

New Brunswick

May 2021 Review June and Summer Outlook

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Environment and Climate Change Canada
June 1, 2021



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Climate Change Canada

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Changement climatique Canada

Canada

May 2021; Climate Summary

Station Name / Nom de la station	TC ID / ID de TC	Type / Type de station	Mean Temperature / Température moyenne (°C)			Total Precipitation / Précipitations totales (mm)		
			Monthly Mean / Moyenne mensuelle	Normal Mean / Moyenne Normale	Diff from Normal / Écart avec la normale	Monthly Total / Total mensuel	Normal Total / Total normal	Normal / Total en % de la normale
BAS CARAQUET*	WXS	AU8	9.3	8.8	0.5	61.8	85.6	72
BAS CARAQUET		DAILY				69.2	85.6	81
BATHURST A	ZBF	NCA	9.7	9.7	0.0	86.6		
BOUCTOUCHE CDA CS*	ABT	AU8	9.5	9.8	-0.3	89.0	100.5	89
CHARLO AUTO*	ZCR	AU8	9.5	9.0	0.5	51.4	84.8	61
*MIRAMICHI RCS	ACQ	AU8	10.0	10.0	0.0	97.2	99.5	98
DOAKTOWN AUTO RCS*	ADN	AU8	10.1	10.6	-0.5	108.6	113.2	96
EDMUNDSTON*	ERM	AU8	9.0			62.4	90.4	69
FREDERICTON INTL A	YFC	NCA	11.0	11.1	-0.1			
FREDERICTON CDA CS*	AFC	AU8	11.2	11.3	-0.1	70.2	103.8	68
FUNDY PARK (ALMA) CS	AFY	AU8	9.4	9.5	-0.1			
GAGETOWN AWOS A	YCX	AU5	10.9	11.3	-0.4			
KOUCHIBOUGUAC	AKC	AU8	8.9	9.8	-0.9	100.6	112.2	90
MISCOU ISLAND (AUT)*	WMI	AU8	8.2			66.4		
MONCTON INTL A	YQM	NCH	9.7	10.0	-0.3	113.5	96.9	117
OAK POINT		DAILY	10.3	11.3	-1.0	96.6	105.8	91
POINT LEPREAU CS	WPE	AU8	9.3	8.7	0.6			
RED PINES*	ARP	AU8	8.9	9.8	-0.9	95.6	96.0	100
SAINT JOHN A	YSJ	NCH	9.6	9.5	0.2	71.9	109.8	65
ST. STEPHEN*	WSS	AU8	11.0			57.8		
SUSSEX FOUR CORNERS*	ASF	AU8	10.4	11.1	-0.7	77.4	103.0	75
WOODSTOCK NEWBRIDGE*	EWD	AU8	10.4	10.9	-0.5	128.6	94.2	137
Average			9.8	10.1	-0.2	83.6	98.7	87
Max			11.2	11.3	0.6	128.6	113.2	137
Min			8.2	8.7	-1.0	51.4	84.8	61
* total precip estimated from TBRG								

Highlights:

The average temperature anomaly was near normal (-0.2°C). Almost all sites reported near normal anomalies and were within +/-1.0°C. The temperature was much more variable in the second half of the month.

Total precipitation amounts were below normal, with an average of **87%** of total precipitation. Charlo also reported the driest conditions with an anomaly of 61% of normal. Most of the precipitation fell during two events at the beginning and at the end of the month.

May 2021; Climate Summary

Events:

May 5-6: “Precipitation Event”. A marginal precipitation event brought mainly rain to most areas of the province (15-30 mm) and some wet snow to higher terrain in northern areas. The Miramichi region reported the most rain at 38 mm while the Doyleville area reported 3 cm of wet snow in addition to rainfall.

May 20: First day of 2021 to reach 25°C or warmer

May 21: First day of 2021 to reach 30°C or warmer

May 31-Jun. 1: “Rain Event”. Widespread, intermittent rain brought some much needed moisture to the province. Most areas saw 15-35 mm with the Sisson Brook area reporting the greatest amount at 50 mm.

Days of month with lightning in New Brunswick; 11-13 16-18 21-22 26 31 (10 days)

**Day of month with temperature record broken or tied in New Brunswick; 26 28-30
(red=maximum, blue=minimum)**



May 2021; Provincial Climate Extremes

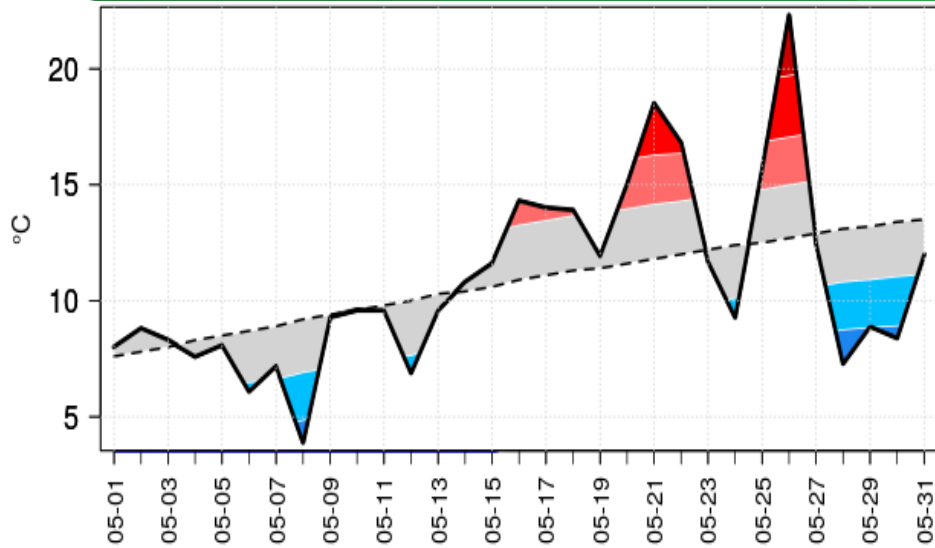
Parameter	Value	ECCC Station	Day of month
Daily Maximum Temperature	31.8°C	St. Stephen Fredericton Int'l Airport	26
Daily Minimum Temperature	-5.5°C	Edmundston	4
Maximum Daily Total Precipitation*	29.4 mm	Bathurst	6
Daily Maximum Wind Gust	84 km/h	Bathurst	25
Daily Maximum Humidex	38	St. Stephen	26

*this precipitation value is likely higher, but due to ongoing network issues with precipitation data, this is the largest value amongst the few reporting stations

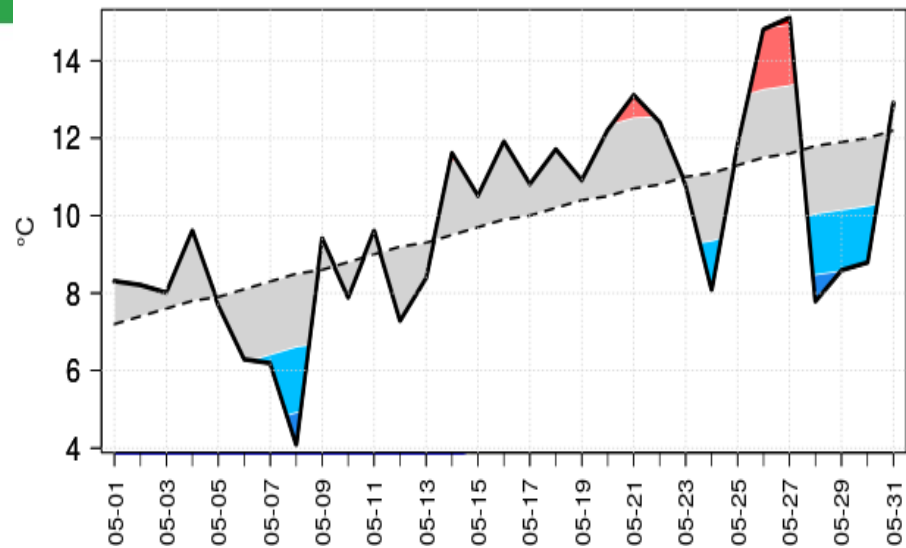


May 2021 - Temperature

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



Fredericton

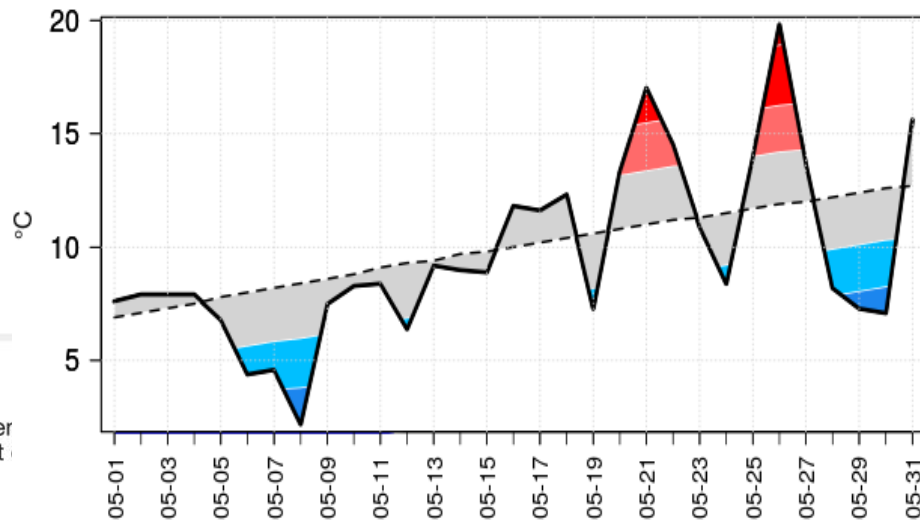


Saint John

■ <<< normal
 ■ << normal
 ■ < normal
 ■ normal
 ■ > normal
 ■ >> normal
 ■ >>> normal

