

New Brunswick

September 2020 Review October 2020 and Fall/Winter Outlook

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Environment and Climate Change Canada
October 2, 2020



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Climate Change Canada

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Canada

September 2020; Climate Summary

Station Name	Prov	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
BAS CARAQUET	NB	WXS	AU8	13.8	14.2	-0.4			
BAS CARAQUET	NB		DAILY				60.6	73.8	82
BATHURST A	NB	ZBF	NCA	12.9	13.5	-0.6	42.7	84.2	51
BOUCTOUCHE CDA CS	NB	ABT	AU8	14.4	13.8	0.6	68.7	86.3	80
CHARLO AUTO	NB	ZCR	AU8	12.6	12.1	0.6	46.9	79.3	59
DOAKTOWN AUTO RCS	NB	ADN	AU8	13.6	13.5	0.1	41.3	100.2	41
EDMUNDSTON	NB	ERM	AU8	11.4			56.6	94.6	60
FREDERICTON INTL A	NB	YFC	NCA	13.9	13.6	0.3	86.5	87.5	99
FREDERICTON CDA CS	NB	AFC	AU8	14.4	14.0	0.4			
FUNDY PARK (ALMA) CS	NB	AFY	AU8	14.4	13.7	0.7	94.1	122.7	77
GAGETOWN AWOS A	NB	YCX	AU5	14.2	14.7	-0.5			
GRAND MANAN SAR CS	NB	XGM	AU8	12.9			55.0		
KOUCHIBOUGUAC	NB	AKC	AU8	13.6	13.3	0.3	72.9	83.7	87
MECHANIC SETTLEMENT	NB	AMS	AU8	13.1			141.2		
MIRAMICHI RCS	NB	ACQ	AU8	14.1	13.5	0.5	33.2	84.5	39
MISCOU ISLAND (AUT)	NB	WMI	AU8	13.5					
MONCTON INTL A	NB	YQM	NCH	14.6	13.6	1.0	67.1	93.5	72
OAK POINT	NB		DAILY	14.1			96.6	86.1	112
POINT LEPREAU CS	NB	WPE	AU8	13.2	12.4	0.8	71.8	120.9	59
RED PINES	NB	ARP	AU8	12.5	13.1	-0.6	36.9	76.5	48
SAINT JOHN A	NB	YSJ	NCH	13.0	13.0	0.0	94.6	105.6	90
ST. STEPHEN	NB	WSS	AU8	14.5			50.3		
SUSSEX FOUR CORNERS	NB	ASF	AU8	14.1	14.3	-0.2	89.5	99.9	90
WOODSTOCK NEWBRIDGE	NB	EWD	AU8	13.5	13.2	0.3	22.2	95.7	23
Average				13.6	13.5	0.2	66.4	92.6	69
Max				14.6	14.7	1.0	141.2	122.7	112
Min				11.4	12.1	-0.6	22.2	73.8	23

Highlights:

The average temperature anomaly was near normal (**+0.2C**). The month began and ended above normal but was below normal throughout most of the middle.

Total precipitation amounts were below normal, with an average of **69%** of total precipitation. Anomalies ranged from only 23% in Woodstock to the only site above normal at 112% in Oak Point. This was the ninth consecutive month with below normal precipitation.

September 2020; Climate Summary

Events:

September 3-4: “Warm and wettish”. A tropical-like air mass allowed for some organized convection to develop across some central and southern sections giving 20-30 mm of rain. Locally, Fredericton Intl. reported 44 mm of rain.

September 22-23: “Teddy”. Post-tropical storm Teddy made landfall across eastern NS on September 23 bringing rain and wind to the southeast. Generally, 30-45 mm of rain fell with Mechanic Settlement receiving the most at 57 mm and Moncton recorded a peak wind gust of 80 km/h.

September 28-30: “Warm, windy and wettish”. Another tropical-like air mass brought moderate showers across some southern and western sections giving 10-30 mm of rain over the three days with the Kennebecasis Valley area reporting up to 58 mm. As the air mass departed on the 30th, strong southerly winds gusted up to 87 km/h in Saint John.

Days of month with lightning in New Brunswick; 3 6 10 19-20 (5 days)

The number of strikes was considered ‘really abysmal’ with only 4% of normal (90 of 2351)

Day of month with temperature record broken or tied in New Brunswick; 4 12 16 18-22* 28-30
(red=maximum, blue=minimum) *the 21st saw 11 record low temperatures



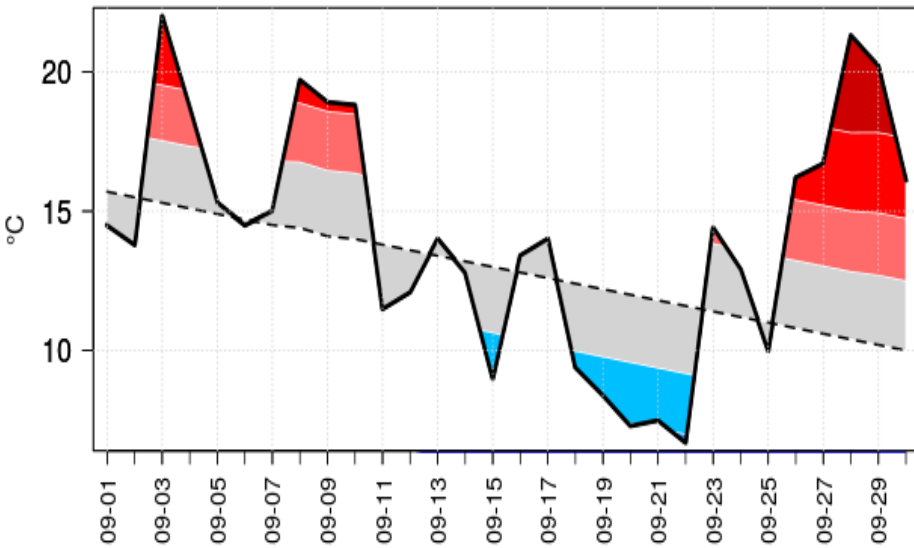
September 2020; Provincial Climate Extremes

Parameter	Value	ECCC Station	Day of month
Daily Maximum Temperature	29.5°C	Charlo	29
Daily Minimum Temperature	-6.2°C	Edmundston	21
Maximum Daily Total Precipitation	43.8 mm	Fredericton	3
Daily Maximum Wind Gust	87 km/h	Saint John	30
Daily Maximum Humidex	34	Bouctouche	3

