New Brunswick

April 2021 Review May and Summer Outlook

Jill Maepea Meteorological Service of Canada Environment and Climate Change Canada May 3, 2021





April 2021; Climate Summary

				Mean T	emperati	ure (°C)	Total	Precipitat	tion(mm)
			Station	Monthly	Normal	from	Monthly	Normal	Total as %
Station Name	Prov	TC ID	Type	Mean	Mean	Normal	Total	Total	of Normal
BAS CARAQUET	NB	WXS	AU8	3.6	1.9	1.7			
BAS CARAQUET	NB		DAILY				120.6	82.6	146
BATHURST A	NB	ZBF	NCA	4.4	3.2	1.3			
BOUCTOUCHE CDA CS	NB	ABT	AU8	4.0	3.0	1.0			
CHARLO AUTO	NB	ZCR	AU8	4.3	1.9	2.4	126.6	71.7	→ ₁₇₇
MIRAMICHI RCS	NB	ACQ	AU8	4.7	3.2	1.5			
DOAKTOWN AUTO RCS	NB	ADN	AU8	5.1	3.7	1.4			
EDMUNDSTON	NB	ERM	AU8	4.1					
FREDERICTON INTL A	NB	YFC	NCA	6.1	4.5	1.5			
FREDERICTON CDA CS	NB	AFC	AU8	6.5	4.8	1.7			
FUNDY PARK (ALMA) CS	NB	AFY	AU8	5.9	4.1	1.8			
GAGETOWN AWOS A	NB	YCX	AU5	5.9	4.8	1.1			
KOUCHIBOUGUAC	NB	AKC	AU8	3.6	3.3	0.4	156.4	106.9	146
MISCOU ISLAND (AUT)	NB	WMI	AU8	2.9					_
MONCTON INTL A	NB	YQM	NCH	4.5	3.5	0.9	78.4	97.6	≥ 80
OAK POINT	NB		DAILY	6.0	4.8	1.2	127.7	89.4	143
POINT LEPREAU CS	NB	WPE	AU8	5.9	4.0	1.8			
RED PINES	NB	ARP	AU8	4.1	2.8	1.3			
SAINT JOHN A	NB	YSJ	NCH	5.4	3.7	1.8	129.7	105.3	123
ST. STEPHEN	NB	WSS	AU8	6.9					
SUSSEX FOUR CORNERS	NB	ASF	AU8	5.8	4.8	1.1			
WOODSTOCK		ELL/D	A110		2.7	4.0			
NEWBRIDGE	NB	EWD	AU8	5.6	3.7	1.9			
Average				5.0	3.6	1.4	123.2	92.2	136
Max				6.9	4.8	2.4	156.4	106.9	177
Min				2.9	1.9	0.4	78.4	71.7	80

Highlights:

The average temperature anomaly was above normal (+1.4°C). All sites reported positive anomalies with Charlo reporting the largest anomaly at +2.4°C. This was the 6th consecutive month of above normal.

Total precipitation amounts were above normal, with an average of 136% of total precipitation. Charlo also reported the largest anomaly at 177% of normal. Snowfall was much below normal and rainfall was above normal for most sites.



April 2021; Climate Summary

Events:

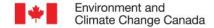
April 1-2: "Rain Event". Rain fell across most areas of the province except in the extreme northwest where mixed precipitation fell. The Barnesville area reported the most rain at 64 mm while the Edmundston region saw up to 11 cm of wet snow. This event also caused the Saint John River to reach its peak at Fredericton on April 2nd making this the second earliest date on record.

April 4-5: "Mixed Precipitation Event". A slow-moving trough crossed the province from east to west with snow changing to rain. The Grand Falls area recorded 11 cm of snow and the Miramichi region reported 35 mm of total precipitation.

April 21-23: "Spring Snow Event". The higher elevations surrounding the Edmundston area recorded up to 40 cm of snow and snow was confined to mainly the northwest of the province.

