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**New Brunswick**

# **May 2019 Review June 2019 and Summer Outlook**

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June 3, 2019**

# May 2019; Climate Summary

Station Name	TC ID	Station Type	Mean Temperature (°C)			Total Precip (mm)			
			Monthly Mean	Normal Mean	Diff from Normal	Monthly Total	Normal Total	Total as % of Normal	Diff from Normal as % of Normal
AROOSTOOK		DAILY	9.1	11.0	-1.8	105.4	86.6	122	22
BAS CARAQUET	WXS	AU8	6.9	8.8	-2.0	58.2	85.6	68	-32
BAS CARAQUET		DAILY				67.2	85.6	79	-21
BATHURST A	ZBF	NCA	7.6	9.7	-2.1	64.5	103.1	63	-37
BOUCTOUCHE CDA CS	ABT	AU8	7.4	9.8	-2.4	95.9	100.5	95	-5
CHARLO AUTO	ZCR	AU8	7.6	9.0	-1.4	78.0	84.8	92	-8
MIRAMICHI RCS	ACQ	AU8	7.9	10.0	-2.2	84.4	99.5	85	-15
DOAKTOWN AUTO RCS	ADN	AU8	7.9	10.6	-2.7	76.7	113.2	68	-32
EDMUNDSTON	ERM	AU8	7.5	10.3	-2.8	73.3	90.4	81	-19
FREDERICTON INTL A	YFC	NCA	8.8	11.1	-2.3	82.2	96.2	85	-15
FREDERICTON CDA CS	AFC	AU8	9.0	11.3	-2.4	79.1	103.8	76	-24
GAGETOWN AWOS A	YCX	AU5	8.8	11.3	-2.4	68.0	105.8	64	-36
GRAND MANAN SAR CS	XGM	AU8	7.5			162.0			
KOUCHIBOUGUAC	AKC	AU8	7.0	9.8	-2.8	85.8	112.2	76	-24
MECHANIC SETTLEMENT	AMS	AU8	6.9			99.0			
MISCOU ISLAND (AUT)	WMI	AU8	6.2						
MONCTON INTL A	YQM	NCH	7.6	10.0	-2.4	106.6	96.9	110	10
MONCTON A	YQM	NCA	7.6	10.0	-2.4				
OAK POINT		DAILY	8.8	11.3	-2.5	96.8	105.8	92	-8
POINT LEPREAU CS	WPE	AU8	7.6	8.7	-1.1	135.3	130.2	104	4
RED PINES	ARP	AU8	6.9	9.8	-2.9	69.6	96.0	73	-27
SAINT JOHN A	YSJ	NCH	7.2	9.5	-2.3	119.8	109.8	109	9
ST. STEPHEN	WSS	AU8	8.7			112.1			
SUSSEX FOUR CORNERS	ASF	AU8	8.5	11.1	-2.6	86.3	103.0	84	-16
WOODSTOCK		DAILY	8.9	10.9	-2.0	58.2	94.2	62	-38
WOODSTOCK NEWBRIDGE	EWD	AU8	8.3	10.9	-2.6	61.8	94.2	66	-34
<b>Average</b>			<b>7.8</b>	<b>10.2</b>	<b>-2.3</b>	<b>88.6</b>	<b>99.9</b>	<b>83</b>	<b>-17</b>
<b>Max</b>			<b>9.1</b>	<b>11.3</b>	<b>-1.1</b>	<b>162.0</b>	<b>130.2</b>	<b>122</b>	<b>22</b>
<b>Min</b>			<b>6.2</b>	<b>8.7</b>	<b>-2.9</b>	<b>58.2</b>	<b>84.8</b>	<b>62</b>	<b>-38</b>

## Highlights:

The average temperature was below normal (-2.3C). All sites reported a negative anomaly with Red Pines reporting the largest negative anomaly at -2.9C below normal. Several sites across the province recorded their top 5 coldest on record with Bas Caraquet experiencing their 2<sup>nd</sup> coldest since 1967.

Total precipitation amounts were below normal, with an average of 83% of total precipitation. This average value could have been lower but was offset by a few sites that were above normal. Despite being somewhat dry, the number of days with precipitation was generally higher than normal for most areas of the province (see slide 8 for map)

# May 2019; Climate Summary

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## Events:

**May 1; Flood;** The Saint John River remained above flood stage for several communities at the beginning of the month.

**May 18-20;** Soggy long weekend. Generally 15-30 mm fell across the province during the weekend with most of the precipitation (10-20 mm) falling May 20th. The St. Stephen area saw up to 38 mm.

**May 23-24;** Rain event. The northeastern half of the province remained dry but the southwestern half reported 10-20 mm with the exception of the extreme southwest which received 40-50 mm. Grand Manan and Point Lepreau both recorded 57 mm.

## **Days with thunderstorm activity (lightning) in New Brunswick; 20**

Note: Thunderstorm activity for May was less active than both March and April and has been the least active since 2005 (32 strikes were recorded for May 2019 and the average is 1584 (2002-2019)).

**Days with temperature records broken or tied in New Brunswick; 3 13 14 25 28**  
(red=maximum, blue=minimum)



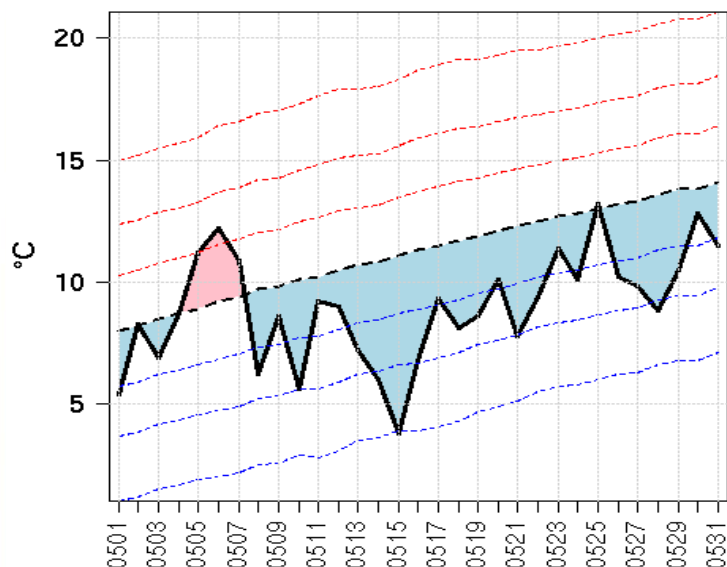
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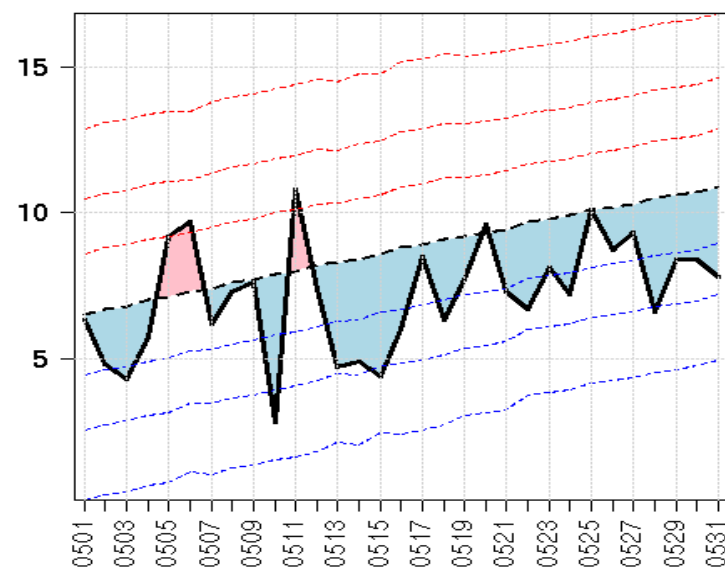
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# May 2019 - Temperature

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



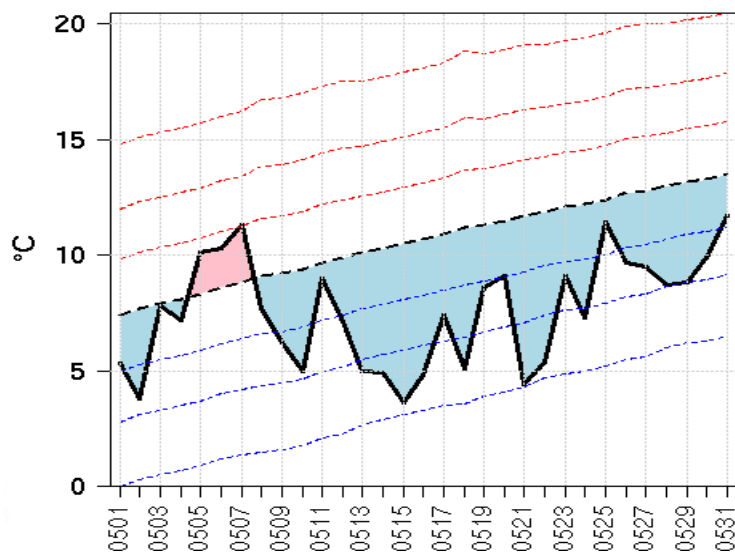
Fredericton (and area)