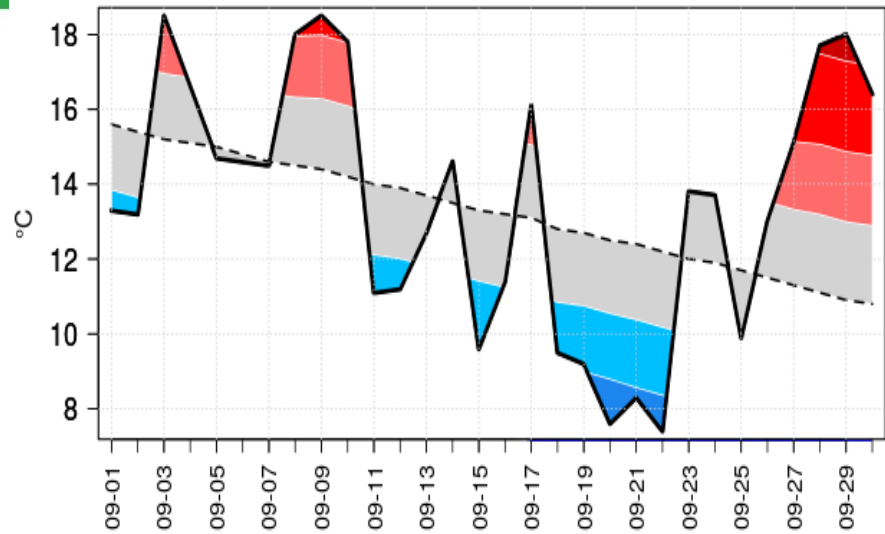


September 2020 - Temperature

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

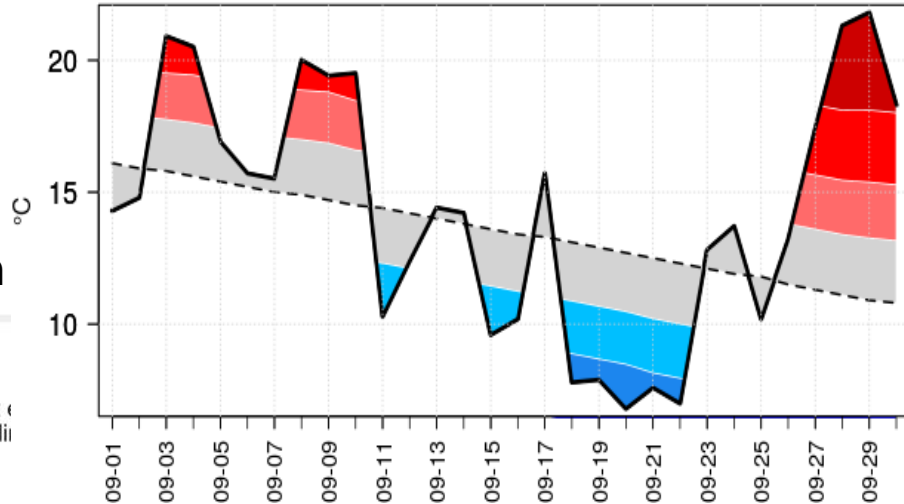


Saint John

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

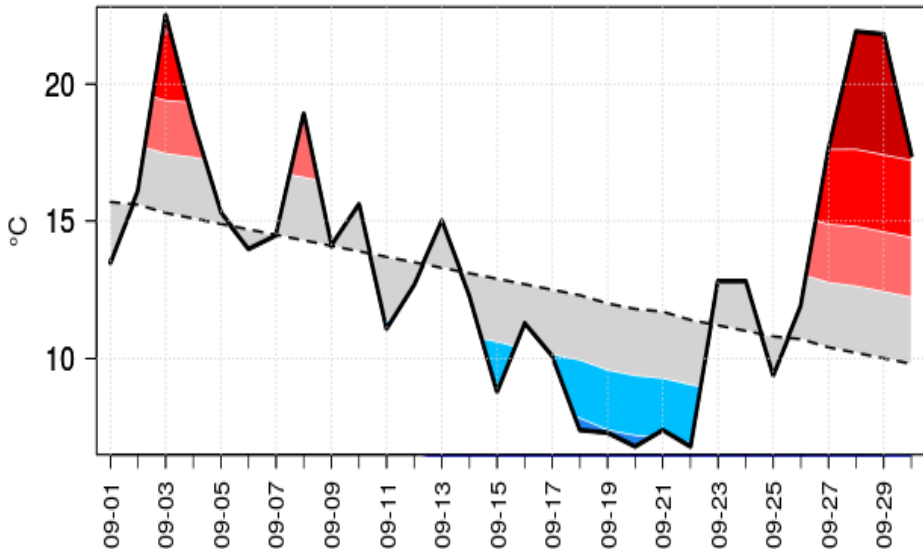
All sites were near normal

Moncton

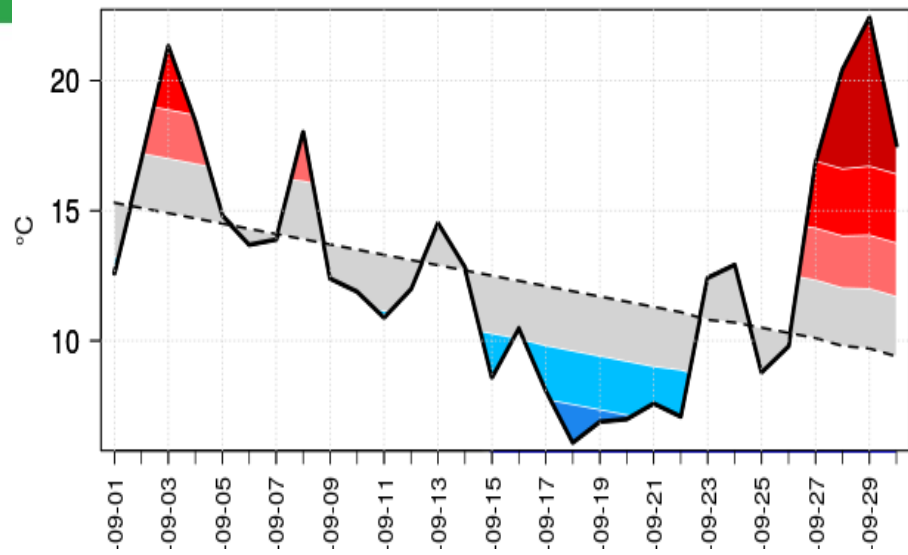


September 2020 - Temperature

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



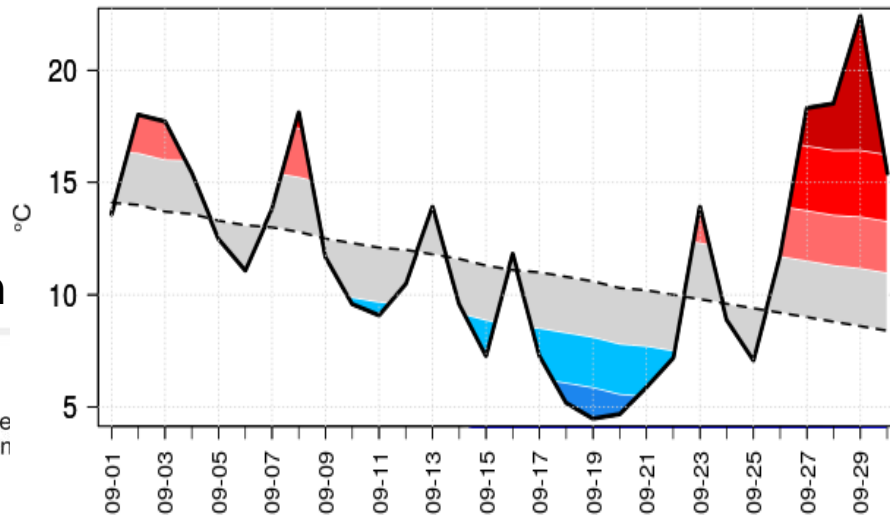
Miramichi



Bathurst

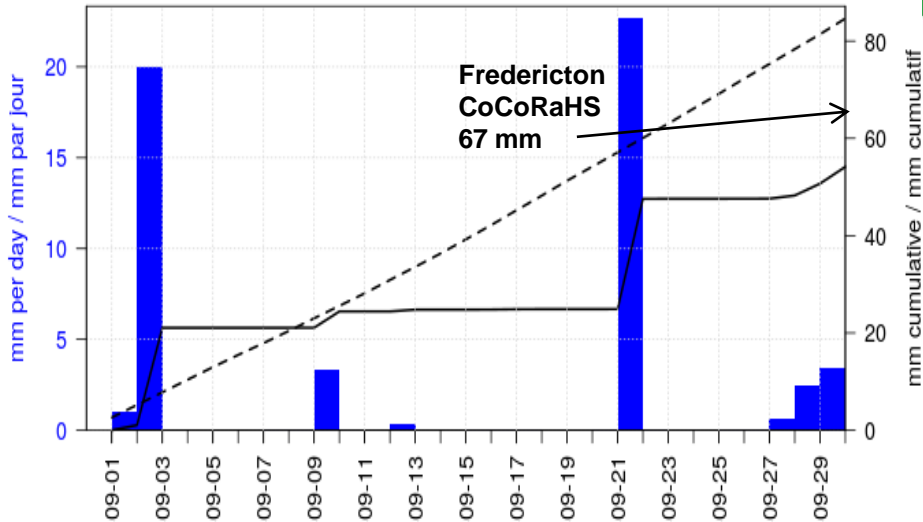
All sites were near normal

Edmundston

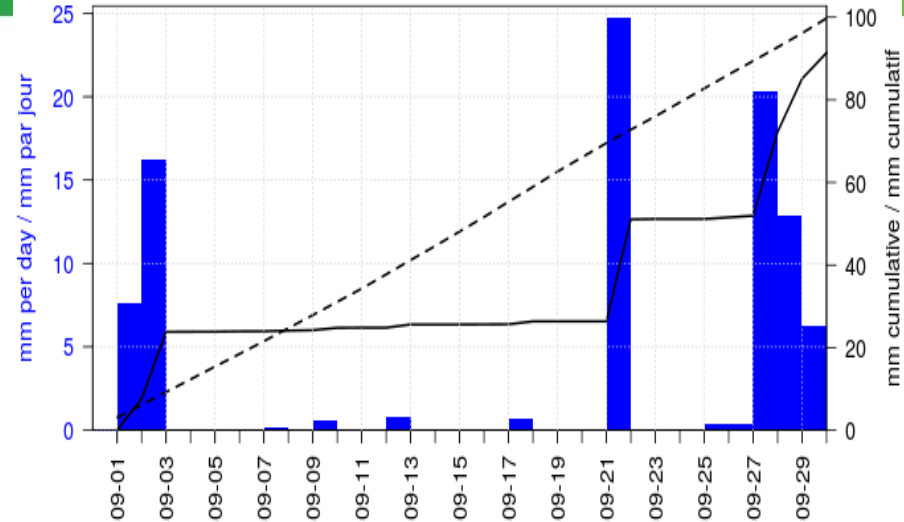


September 2020 - Precipitation

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Based on ECCG gridded precipitation analysis
Climatology 2002-2019



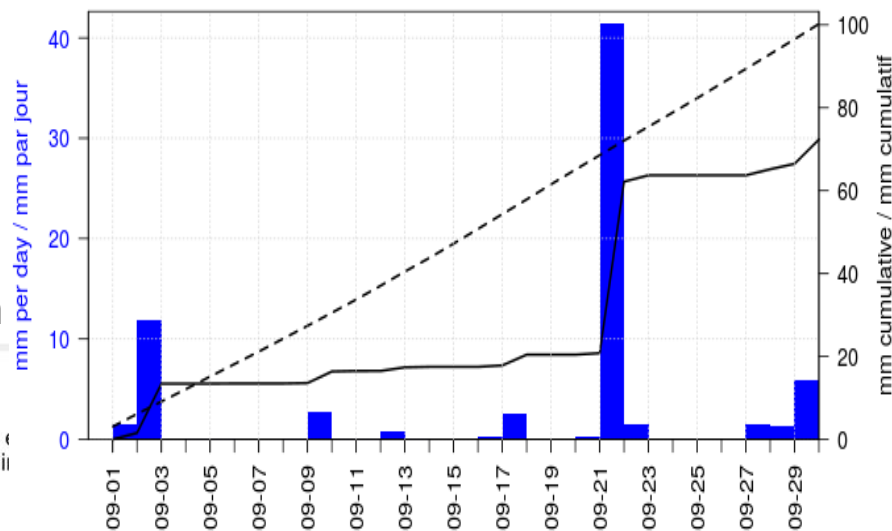
Fredericton (and area)