Days of month with lightning in New Brunswick; 21 22 (2 days)

Day of month with temperature record broken or tied in New Brunswick; 7-9 24 24 (red=maximum, blue=minimum)





April 2021; Provincial Climate Extremes

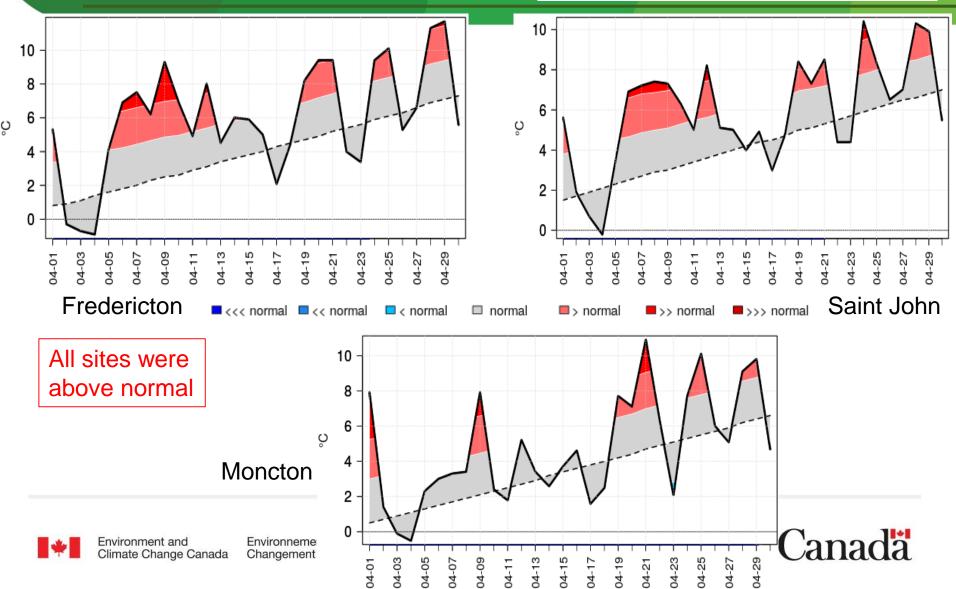
Parameter	Value	ECCC Station	Day of month
Daily Maximum Temperature	22.1°C	Fredericton Int'l Airport	29
Daily Minimum Temperature	-14.6°C	Edmundston	3
Maximum Daily Total Precipitation	50.5 mm	Saint John	1
Daily Maximum Wind Gust	74 km/h	Saint John	12
Daily Maximum Wind Chill	-18	Edmundston	3





April 2021 - Temperature

Daily Mean Temperature (line), Long-Term Mean (dashed line) Based on gridded observations / Climatology 1981-2010 and Categories based on Standard Deviations (blue and red) Std. dev. thresholds +/- 0.7, 1.3, 2.1

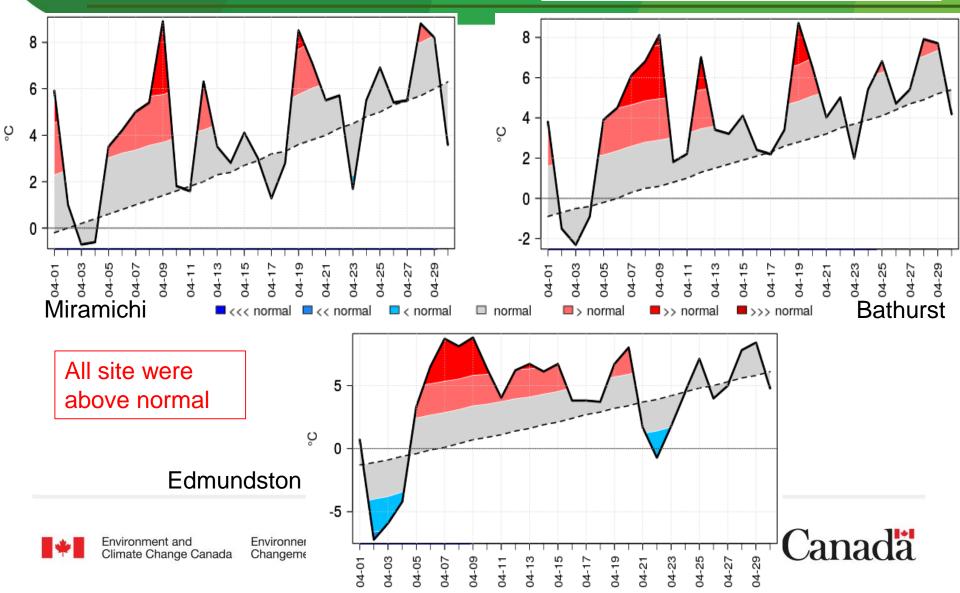


April 2021 - Temperature

Daily Mean Temperature (line), Long-Term Mean (dashed line)
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Based on gridded observations / Climatology 1981-2010