All sites were near normal

Moncton



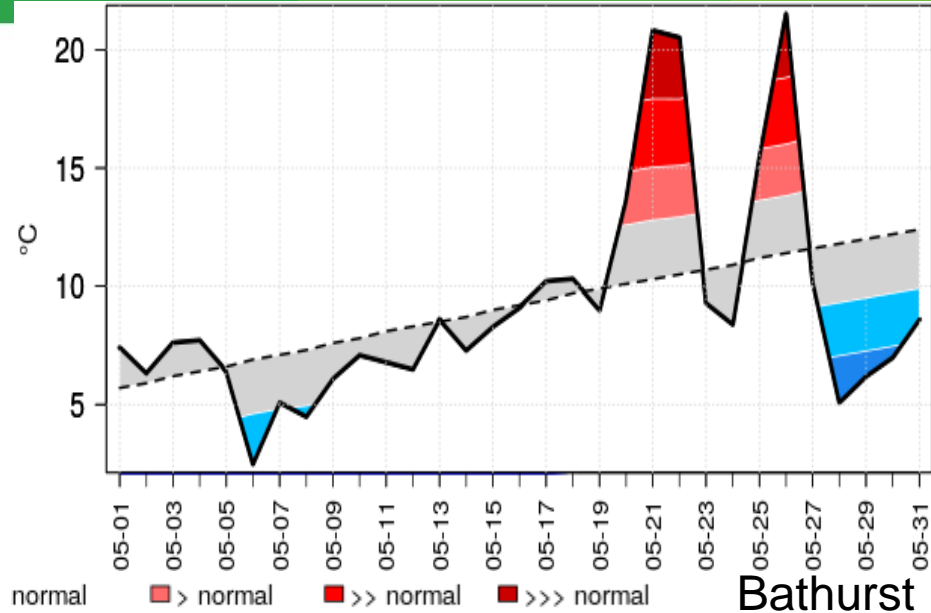
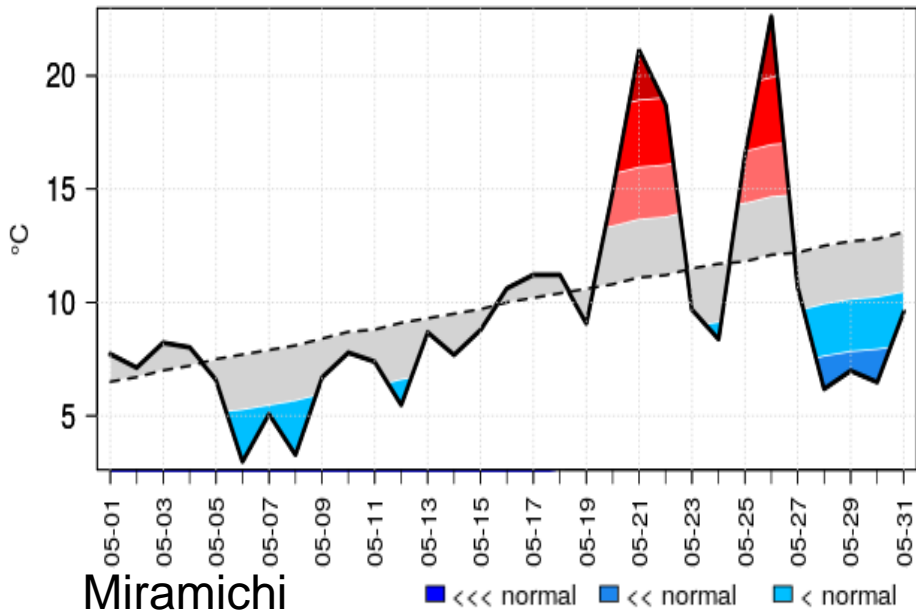
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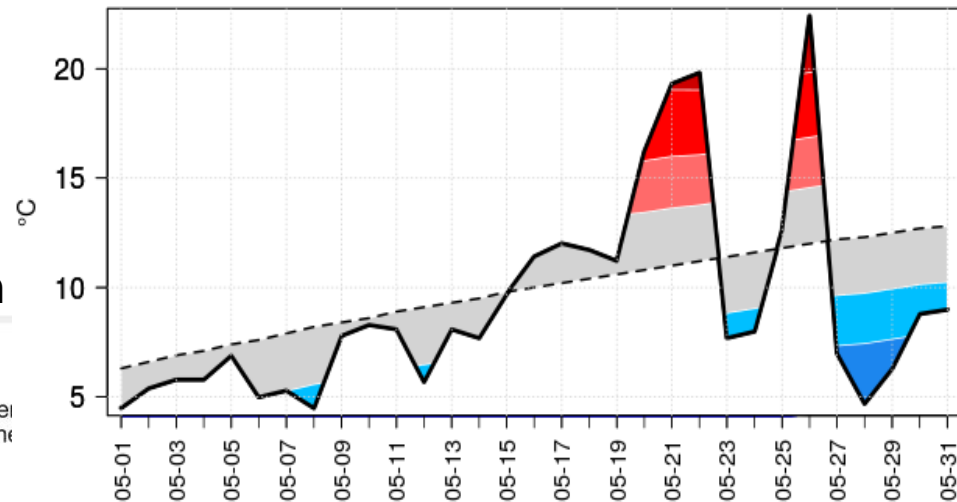
May 2021 - Temperature

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



All site were near normal

Edmundston



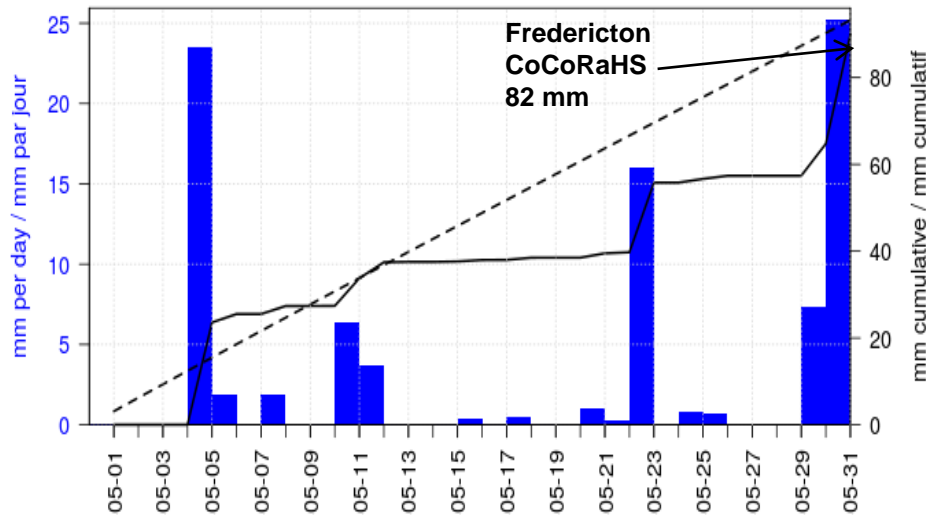
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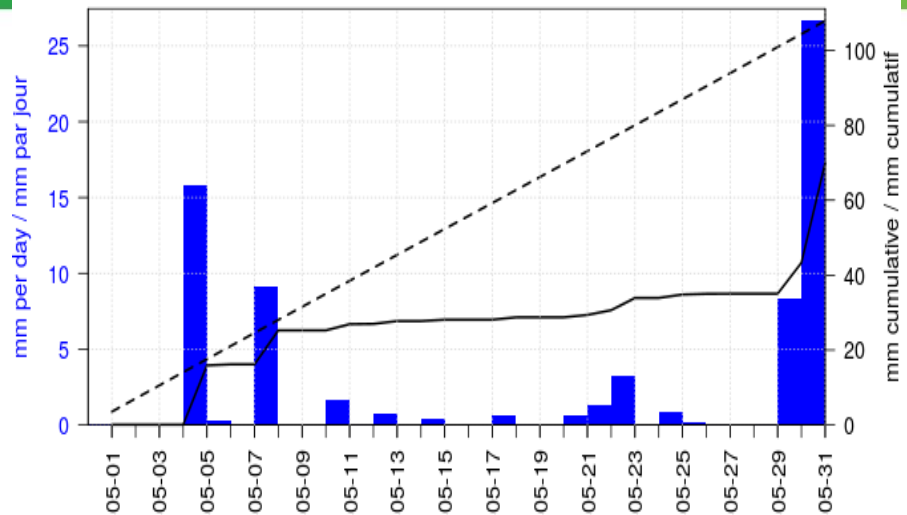
May 2021 - Precipitation

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Based on ECCC gridded precipitation analysis Climatology 2002-2020



Fredericton (and area)

