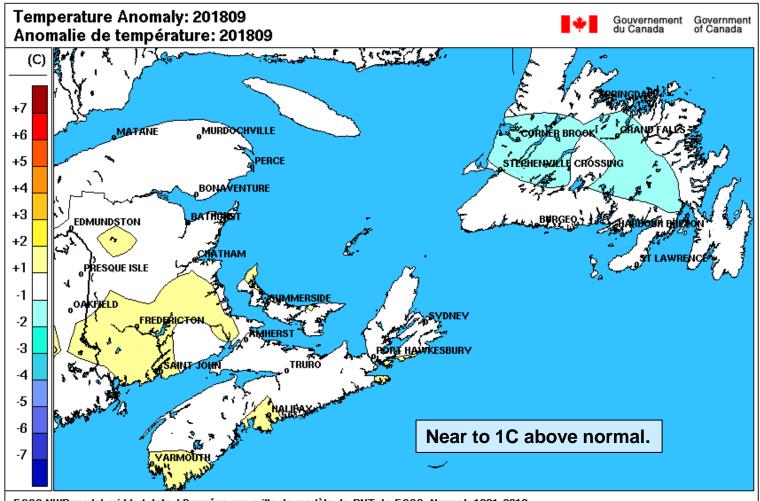


September 2018 - Precipitation

Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars) Note: The observed cumulative precipitation begins July 1st



September 2018 Temperature departure from 1981-2010 mean.

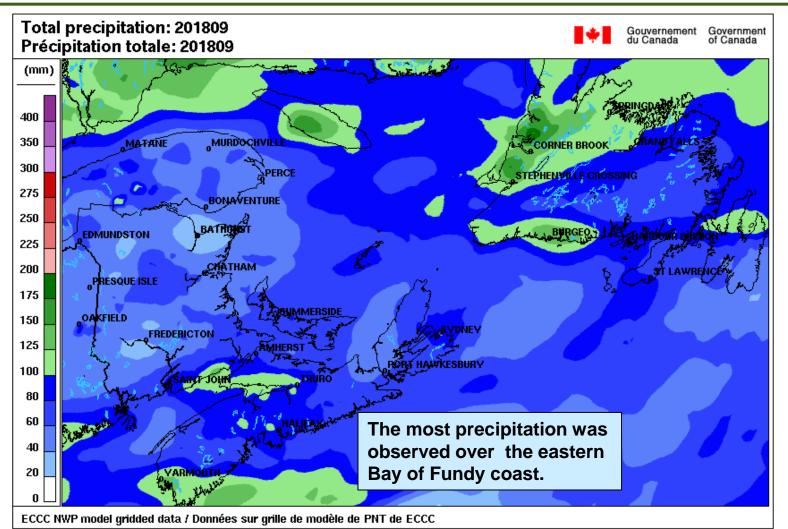


ECCC NWP model gridded data / Données sur grille de modèle de PNT de ECCC. Normal: 1981-2010

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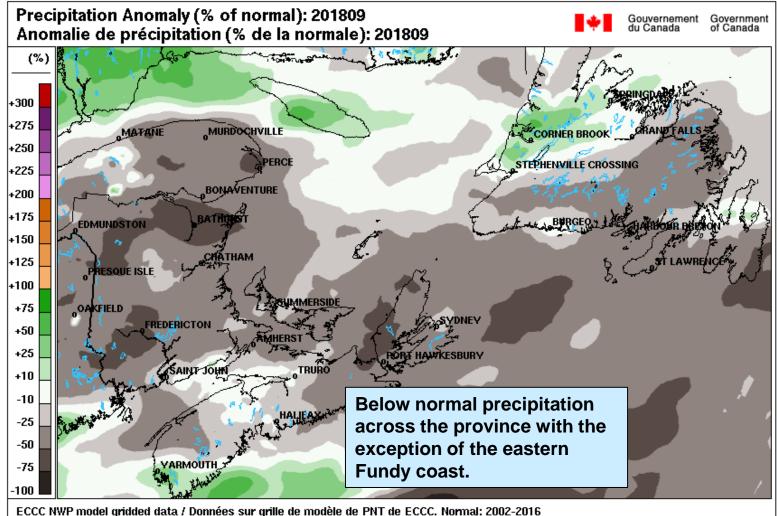
September 2018 Total Precipitation



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September 2018 Precipitation departure from 1981-2010 mean.

