

New Brunswick

March 2020 Review April 2020 and Winter/Spring Outlook

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Environment and Climate Change Canada
April 2, 2020



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March 2020; 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	-3.4	-4.1	0.7				
BAS CARAQUET	WXS	AU8	-4.3	-4.1	-0.2	100.0	91.2	110	10
BAS CARAQUET		DAILY				77.0	91.2	84	-16
BATHURST A	ZBF	NCA	-4.3	-3.8	-0.5				
BOUCTOUCHE CDA CS	ABT	AU8	-2.8	-3.0	0.2	50.3	93.1	54	-46
CHARLO AUTO	ZCR	AU8	-5.4	-4.9	-0.4	69.4	77.4	90	-10
MIRAMICHI RCS	ACQ	AU8	-3.4	-3.4	0.0				
DOAKTOWN AUTO RCS	ADN	AU8	-3.2	-3.3	0.1	68.6	90.1	76	-24
EDMUNDSTON	ERM	AU8	-6.6	-5.0	-1.6	82.8			
FREDERICTON INTL A	YFC	NCA	-1.6	-2.4	0.8				
FREDERICTON CDA CS	AFC	AU8	-1.5	-2.2	0.7	47.2	90.1	52	-48
GAGETOWN AWOS A	YCX	AU5	-1.6	-1.8	0.2				
GRAND MANAN SAR CS	XGM	AU8	0.7						
KOUCHIBOUGUAC	AKC	AU8	-2.9	-3.2	0.2				
MECHANIC SETTLEMENT	AMS	AU8	-2.8			94.2			
MISCOU ISLAND (AUT)	WMI	AU8	-4.0						
MONCTON INTL A	YQM	NCH	-2.0	-2.9	0.9	44.7	115.6	39	-61
OAK POINT		DAILY	-0.7	-1.8	1.1	53.6	100.7	53	-47
POINT LEPREAU CS	WPE	AU8	0.8	-1.5	2.3	47.6	130.1	37	-63
RED PINES	ARP	AU8	-4.7	-4.2	-0.5	73.4	73.1	100	0
SAINT JOHN A	YSJ	NCH	-0.6	-2.5	1.9	46.2	108.2	43	-57
SUSSEX FOUR CORNERS	ASF	AU8	-1.0	-1.9	0.8	39.6	114.7	35	-65
WOODSTOCK		DAILY	-2.3	-3.4	1.1	60.4	91.2	66	-34
WOODSTOCK NEWBRIDGE	EWD	AU8	-2.9	-3.4	0.5	60.8	91.2	67	-33
Average			-2.6	-3.1	0.4	63.5	97.0	65	-35
Max			0.8	-1.5	2.3	100.0	130.1	110	10
Min			-6.6	-5.0	-1.6	39.6	73.1	35	-65

Highlights:

The average temperature anomaly was slightly above normal (+0.4C). Most sites reported near normal anomalies with some below normal in the north and some above normal in the south.

Total precipitation amounts were much below normal, with an average of 65% of total precipitation. Sussex was the driest with under 40 mm or 35% of their normal precipitation. However, precipitation was slightly above normal in the portions of the north.

March 2020; Climate Summary

Events:

March 1; Snow event. A slow-moving trough brought snow (5-15cm) to eastern coastal regions of the province. The Shediac area reported the most snow at 15 cm.

March 3-4; Mostly snow event. As a low pressure system crossed southern portions of the province, most areas saw rain but some northern regions received snow. The St.-Quentin area reported 25 cm.

March 10-11; Mixed precipitation event. Snow fell in the north and freezing rain invaded central/southern regions. The Edmundston area received 20 cm of snow.

March 13; Mixed precipitation event. Snow fell in the north and rain affected the south. The Edmundston area reported 19 cm of snow while the St. Stephen area received 32 mm of rain.

Days of month with lightning in New Brunswick; 13 (one day)

Day of month with temperature record broken or tied in New Brunswick; 3 22 23
(red=maximum, blue=minimum)



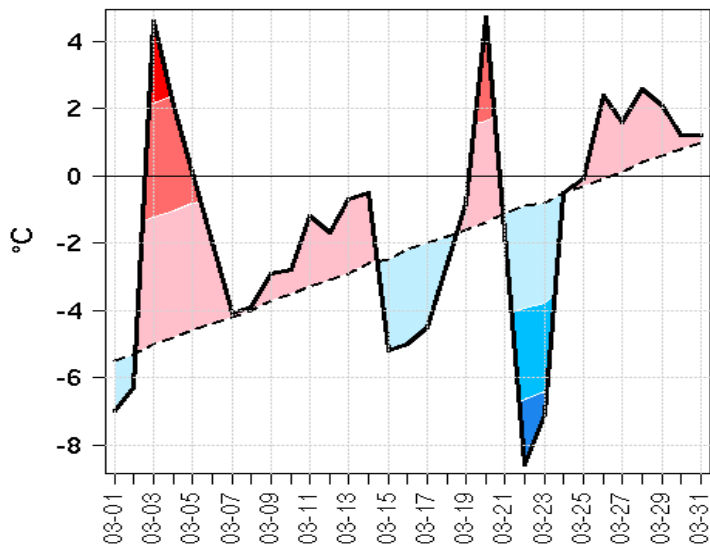
March 2020; Provincial Climate Extremes

Parameter	Value	ECCEC Station	Day of month
Daily Maximum Temperature	+11.3 °C	Grand Manan	3
Daily Minimum Temperature	-27.4 °C	Edmundston	2
Maximum Daily Total Precipitation	36.4 mm	Mechanic Settlement	13
Daily Maximum Wind Gust	95 km/h	Sussex	13
Daily Minimum Wind Chill	-31	Edmundston	16