Saint John

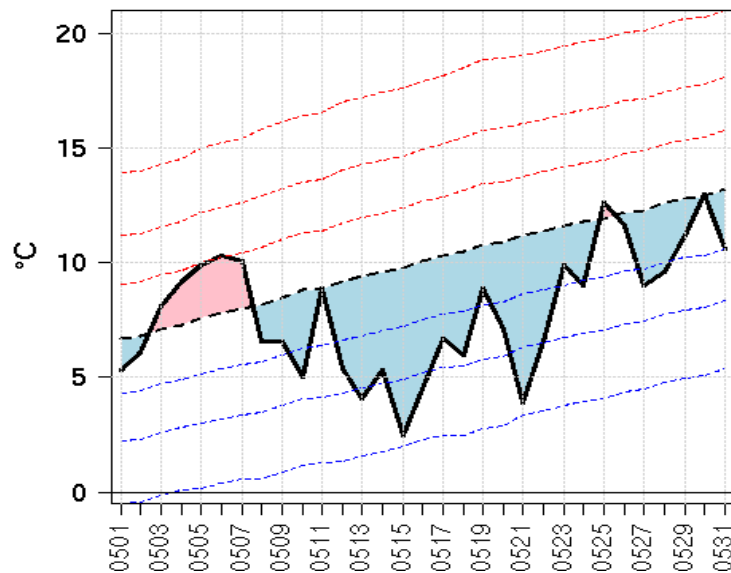
All sites were  
below normal

Moncton

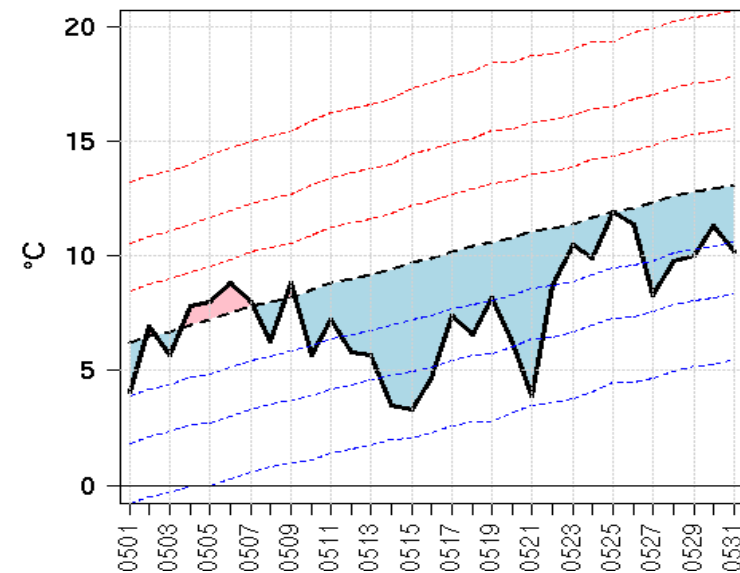


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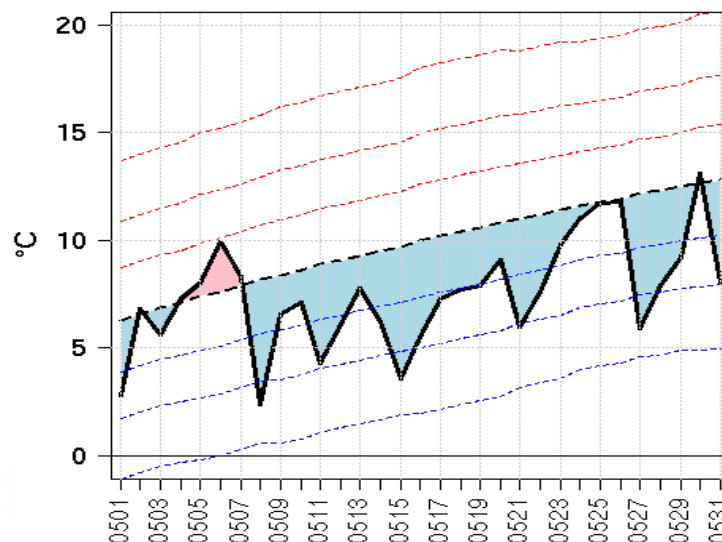
Miramichi



Bathurst

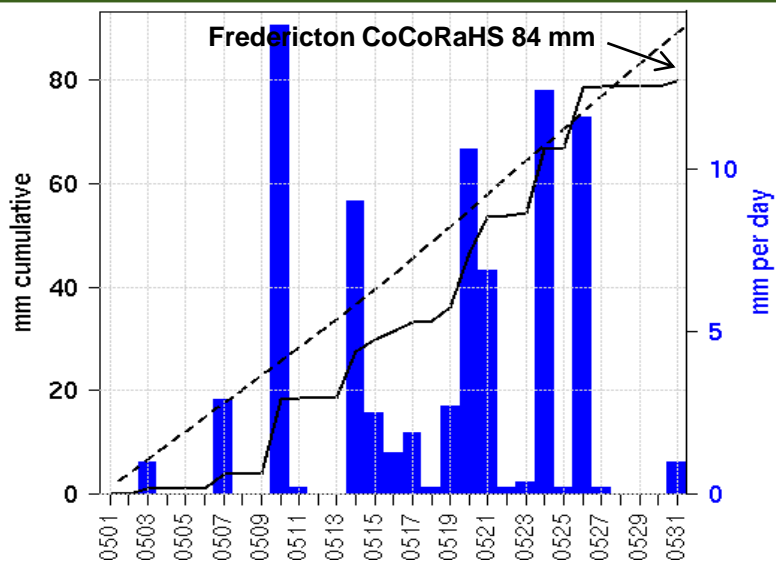
All sites were  
below normal

Edmundston

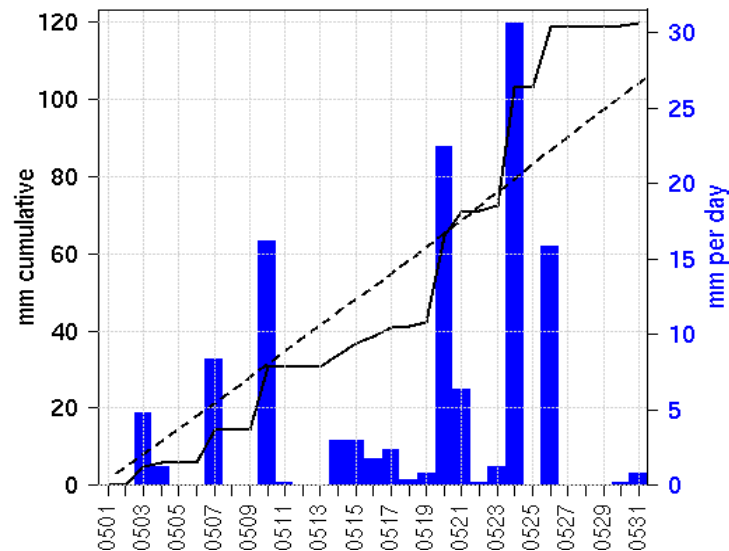


# May 2019 - Precipitation

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



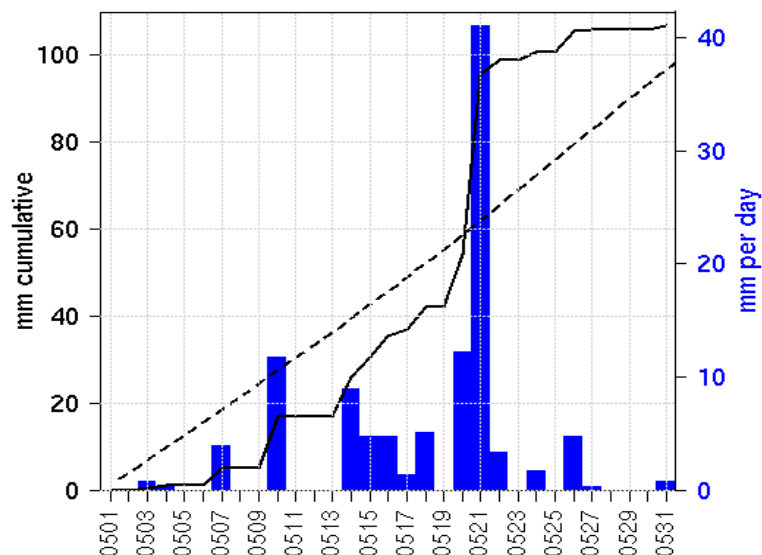
Fredericton (and area)



Saint John

Fredericton was  
below normal

Moncton

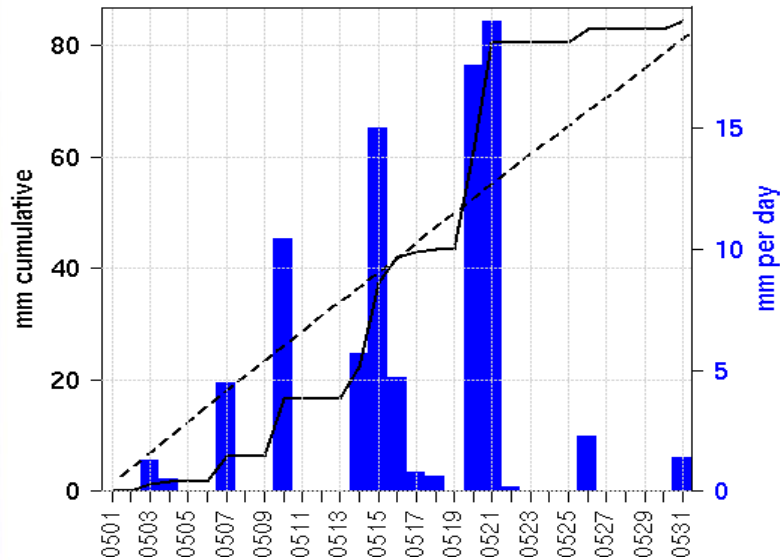


Moncton and  
Saint John were  
slightly above  
normal



# May 2019 - Precipitation

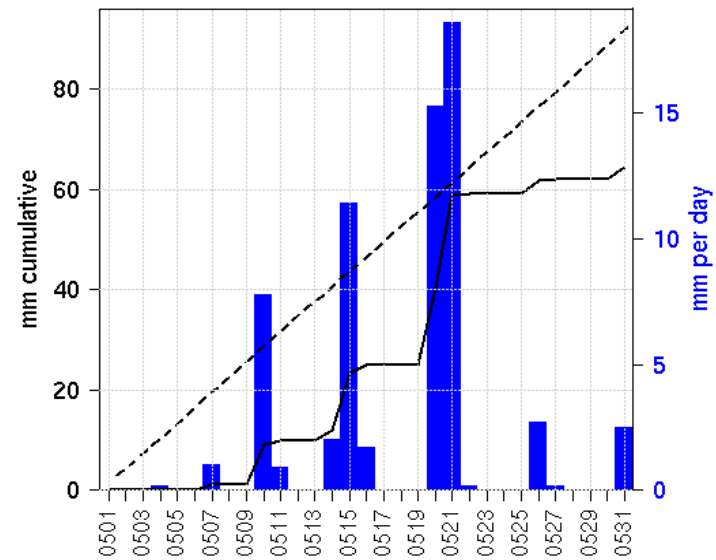
Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars)