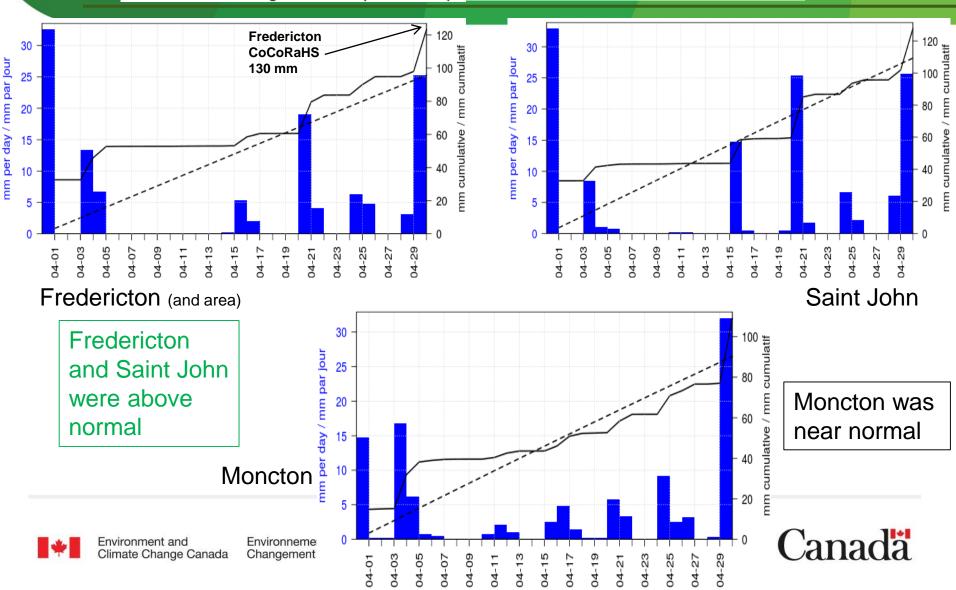
Std. dev. thresholds +/- 0.7, 1.3, 2.1



April 2021 - Precipitation

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line)

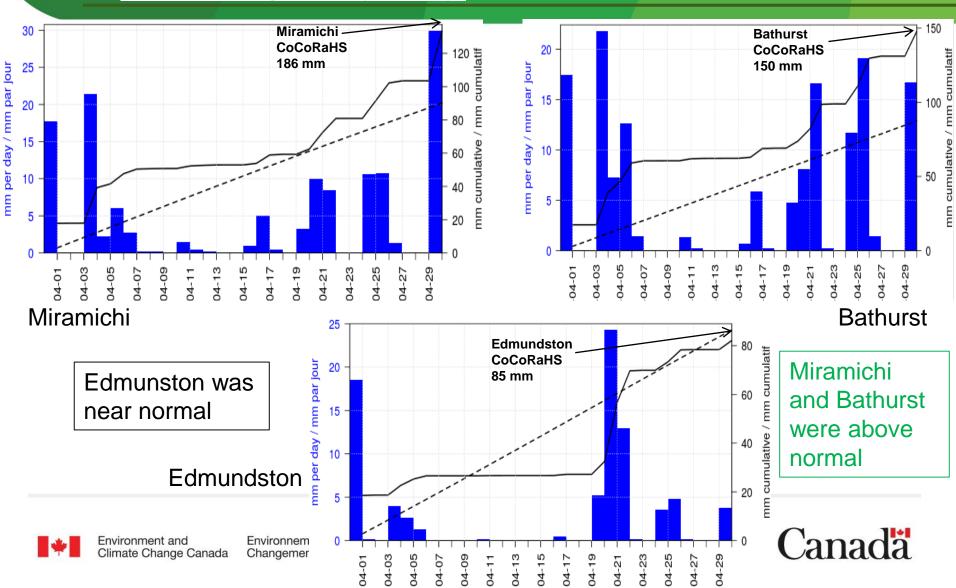
Based on ECCC gridded precipitation analysis Climatology 2002-2020