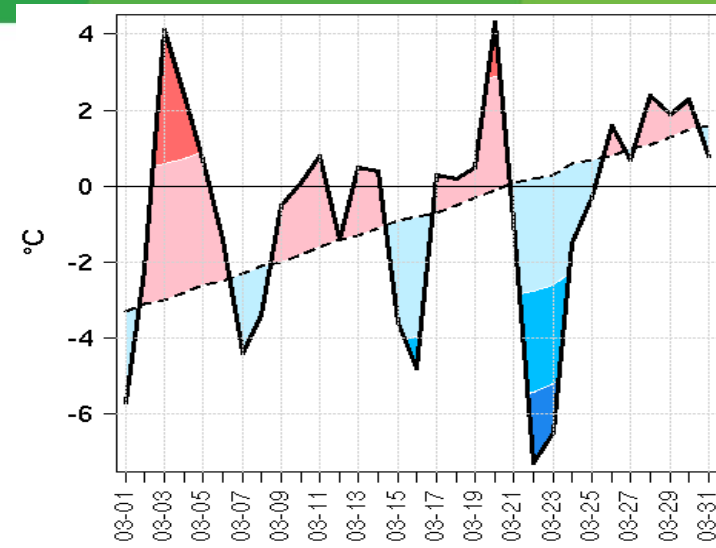


March 2020 - Temperature

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



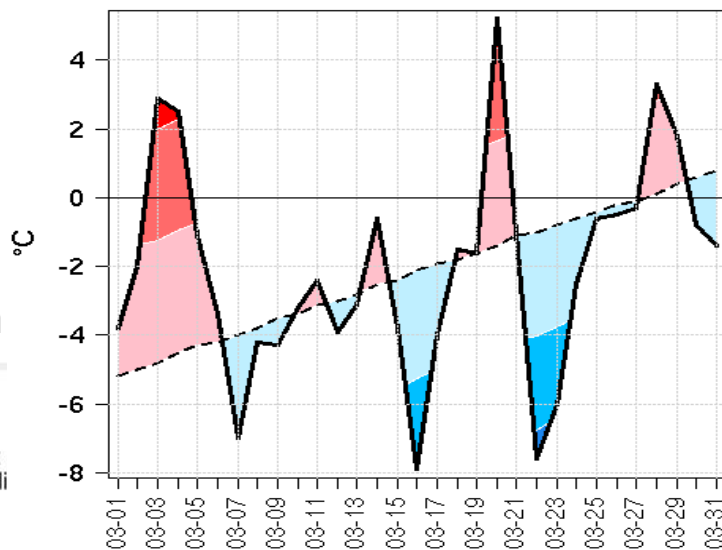
Fredericton



Saint John

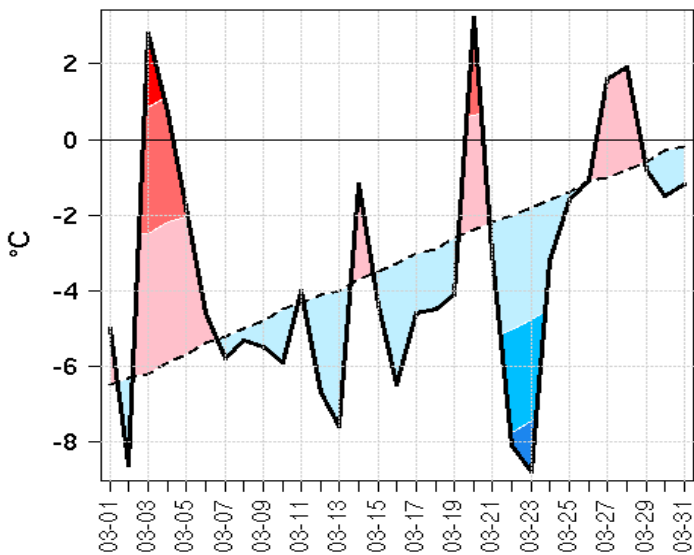
All sites were above normal

Moncton



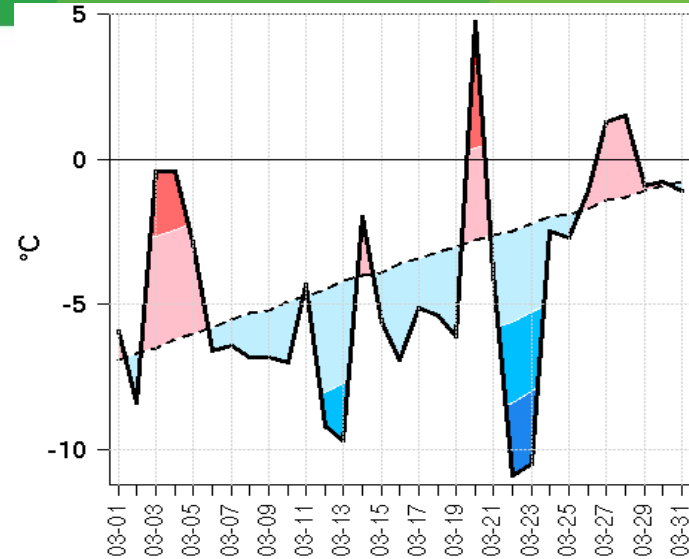
March 2020 - Temperature

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

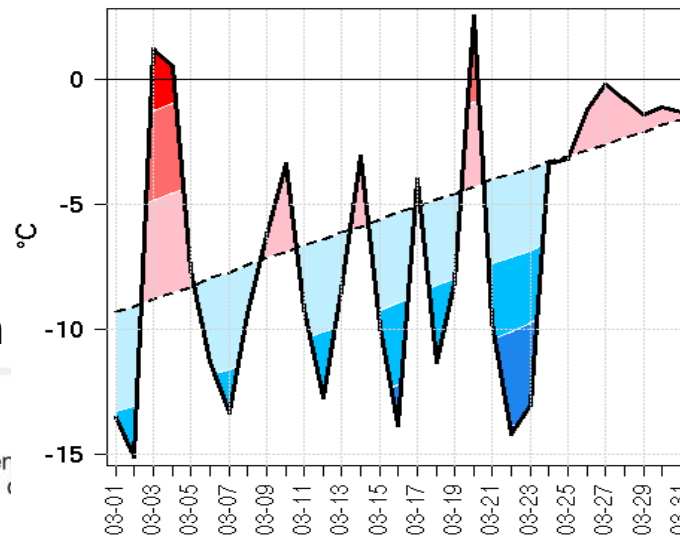


Miramichi

Miramichi was normal



Bathurst



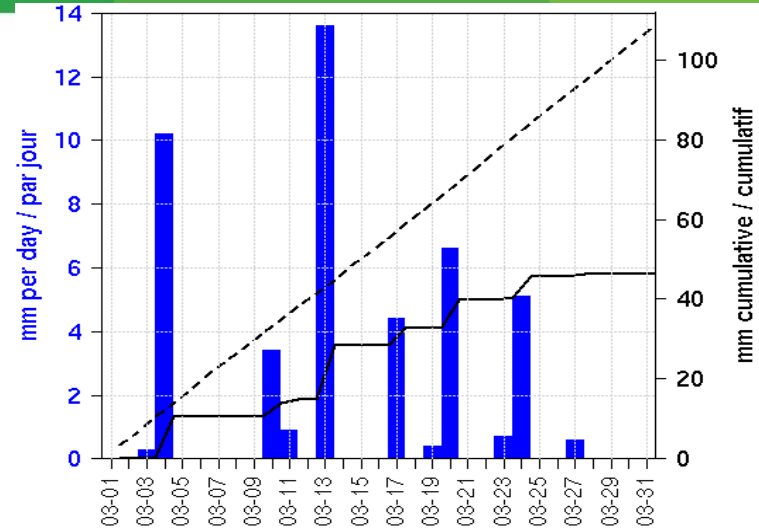
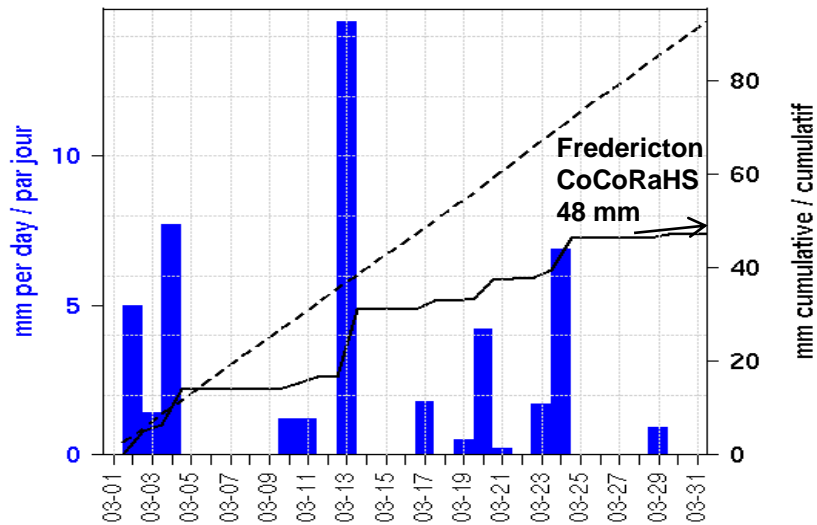
Edmundston

Edmundston and Bathurst were below normal



March 2020 - Precipitation

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

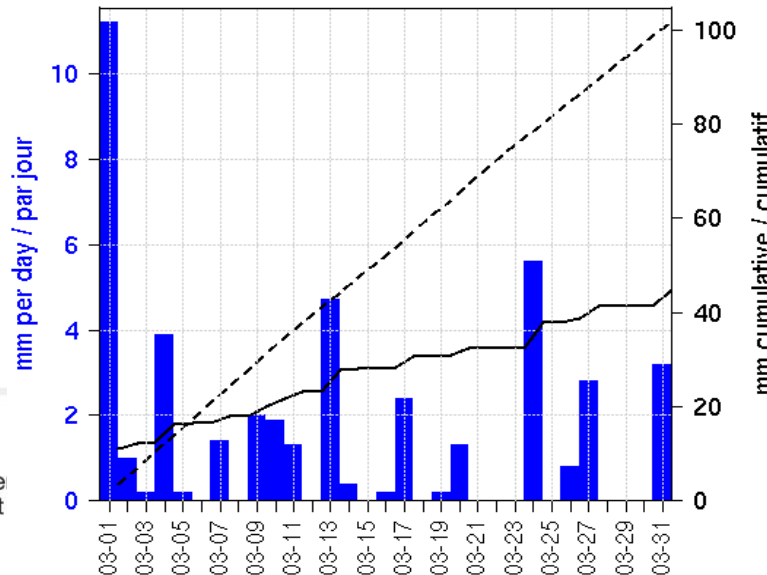


Fredericton (and area)

Saint John

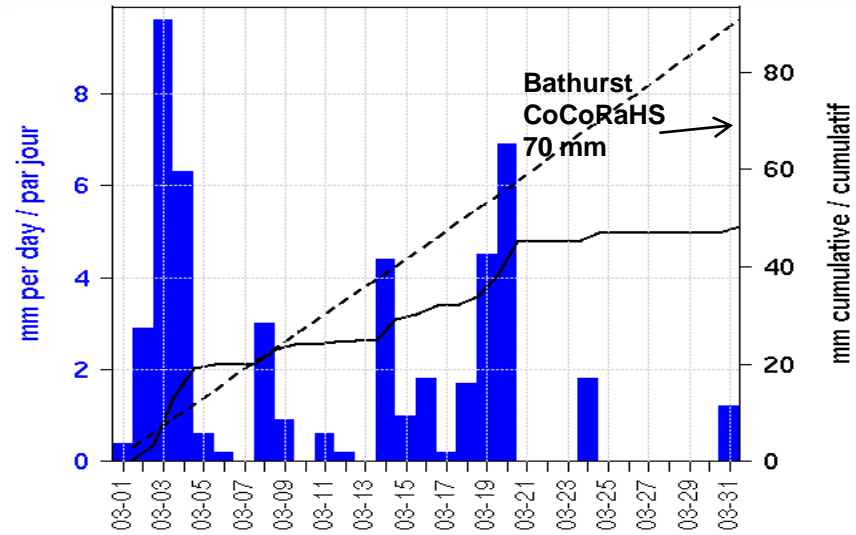
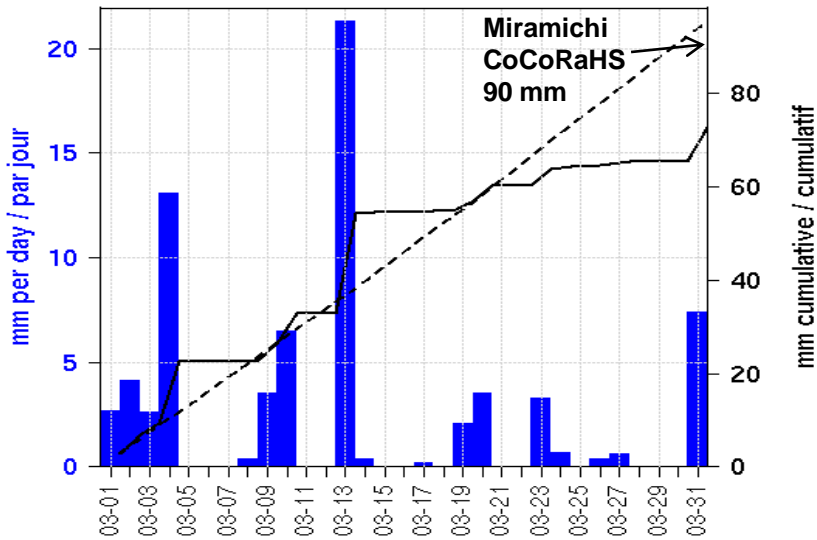
All sites were below normal

Moncton



March 2020 - Precipitation

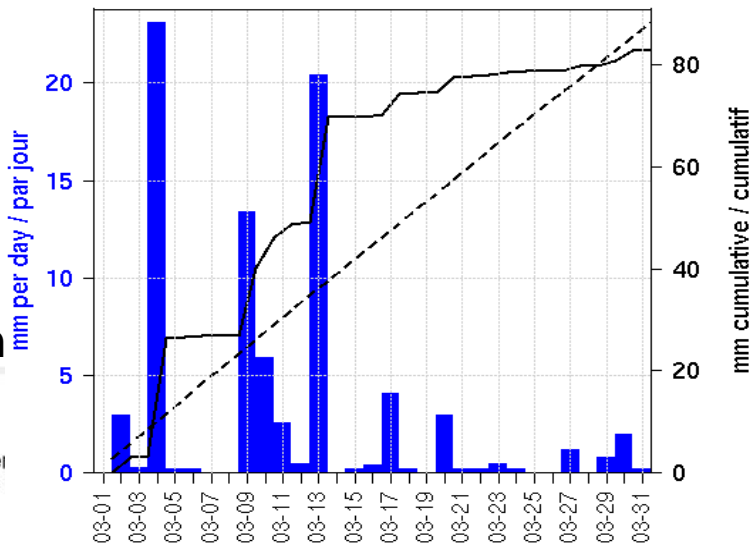
Observed Cumulative Precipitation (line) versus Normal (dashed line) and Daily Amounts (bars)