Saint John

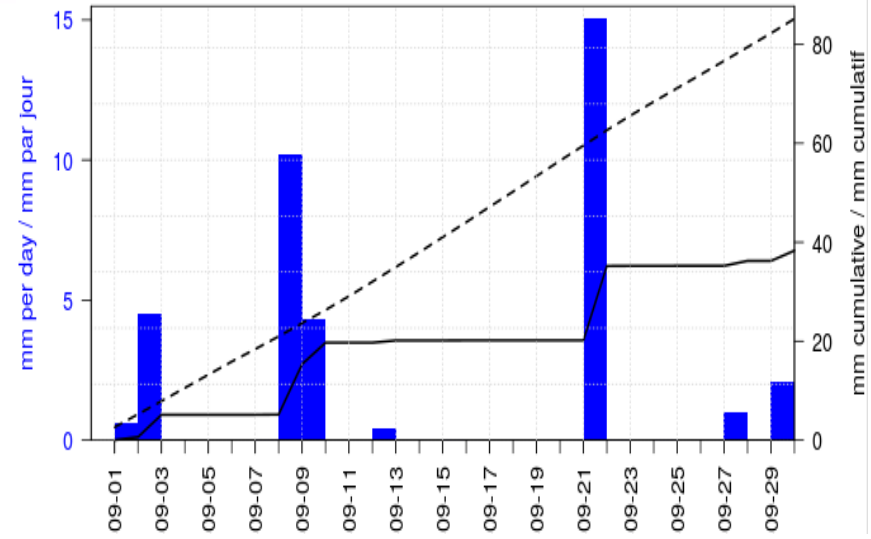
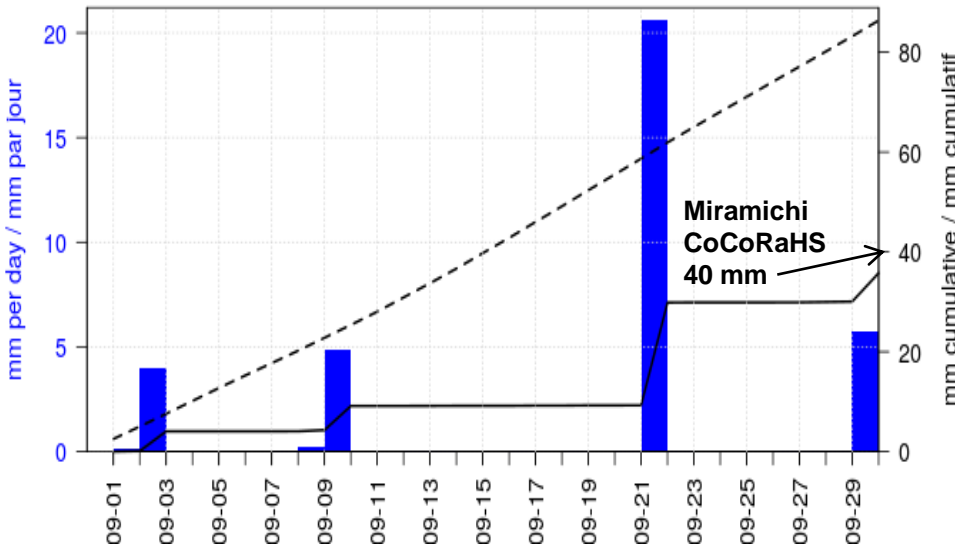
All sites were below normal

Moncton



September 2020 - Precipitation

Daily Total Precipitation (bars), Cumulative (line) and Cumulative Long-Term Mean (dashed line) Based on ECCG gridded precipitation analysis Climatology 2002-2019