Fredericton was near normal

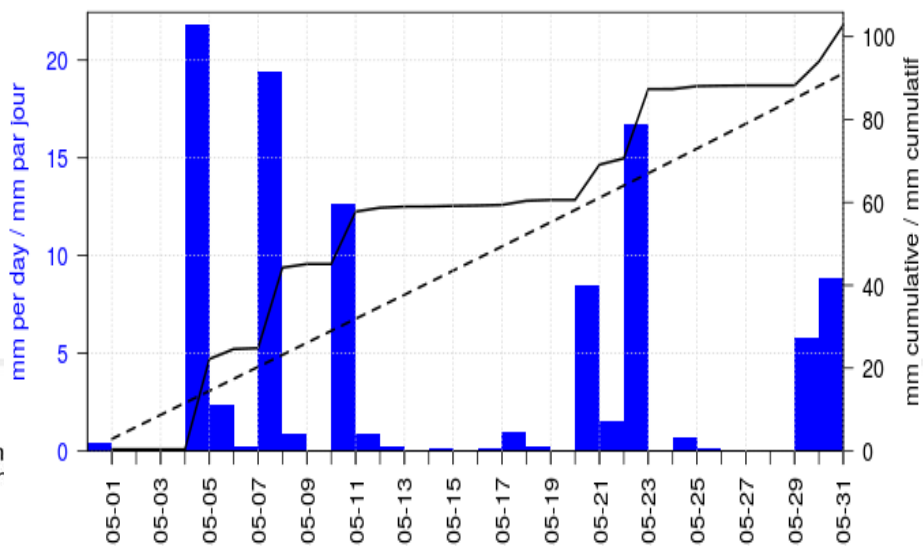


Saint John

Saint John was below normal

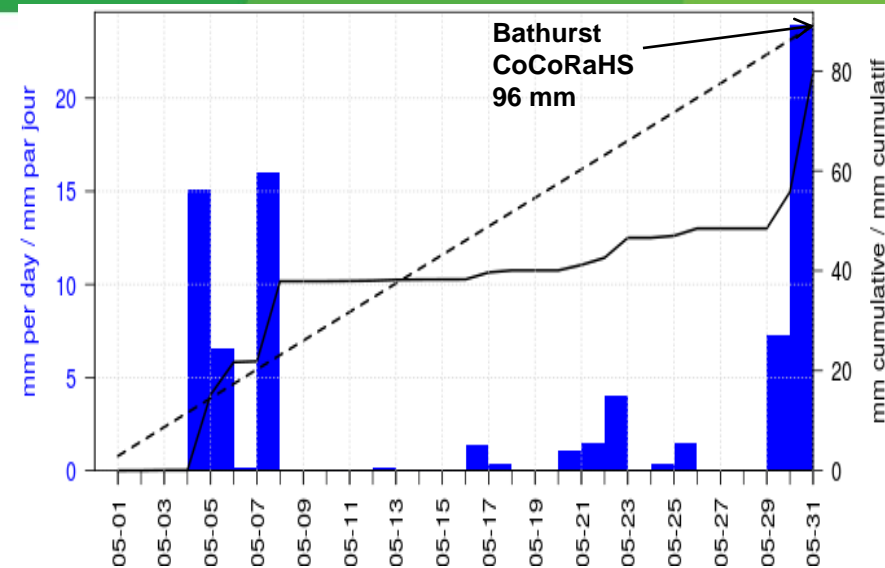
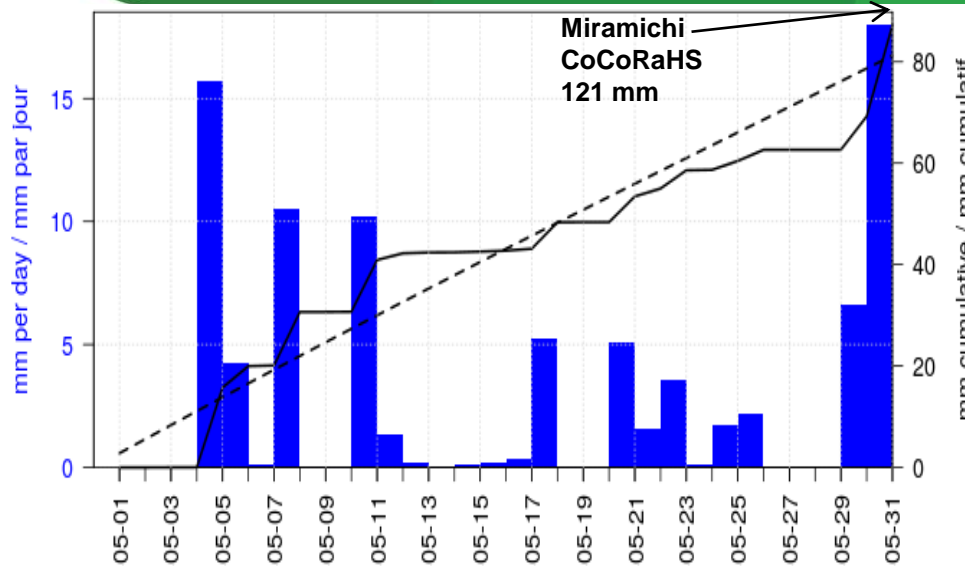
Moncton was above normal

Moncton



May 2021 - Precipitation

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Based on ECCG gridded precipitation analysis Climatology 2002-2020