Miramichi

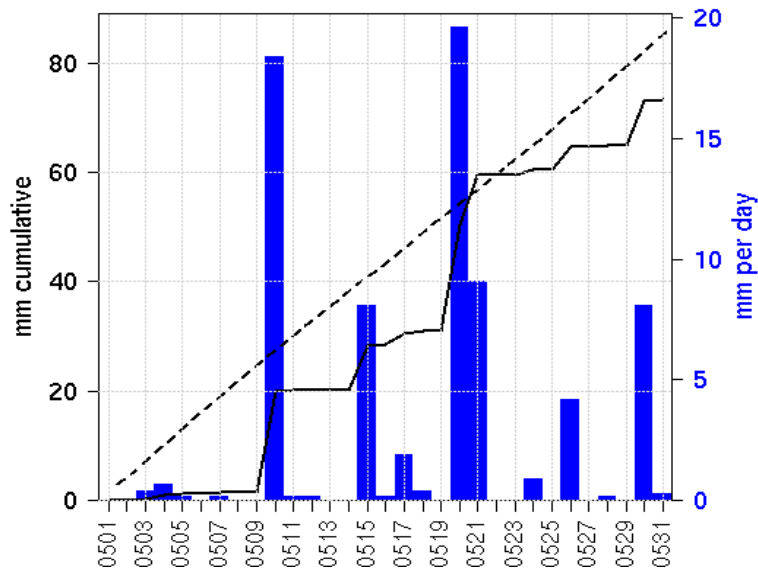
All sites were below normal\*

\*note the normal line for Miramichi is not correctly depicted



Bathurst

Edmundston



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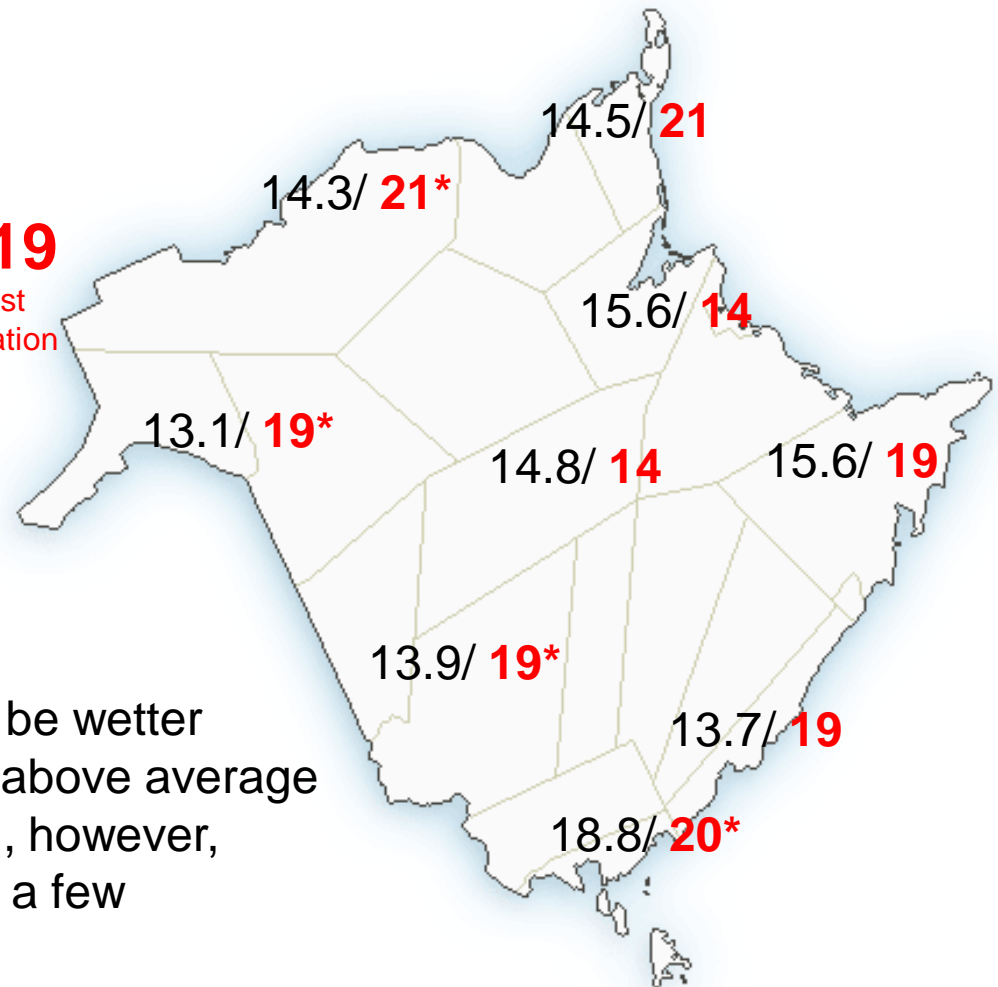


# Days with precipitation – May 2019

## Number of days with precipitation $\geq 0.2$ mm

Climate normal / **May 2019**  
(1981-2010)

\*averaged amongst  
more than one station



Overall, it may have appeared to be wetter than normal because there were above average number of days with precipitation, however, amounts remained light with only a few significant events.



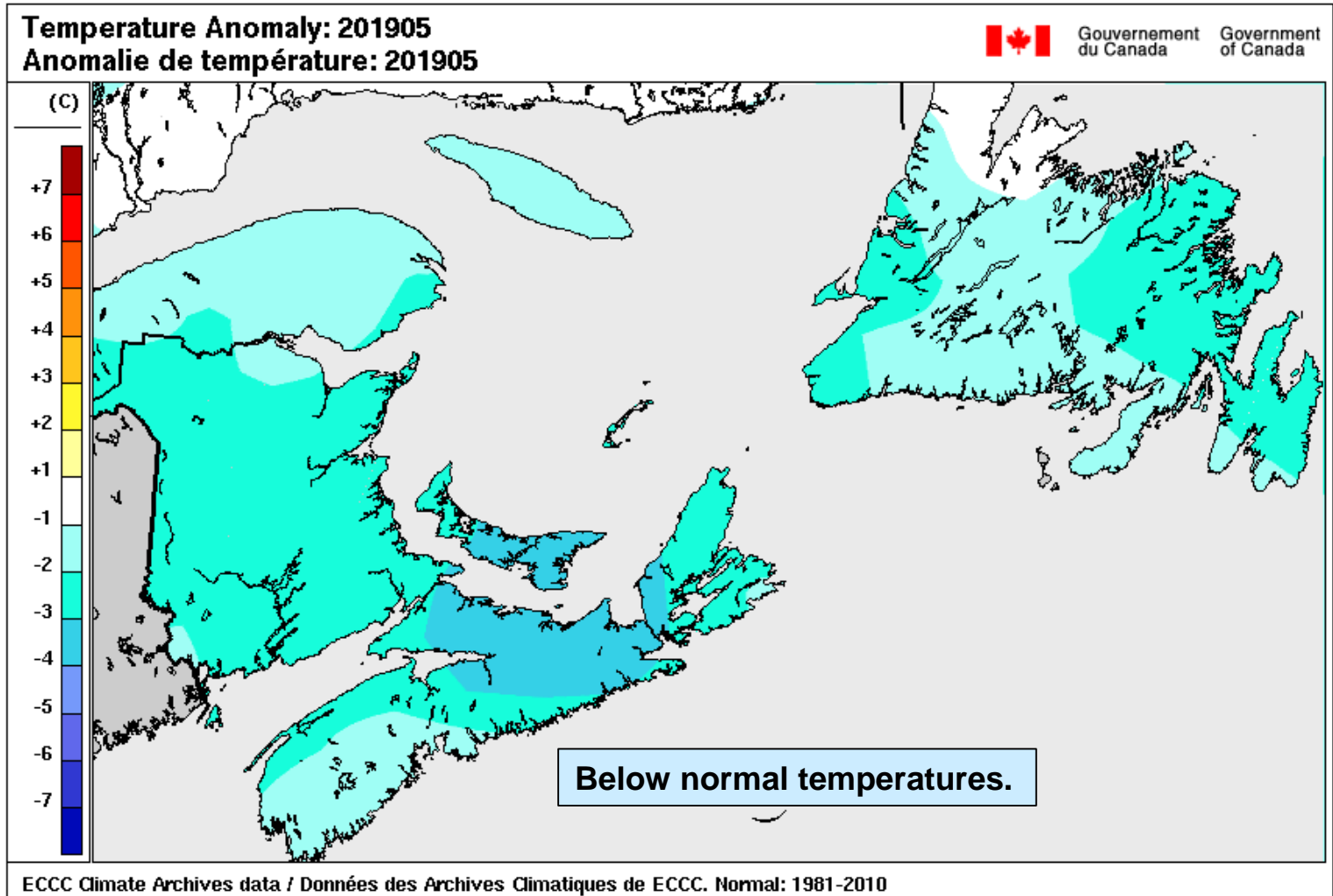
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# May 2019 Temperature departure from 1981-2010 mean.