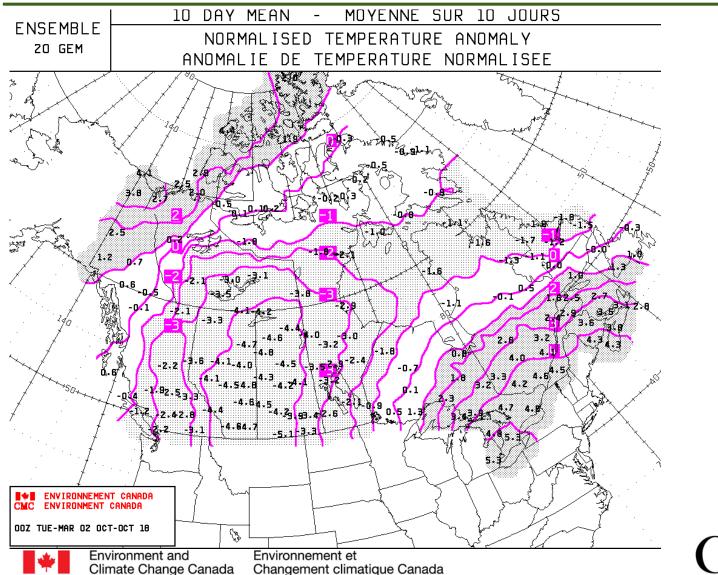


CC NWP model gridded data 7 Donnees sur grille de modele de PNT de ECCC. Normal: 200



Outlook - 10 day mean temperature

(Suggesting above normal (+3-4C) conditions)



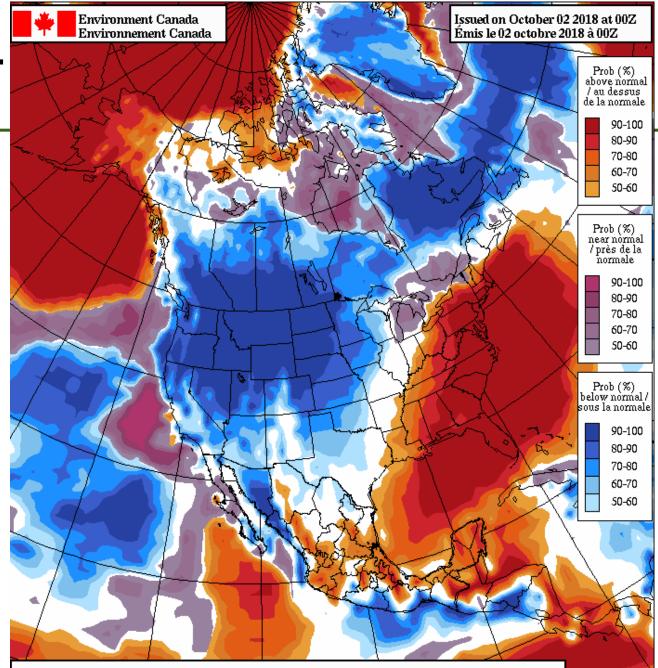
10 day forecast ending October 12, 2018



Day 8 to 14 Forecast

Period ending October 17, 2018

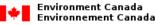
This is suggesting near normal conditions with a weak signal of below normal across northern New Brunswick.



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Forecast probability of above, below and near normal temperature (no calibration) Period: 20181010-20181017 Probabilités prévues que les températures soient au-dessus, sous et près de la normale (non-calibrées) Période: 20181010-20181017



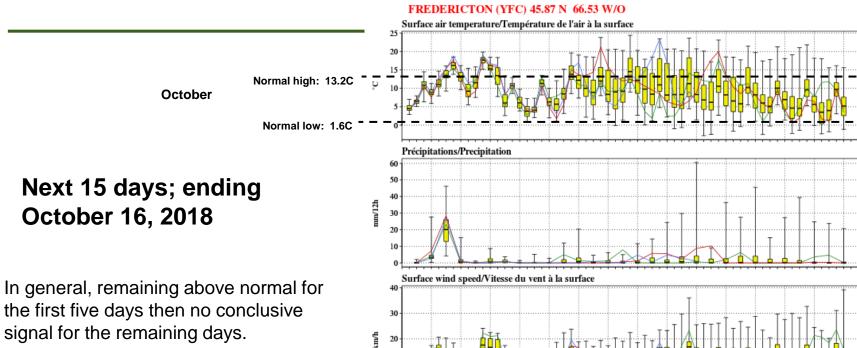
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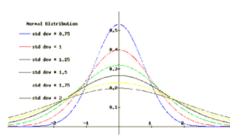