Miramichi

Bathurst and
Miramichi were
below normal

Edmundston



Edmundston
was near normal

Bathurst

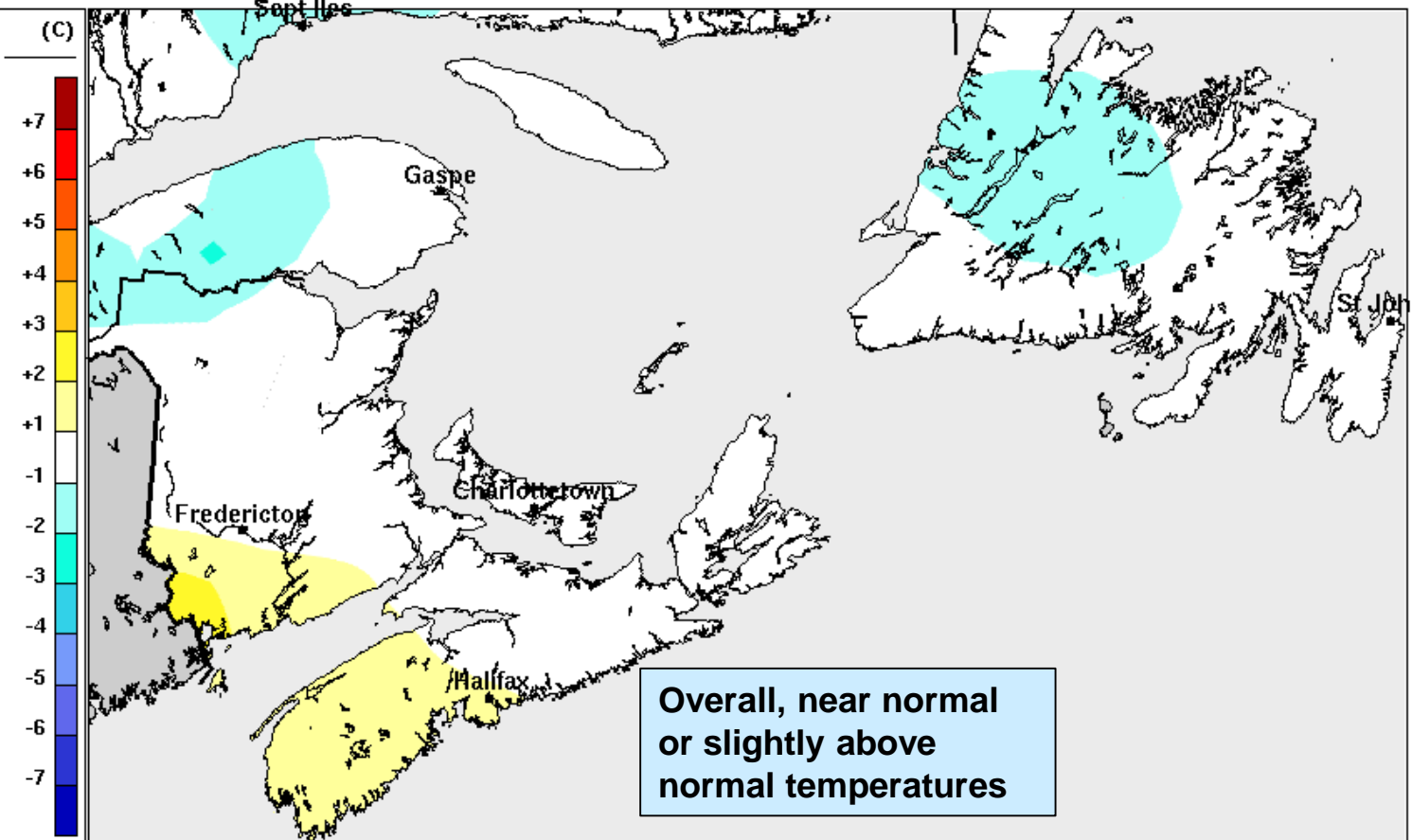


March 2020 – Temperature departure from 1981-2010 mean

Temperature Anomaly: 202003
Anomalie de température: 202003



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ECCC Climate Archives data / Données des Archives Climatiques de ECCC. Cim: 1981-2010



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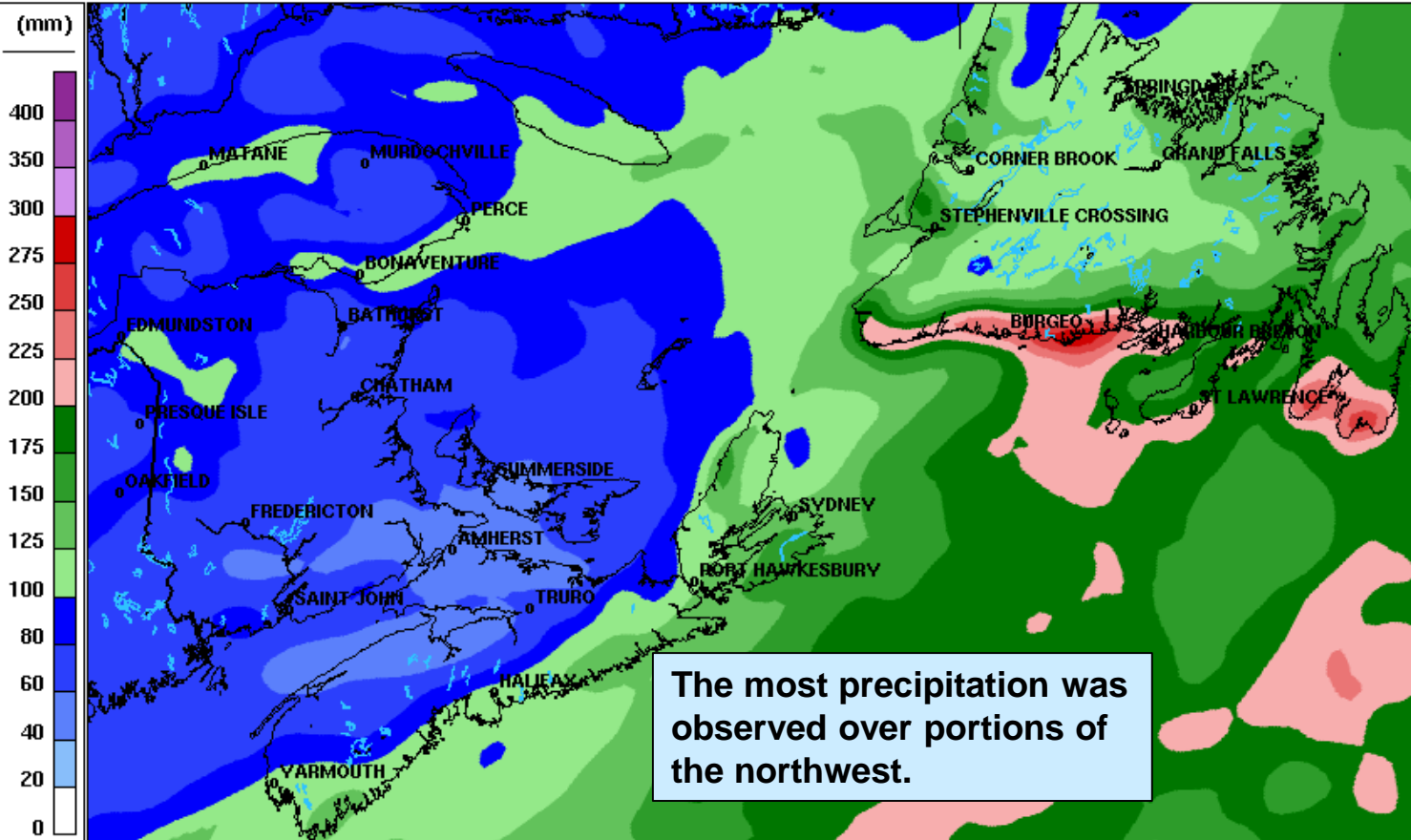
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March 2020 – Total precipitation

Total precipitation: 202003
Précipitation totale: 202003



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ECCC NWP model gridded data / Données sur grille de modèle de PNT de ECCC



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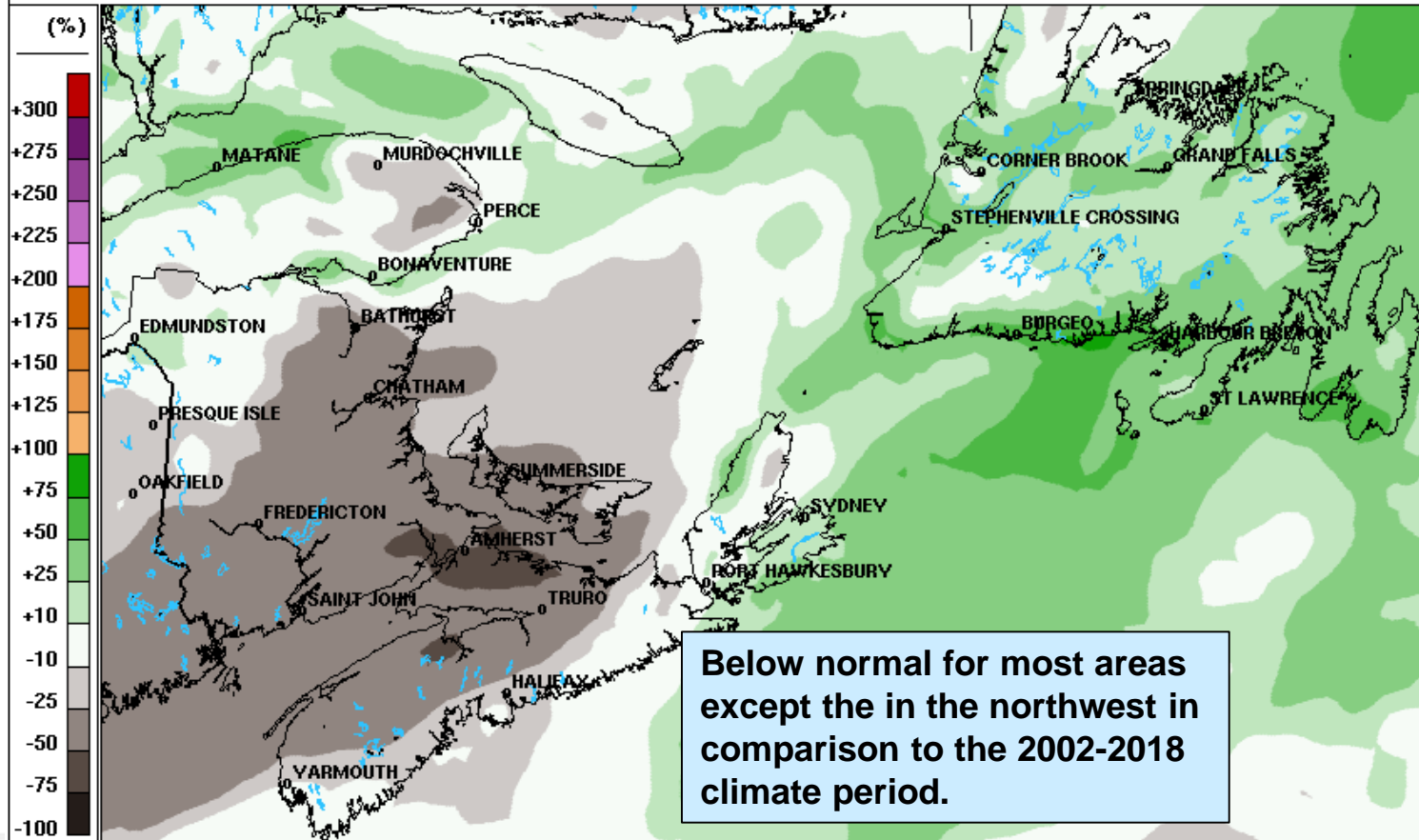
Canada