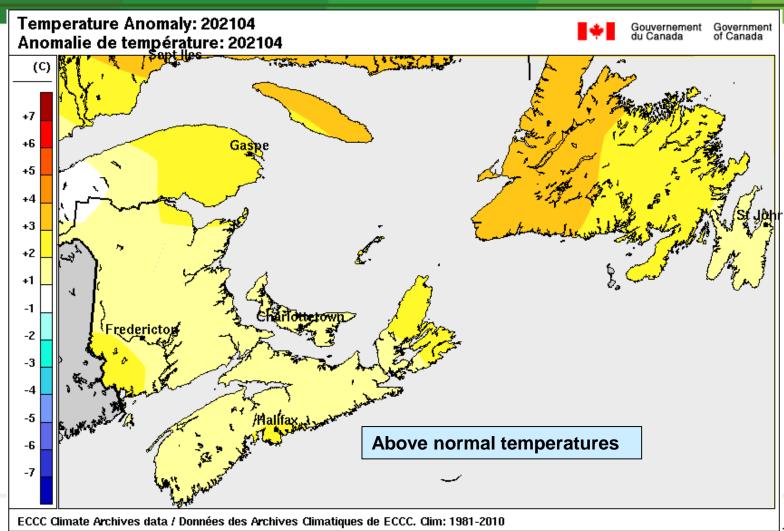
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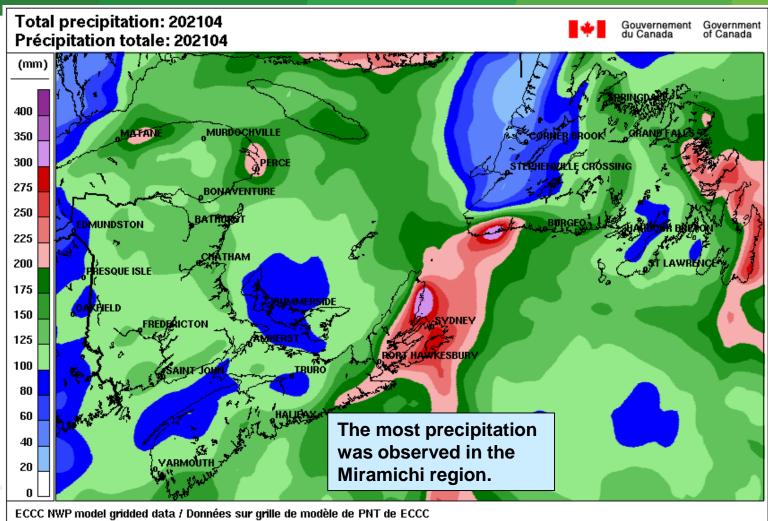
April 2021 – Temperature departure from 1981-2010 mean