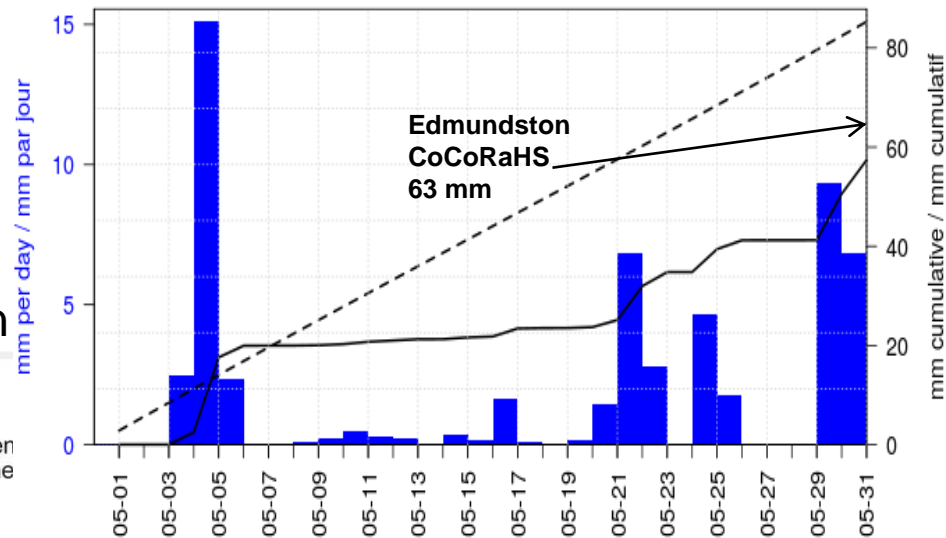
Miramichi

Bathurst

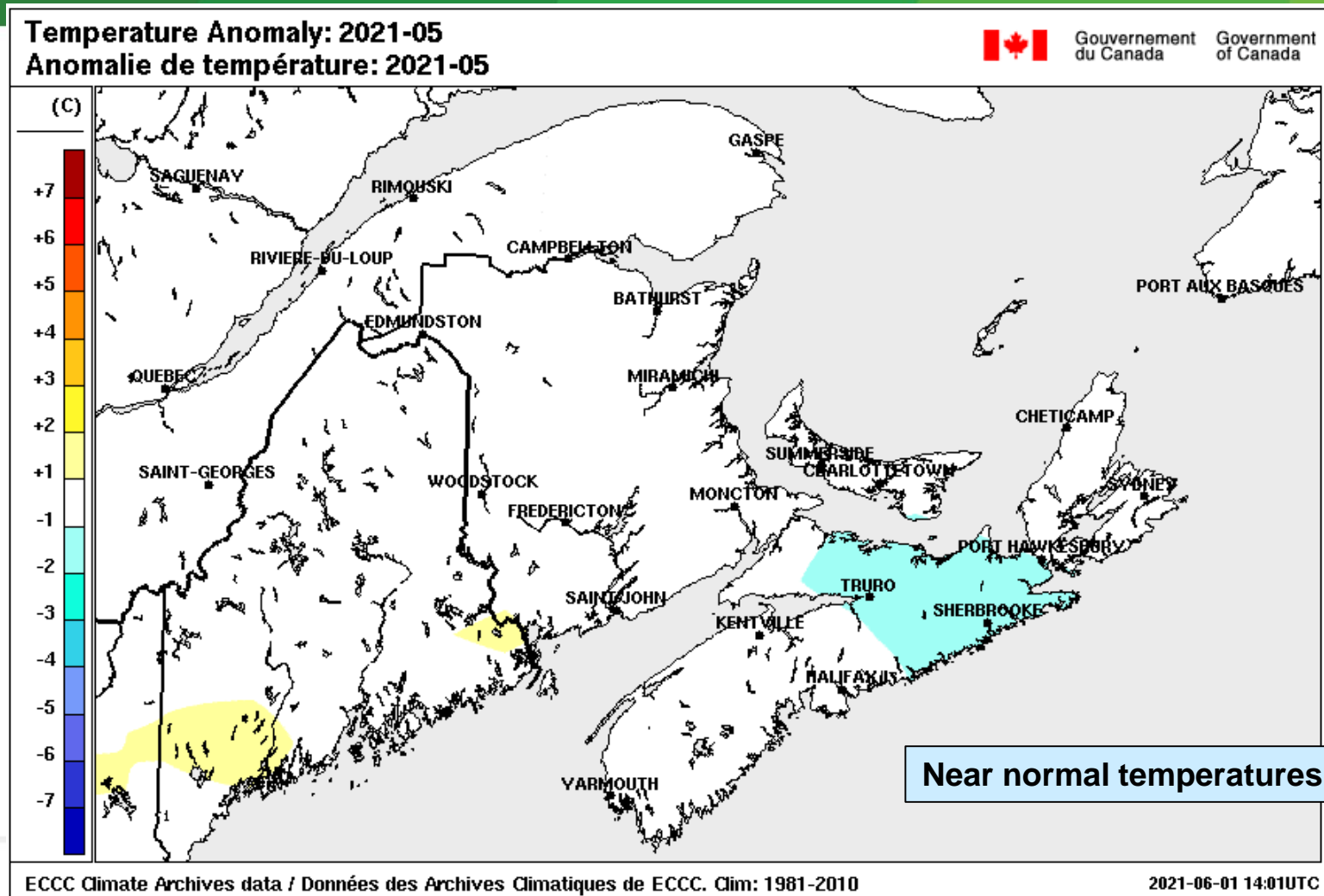
Miramichi was near normal

Edmundston and Bathurst were below normal

Edmundston



May 2021 – Temperature departure from 1981-2010 mean



Gouvernement du Canada / Government of Canada

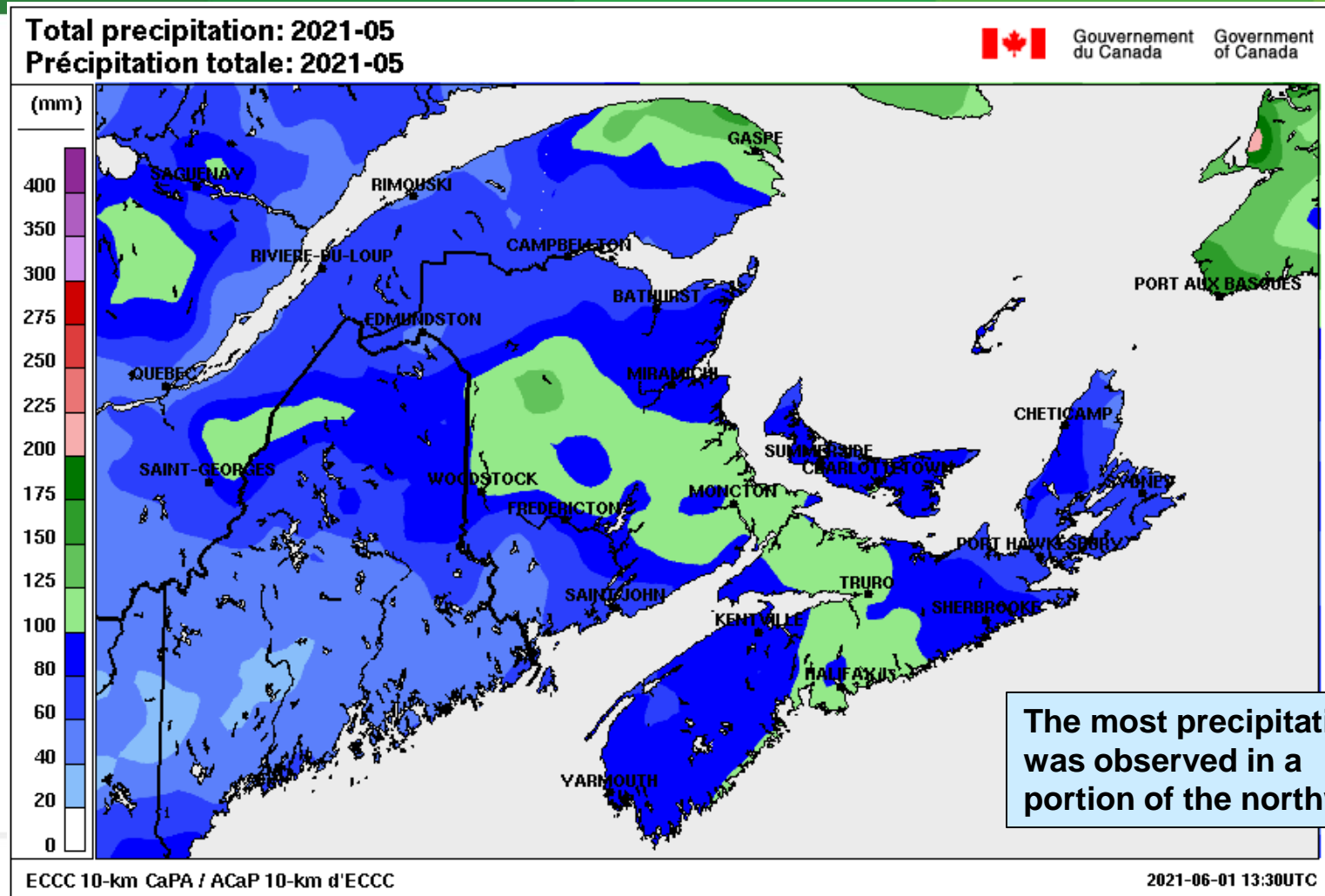


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May 2021 – Total precipitation

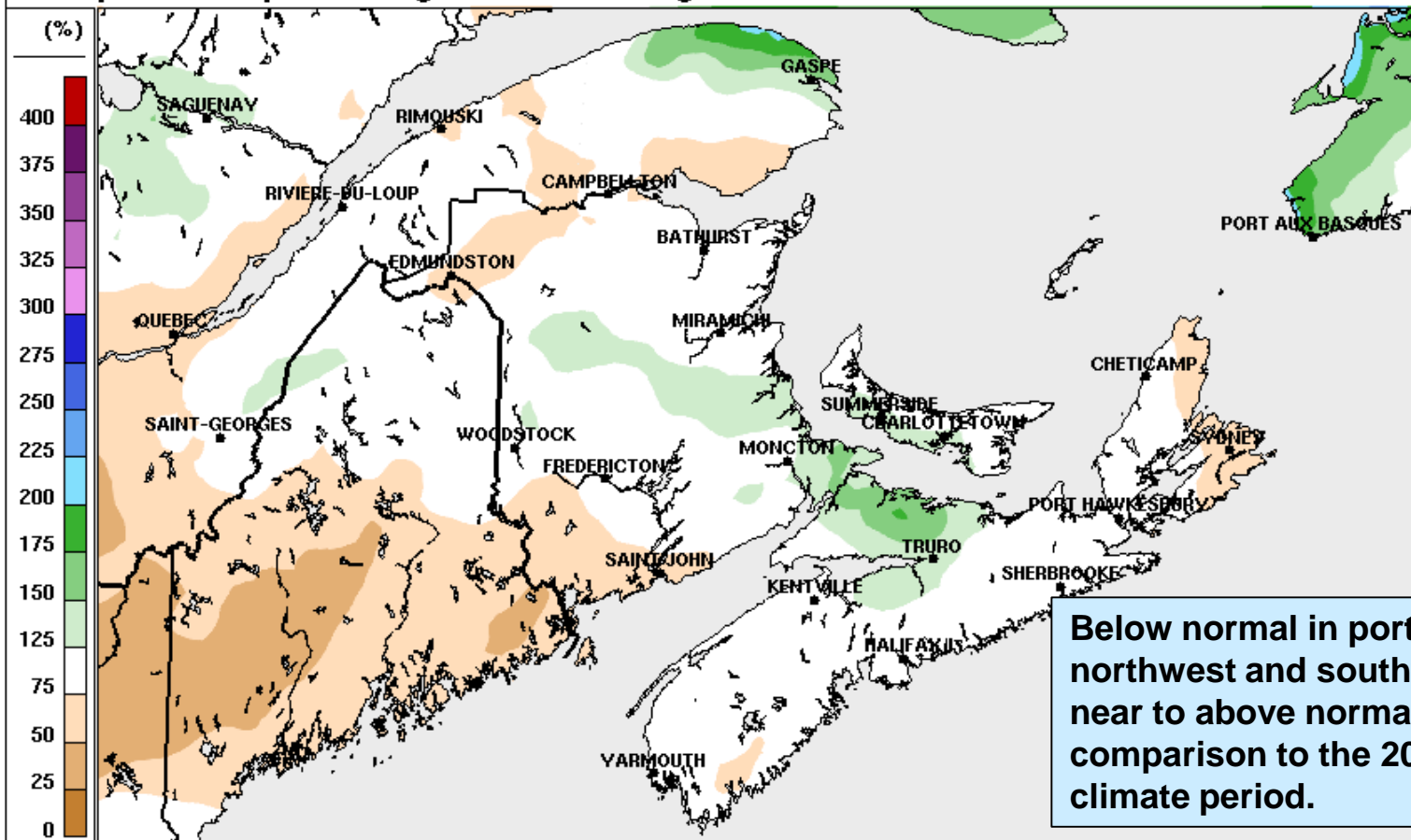


May 2021 – Precipitation departure from 2002-2020 mean



Gouvernement du Canada / Government of Canada

Precipitation as a Percentage of Climatology: 2021-05
 Précipitation en pourcentage de la climatologie: 2021-05



Below normal in portions of the northwest and southwest and near to above normal elsewhere in comparison to the 2002-2020 climate period.

ECCC 10-km CaPA / ACaP 10-km d'ECCC. Clim: 2002-2020

2021-06-01 13:31UTC



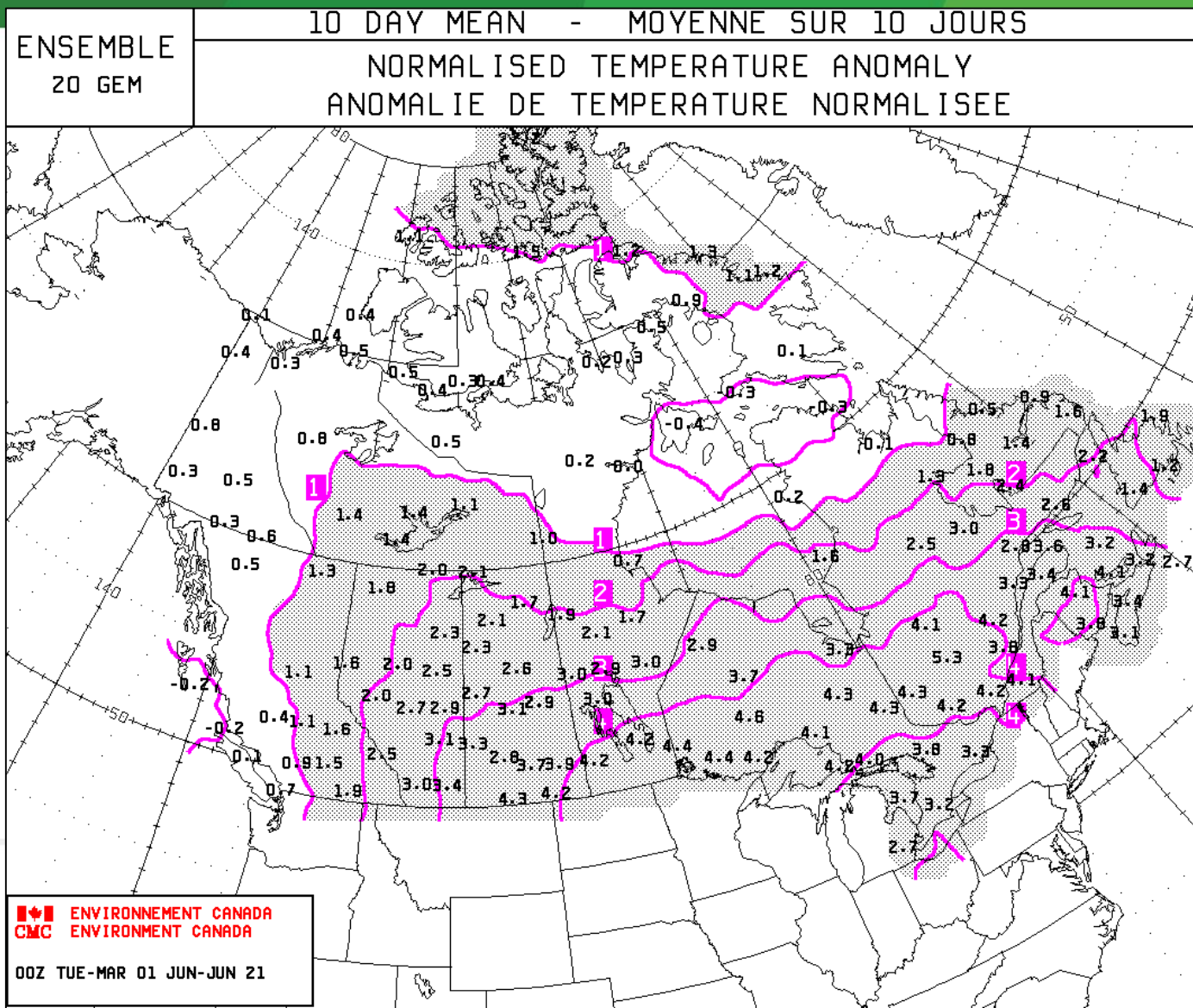
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Outlook – 10 day mean temperature