March 2020 – Precipitation departure from 2002-2018 mean

Precipitation Relative Anomaly: 202003
Anomalie relative de précipitation: 202003



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Government of Canada



ECCC NWP model gridded data / Données sur grille de modèle de PNT de ECCC. Cim: 2002-2018

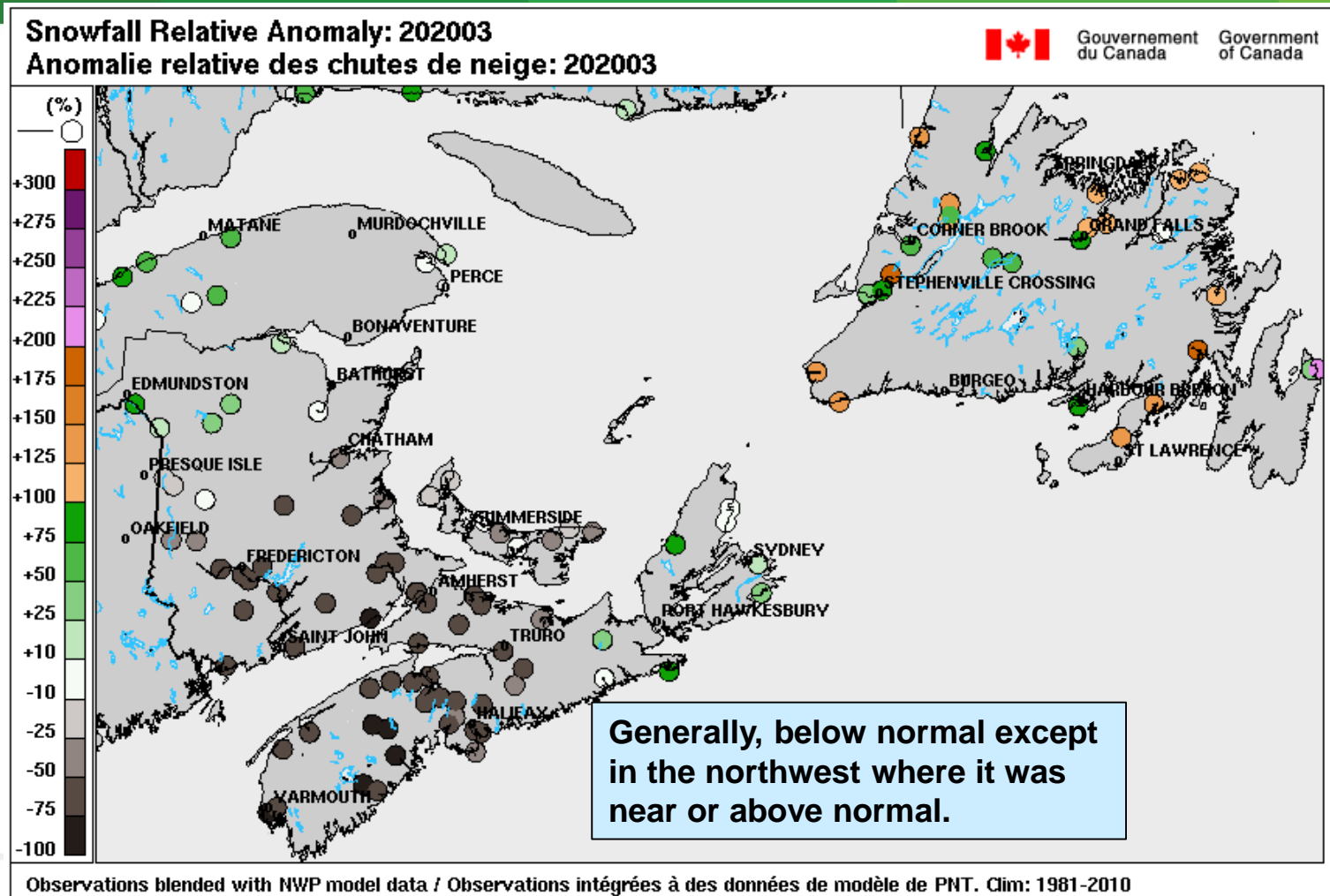


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March 2020 – Snowfall departure from 1981-2010 mean



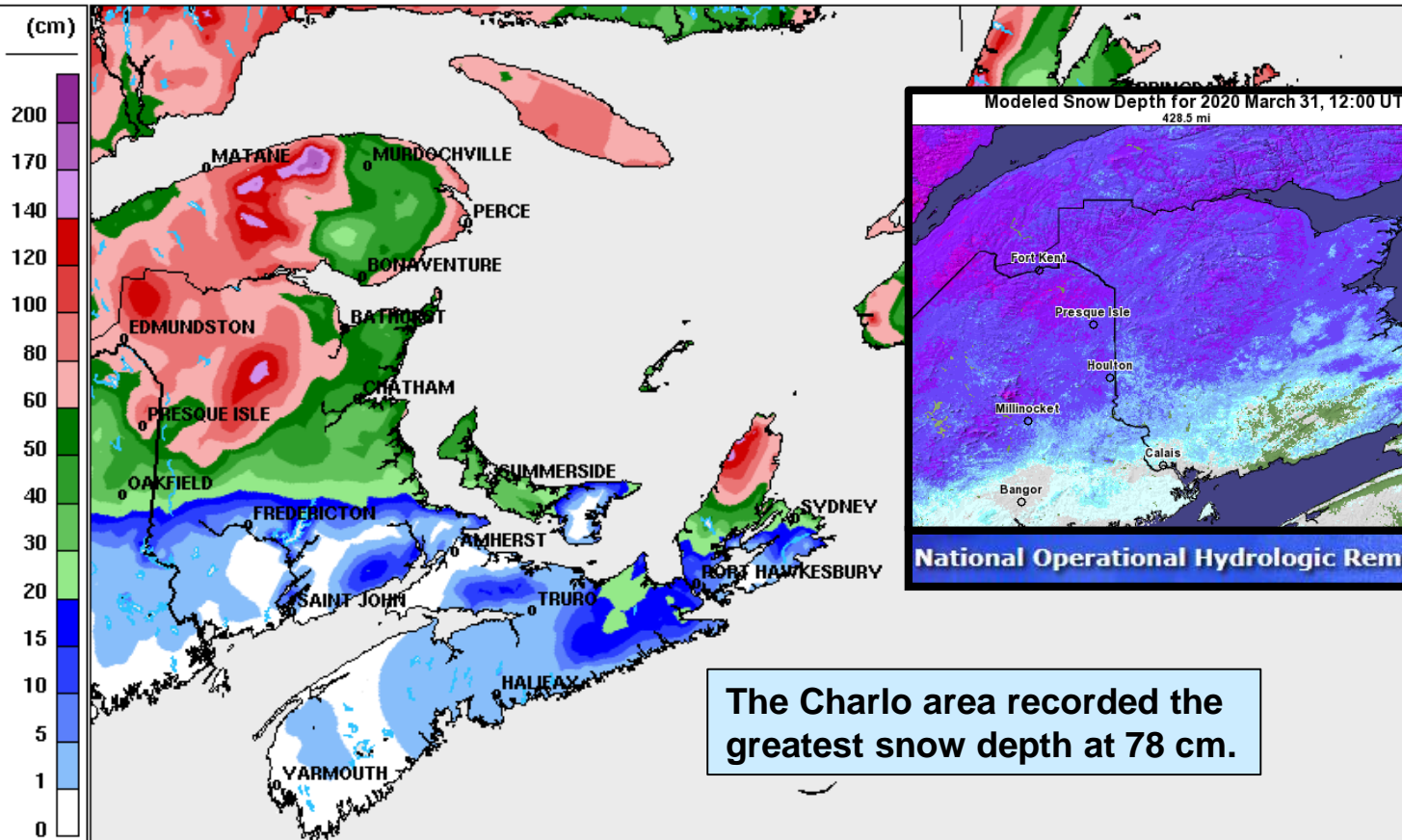
March 2020 – Snow depth at month end

Extracted from Canadian computer model

Snow Depth (end of month): 202003
Neige au sol (fin de mois): 202003



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The Charlo area recorded the greatest snow depth at 78 cm.

ECCC NWP model data / Données de modèle de PNT d'ECCC.