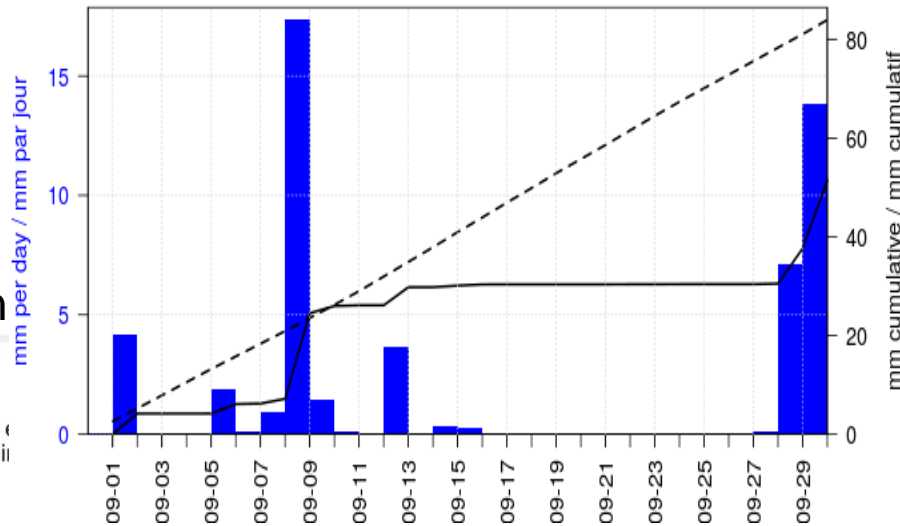


Miramichi

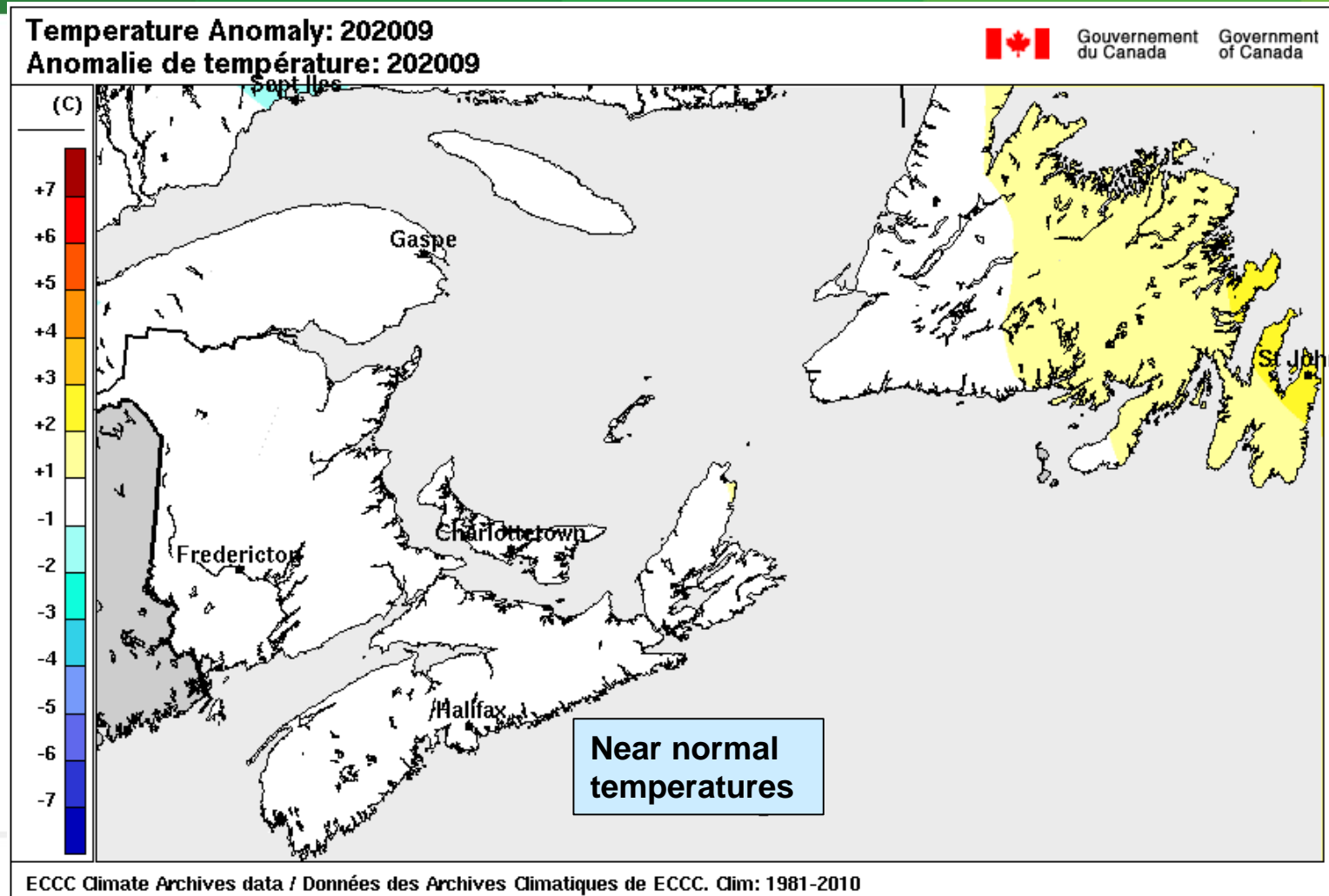
Bathurst

All sites were below normal

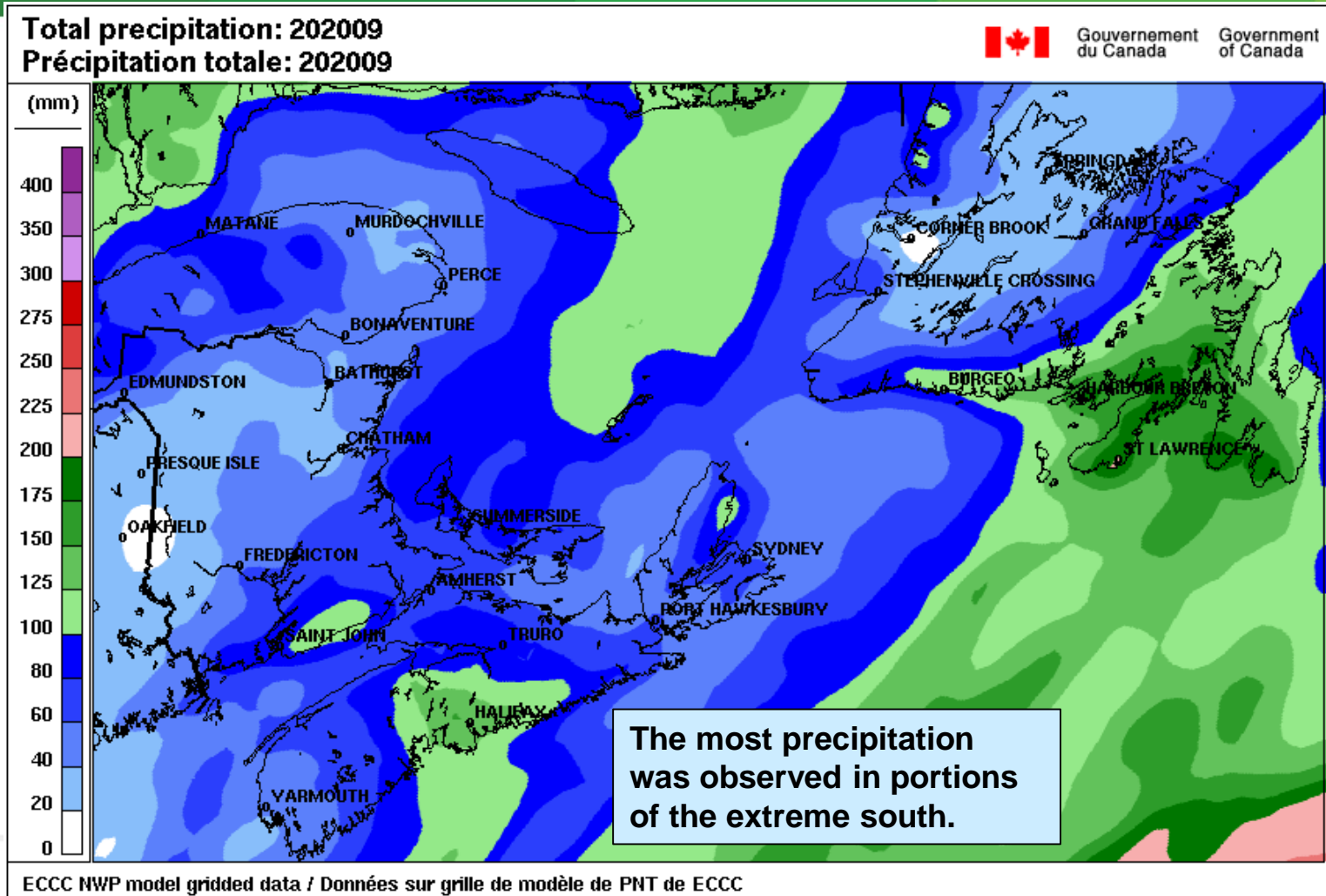
Edmundston



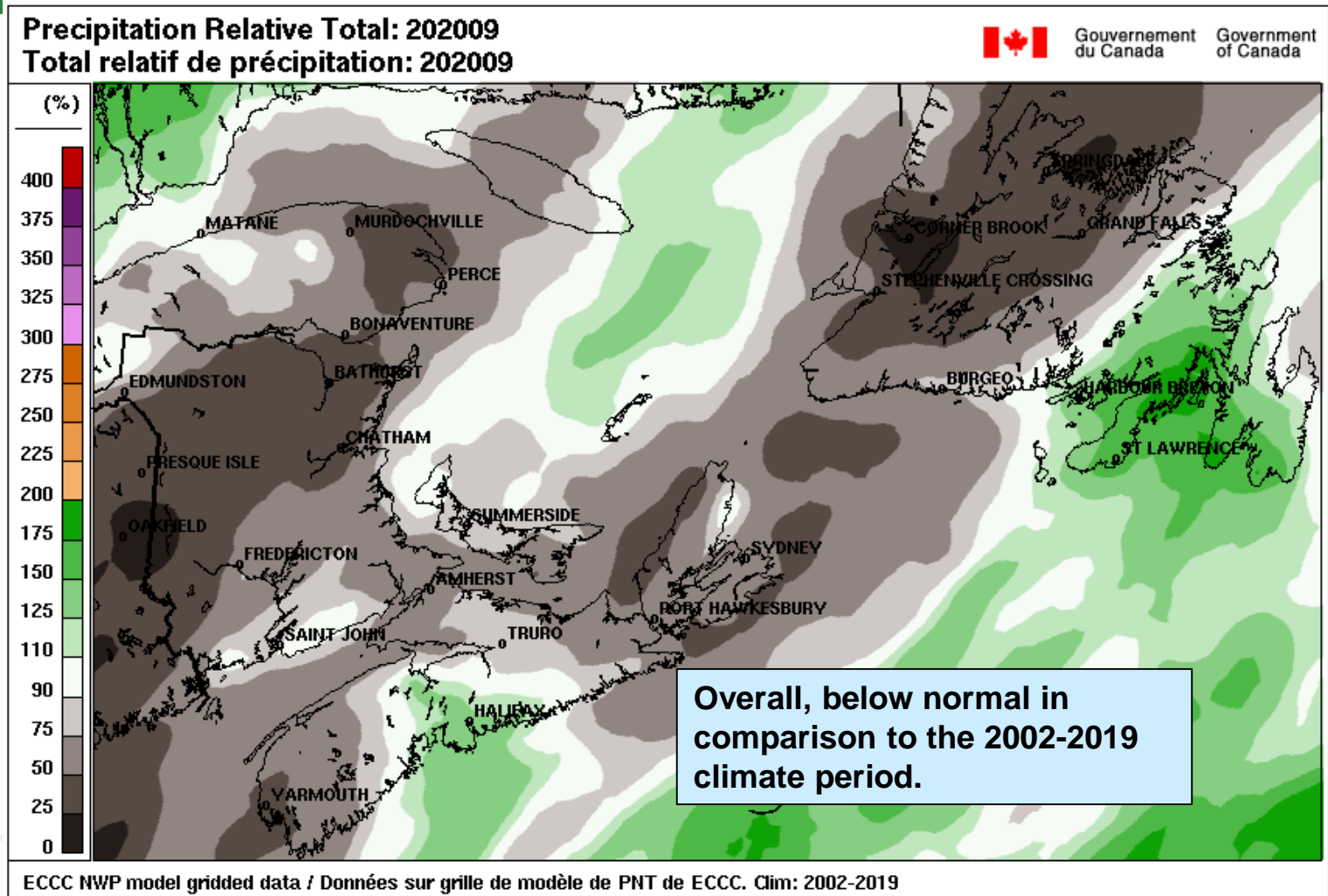
September 2020 – Temperature departure from 1981-2010 mean



September 2020 – Total precipitation



September 2020 – Precipitation departure from 2002-2019 mean



Gouvernement du Canada / Government of Canada



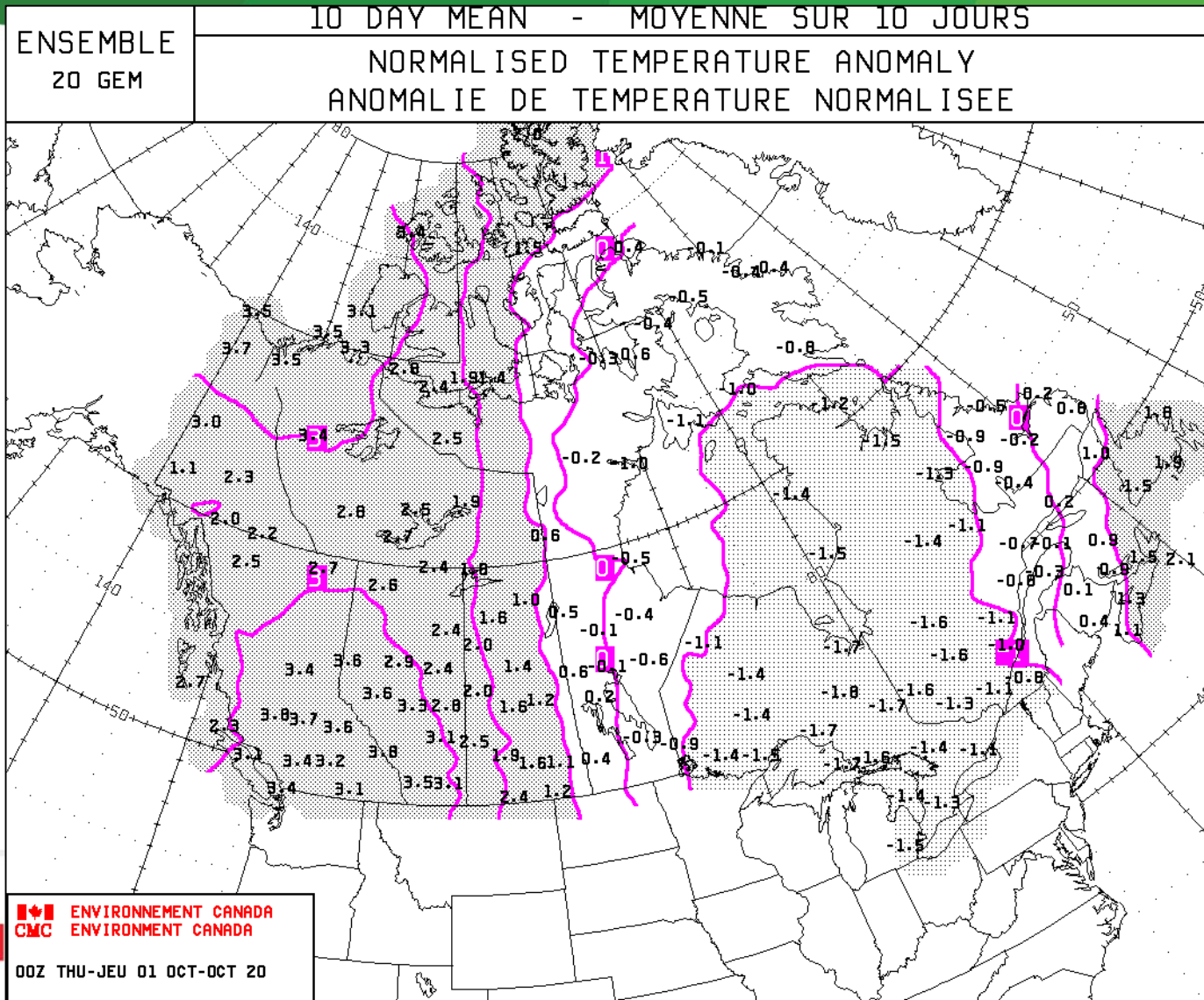
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Outlook – 10 day mean temperature