(Suggesting above normal conditions (+3.5 to +4.2°C))



10 day
forecast
ending
June 11,
2021



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CMC ENVIRONMENT CANADA

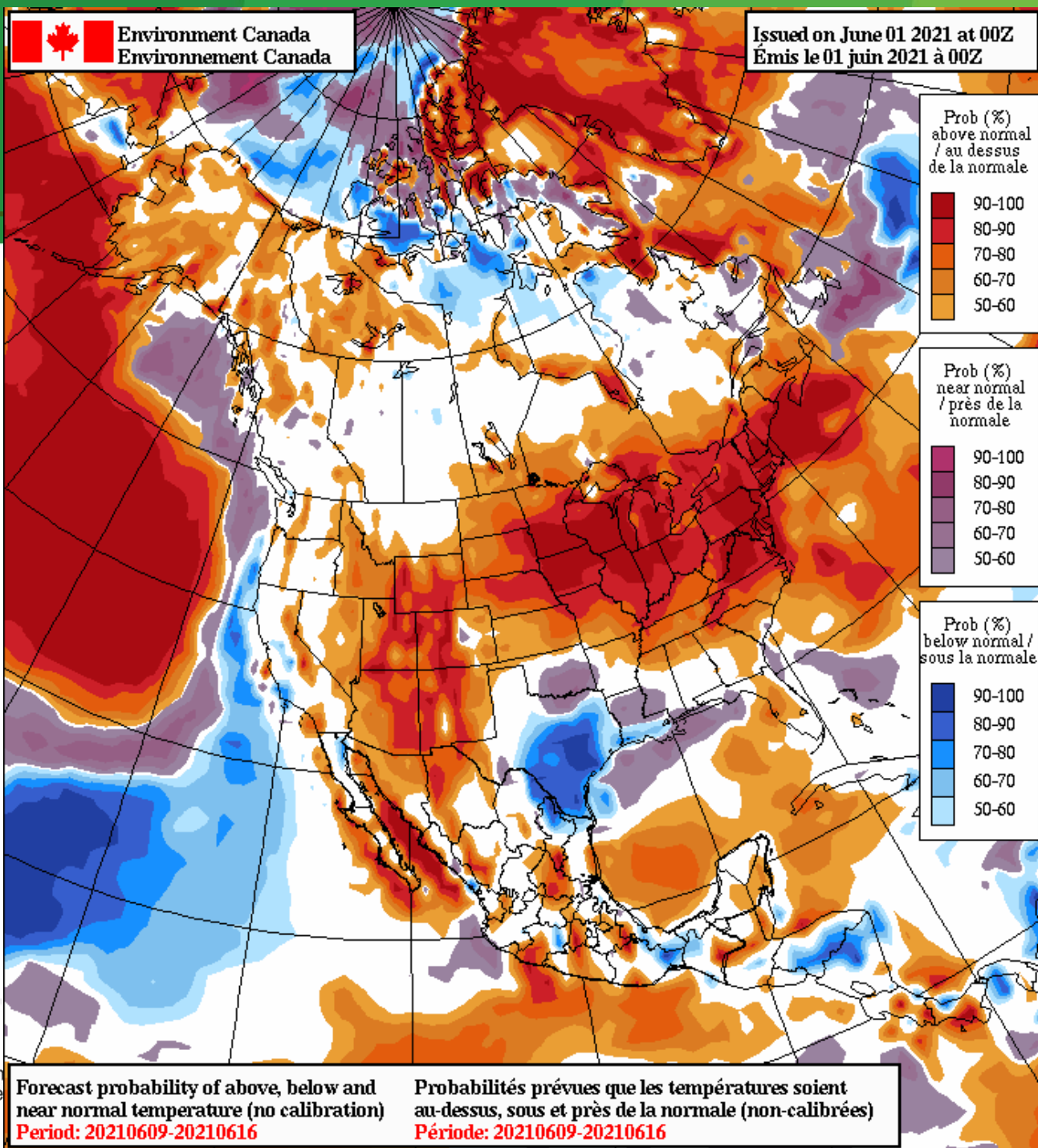
00Z TUE-MAR 01 JUN-JUN 21

Canada

Day 8 to 14 Forecast

Period ending
June 16, 2021

Suggesting a
signal of above
normal conditions.



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Fredericton



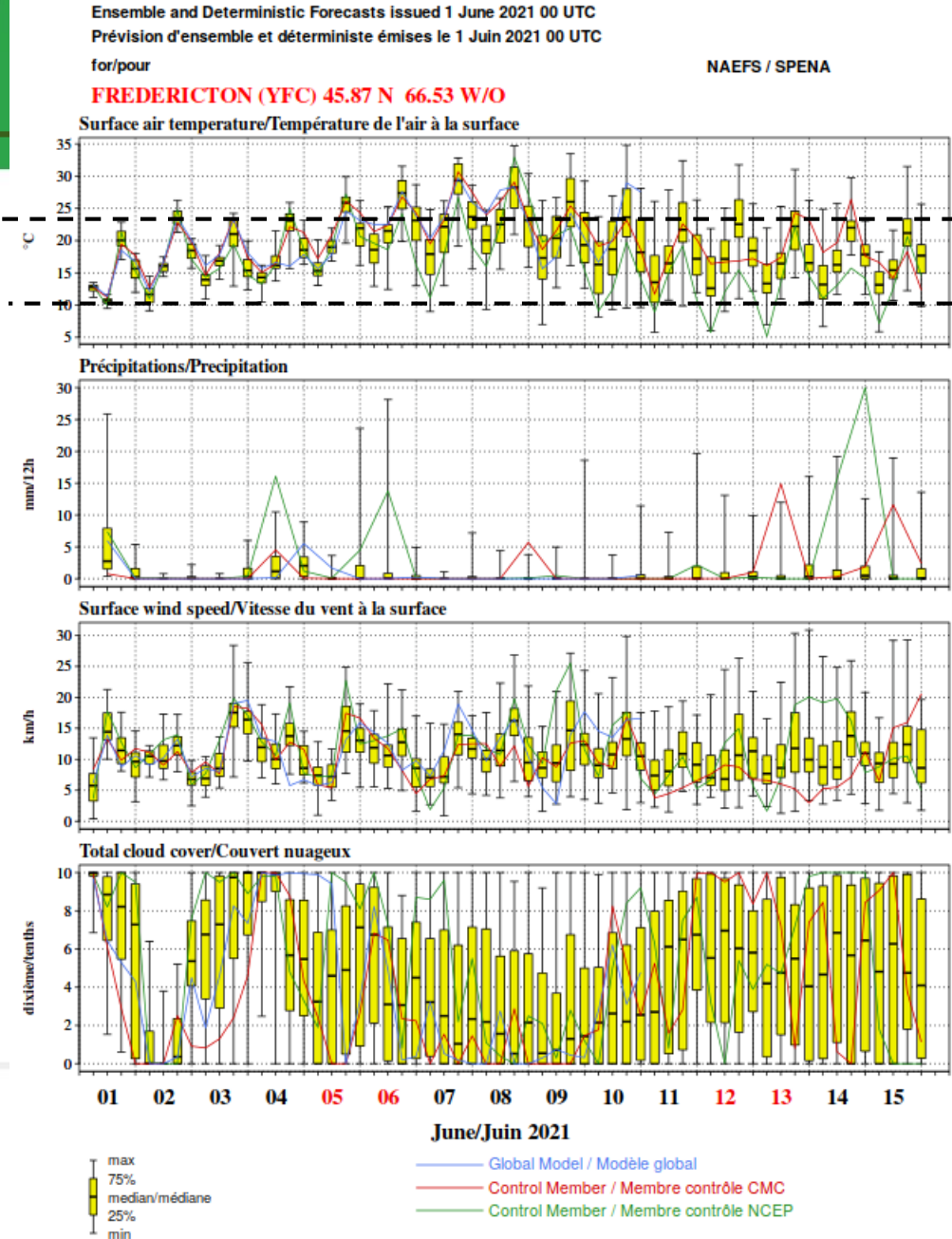
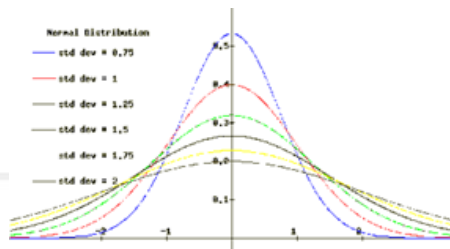
June