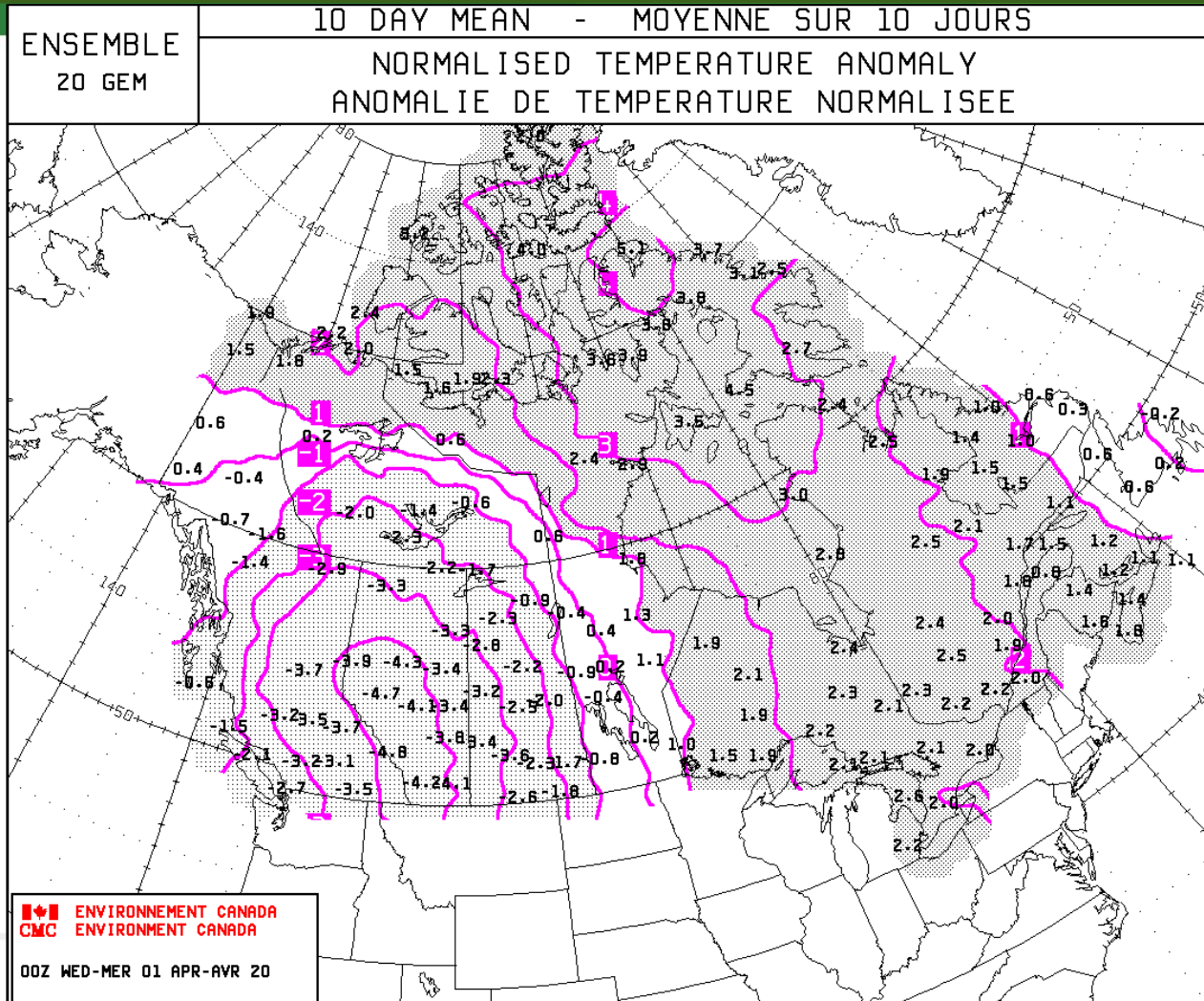
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Outlook – 10 day mean temperature

(Suggesting above normal conditions (+1.2 to +1.7°C))



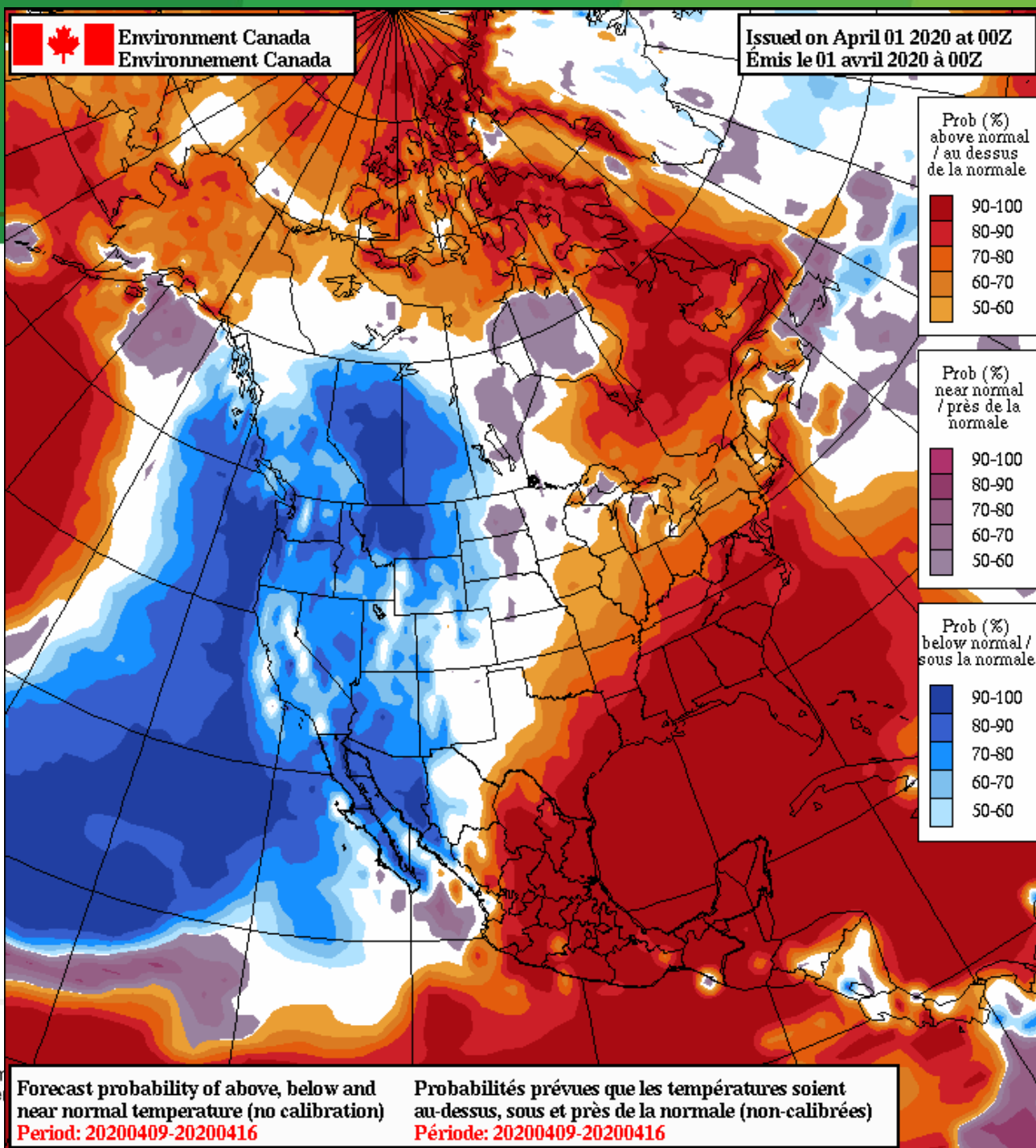
10 day
forecast
ending
April 11,
2020



Day 8 to 14 Forecast

**Period ending
April 16, 2020**

Weak signal of above normal with a weak signal of near normal in the southeast.





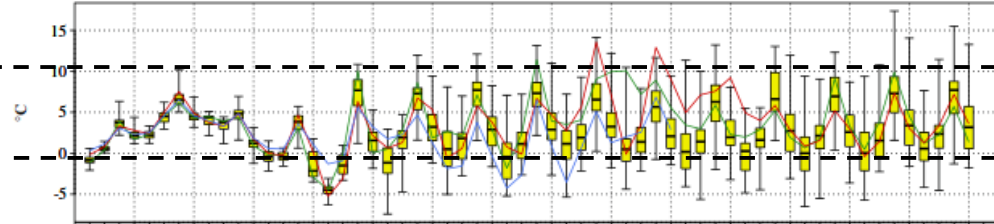
Fredericton

Ensemble and Deterministic Forecasts issued 1 April 2020 00 UTC
Prévision d'ensemble et déterministe émises le 1 Avril 2020 00 UTC
for/pour

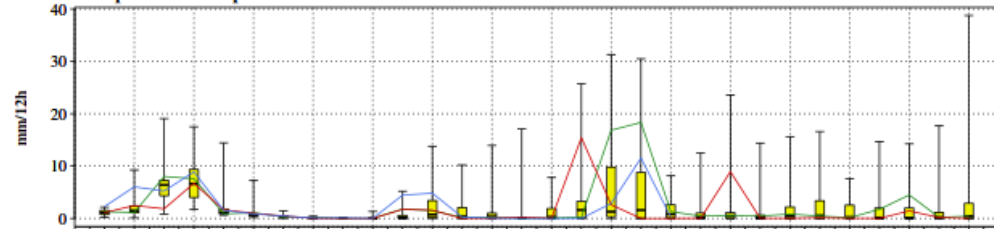
NAEFS / SPENA

FREDERICTON (YFC) 45.87 N 66.53 W/O
Surface air temperature/Température de l'air à la surface

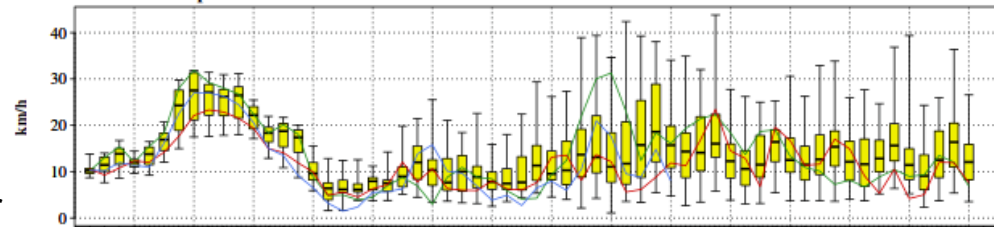
Normal high: +10.0C
Normal low: -1.0C
April



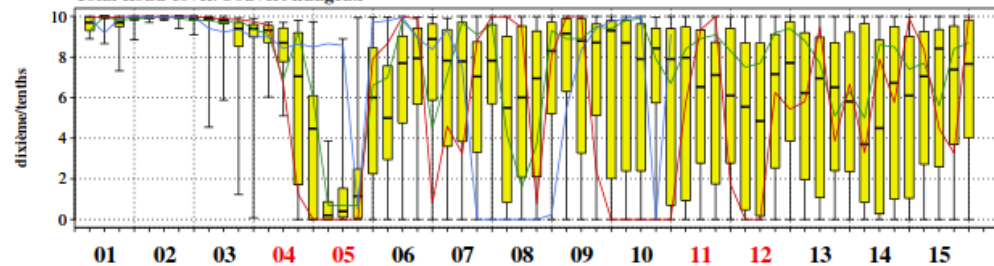
Précipitations/Precipitation



Surface wind speed/Vitesse du vent à la surface

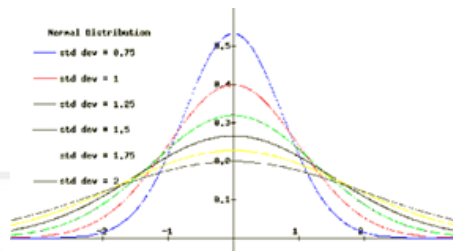


Total cloud cover/Couvert nuageux



**Next 15 days; ending
April 16, 2020**

Below normal maximum temperatures for most of the period with the exception of the 9th and 10th with above normal minimum temperatures for the first few days of the period and then generally near normal for the remainder of the period.