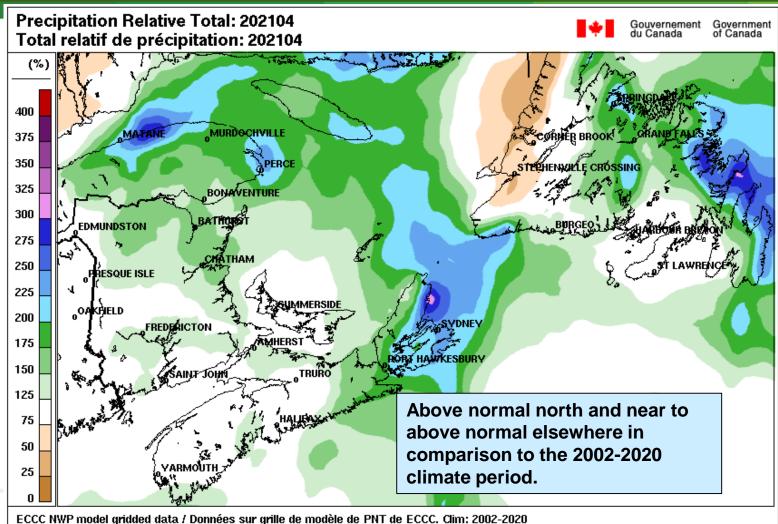
April 2021 – Total precipitation







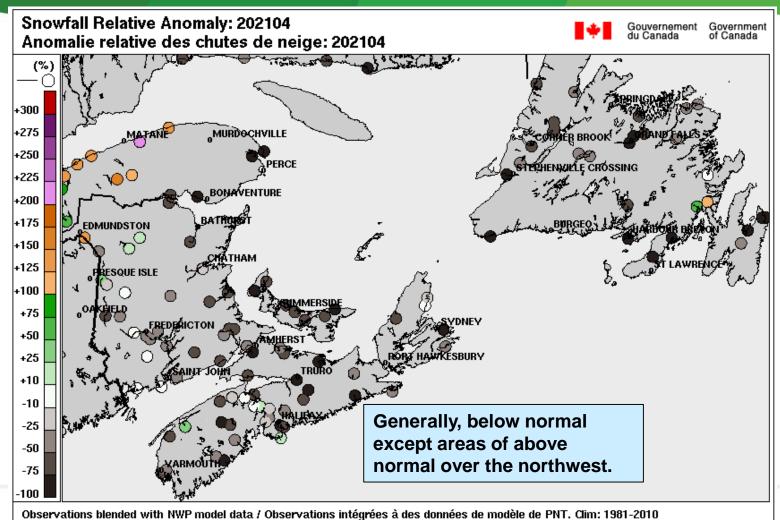
April 2021 – Precipitation departure from 2002-2020 mean







April 2021 – Snowfall departure from 1981-2010 mean

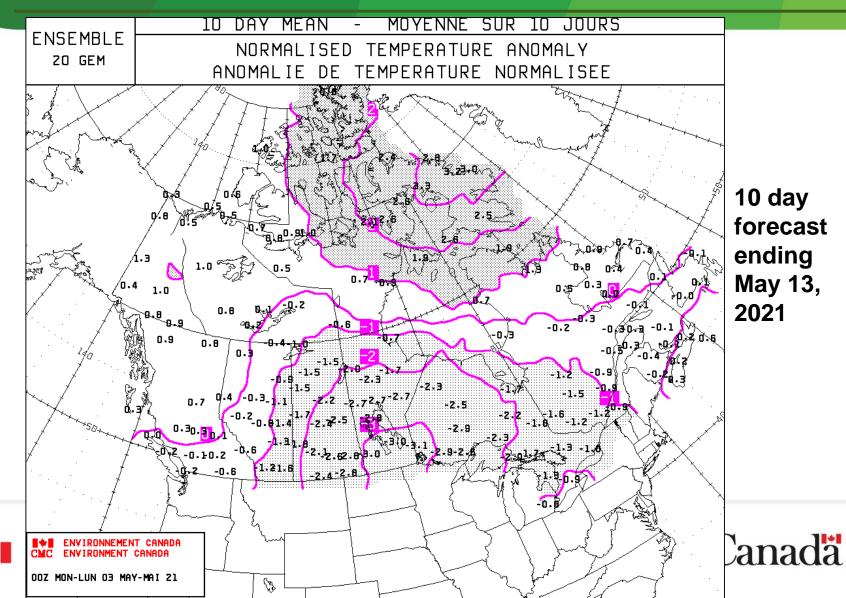






Outlook – 10 day mean temperature

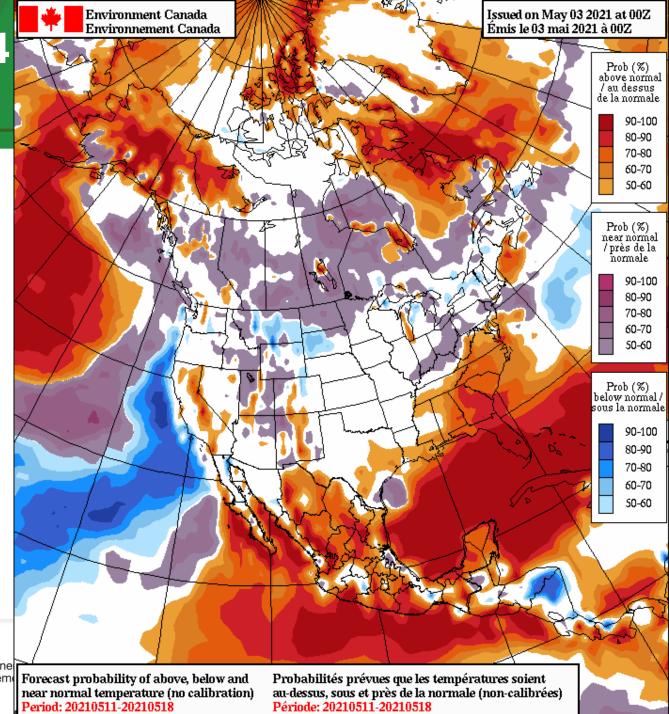
(Suggesting below normal conditions (0.0 to -0.5°C))



Day 8 to 14 Forecast

Period ending May 18, 2021

Suggesting a signal of near normal conditions.