(Suggesting near normal conditions (-0.3 to +0.9°C))



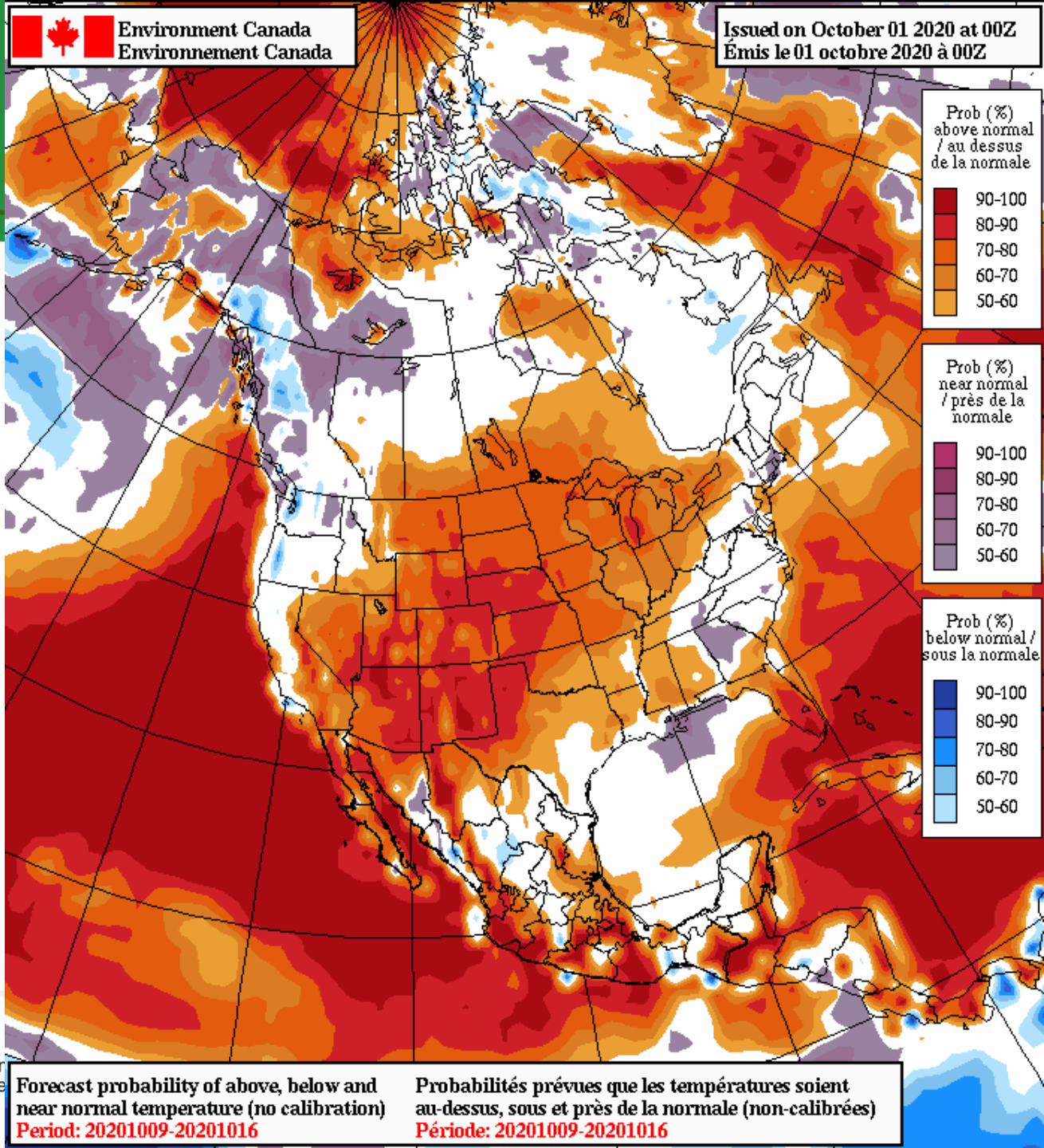
10 day
forecast
ending
October
11, 2020



Day 8 to 14 Forecast

Period ending
October 16, 2020

Suggesting equal
chances of above, near
or below normal.





Fredericton

Ensemble and Deterministic Forecasts issued 1 October 2020 00 UTC
Prévision d'ensemble et déterministe émises le 1 Octobre 2020 00 UTC

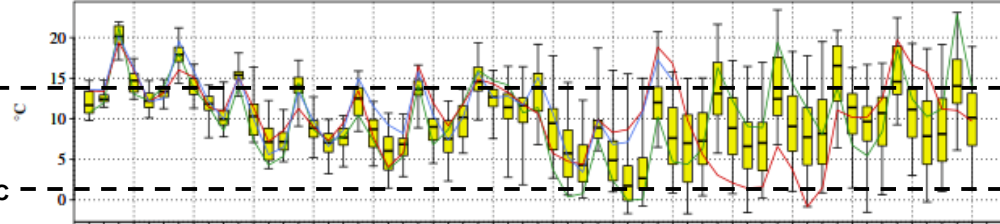
for/pour

NAEFS / SPENA

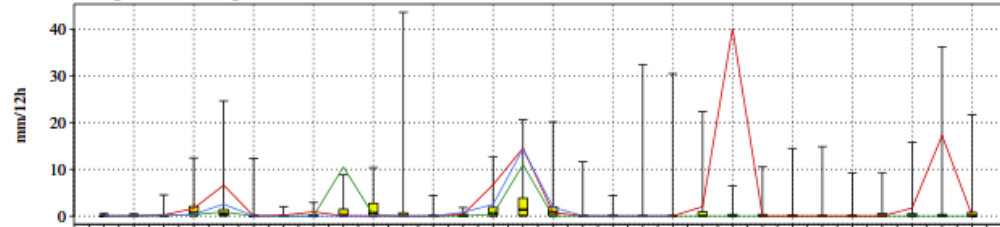
FREDERICTON (YFC) 45.87 N 66.53 W/O

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

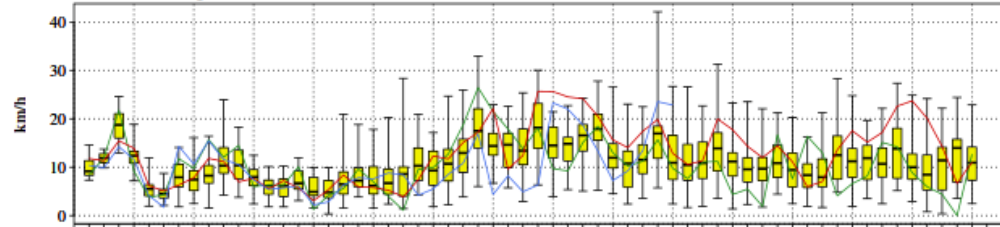
Normal high: +13.2C
October
Normal low: 1.6C