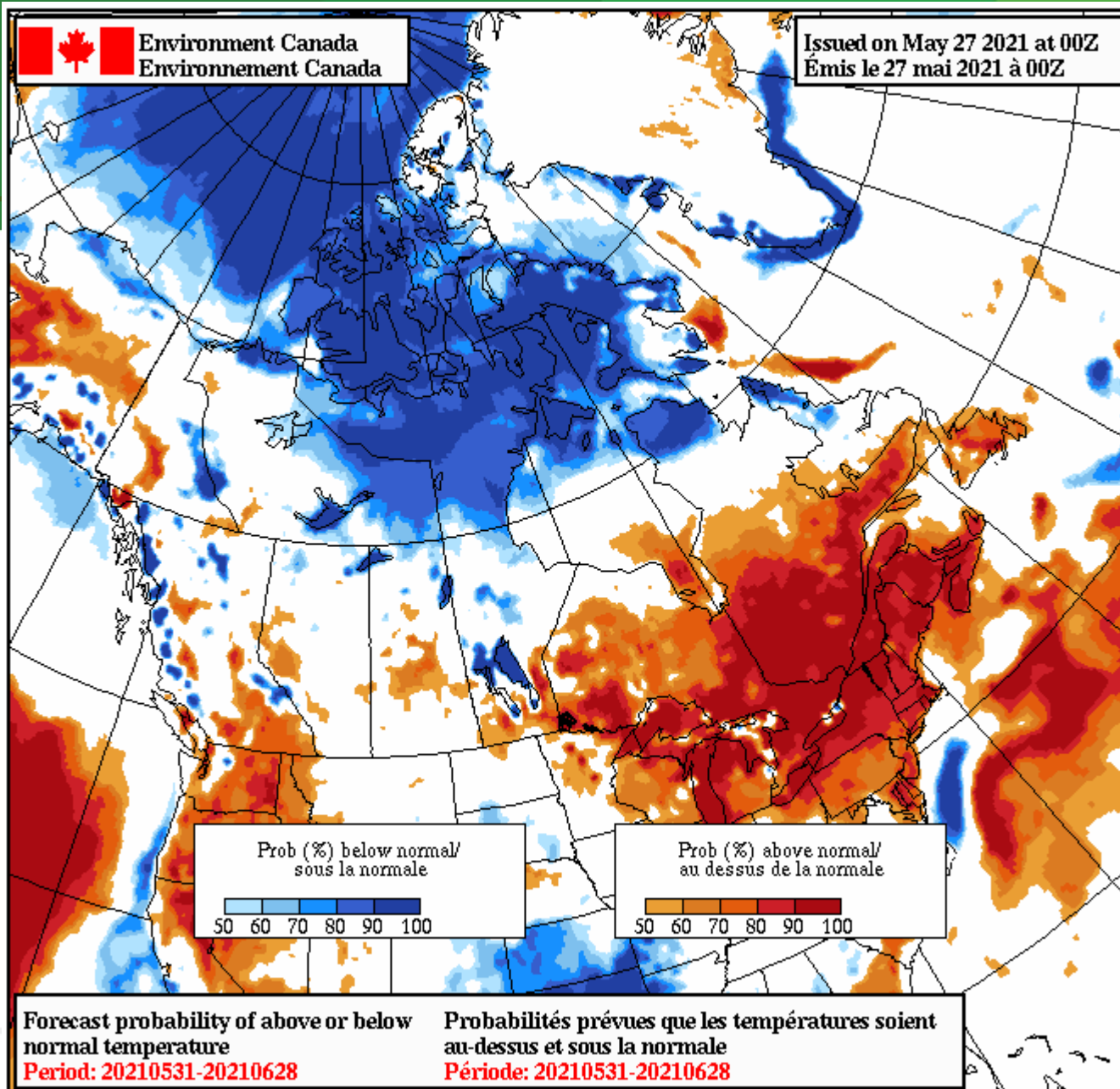
Normal high: 22.7C

Normal low: 9.7C

Next 15 days; ending
June 15, 2021

Generally suggesting near normal maximum temperatures and above normal minimum temperatures for the first third, then above normal for the second third and then lots of variability for the final third of the period.





Forecast probability of above or below
normal temperature

Period: 20210531-20210628

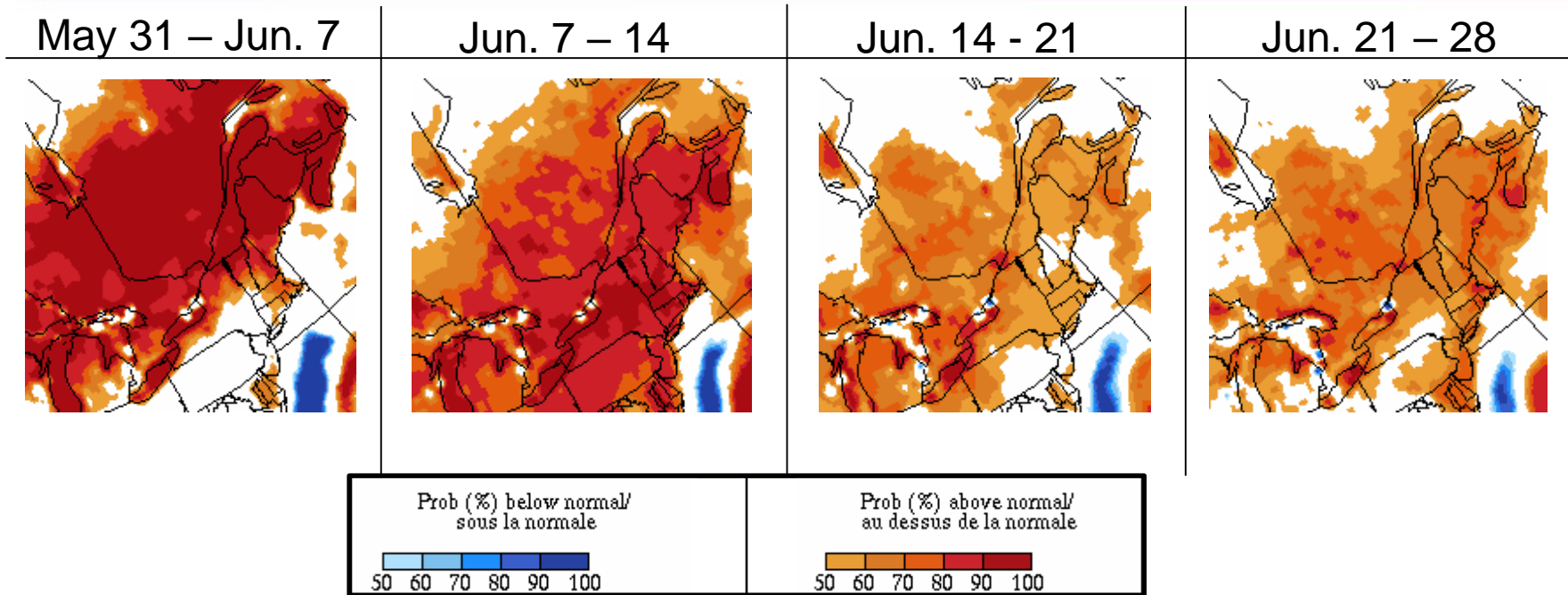
Probabilités prévues que les températures soient
au-dessus et sous la normale

Période: 20210531-20210628

Temperature
May 31
to
June 28

CMC
Monthly
Forecast
Product
using GEPS
50km res.

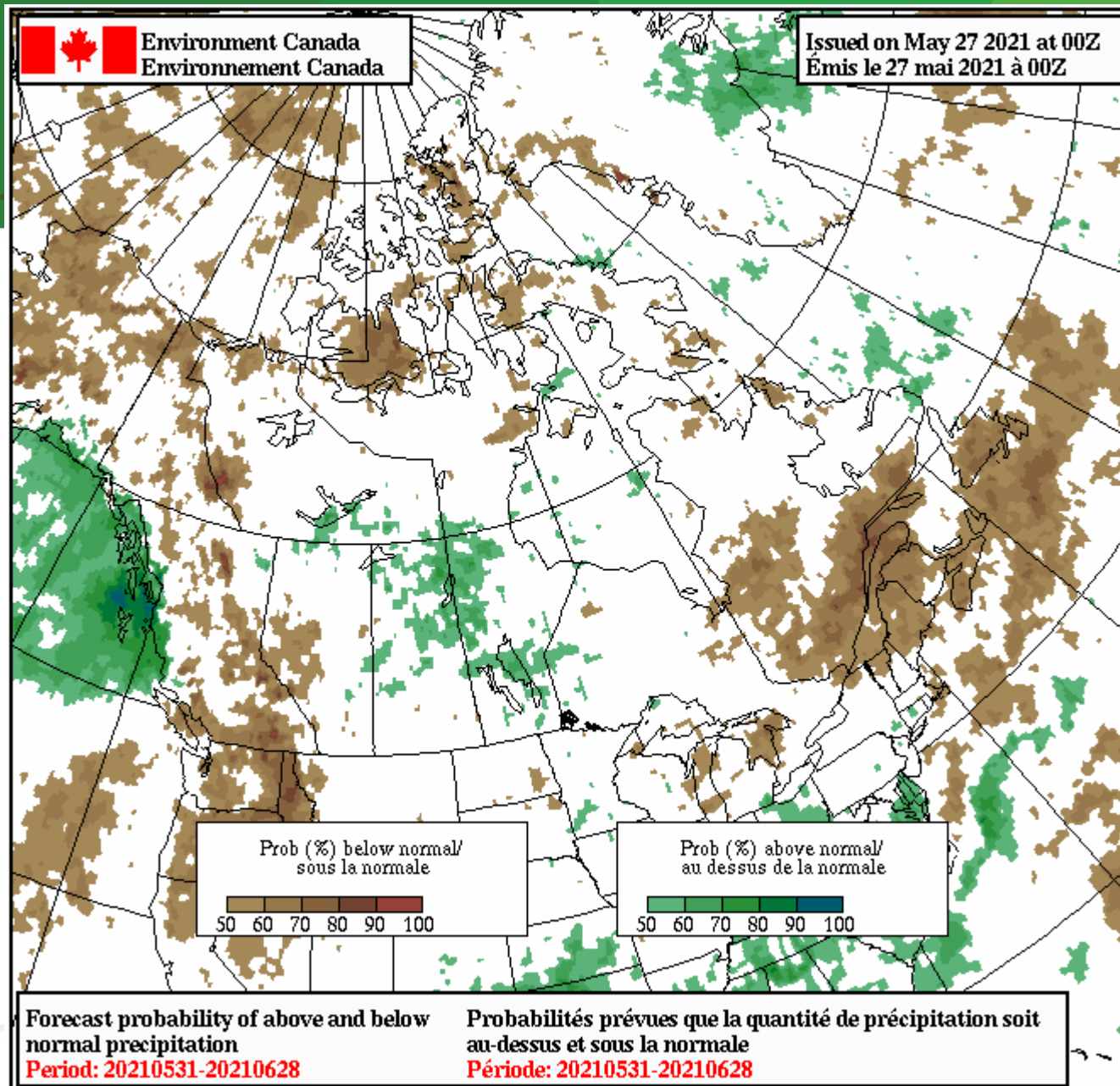
Weekly signature from GEPS 50km resolution



Moderate to strong signal for above normal for the period.



