New Brunswick

February 2020 Review March 2020 and Winter/Spring Outlook

Jill Maepea Meteorological Service of Canada Environment and Climate Change Canada March 2, 2020





February 2020; Climate Summary

		Mean 1	emperat	ure (°C)	Total Precip (m		cip (mm)	
								Diff from
							Total as	Normal
	Station	Monthly	Normal	Diff from	Monthly	Normal	% of	as % of
Station Name	Туре	Mean	Mean	Normal	Total	Total	Normal	Normal
BAS CARAQUET	AU8	-8.1	-9.7	1.6	77.6	79.0	98	-2
BAS CARAQUET	DAILY				89.0	79.0	113	13
BATHURST A	NCA	-8.9	-9.4	0.5				
BOUCTOUCHE CDA CS	AU8	-7.1	-7.7	0.5	73.3	88.0	83	-17
CHARLO AUTO	AU8	-9.2	-10.9	1.7	39.2	66.9	≥ 59	-41
MIRAMICHI RCS	AU8	-8.5	-8.9	0.4				
DOAKTOWN AUTO RCS	AU8	-8.8	-8.9		81.6	77.3	106	6
EDMUNDSTON	AU8	-12.5	-11.3	-1.2	61.2	62.3	98	-2
FREDERICTON INTL A	NCA	-7.5	-7.9	0.3				
FREDERICTON CDA CS	AU8	-7.0	-7.5	0.4	67.0	70.1	96	-4
GAGETOWN AWOS A	AU5	-6.7	-6.6	-0.1	45.5	77.3	59	-41
GRAND MANAN SAR CS	AU8	-2.6						
KOUCHIBOUGUAC	AU8	-7.1	-8.6	1.5				
MECHANIC SETTLEMENT	AU8	-6.4			100.3			
MISCOU ISLAND (AUT)	AU8	-7.9						
MONCTON INTL A	NCH	-6.2	-7.6	1.3	87.0	90.9	96	-4
OAK POINT	DAILY	-5.0	-6.6	1.7	82.8	77.3	107	7
POINT LEPREAU CS	AU8	-2.4	-5.5	≥ 3.0	83.8	101.3	83	-17
RED PINES	AU8	-9.1	-9.9	0.8	74.0	59.6	124	24
SAINT JOHN A	NCH	-5.2	-7.1	1.8	66.7	91.0	73	-27
SUSSEX FOUR CORNERS	AU8	-6.0	-6.8	0.8	69.5	85.0	82	-18
WOODSTOCK	DAILY	-7.5	-9.5	1.9	76.6	71.6	107	7
WOODSTOCK NEWBRIDGE	AU8	-8.6	-9.5	0.9	66.0	71.6	92	-8
Average		-7.2	-8.4	1.0	73.0	78.0	92) -8
Max		-2.4	-5.5	3.0	100.3	101.3	124	24
Min		-12.5	-11.3	-1.2	39.2	59.6	59	-41

Highlights:

The average temperature anomaly was slightly above normal (+1.0C). Most sites reported positive anomalies. Edmundston was below normal mainly due to three record-setting minimums during the month.

Total precipitation amounts were slightly below normal, with an average of 92% of total precipitation. Charlo was the driest with 39 mm. However, snowfall was above normal for most of the province except near the Bay of Fundy.



February 2020; Climate Summary

Events:

February 6-8; Winter storm event. Precipitation varied (10-25 mm/cm) throughout the province with the north and central regions receiving mostly snow while the south had mixed precipitation. The Edmundston and St-Quentin areas reported the most snow with 45 cm. Strong northerly winds behind the system gusted to 96 km/h at Miscou Island.

February 27-28; Mostly snow event. Most of the province saw snow with freezing precipitation and rain over the extreme south. Central and northeast regions saw the most snow with 28 cm reported both in the Bathurst area and Doaktown area. Easterly winds also gusted to 89 km/h in Saint John.