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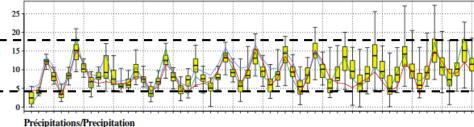


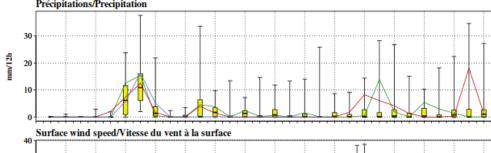
Ensemble and Deterministic Forecasts issued 3 May 2021 00 UTC Prévision d'ensemble et déterministe émises le 3 Mai 2021 00 UTC

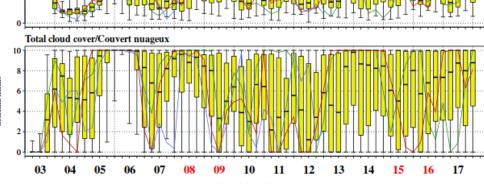
NAEFS / SPENA

FREDERICTON (YFC) 45.87 N 66.53 W/O











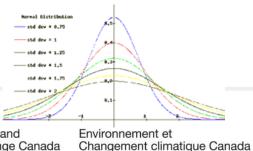
Normal low: +4.6C

Normal high: 17.6C

Next 15 days; ending May 17, 2021

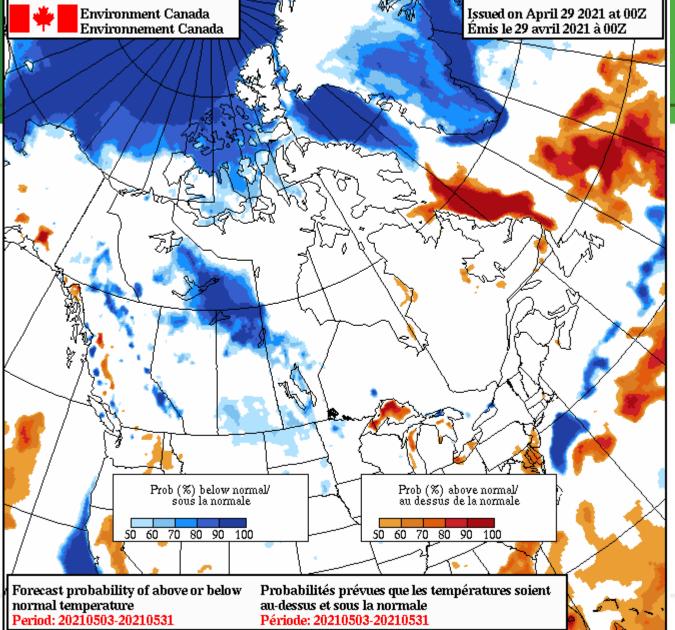
May

Generally suggesting below normal maximum temperatures and near normal minimum temperatures for the period.





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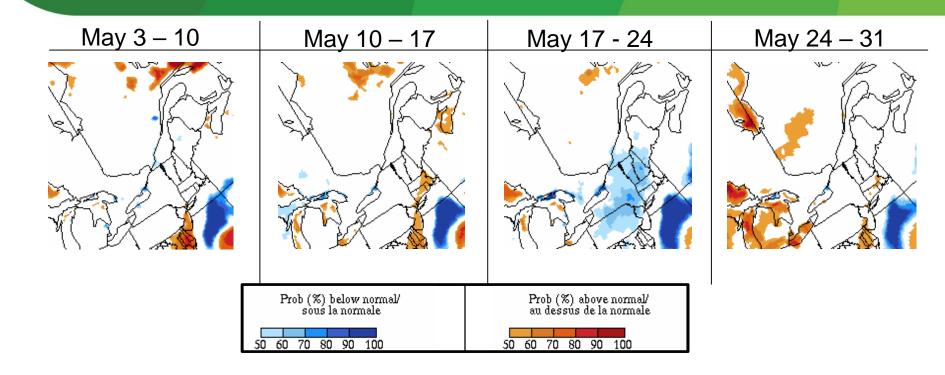


Temperature
May 3
to
May 31

CMC Monthly Forecast Product using GEPS 50km res.