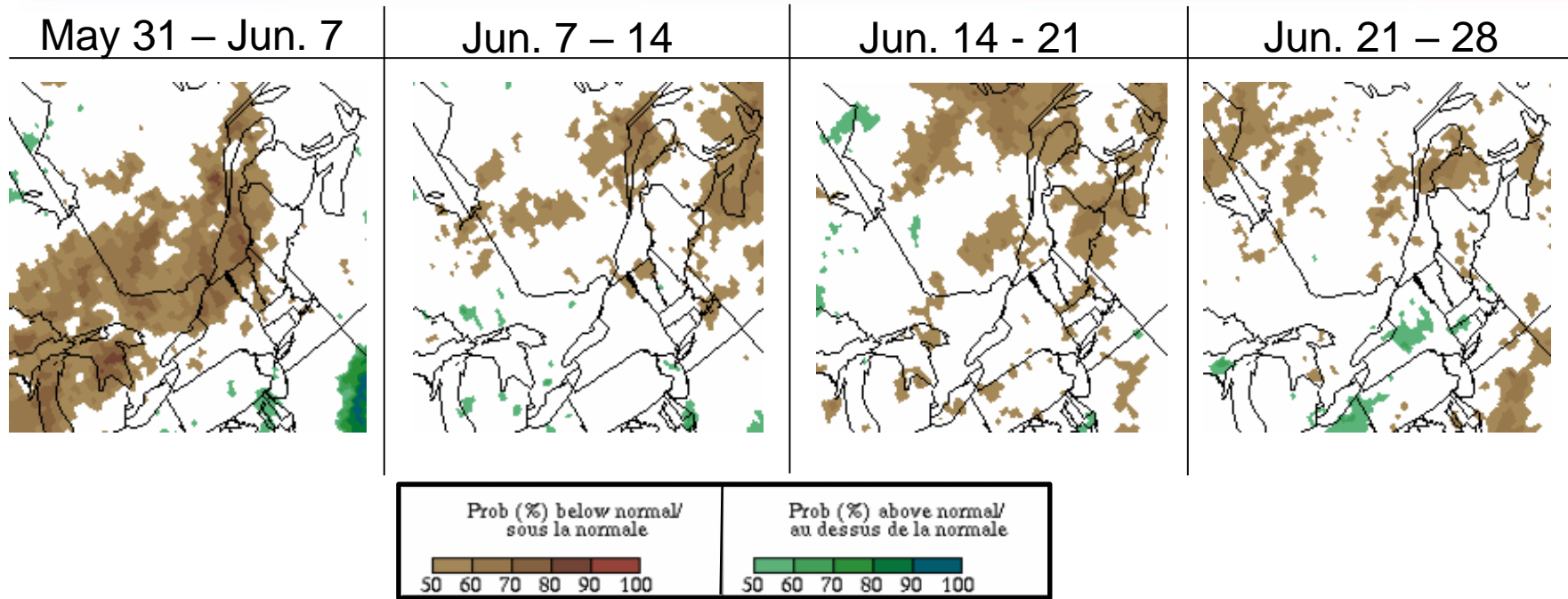
Precipitation May 31 to June 28



CMC
Monthly
Forecast
Product
using GEPS
50km res.



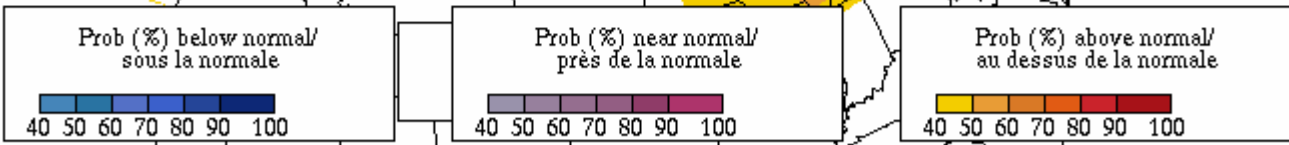
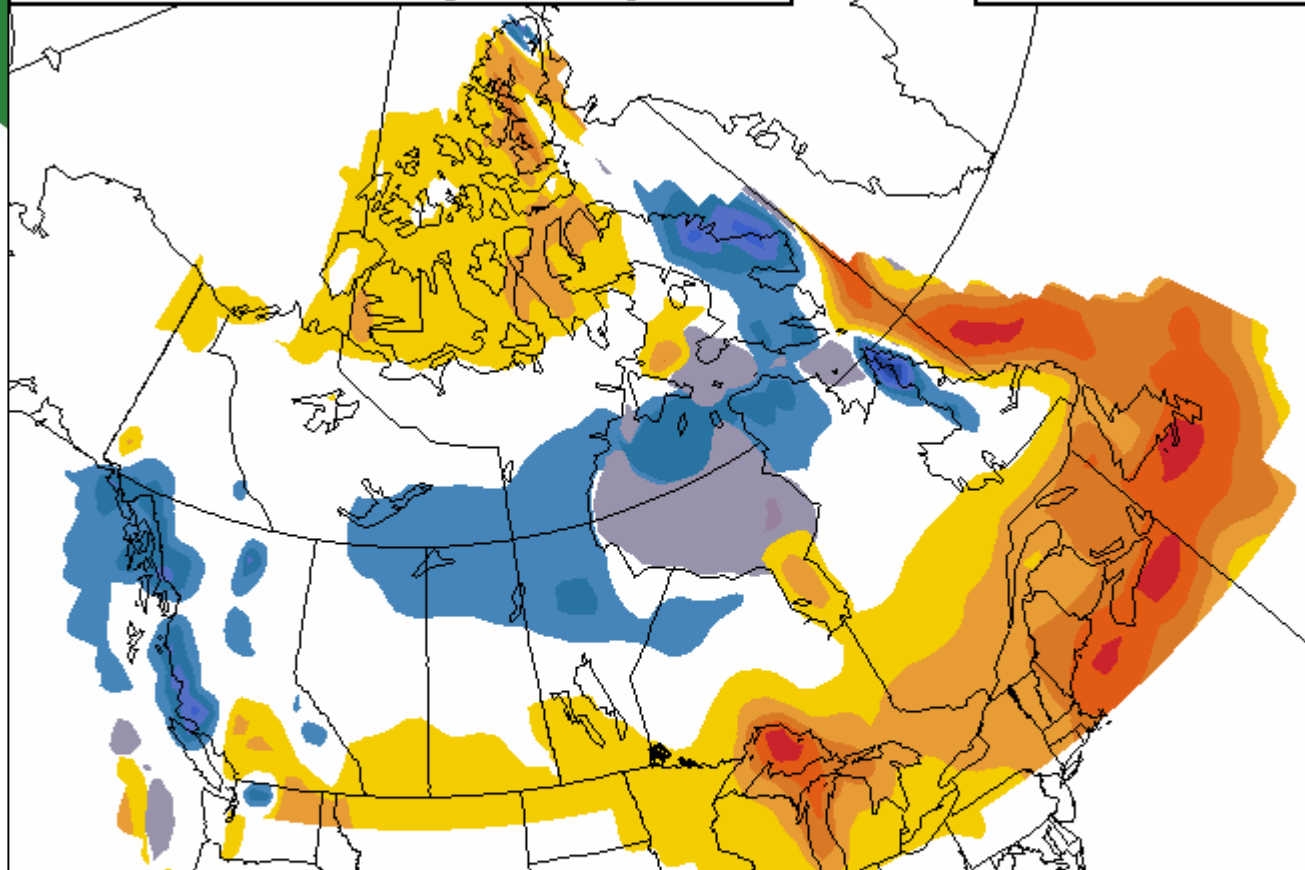
Weekly signature from GEPS 50km resolution



Possible subtle indications of below normal or near normal (no signal) for the period.



Temperature July 2021

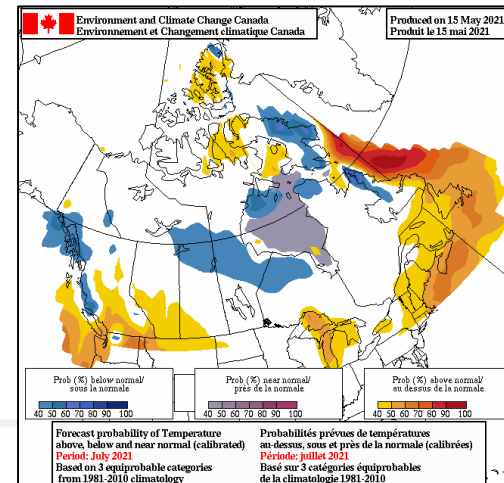


**Forecast probability of Temperature
 above, below and near normal (calibrated)**
Period: July 2021
 Based on 3 equiprobable categories
 from 1981-2010 climatology

**Probabilités prévues de températures
 au-dessus, sous et près de la normale (calibrées)**
Période: juillet 2021
 Basé sur 3 catégories équiprobables
 de la climatologie 1981-2010