Fredericton

Ensemble and Deterministic Forecasts issued 2 October 2018 00 UTC Prévision d'ensemble et déterministe émises le 2 Octobre 2018 00 UTC

NAEFS / SPENA



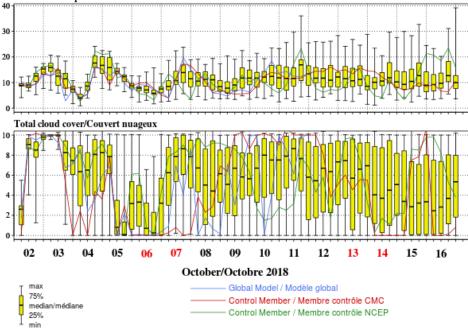


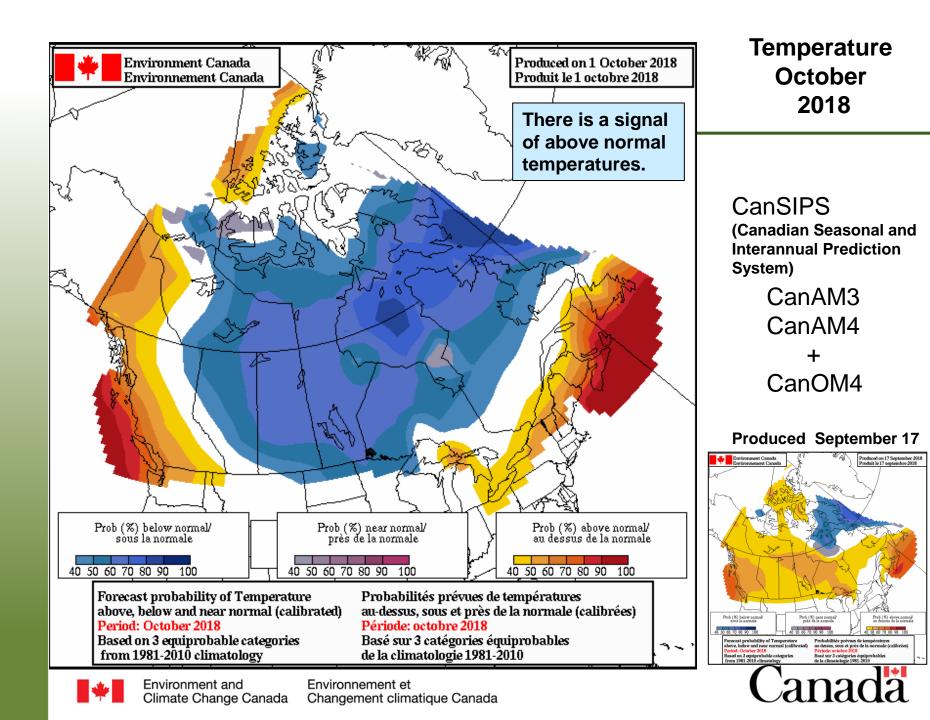


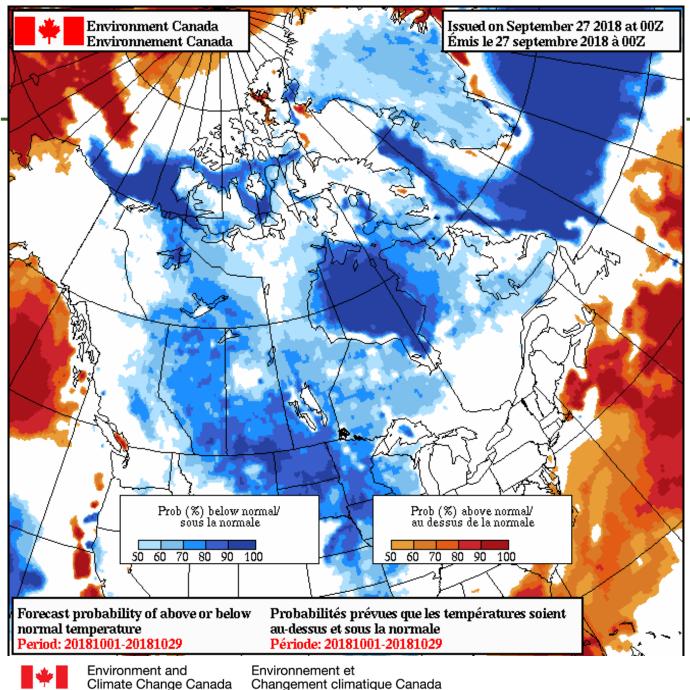
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lixième/tenth:





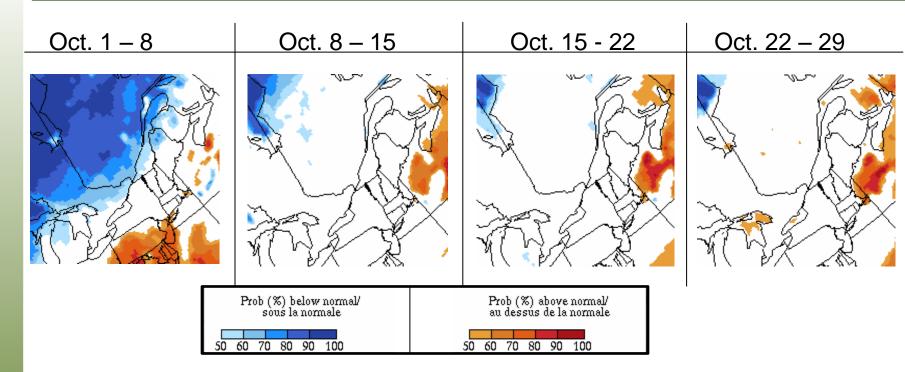


Temperature October 1 to October 29

CMC Monthly Forecast Product using GEPS 50km res.



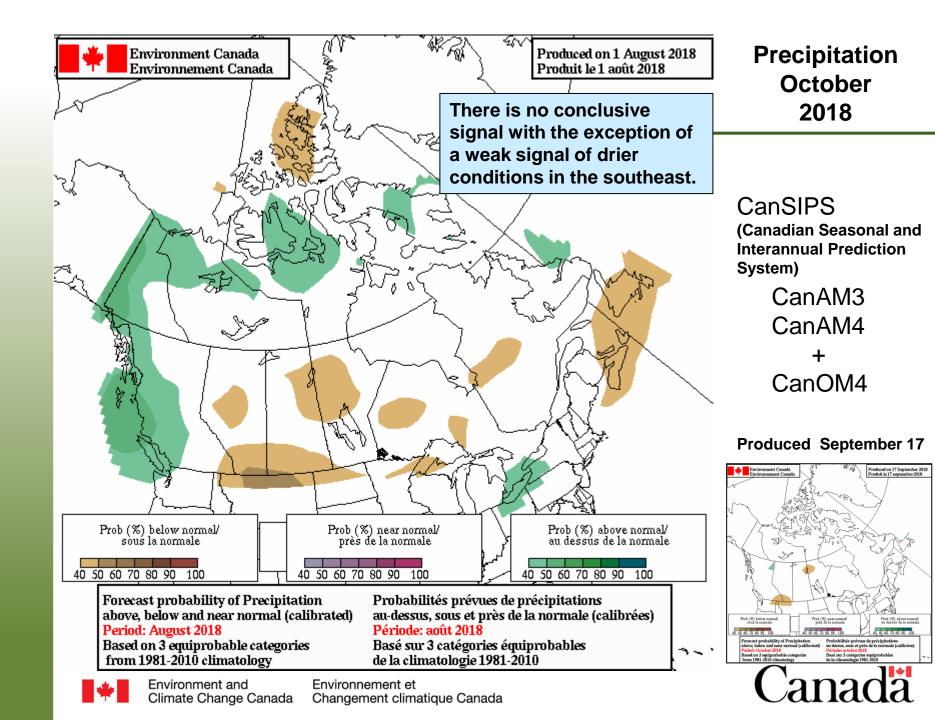
Weekly signature from GEPS 50km resolution