Days with thunderstorm activity (lightning) in New Brunswick; none

Day of month with temperature record broken or tied in New Brunswick; 9 14 15 21 26 (red=maximum, blue=minimum)





February 2020; Provincial Climate Extremes

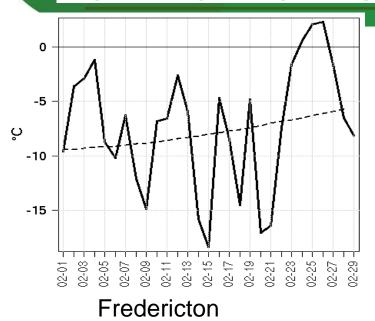
Parameter	Value	ECCC Station	Day of month
Daily Maximum Temperature	+10.0 °C	Gagetown	24
Daily Minimum Temperature	-38.8 °C	Edmundston	15
Maximum Daily Total Precipitation	29.2 mm	Point Lepreau	27
Daily Maximum Wind Gust	96 km/h	Miscou Island	7
Daily Minimum Wind Chill	-40	Edmundston	15

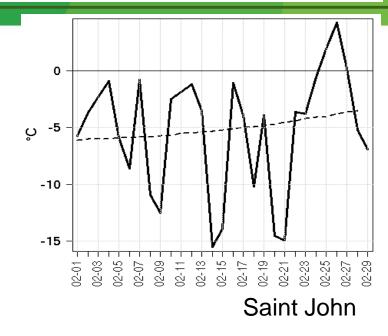




February 2020 - Temperature

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

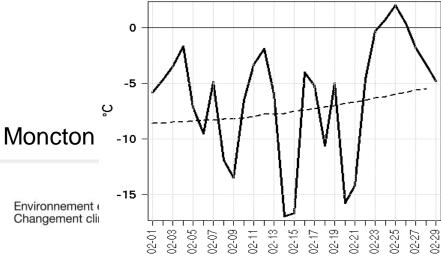




All sites were above normal

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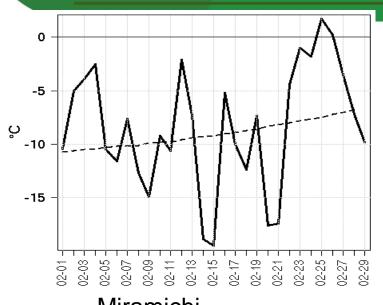
Climate Change Canada

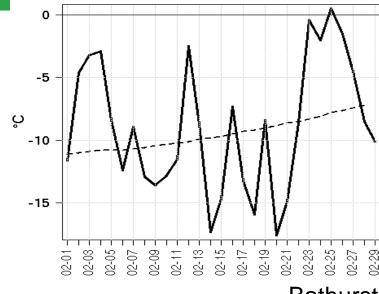




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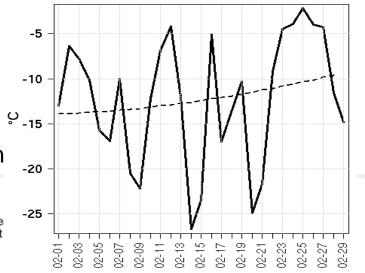
Miramichi

Bathurst

Miramichi and Bathurst were slightly above normal

Edmundston





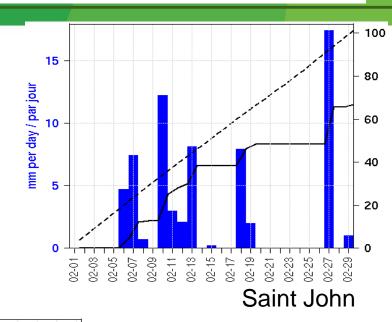
Edmundston was below normal

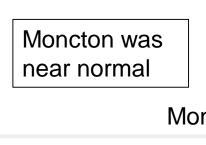


February 2020 - Precipitation

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

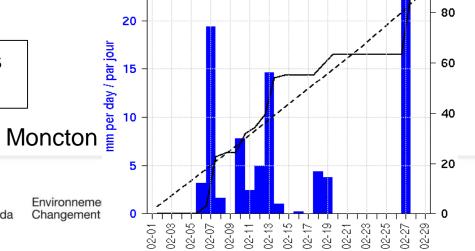
Data unavailable
Fredericton (and area)