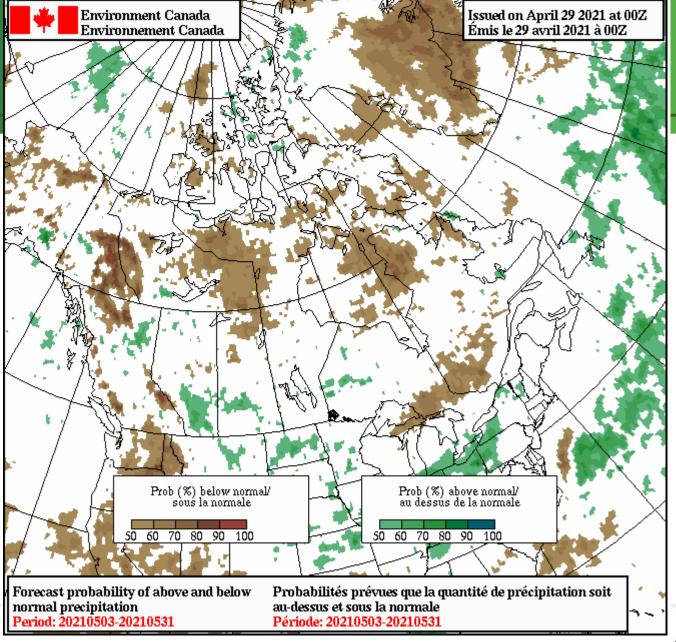
Weekly signature from GEPS 50km resolution



No conclusive signal (near normal) for the period.





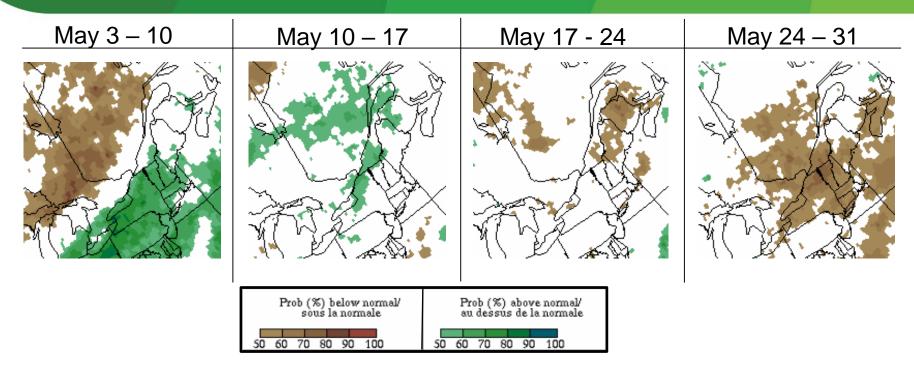


Precipitation
May 3
to
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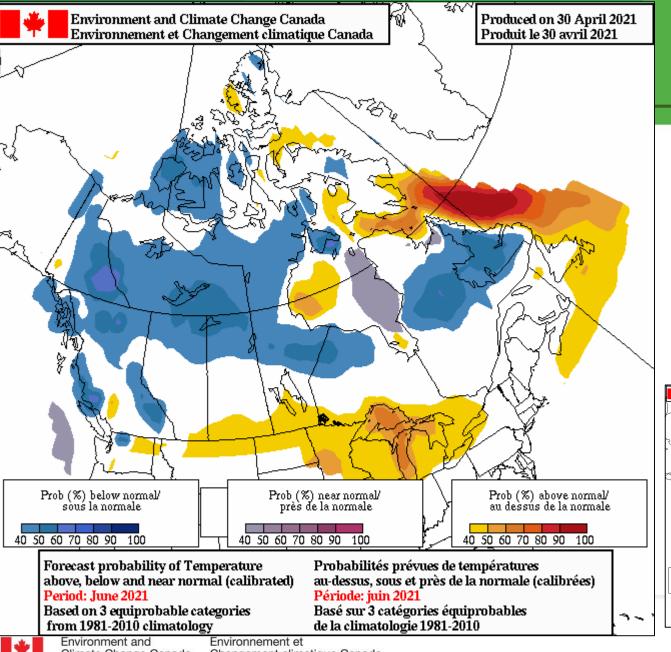
Weekly signature from GEPS 50km resolution



Possible subtle indications of above normal for the first two weeks and then shifting to possibly below normal for the last two weeks in some parts of the province.