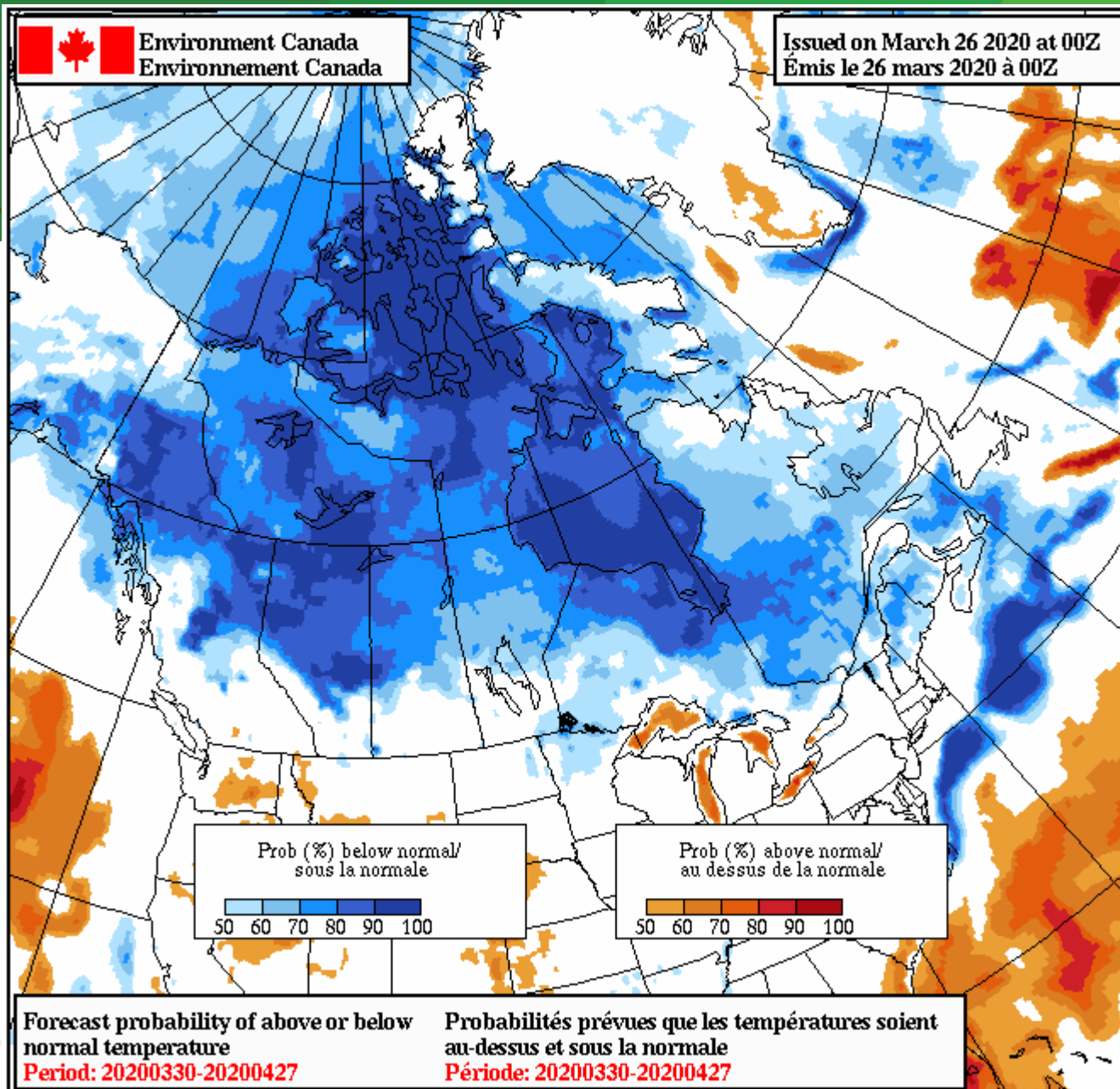


April/Avril 2020

max
75%
median/médiane
25%
min

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

Temperature March 30 to April 27



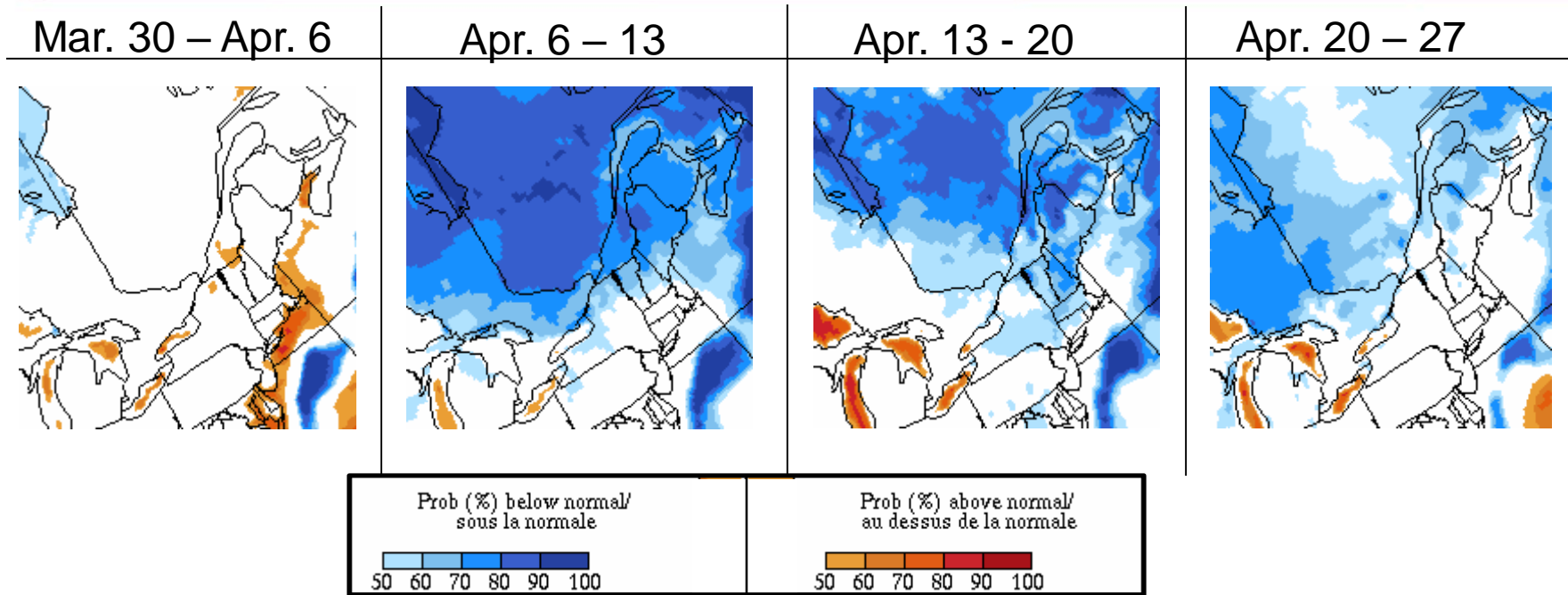
CMC
Monthly
Forecast
Product
using GEPS
50km res.

Forecast probability of above or below
normal temperature
Period: 20200330-20200427

Probabilités prévues que les températures soient
au-dessus et sous la normale
Période: 20200330-20200427



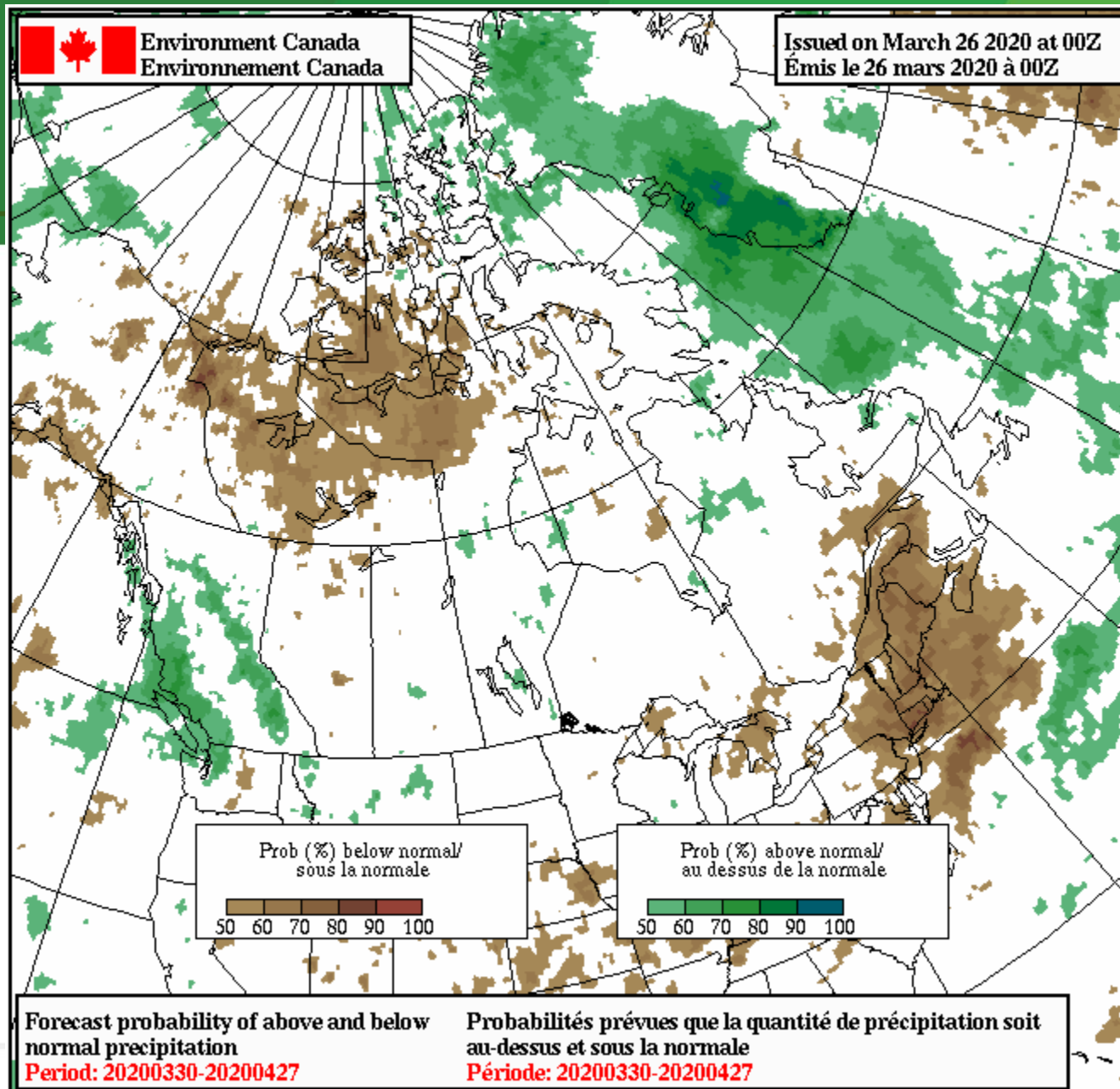
Weekly signature from GEPS 50km resolution



Generally, there is a weak to moderate signal of below normal for the period with the exception of the first week where there is no conclusive signal (near normal).