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Saint John was below normal

Canadä

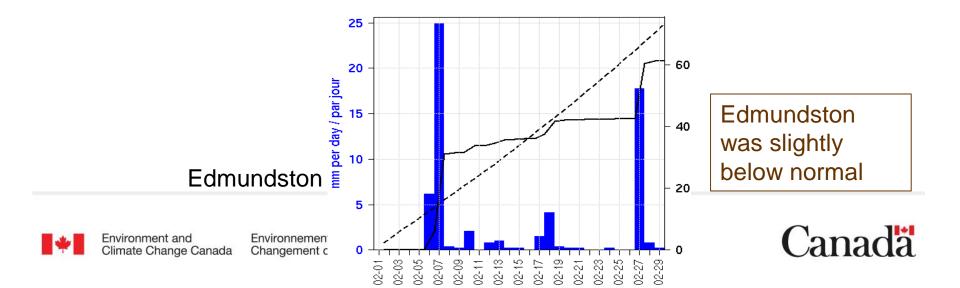
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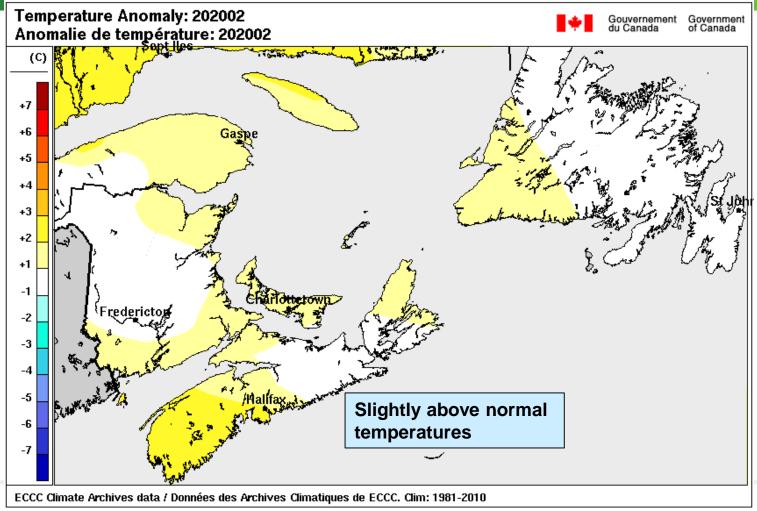
Data unavailable

Miramichi

Data unavailable
Bathurst



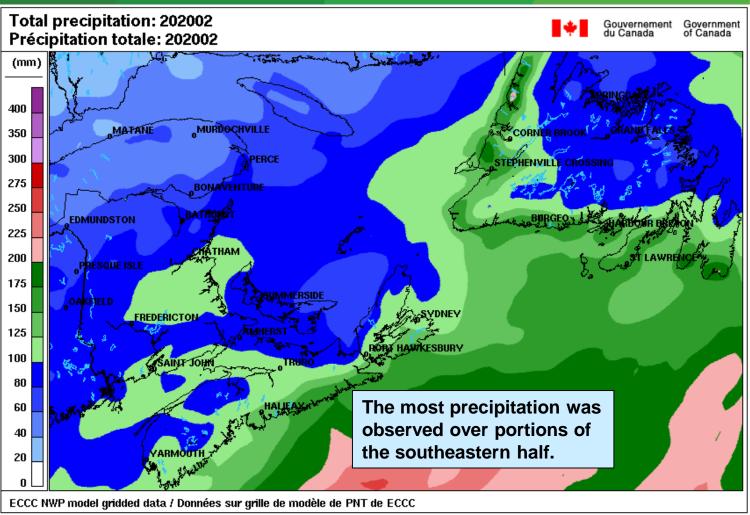
February 2020 – Temperature departure from 1981-2010 mean