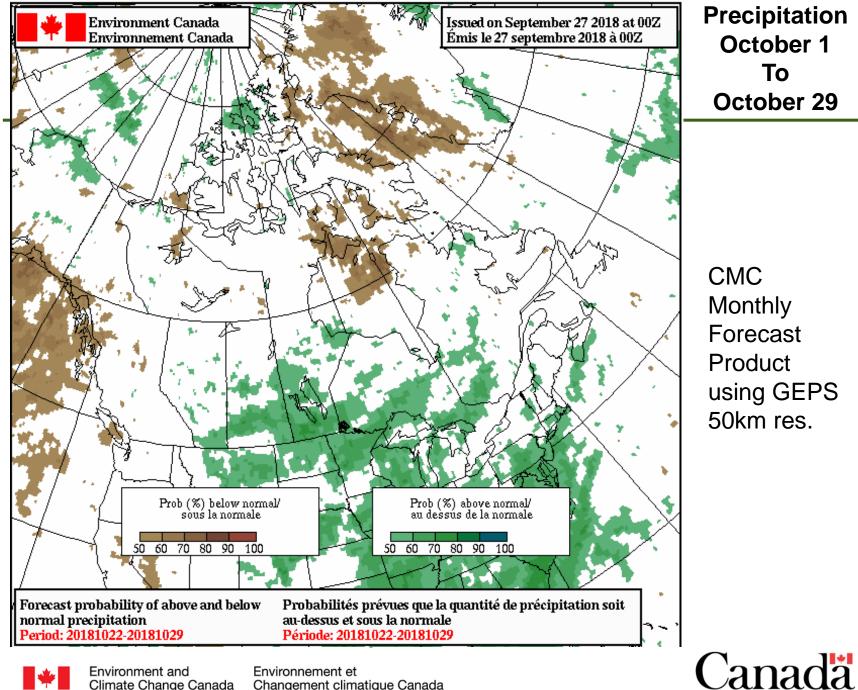


A weak signal of below normal conditions for the first week then near normal for the rest of the month.

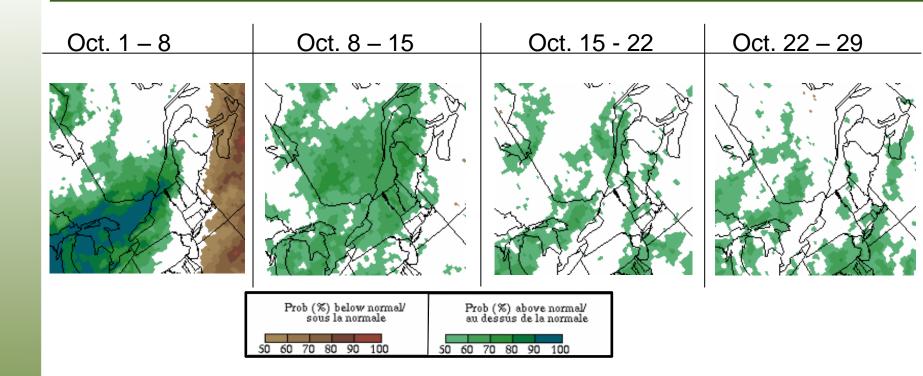








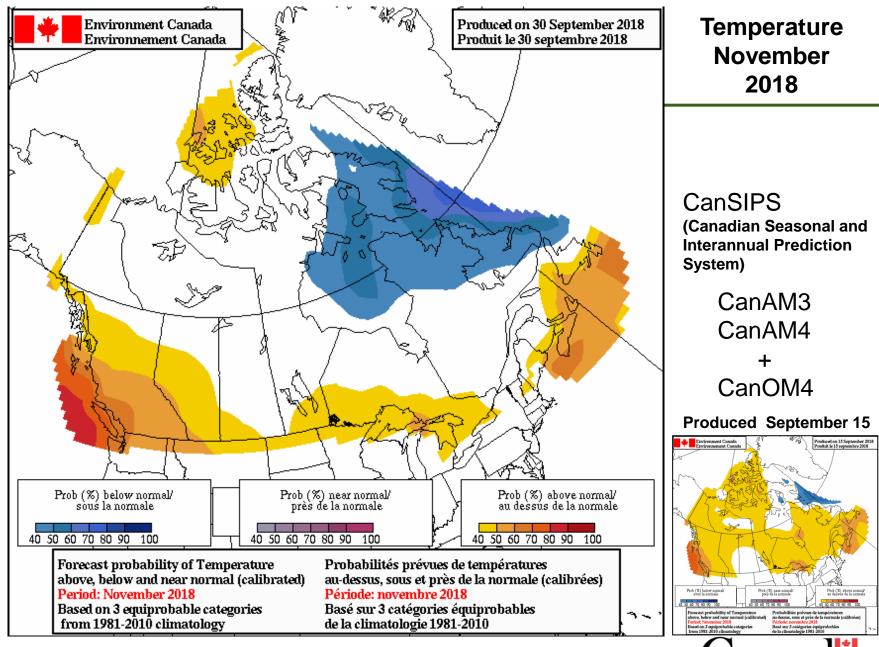
Weekly signature from GEPS 50km resolution