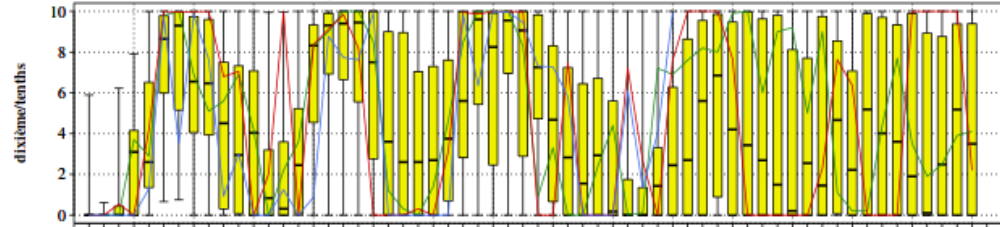
Précipitations/Precipitation



Surface wind speed/Vitesse du vent à la surface



Total cloud cover/Couvert nuageux



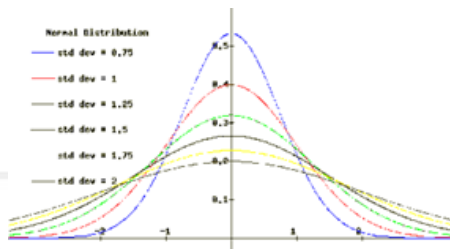
October/Octobre 2020

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

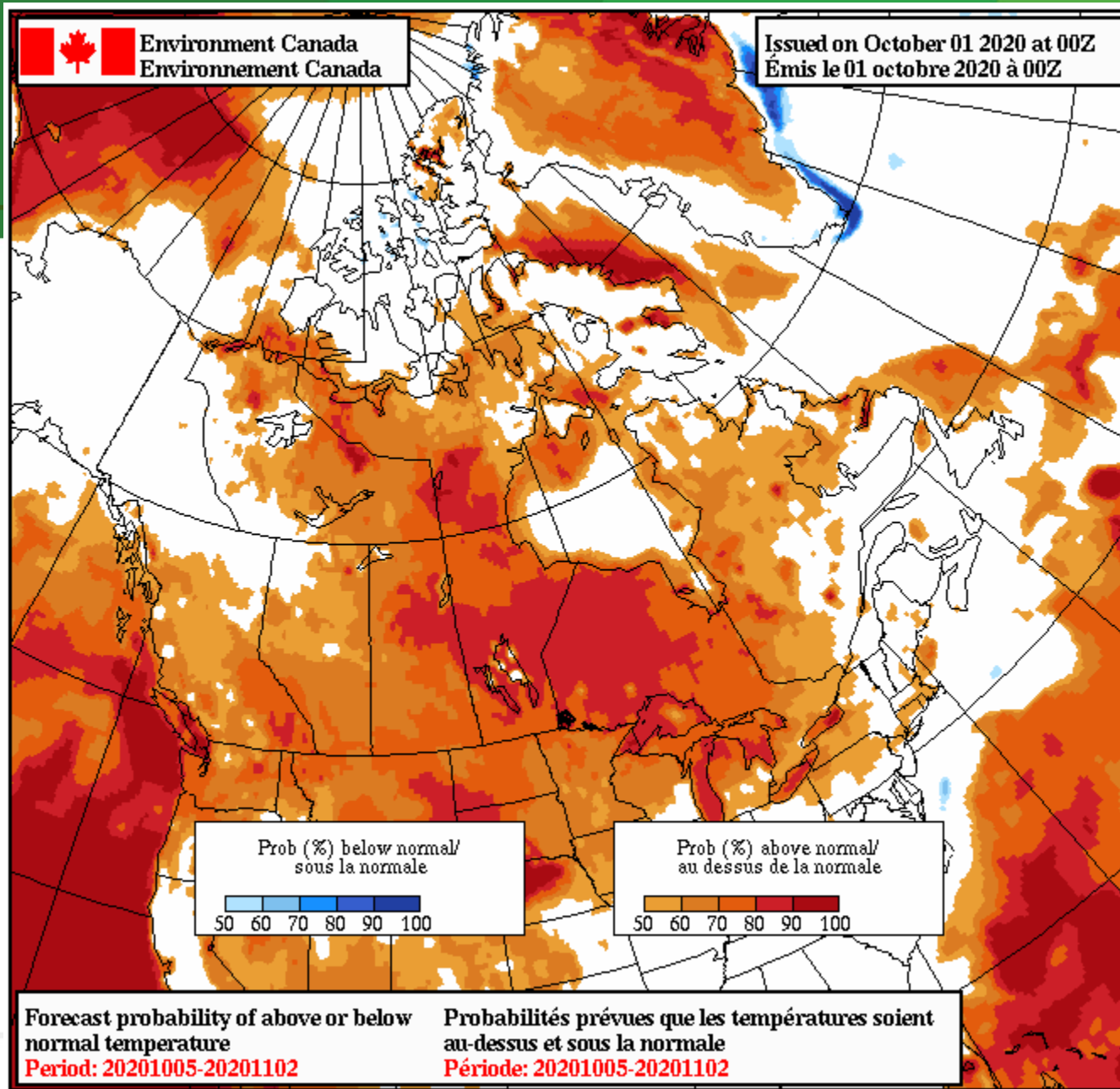
max
75%
median/médiane
25%
min

Next 15 days; ending October 16, 2020

Generally suggesting above normal until near October 3rd before transitioning to more near normal until near mid-period than a lot of uncertainty for the remainder of the period.



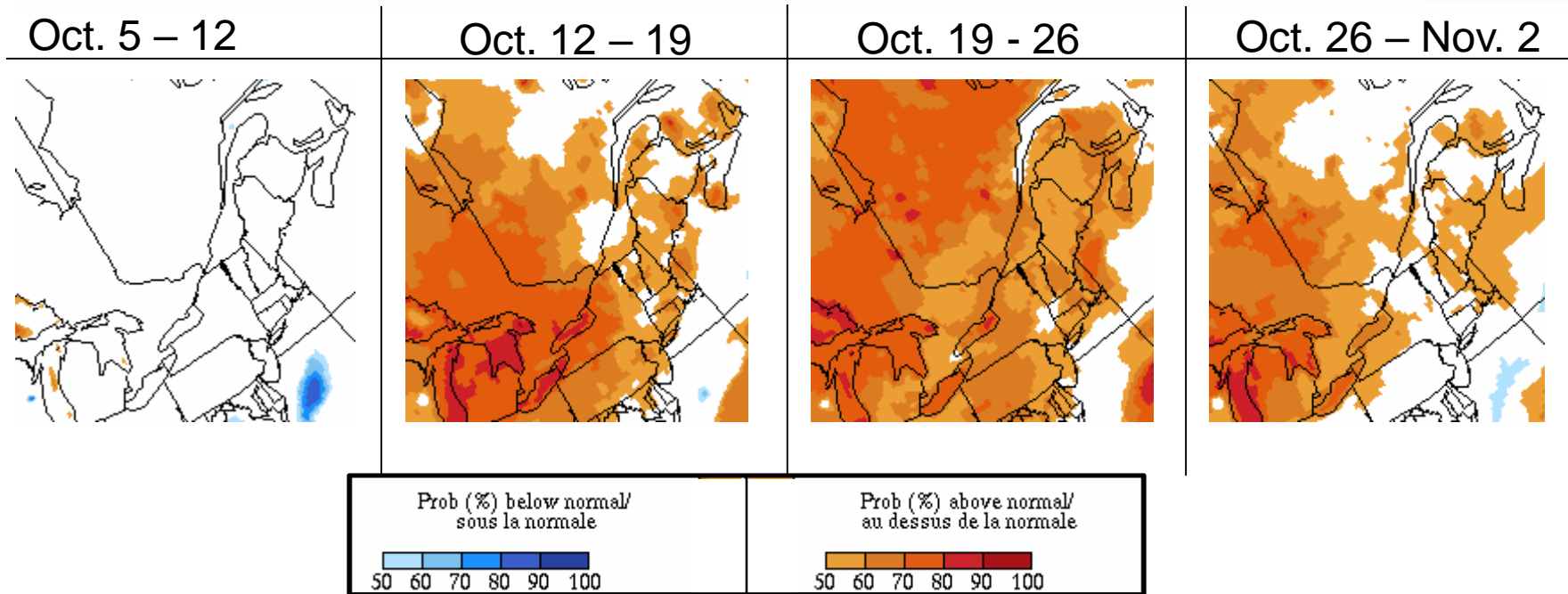
Temperature October 5 to November 2



CMC
Monthly
Forecast
Product
using GEPS
50km res.



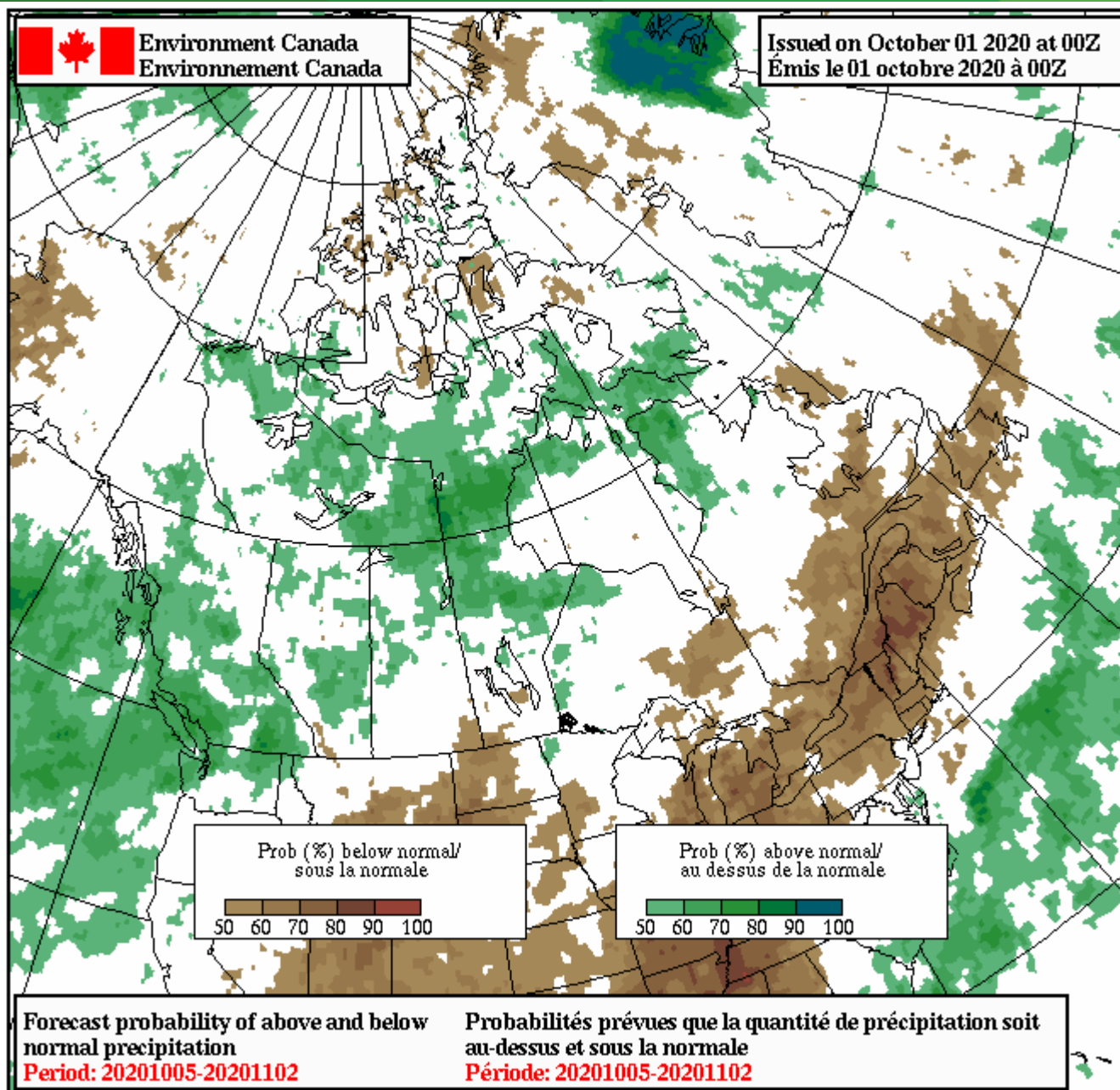
Weekly signature from GEPS 50km resolution



Overall, a weak indication of above normal beginning the second week, with the strongest signal occurring during the third week.