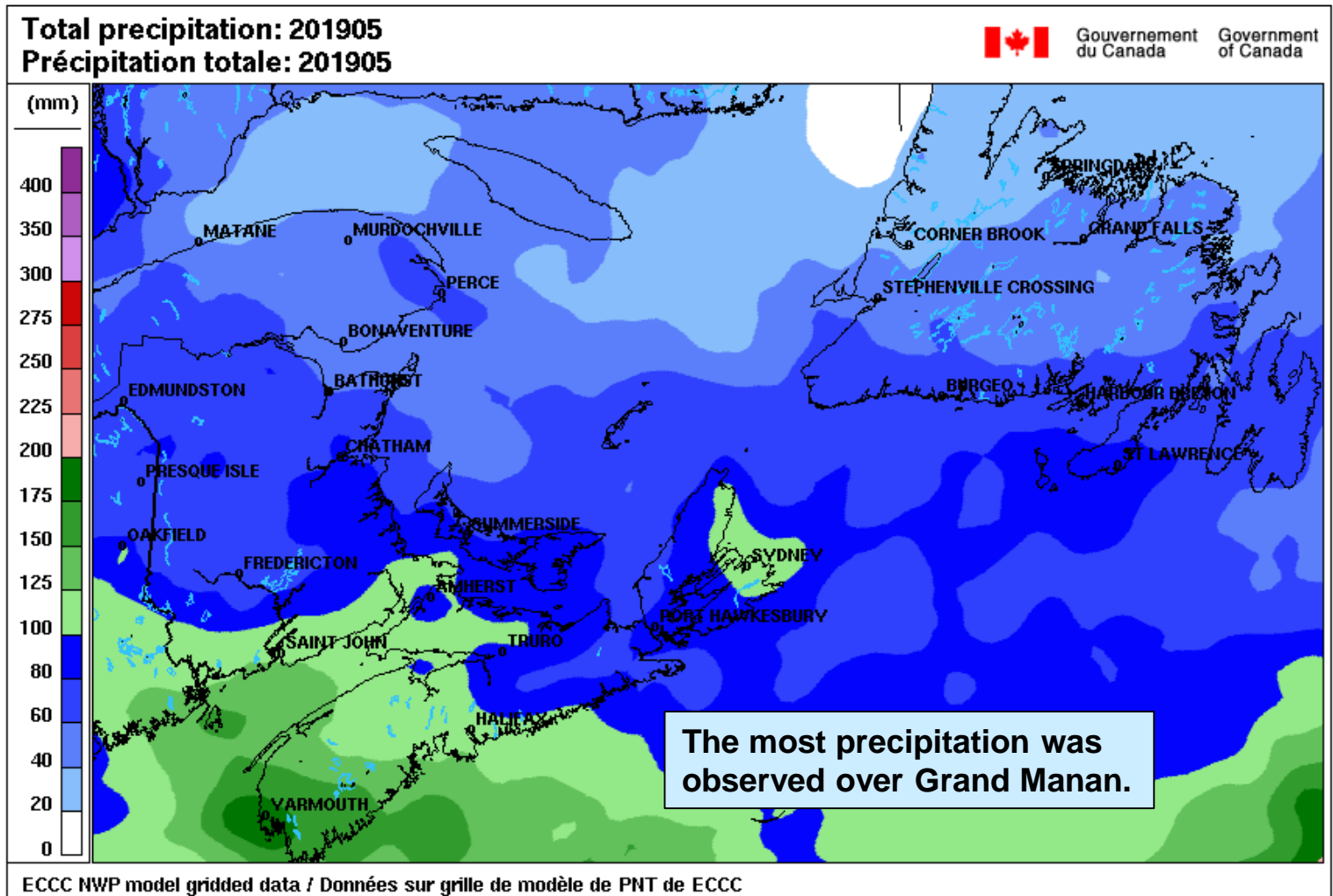


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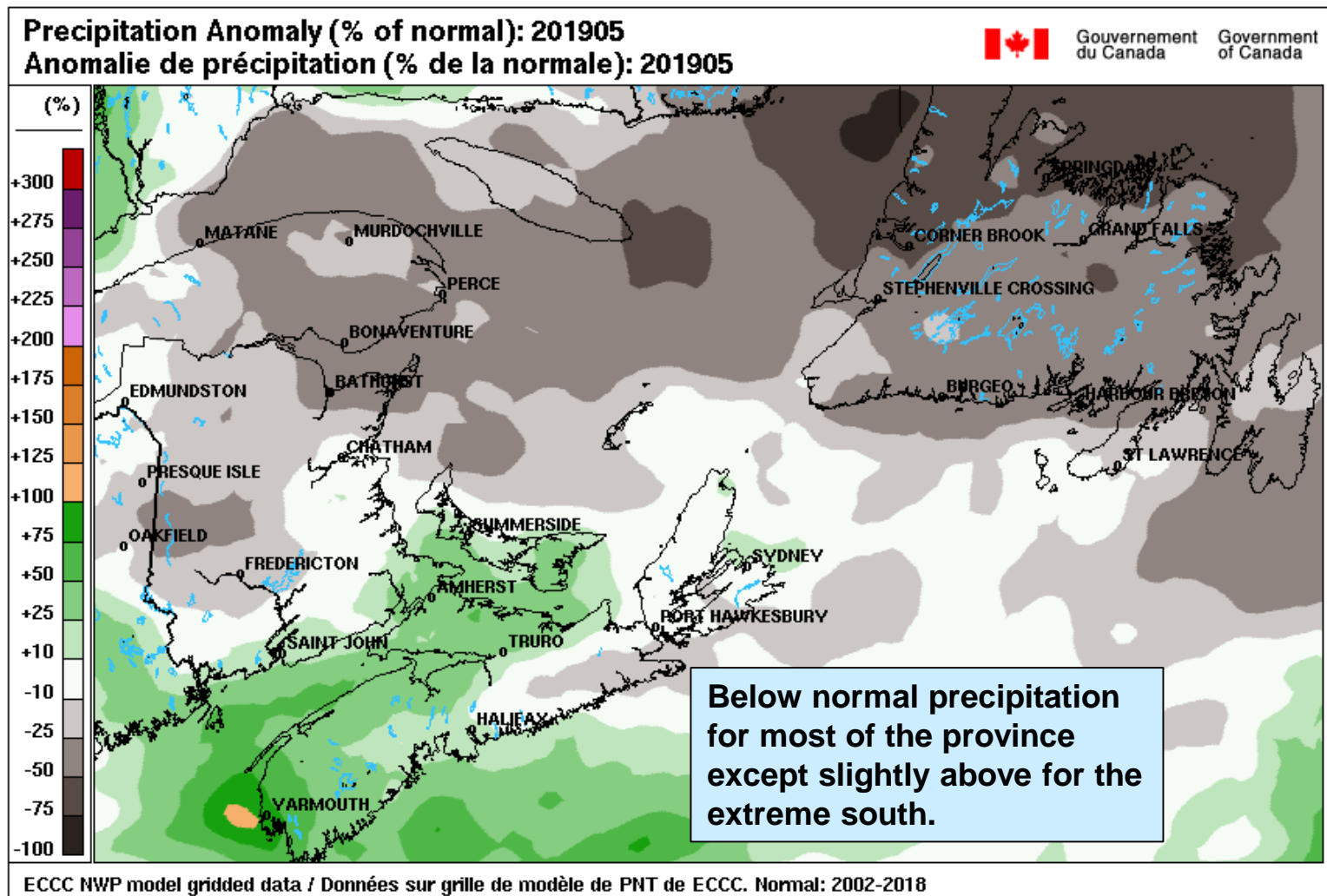
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# May 2019 Total Precipitation