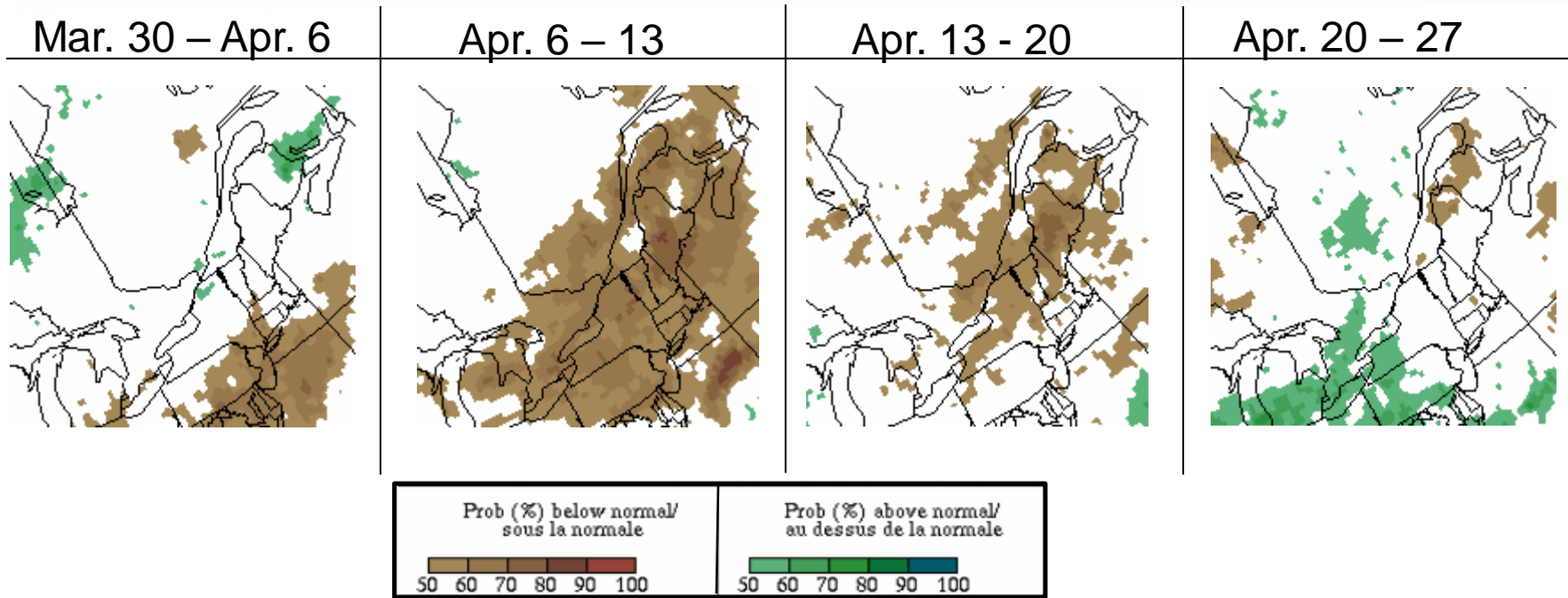


Precipitation March 30 to April 27



CMC
Monthly
Forecast
Product
using GEPS
50km res.

Weekly signature from GEPS 50km resolution



A weak signal of above normal for eastern areas the first week then weak signals of below normal for most areas for the remainder of the period.





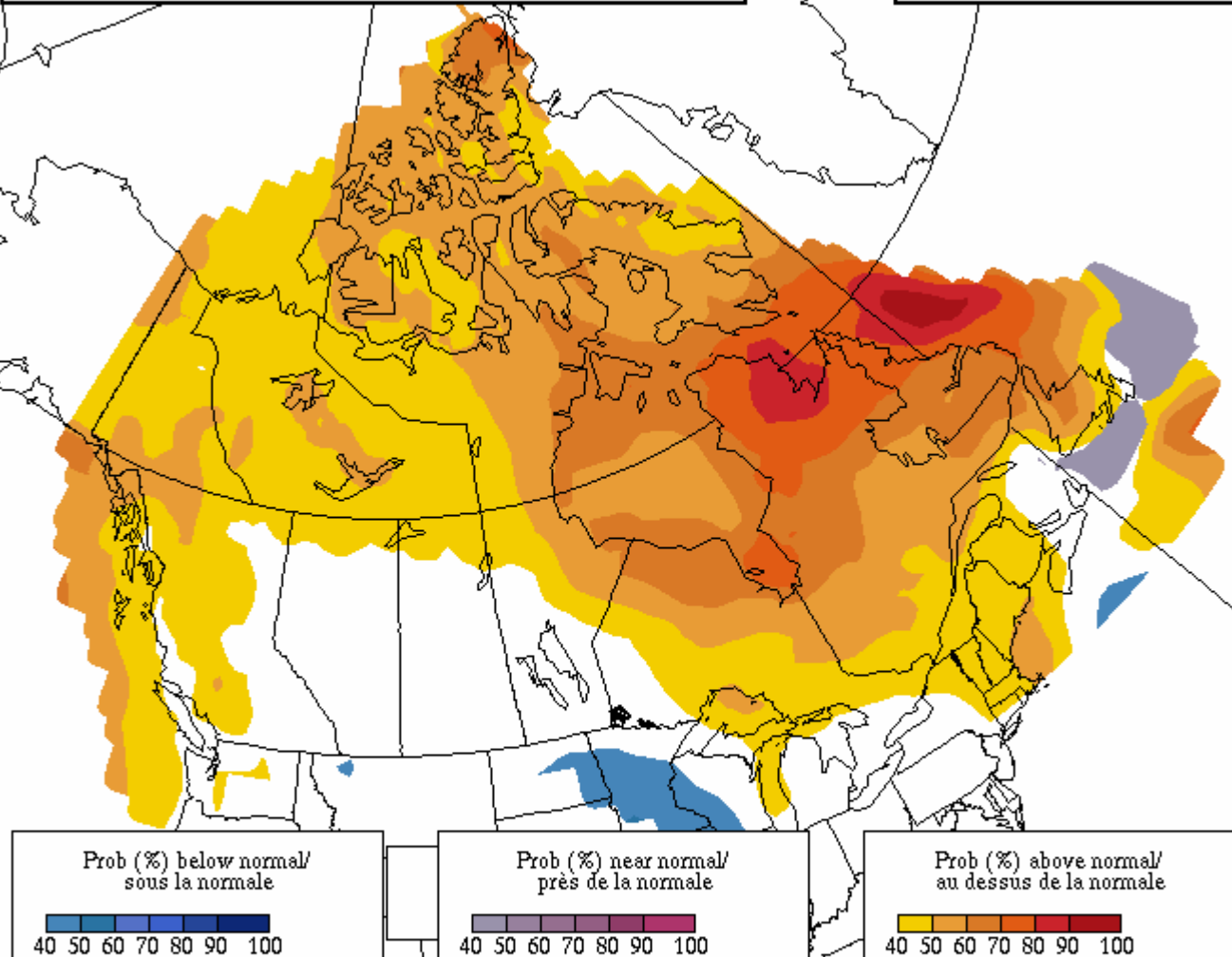
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Produced on 31 March 2020
Produit le 31 mars 2020

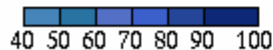
Temperature May 2020

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

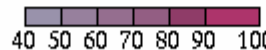
Produced March 15



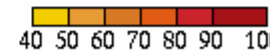
Prob (%) below normal/
sous la normale



Prob (%) near normal/
près de la normale



Prob (%) above normal/
au dessus de la normale



Forecast probability of Temperature
above, below and near normal (calibrated)

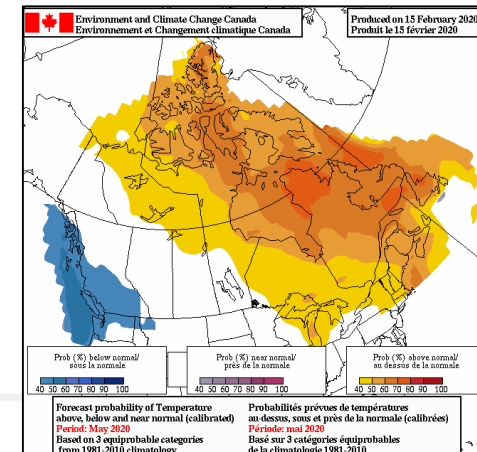
Period: May 2020

Based on 3 equiprobable categories
from 1981-2010 climatology

Probabilités prévues de températures
au-dessus, sous et près de la normale (calibrées)