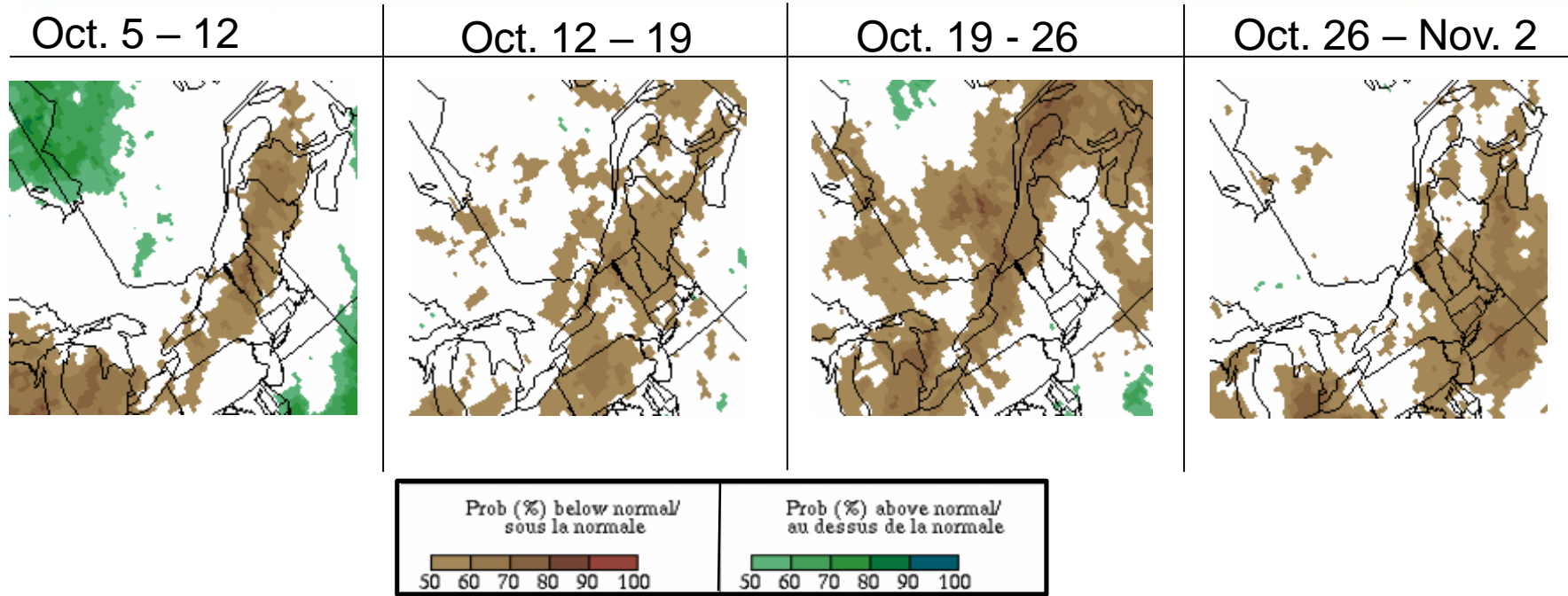


Precipitation October 5 to November 2



CMC
Monthly
Forecast
Product
using GEPS
50km res.

Weekly signature from GEPS 50km resolution



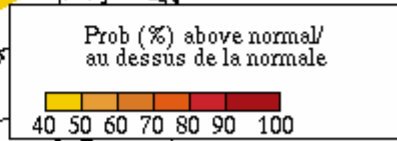
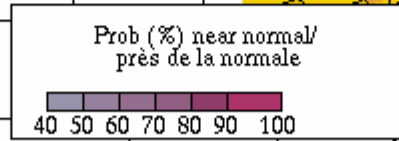
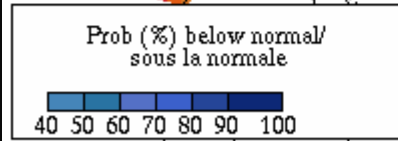
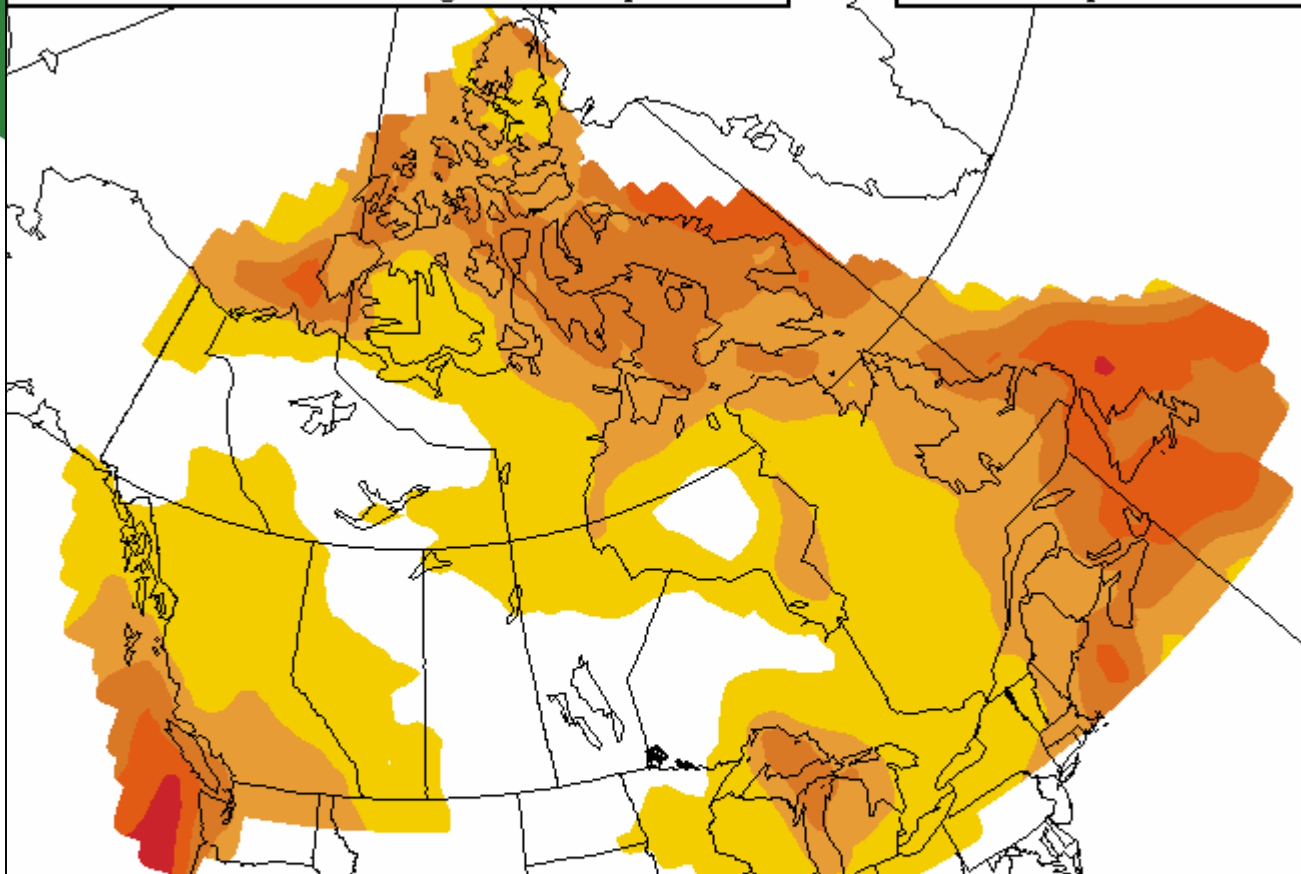
Generally, a weak signal of below normal throughout the period.





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Produced on 30 September 2020
Produit le 30 septembre 2020



**Forecast probability of Temperature
above, below and near normal (calibrated)**
Period: November 2020
**Based on 3 equiprobable categories
from 1981-2010 climatology**

**Probabilités prévues de températures
au-dessus, sous et près de la normale (calibrées)**
Période: novembre 2020
**Basé sur 3 catégories équiprobables
de la climatologie 1981-2010**



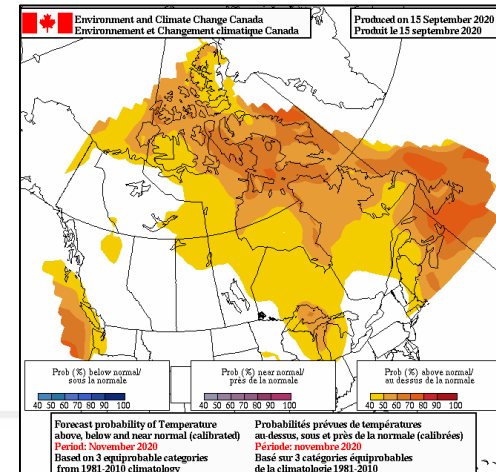
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Temperature November 2020