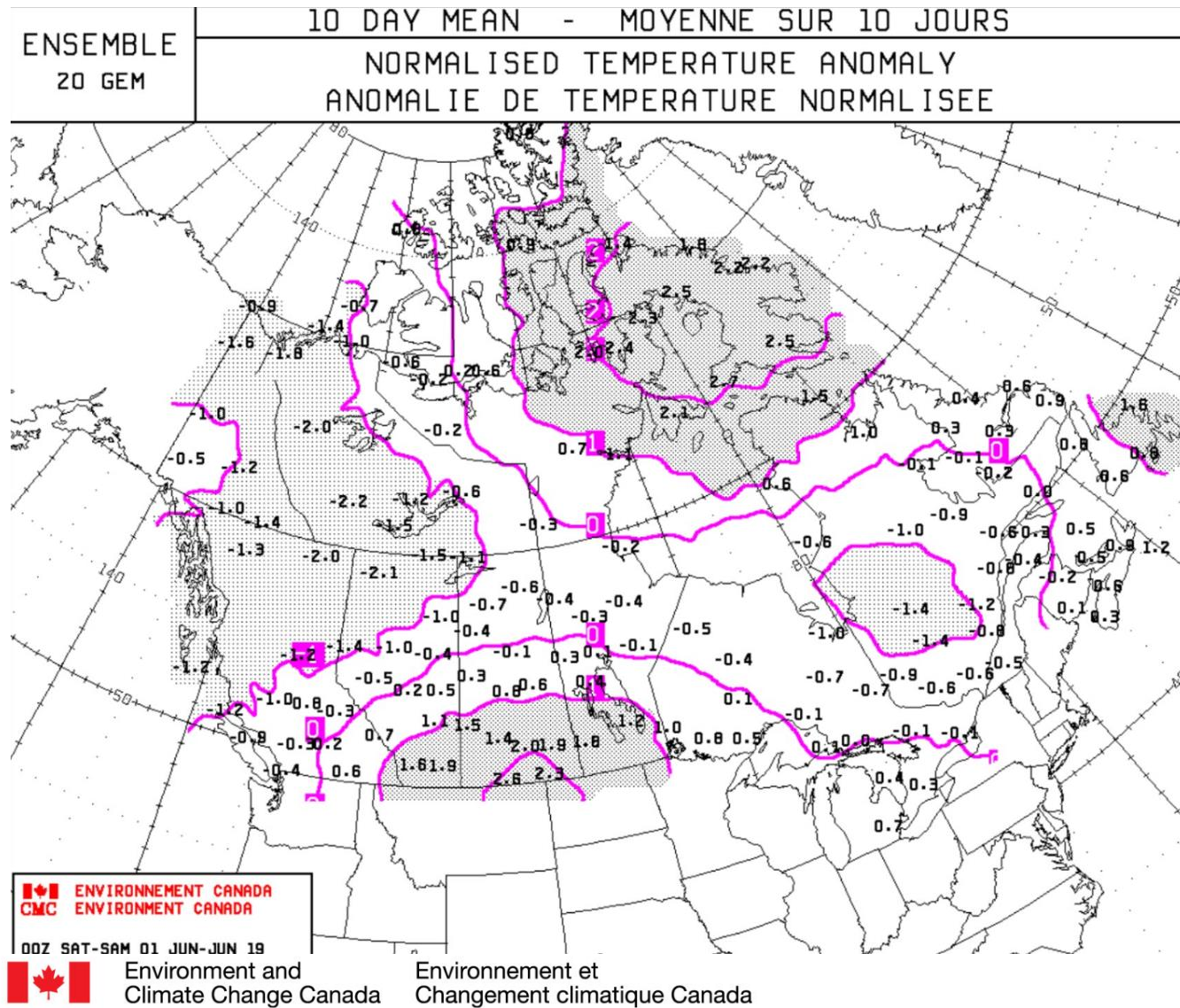


# May 2019 Precipitation departure from 1981-2010 mean.



## Outlook - 10 day mean temperature

(Suggesting near normal conditions (+0.5 to -0.5C))



**10 day  
forecast  
ending  
June 11,  
2019**

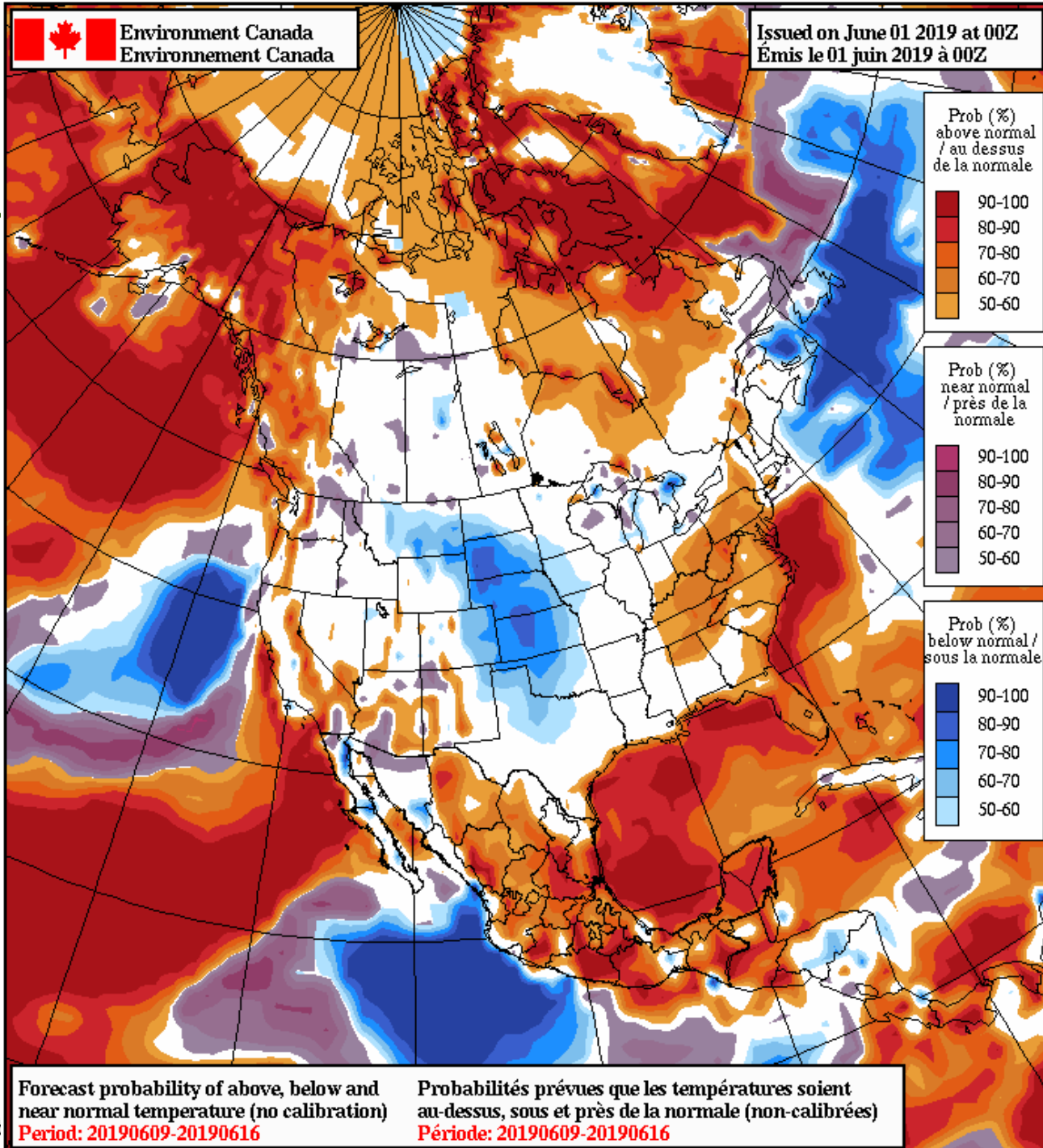
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# Day 8 to 14 Forecast

Period ending  
June 16, 2019

No real conclusive  
Signal (near normal).



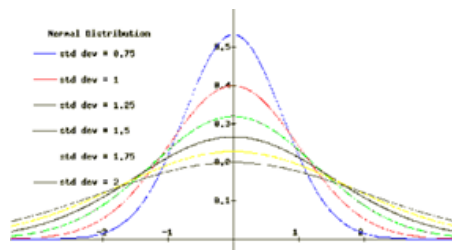


# Fredericton

June  
Normal high: 22.7C  
Normal low: 9.7C

**Next 15 days; ending  
June 16, 2019**

Below normal for the first third of the period, then above normal for the middle third, then a mix of below/above for the last third....overall, near normal.



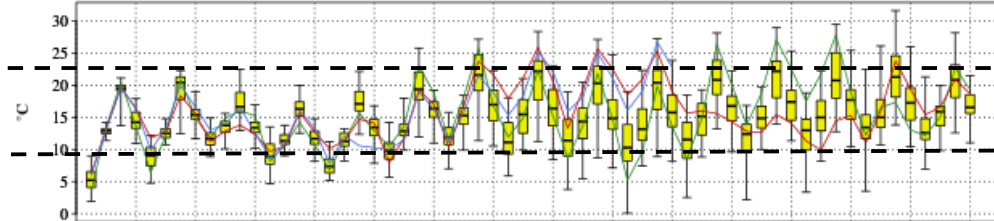
Ensemble and Deterministic Forecasts issued 1 June 2019 00 UTC  
Prévision d'ensemble et déterministe émises le 1 Juin 2019 00 UTC

for/pour

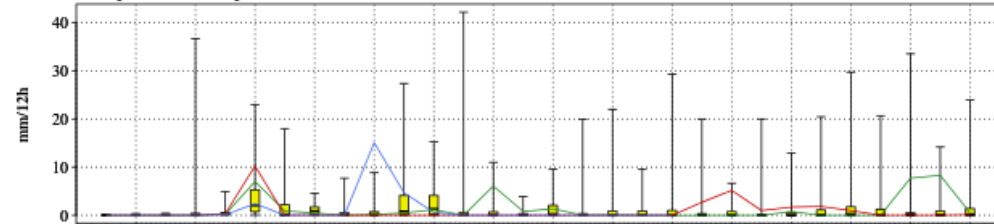
NAEFS / SPENA

**FREDERICTON (YFC) 45.87 N 66.53 W/O**

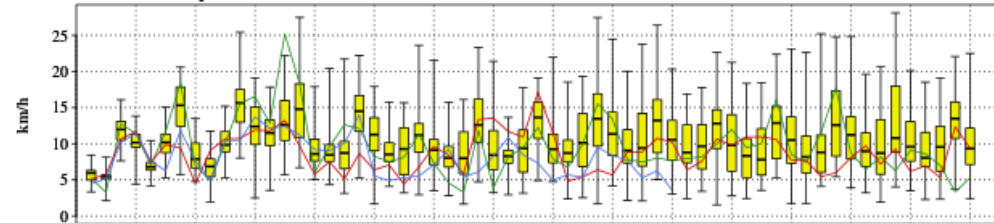
Surface air temperature/Température de l'air à la surface