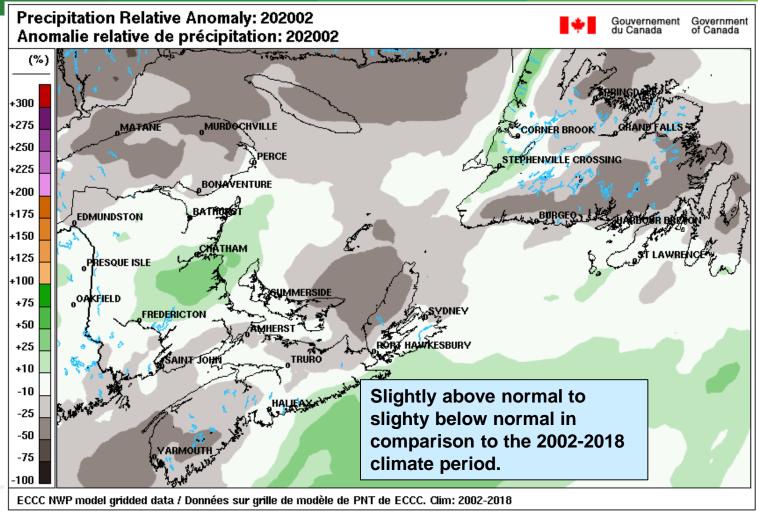
February 2020 – Total precipitation







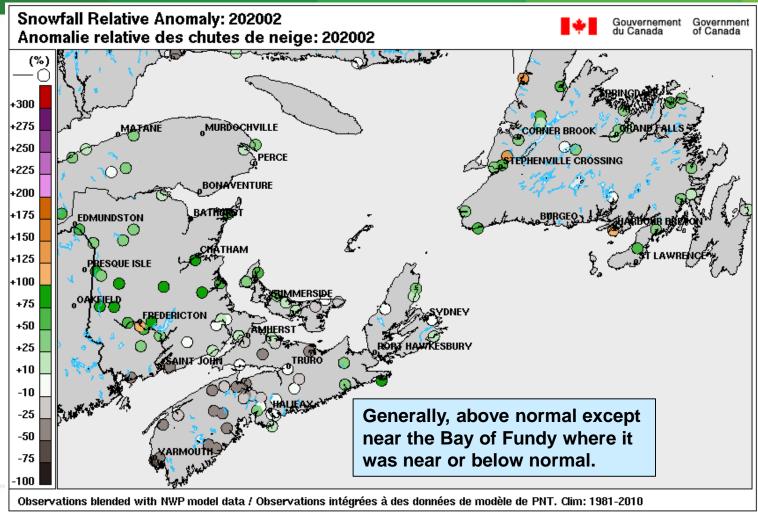
February 2020 – Precipitation departure from 2002-2018 mean