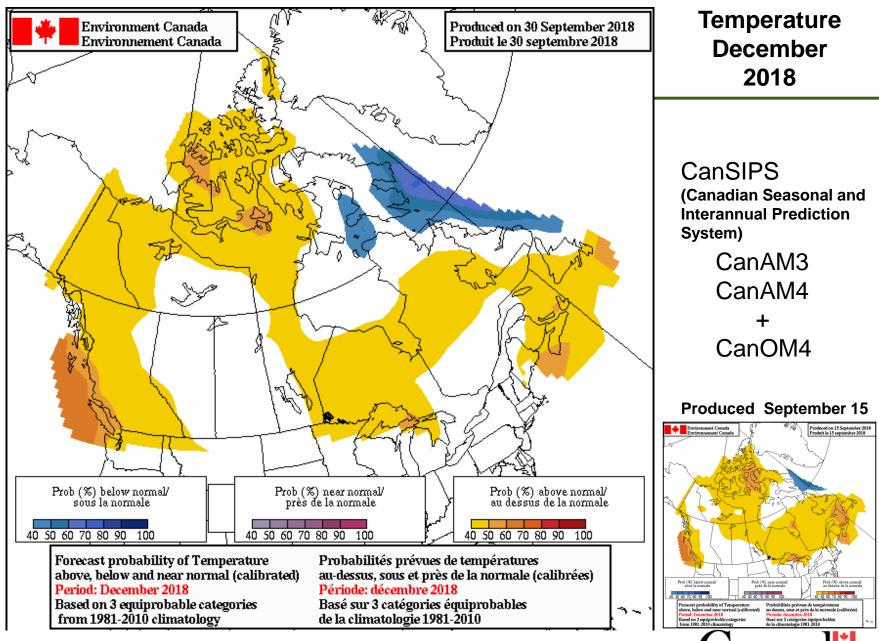


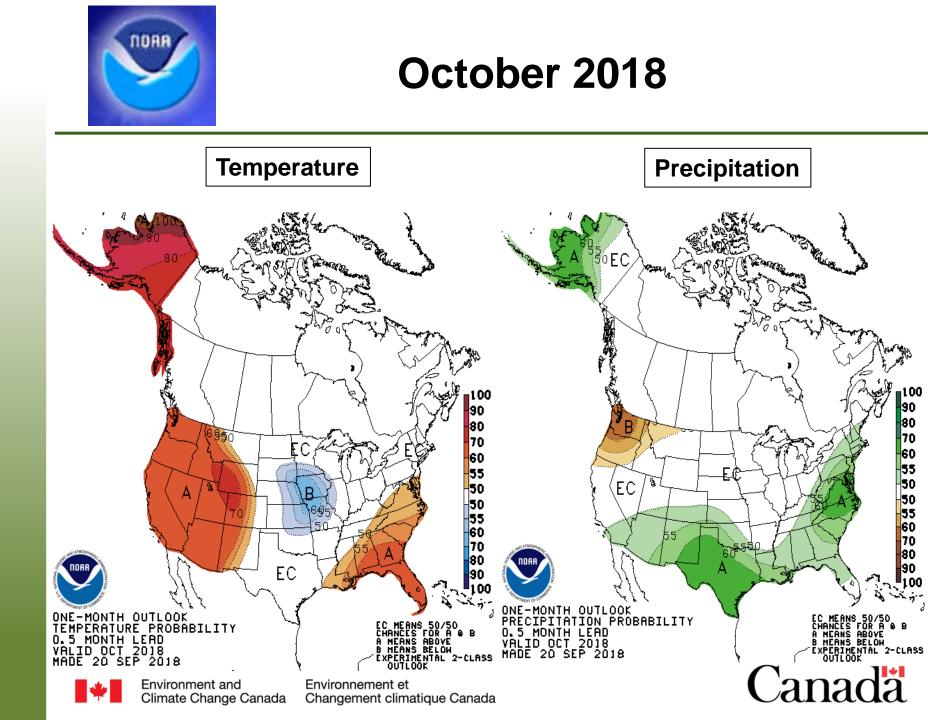
Generally, there is a weak signal of near or slightly above normal for the month With the exception of the second week where it is predicted to be above normal.











Contact

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