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

Produced September 15

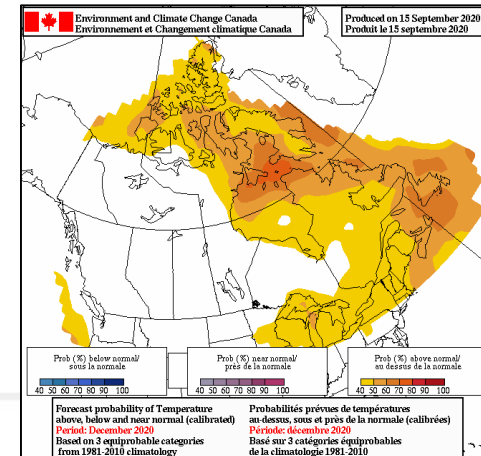
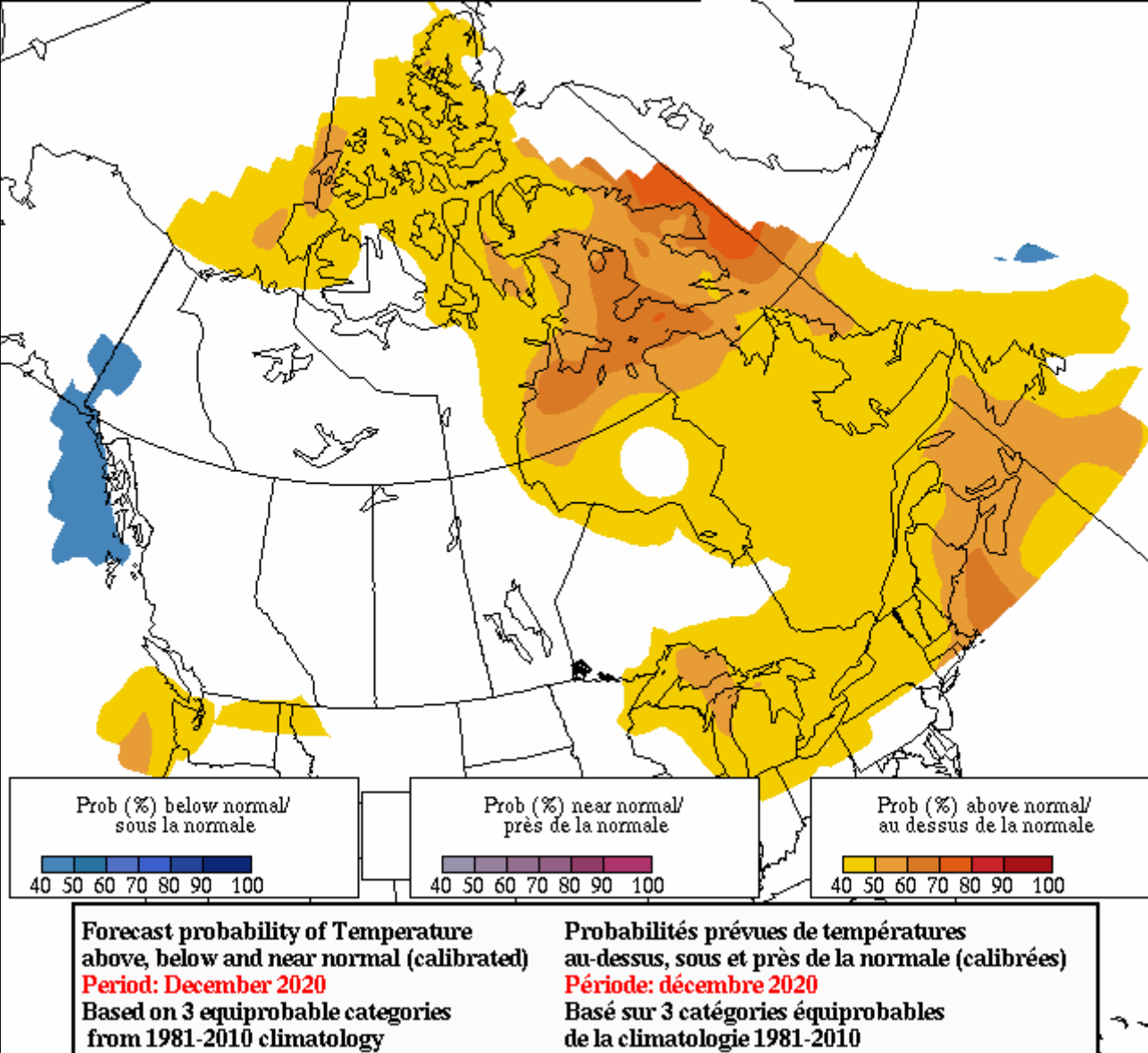


Canada

Temperature December 2020

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

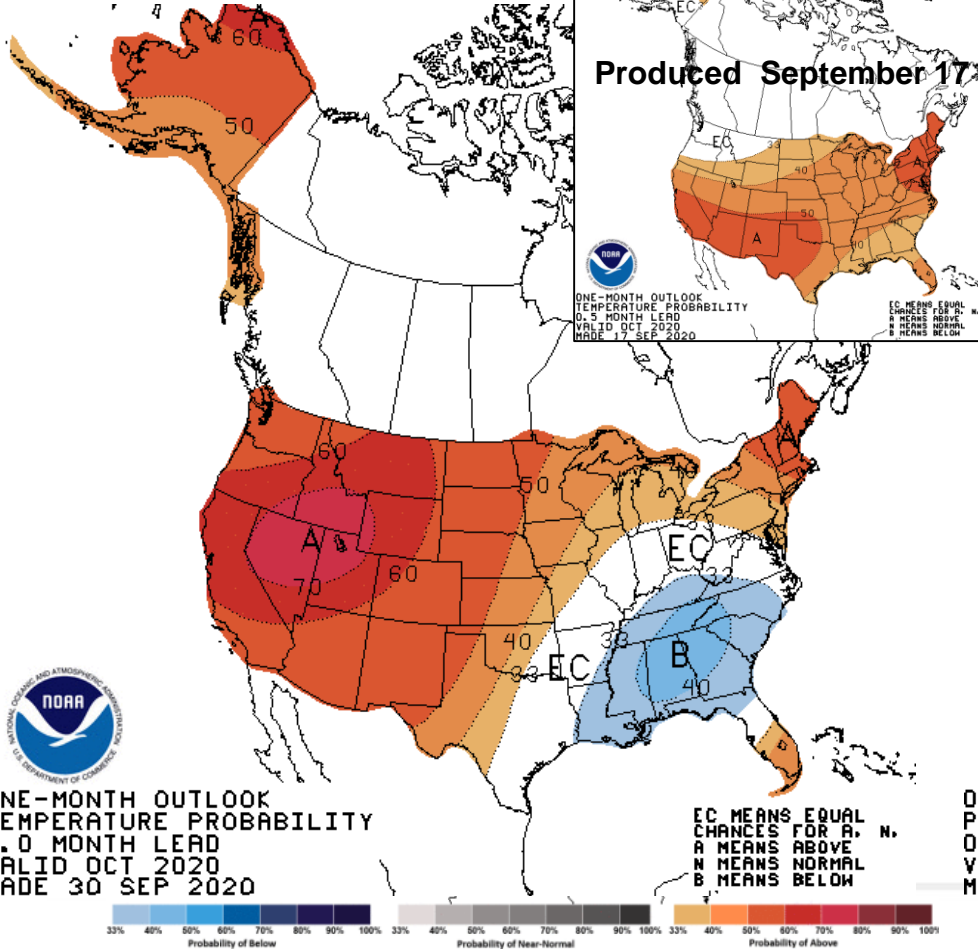
Produced September 15



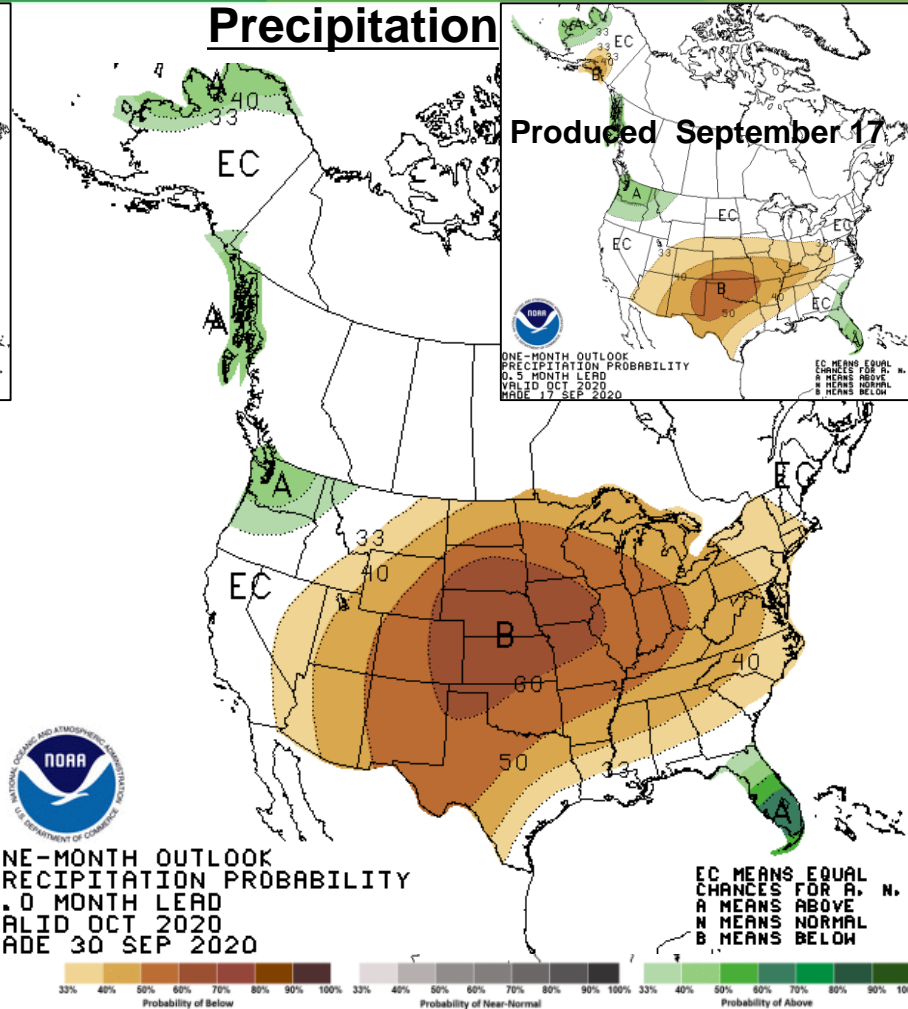


October 2020

Temperature



Precipitation



ONE-MONTH OUTLOOK
TEMPERATURE PROBABILITY
0.0 MONTH LEAD
VALID OCT 2020
MADE 30 SEP 2020



ONE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.0 MONTH LEAD
VALID OCT 2020
MADE 30 SEP 2020



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Contact

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Canada Weather Pages

www.weather.gc.ca