February 2020 – Snowfall departure from 1981-2010 mean

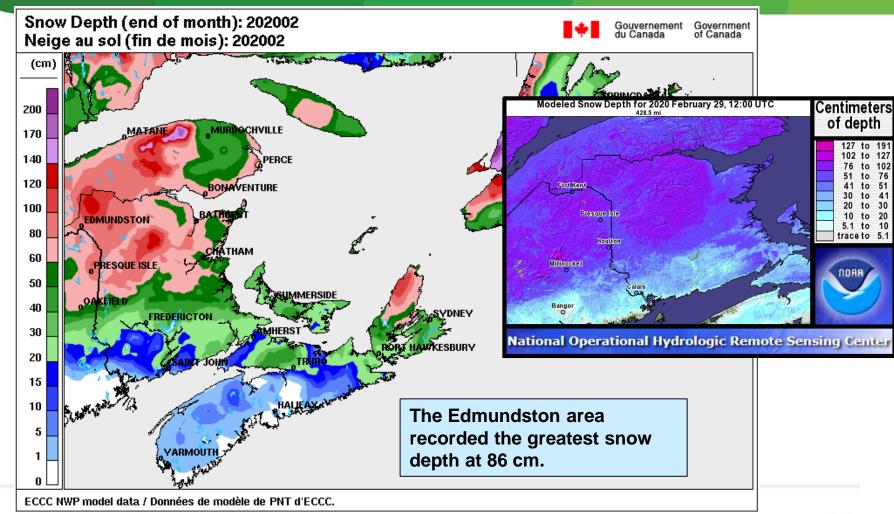






February 2020 – Snow depth at month end

Extracted from Canadian computer model

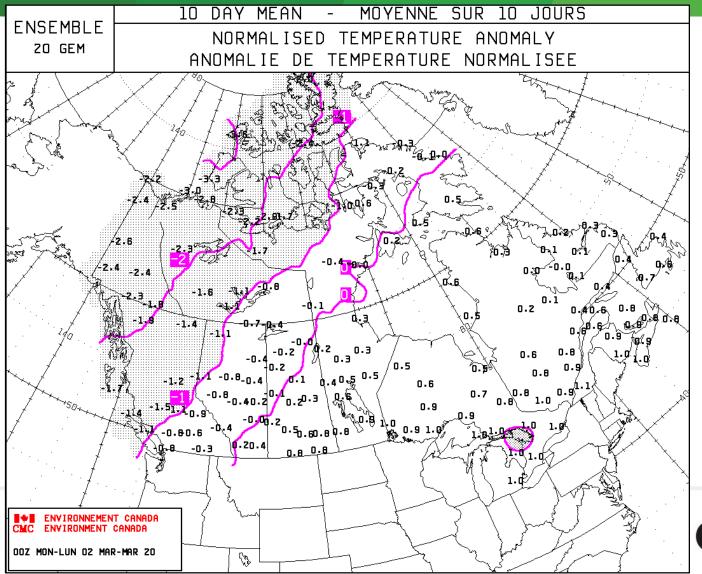






Outlook – 10 day mean temperature

(Suggesting slightly above normal conditions (+0.5 to +1.0°C))



10 day forecast ending March 12, 2020

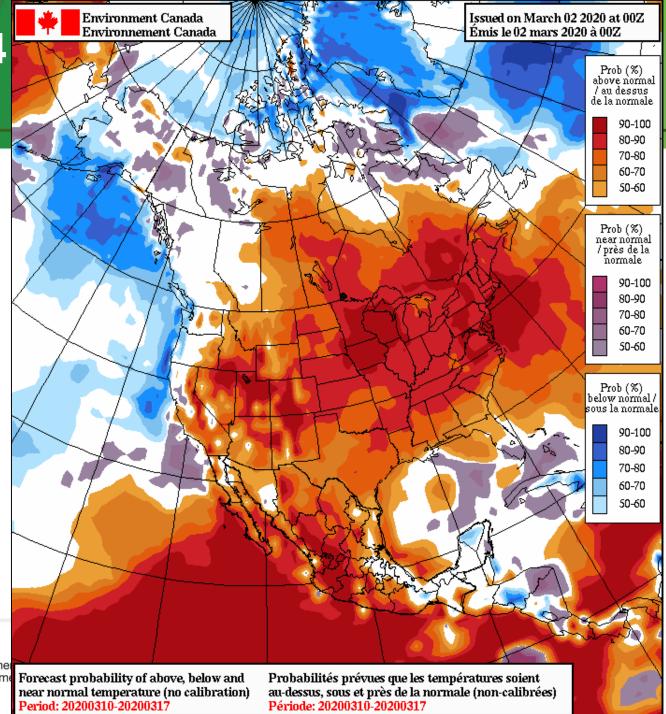




Day 8 to 14 Forecast

Period ending March 17, 2020

Moderate to strong signal of above normal.







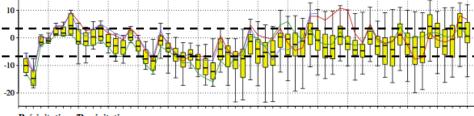
Fredericton

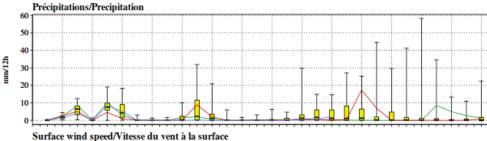
Ensemble and Deterministic Forecasts issued 2 March 2020 00 UTC Prévision d'ensemble et déterministe émises le 2 Mars 2020 00 UTC