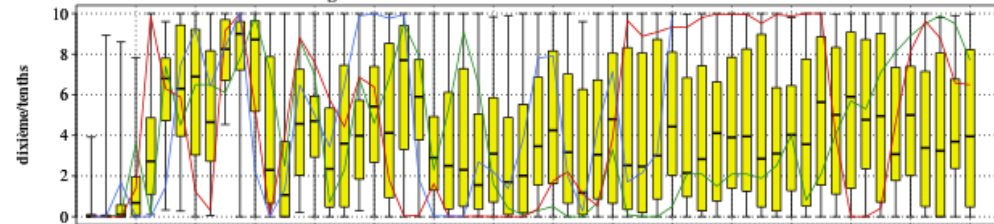
Précipitations/Precipitation



Surface wind speed/Vitesse du vent à la surface



Total cloud cover/Couvert nuageux



June/Juin 2019

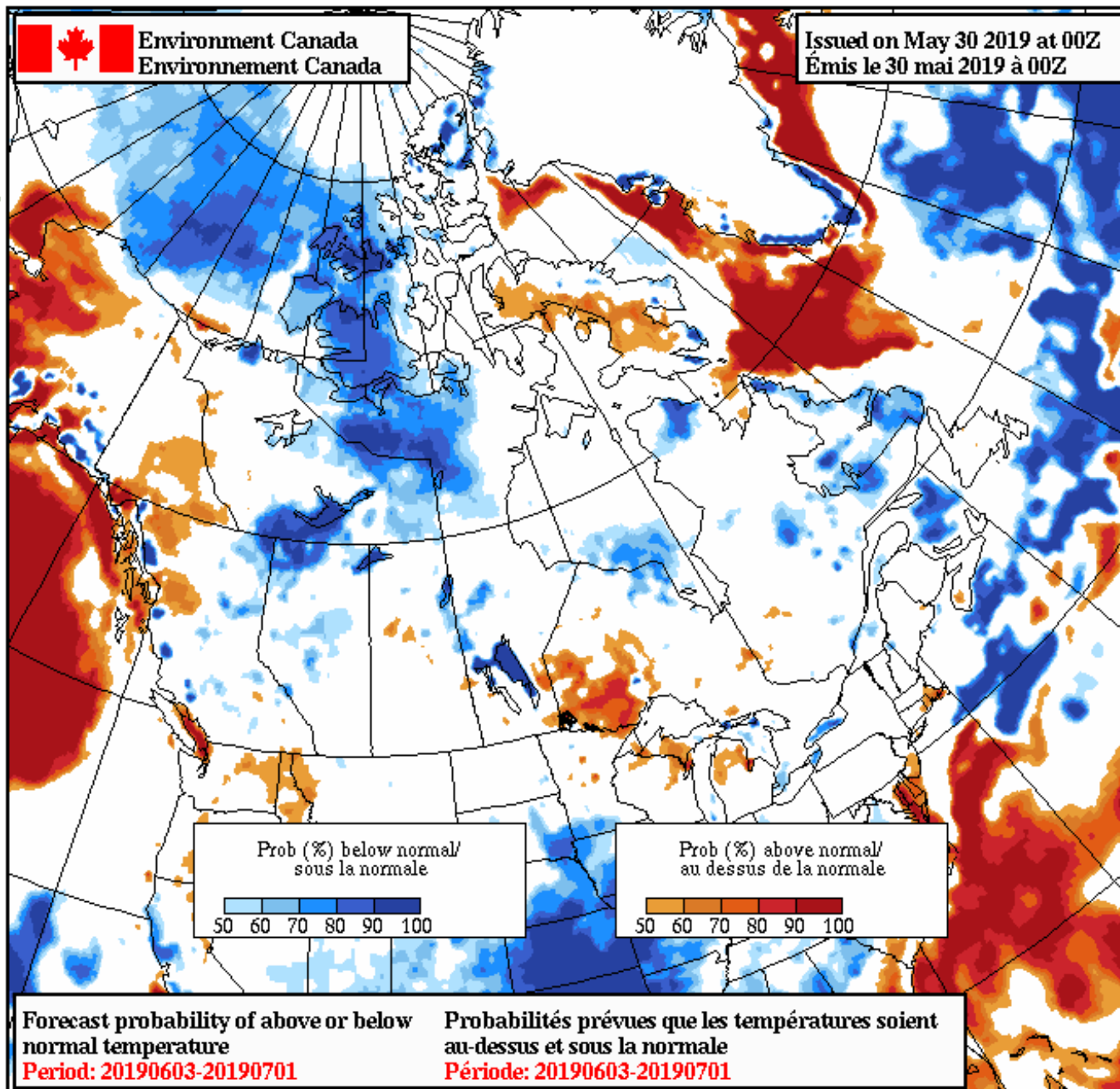
max  
75%  
median/médiane  
25%  
min

Global Model / Modèle global  
Control Member / Membre contrôle CMC  
Control Member / Membre contrôle NCEP



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# Temperature June 3 to July 1

CMC  
Monthly  
Forecast  
Product  
using GEPS  
50km res.



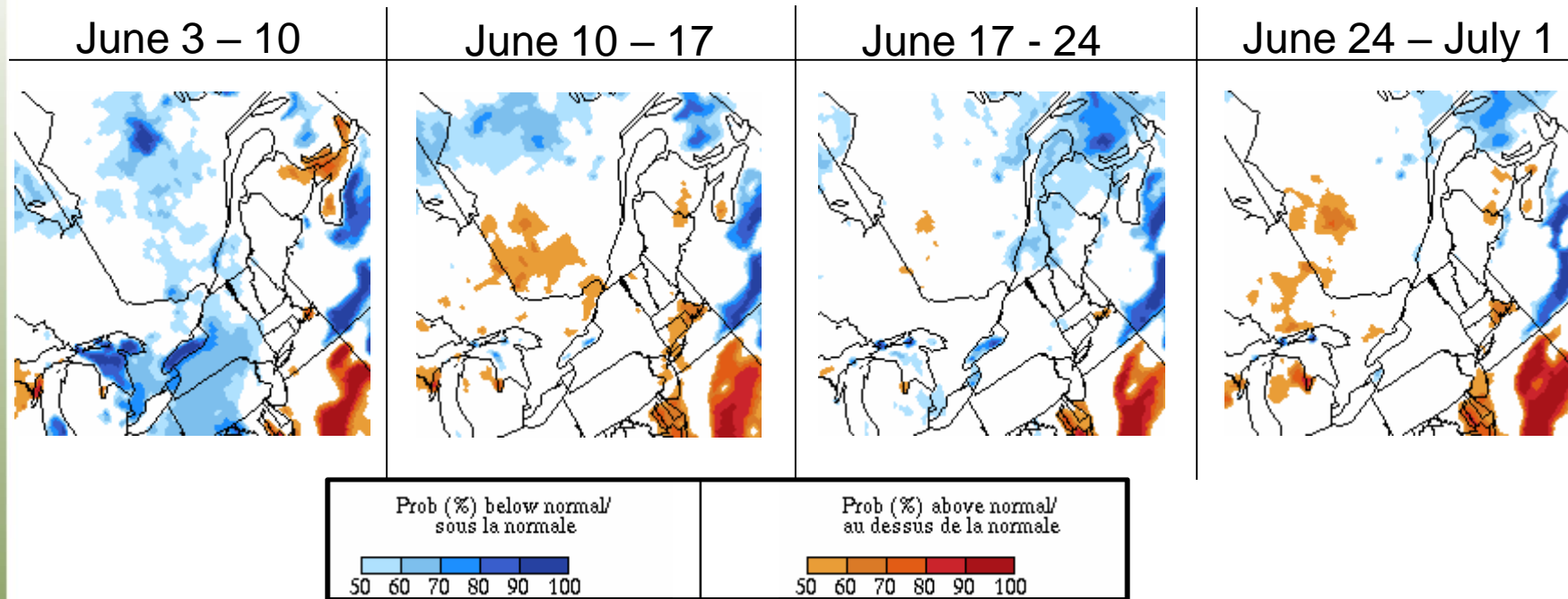
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# Weekly signature from GEPS 50km resolution