Période: mai 2020

Basé sur 3 catégories équiprobables
de la climatologie 1981-2010



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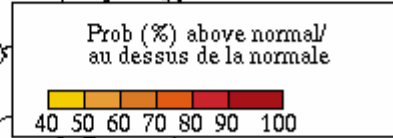
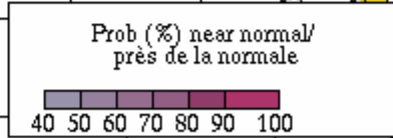
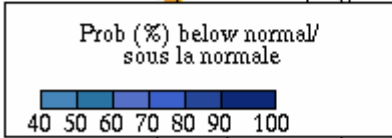
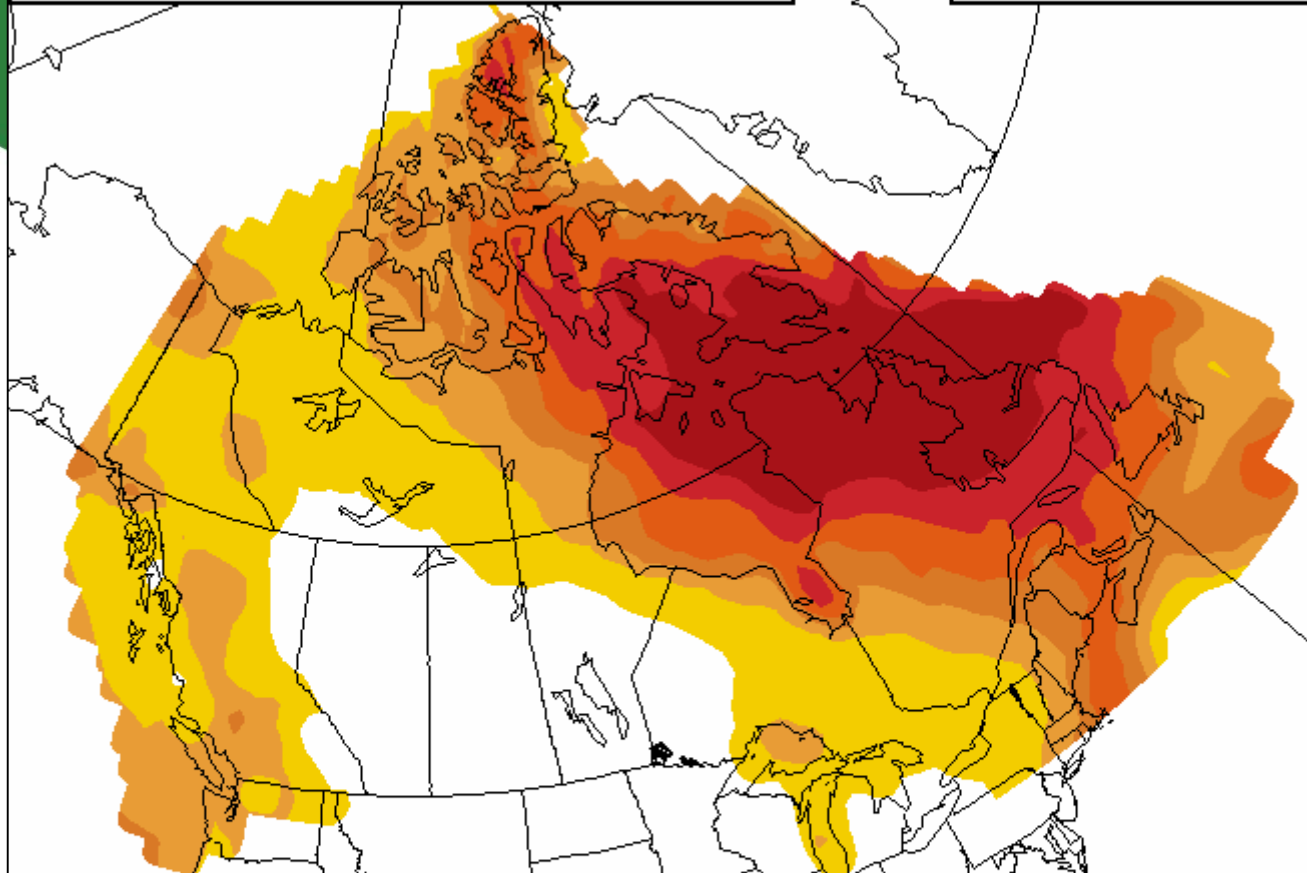
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Produced on 31 March 2020
 Produit le 31 mars 2020



**Forecast probability of Temperature
 above, below and near normal (calibrated)**

Period: June 2020

**Based on 3 equiprobable categories
 from 1981-2010 climatology**

**Probabilités prévues de températures
 au-dessus, sous et près de la normale (calibrées)**

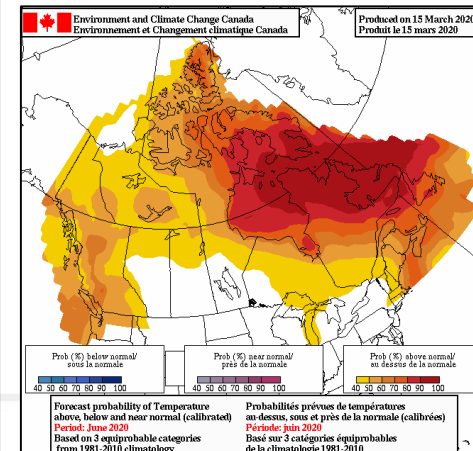
Période: juin 2020

**Basé sur 3 catégories équiprobables
 de la climatologie 1981-2010**

Temperature June 2020

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

Produced March 15



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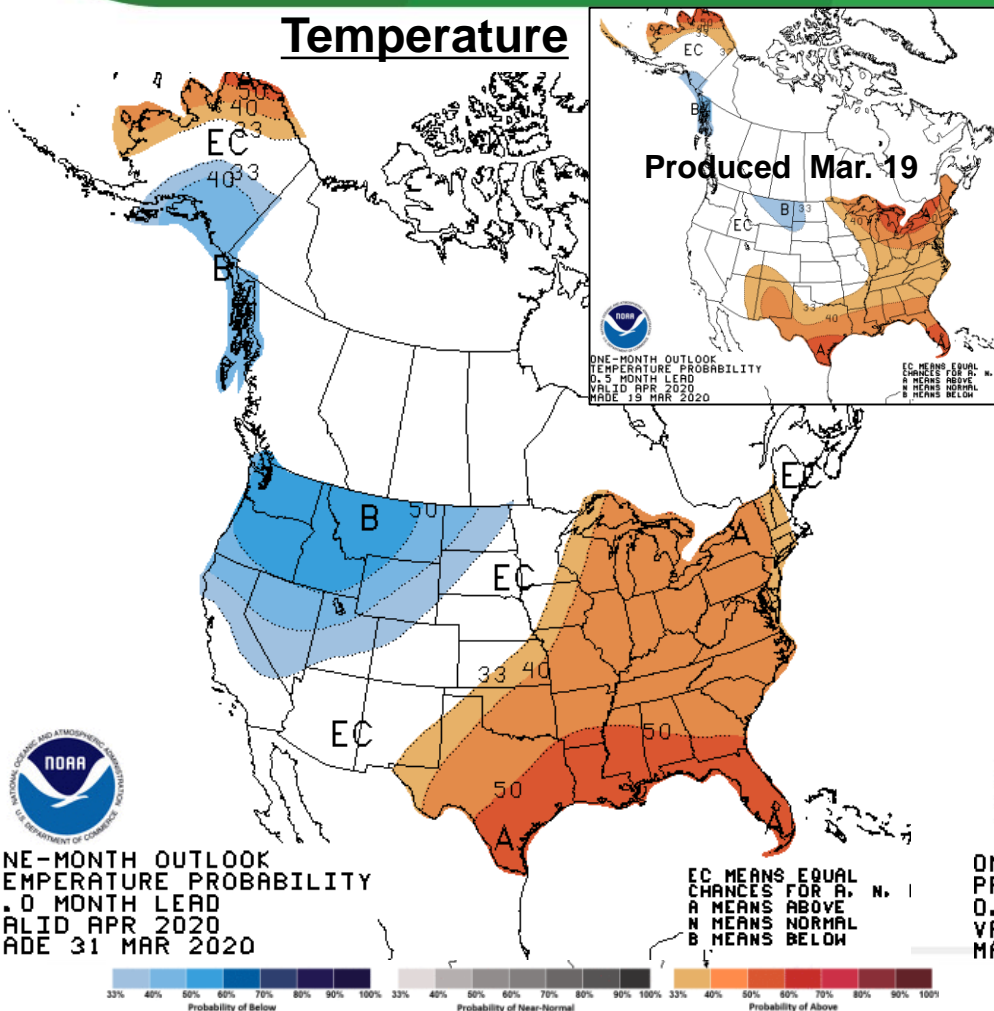
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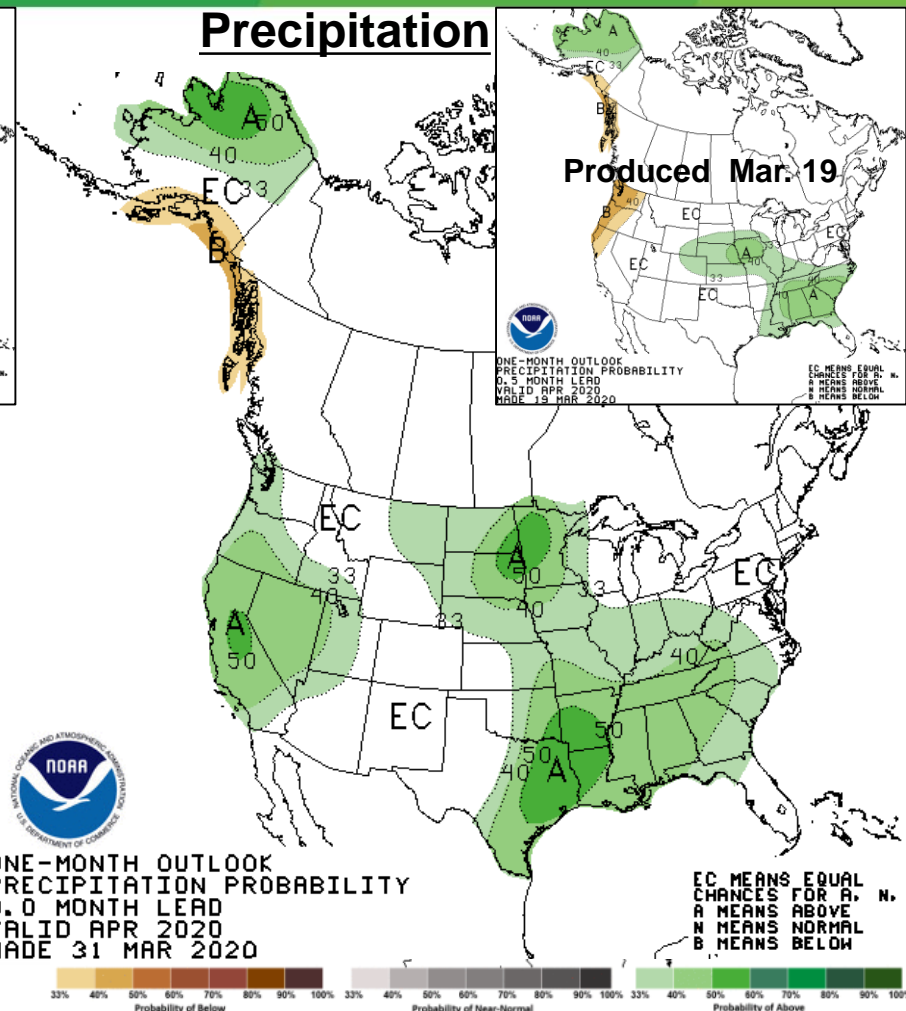


April 2020

Temperature



Precipitation



ONE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.5 MONTH LEAD
VALID APR 2020
MADE 31 MAR 2020



ONE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID APR 2020
MADE 31 MAR 2020



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Contact

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Canada Weather Pages

www.weather.gc.ca