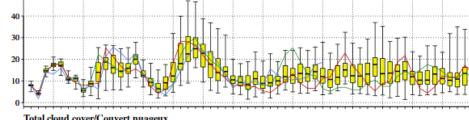
NAEFS / SPENA

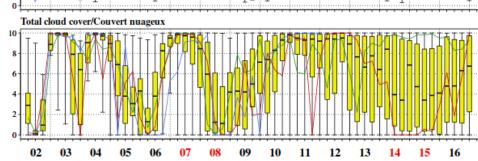
FREDERICTON (YFC) 45.87 N 66.53 W/O











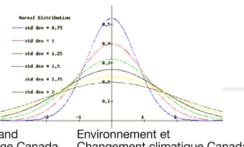
March/Mars 2020



Normal high: +3.0C -Normal low: -7.8C



Below normal for today, then above normal for the next three days, then a lot of variability (no trend) for the rest of the period.

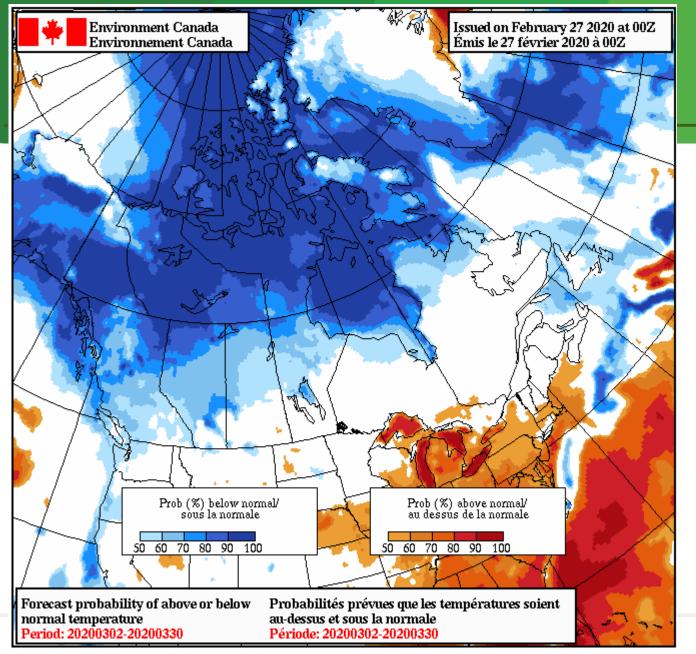


March



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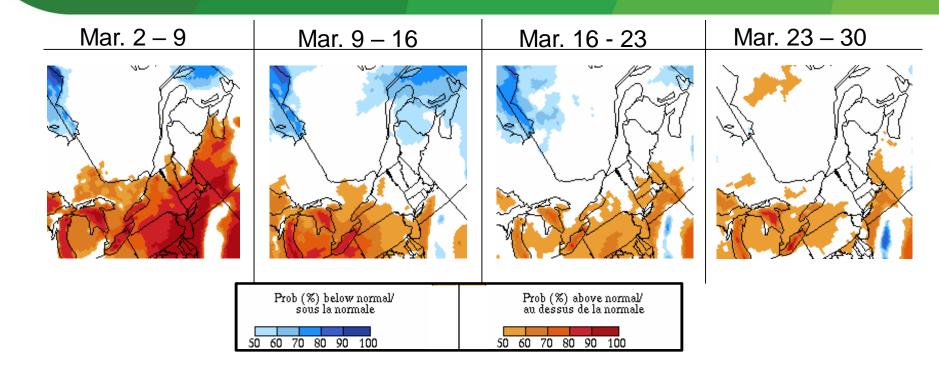


Temperature
March 2
to
March 30

CMC Monthly Forecast Product using GEPS 50km res.