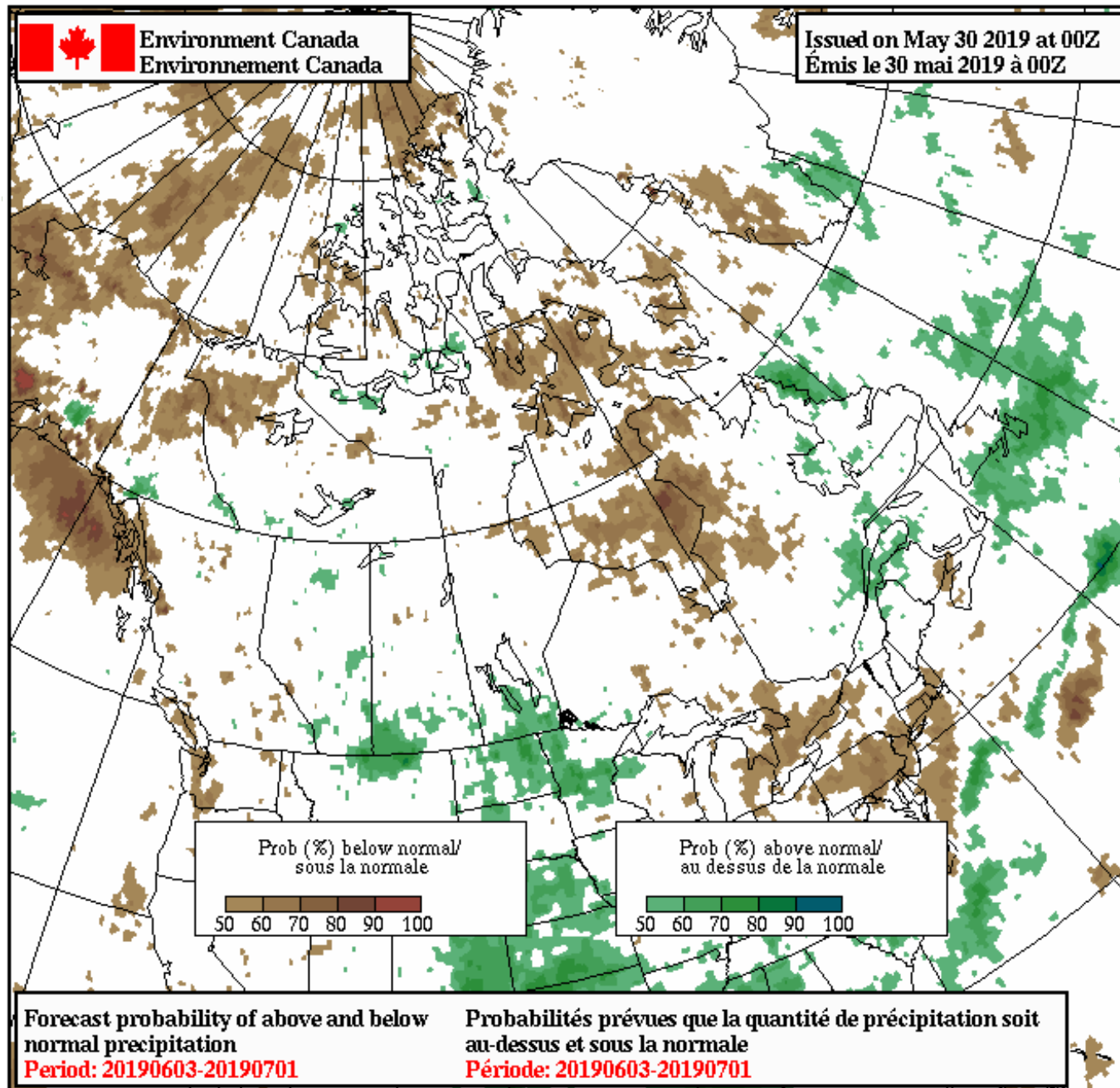


Generally, no conclusive signal. Weeks 1, 2, and 4 are suggesting a weak possibility of slightly above normal through southern sections while week 3 indicates a weak probability of slightly below normal.

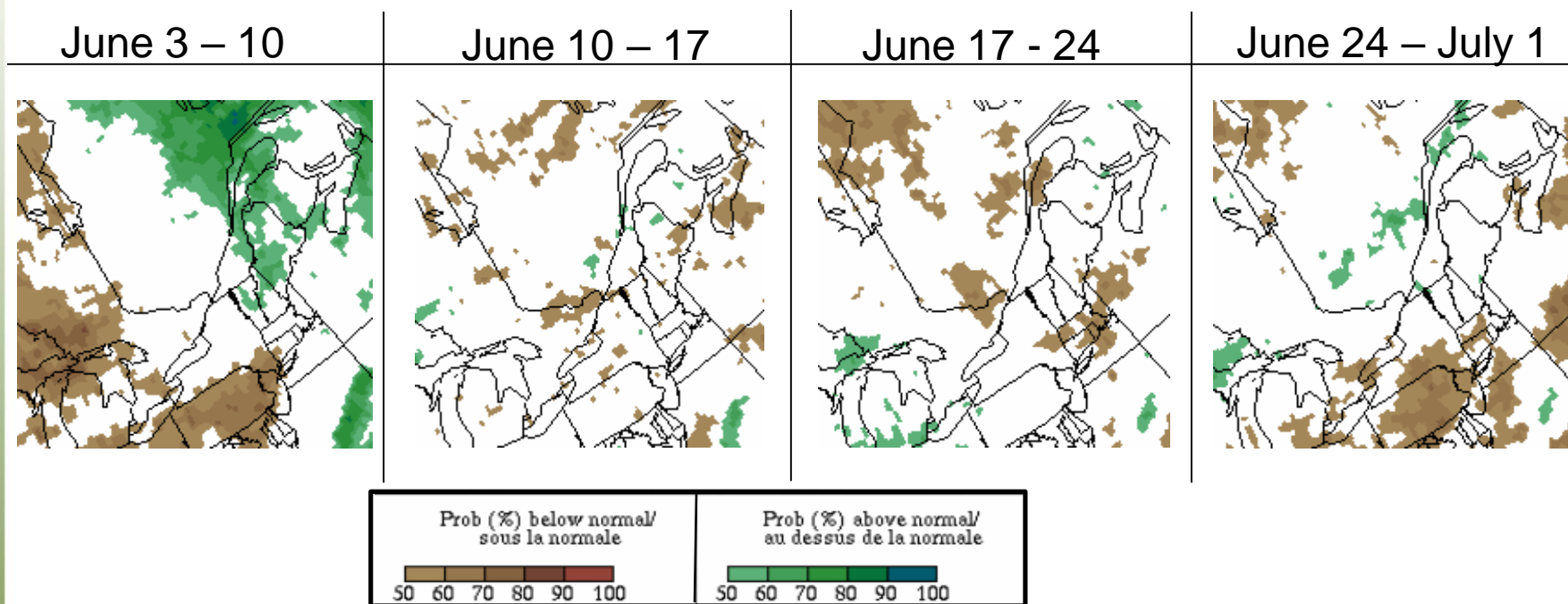


# Precipitation June 3 to July 1

CMC  
Monthly  
Forecast  
Product  
using GEPS  
50km res.



# Weekly signature from GEPS 50km resolution



A weak signal for above normal for the first week and then no real conclusive signal.

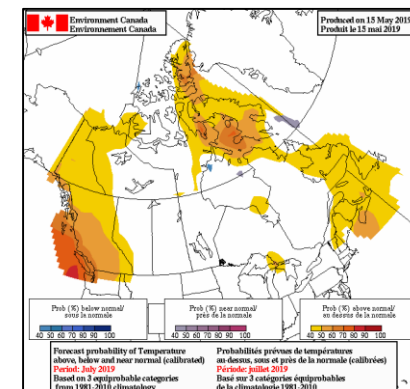


# Temperature July 2019

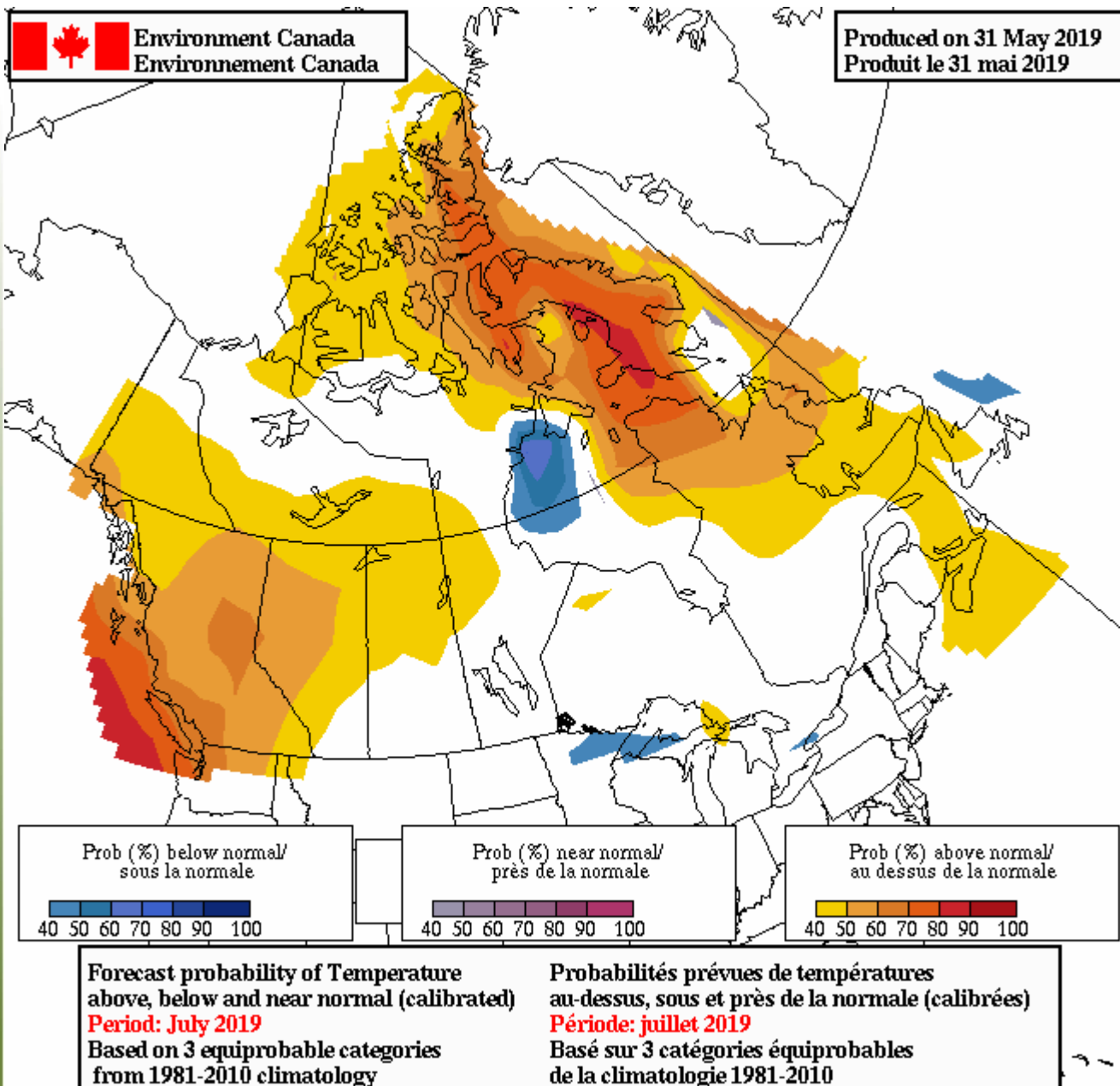
CanSIPS  
(Canadian Seasonal and  
Interannual Prediction  
System)