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

Produced May 15



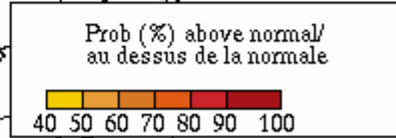
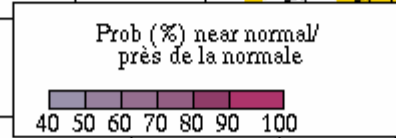
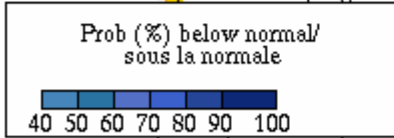
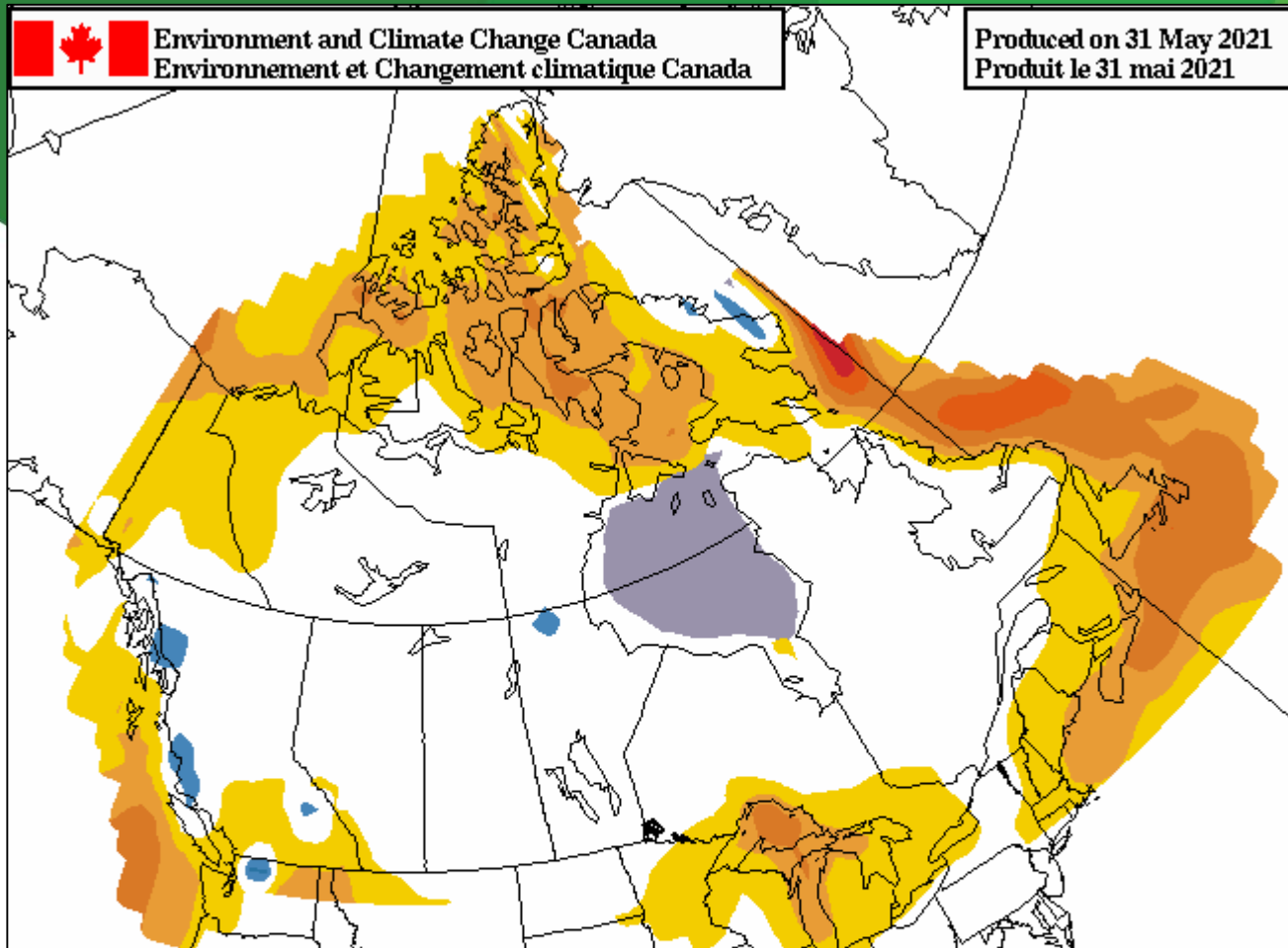
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Period: July 2021
 Based on 3 equiprobable categories
 from 1981-2010 climatology

**Probabilités prévues de températures
 au-dessus, sous et près de la normale (calibrées)**
Période: juillet 2021
 Basé sur 3 catégories équiprobables
 de la climatologie 1981-2010



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Produced on 31 May 2021
 Produit le 31 mai 2021



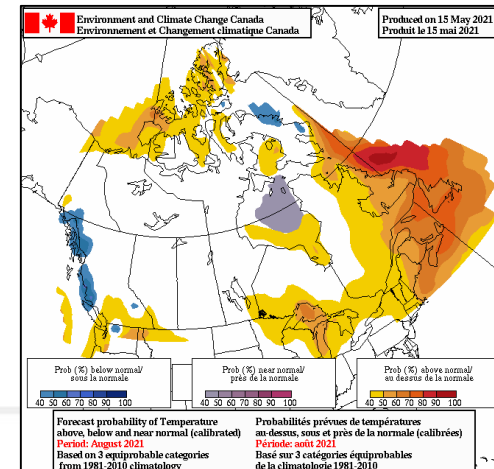
**Forecast probability of Temperature
 above, below and near normal (calibrated)**
Period: August 2021
 Based on 3 equiprobable categories
 from 1981-2010 climatology

**Probabilités prévues de températures
 au-dessus, sous et près de la normale (calibrées)**
Période: août 2021
 Basé sur 3 catégories équiprobables
 de la climatologie 1981-2010

Temperature August 2021

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

Produced May 15



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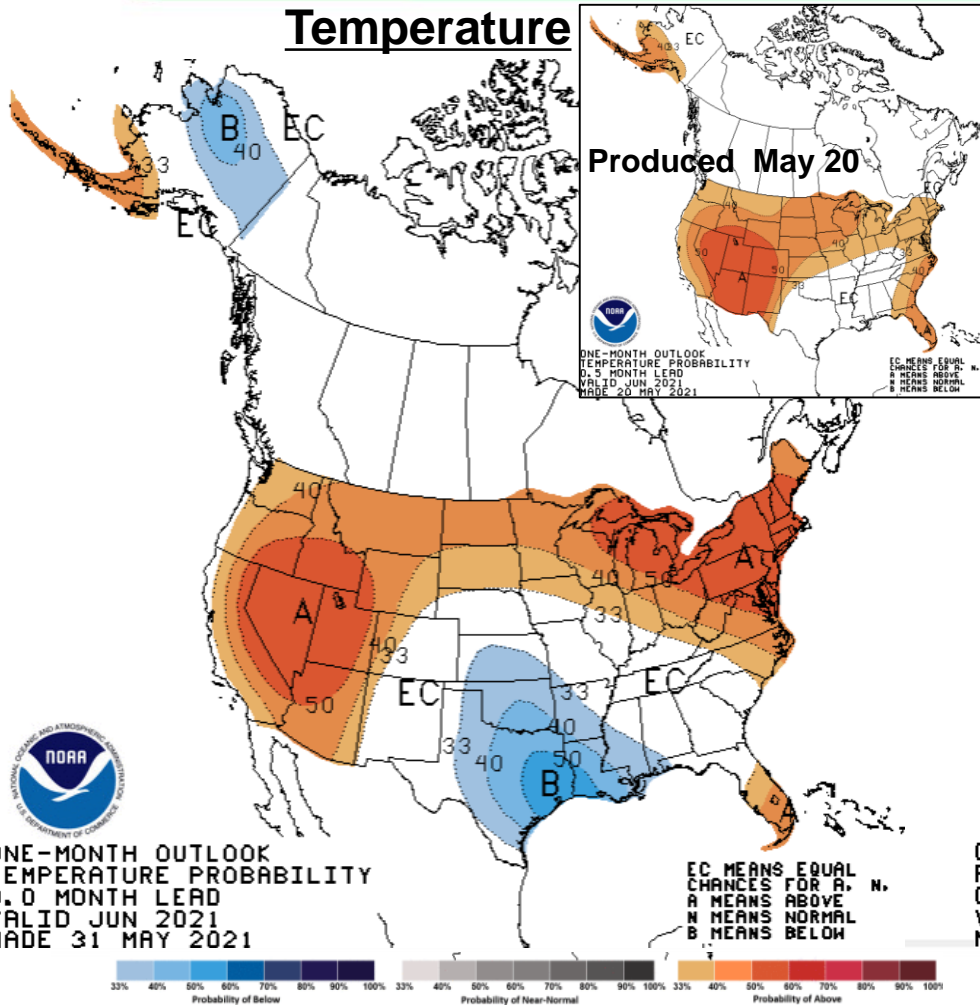
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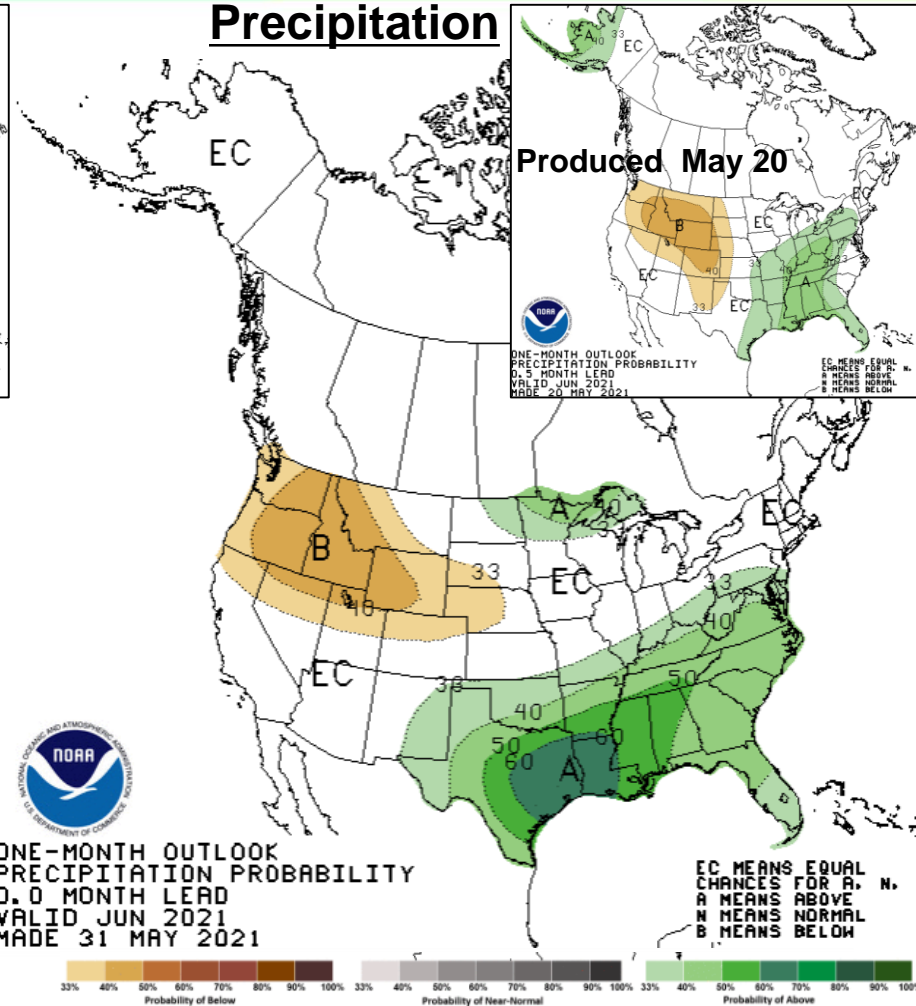


June 2021

Temperature



Precipitation



Contact

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Canada Weather Pages

www.weather.gc.ca