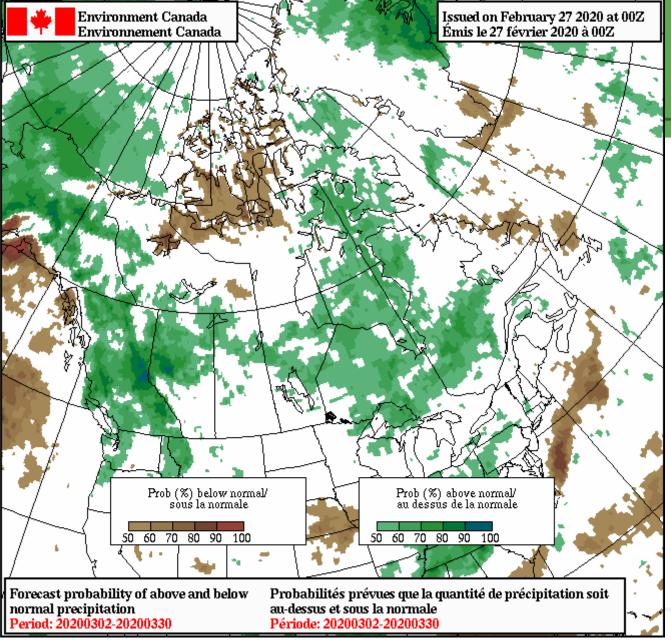
Weekly signature from GEPS 50km resolution



Generally, there is no conclusive signal for the period with the exception of a weak signal of below normal for the second week.







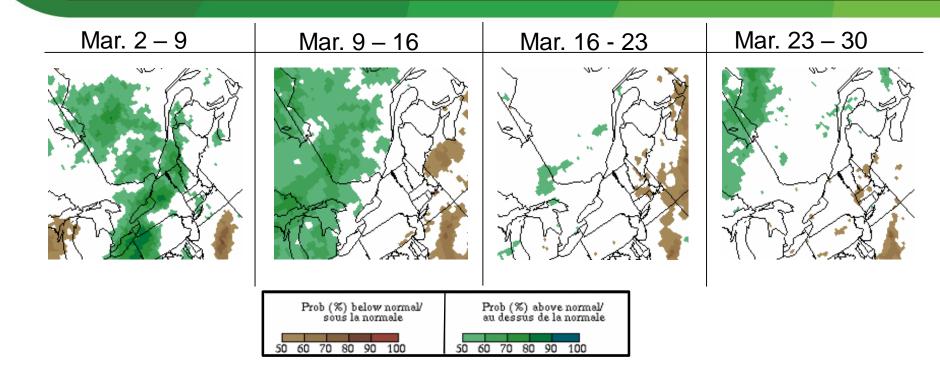
Precipitation
March 2
to
March 30

CMC Monthly Forecast Product using GEPS 50km res.





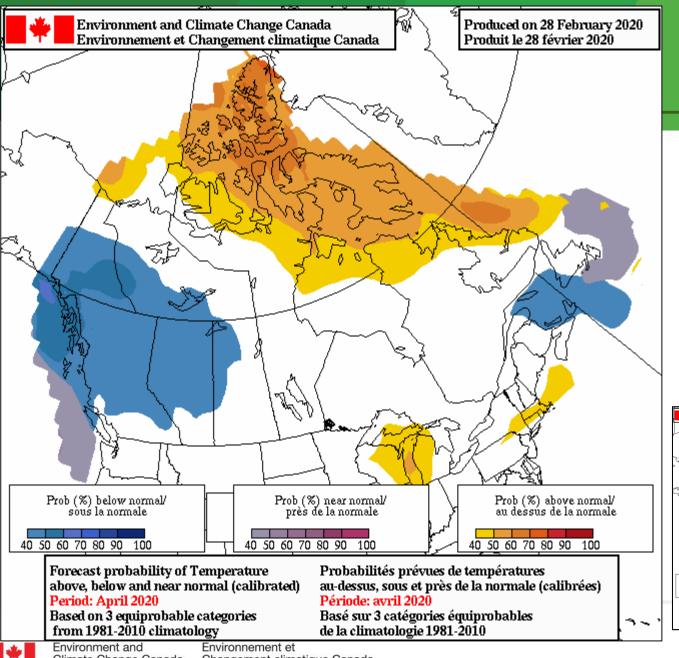
Weekly signature from GEPS 50km resolution



No real conclusive signal (near normal) for the period.