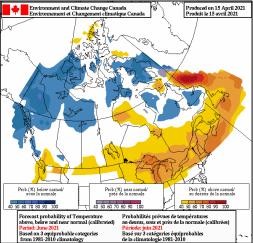




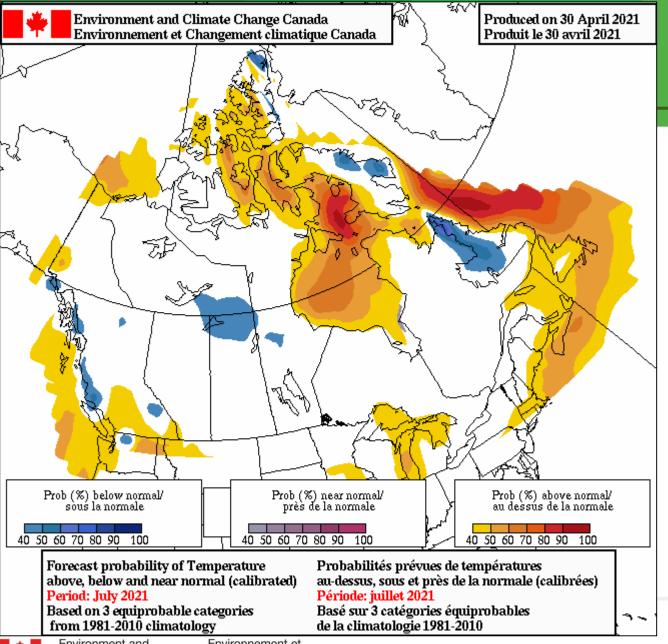
Temperature June 2021

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

Produced April 15



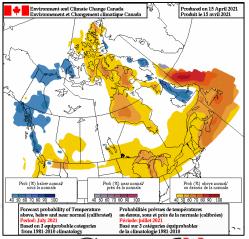




Temperature July 2021

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

Produced April 15





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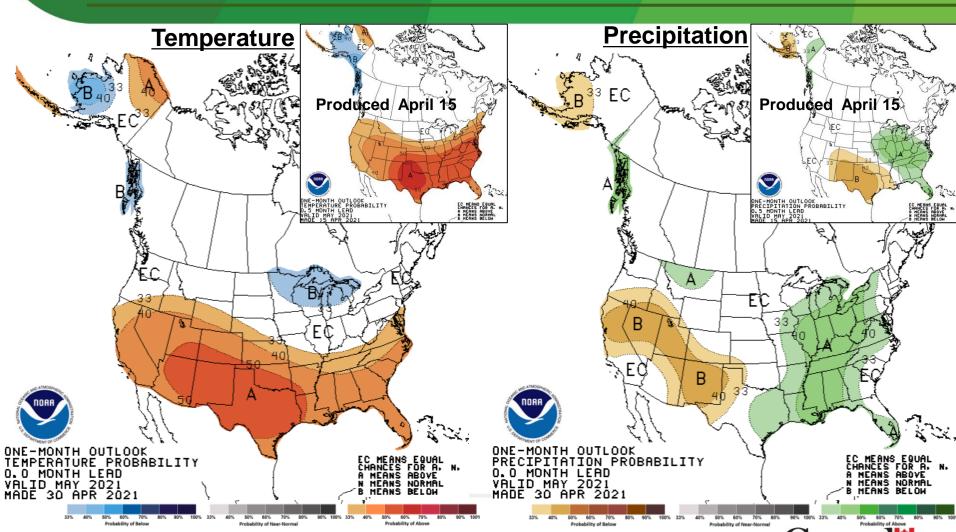
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May 2021



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www.weather.gc.ca