CanAM3  
CanAM4  
+  
CanOM4

Produced May 15



Canada

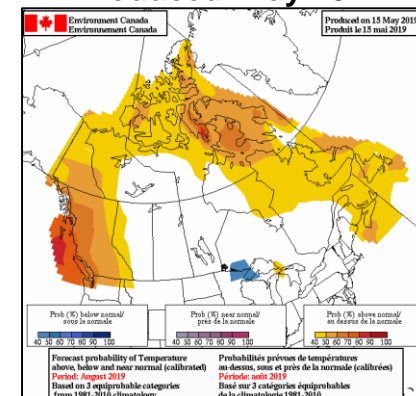


# Temperature August 2019

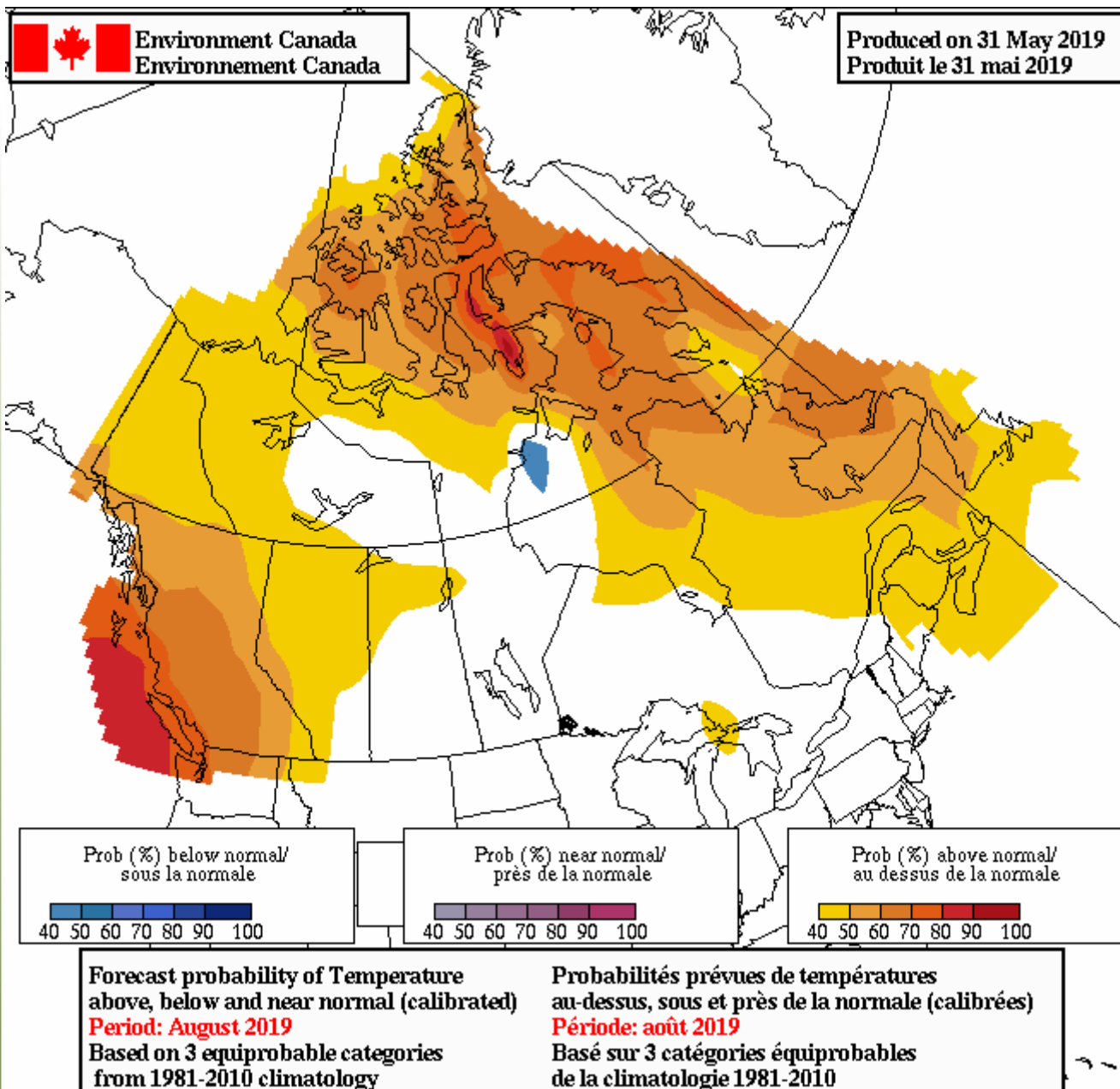
CanSIPS  
(Canadian Seasonal and  
Interannual Prediction  
System)

CanAM3  
CanAM4  
+  
CanOM4

Produced May 15



Canada



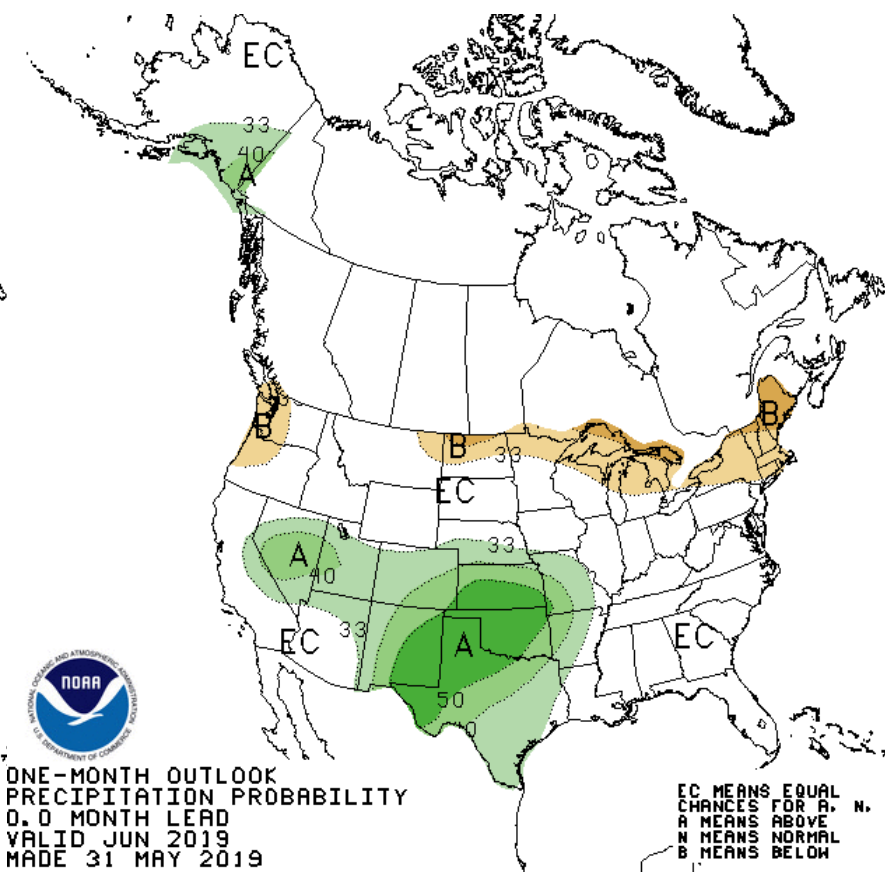
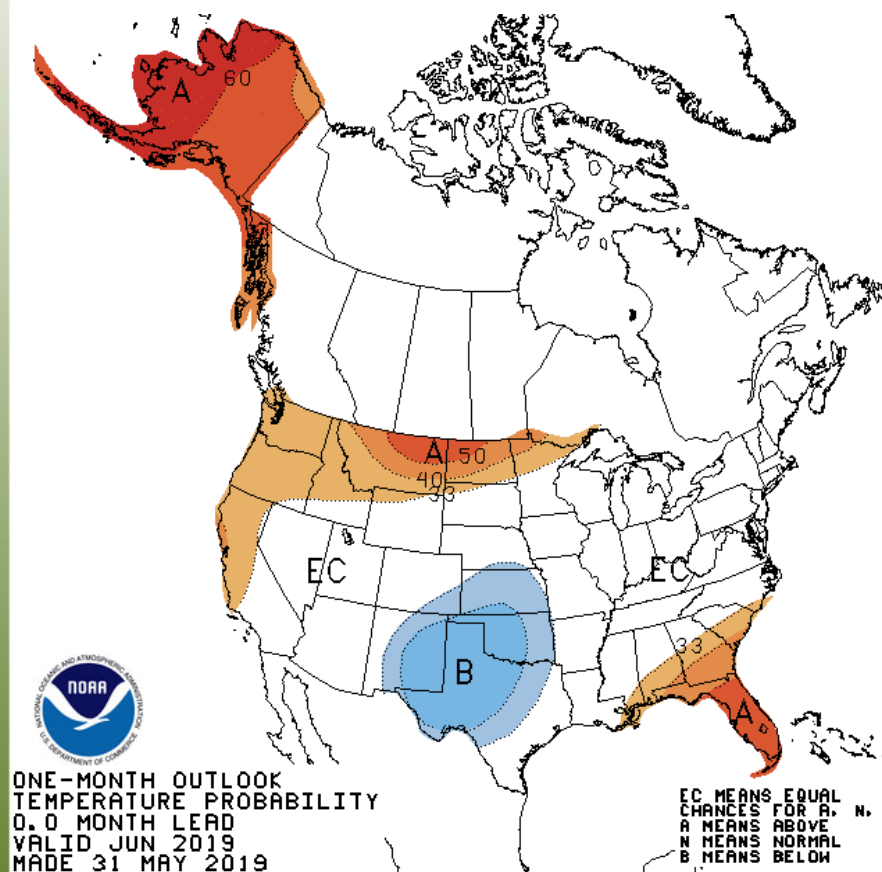




# June 2019

## Temperature

## Precipitation



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# Contact

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Canada Weather Pages

[www.weather.gc.ca](http://www.weather.gc.ca)



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