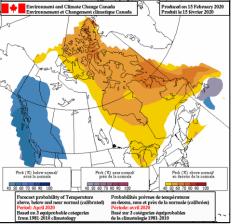




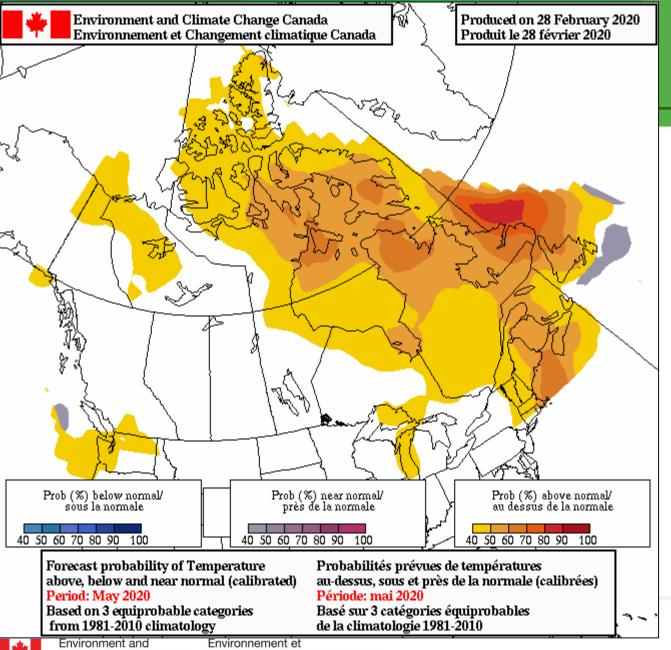
Temperature April 2020

CanSIPS (Canadian Seasonal and Interannual Prediction System) CanAM3 CanAM4 CanOM4

Produced February 15



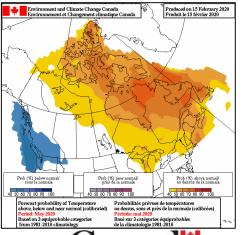


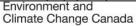


Temperature May 2020

CanSIPS
(Canadian Seasonal and Interannual Prediction System)
CanAM3
CanAM4
+
CanOM4

Produced February 15





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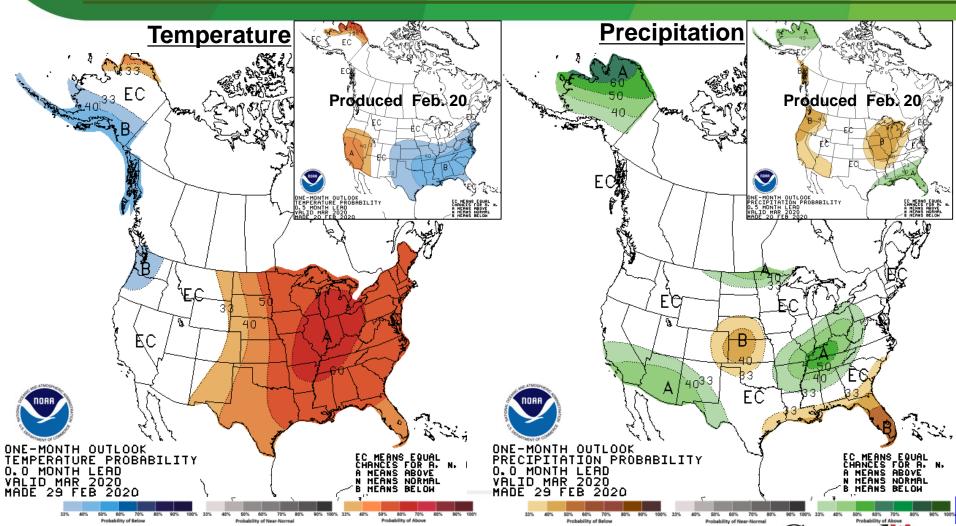
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March 2020



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Environment and Climate Change Canada Weather Pages

www.weather.gc.ca

