



Environment and
Climate Change Canada

Environnement et
Changement climatique Canada

Canada

New Brunswick

June 2018 Review July and Summer Outlook

**Jill Maepea
Meteorological Service of Canada
Environment and Climate Change Canada
July 3, 2018**

June 2018; Climate Summary

Station Name	TC ID	Station Type	Mean Temperature (°C)			Total Precip (mm)			Departure from Normal as % of Normal
			Monthly Mean	Normal Mean	Departure from Normal	Monthly Total	Normal Total	Total as % of Normal	
BAS CARAQUET	WXS	AU8	12.9	14.3	-1.4	73.6	76.8	96	-4
BAS CARAQUET		DAILY				63.4	76.8	83	-17
BATHURST A	ZBF	NCH	13.2	15.9	-2.6	68.8	96.9	71	-29
CHARLO AUTO	ZCR	AU8	13.1	14.6	-1.5	51.6	85.1	61	-39
MIRAMICHI RCS	ACQ	AU8	14.0	15.7	-1.7	56.8	86.3	66	-34
DOAKTOWN AUTO RCS	ADN	AU8	13.4	16.0	-2.6	71.7	95.4	75	-25
EDMUNDSTON	ERM	AU8	12.4	15.2	-2.8	59.9	97.4	62	-38
FREDERICTON	YFC	NCA	14.4	16.2	-1.8	100.4	82.4	122	22
FREDERICTON CDA CS	AFC	AU8	14.6	16.4	-1.8	141.4	86.3	164	64
FUNDY PARK (ALMA) CS	AFY	AU8	12.5	13.8	-1.4	177.1	110.0	161	61
GAGETOWN AWOS A	YCX	AU5	14.5	16.4	-1.9	112.5	86.1	131	31
GRAND MANAN SAR CS	XGM	AU8	12.7			144.3			
MECHANIC SETTLEMENT	AMS	AU8	12.5			188.8			
MISCOU ISLAND (AUT)	WMI	AU8	12.0			67.7			
MONCTON INTLA	YQM	NCH	13.5	15.2	-1.7	154.0	94.6	163	63
OAK POINT		DAILY	14.4	16.4	-2.0	170.8	86.1	198	98
POINT LEPREAU CS	WPE	AU8	12.5	12.8	-0.3	119.5	111.0	108	8
RED PINES	ARP	AU8	12.4	15.4	-3.0	60.8	83.6	73	-27
SAINT JOHN A	YSJ	NCH	12.3	14.0	-1.7	204.5	101.0	203	103
ST. STEPHEN	WSS	AU8	14.6			106.0			
SUSSEX FOUR CORNERS	ASF	AU8	13.5	16.0	-2.4	142.5	88.4	161	61
WOODSTOCK		DAILY	14.3	16.3	-2.0	107.4	91.0	118	18
WOODSTOCK NEWBRIDGE	EWD	AU8	13.4	16.3	-2.8	78.3	91.0	86	-14
Average			13.3	15.4	-2.0	109.6	90.8	116	16
Max			14.6	16.4	-0.3	204.5	111.0	203	103
Min			12.0	12.8	-3.0	51.6	76.8	61	-39



June 2018; Climate Summary

Highlights:

In June, the average temperature was below normal (-2.0C below normal). All sites reported a negative anomaly. Red Pines had the lowest negative anomaly with an average temperature of -3.0C below normal.

Total precipitation amounts were slightly above normal, 16% above normal. However, precipitation amounts varied greatly throughout the province with Charlo receiving only 61% of their average total precipitation for the month and Saint John receiving 203% of the average total.

Events:

June 14; Rain event; A warm front crossed the province bringing the first period of consistent precipitation province-wide for the month. The highest rainfall amount occurred at Keswick Ridge with 37mm with generally 15-25 mm fell throughout the province except lesser amounts over the northeast.

June 18-19; Rain event; Rainfall amounts varied greatly across the province (3 to 43mm) due to the convective nature of the system. The highest rainfall amount was observed in the southeast near Sussex with 43mm.

June 28-29; Rain event; A slow moving low pressure system brought significant rainfall to the southern parts of the province. Generally, 50 to 70mm fell while northern portions only received on the order of 5 to 15 mm. The highest rainfall amount was reported in Hanwell with 81mm.

June 29; Thunderstorms; A trough brought thunderstorms to most of the province but violent thunderstorms over the Acadian peninsula. Small hail was reported as well as frequent lightning.

Days with thunderstorm activity (lightning) in New Brunswick; 1, 2, 8, 14, 18, 20, 21, 25, 29, 30

Days with temperature records broken or tied in New Brunswick; 1, 3, 4, 7, 10, 11, 12, 14, 17, 22, 25, 26

Note: June 1st was the only day when a maximum temperature was broken, the rest were all minimum temperature records



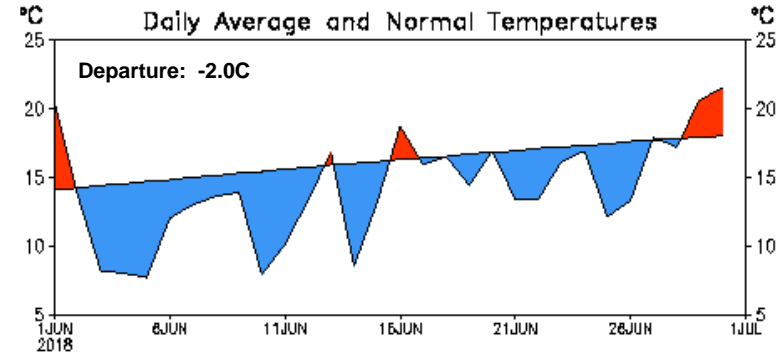
June 2018

Temperature

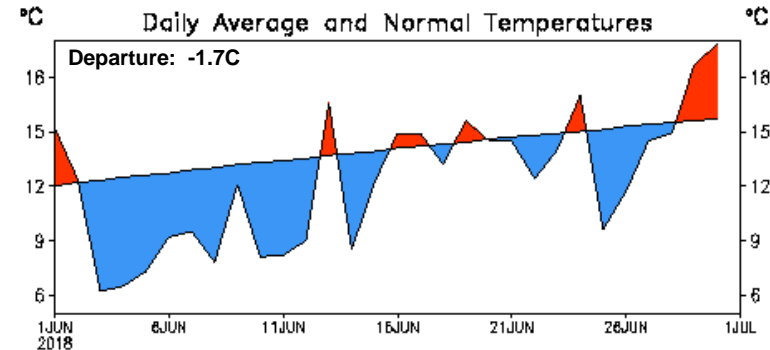
All three sites were below normal. This was also representative of the province.



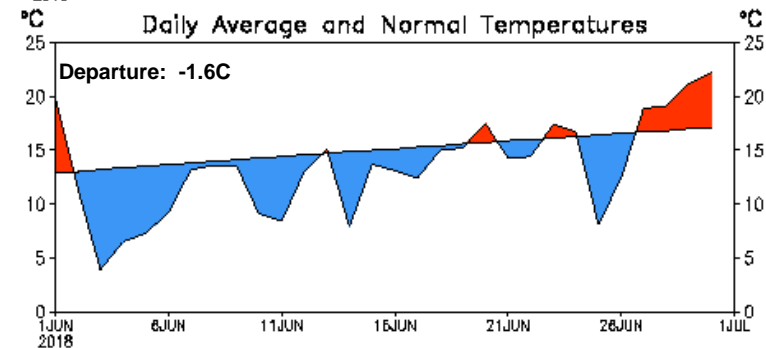
Fredericton



Saint John



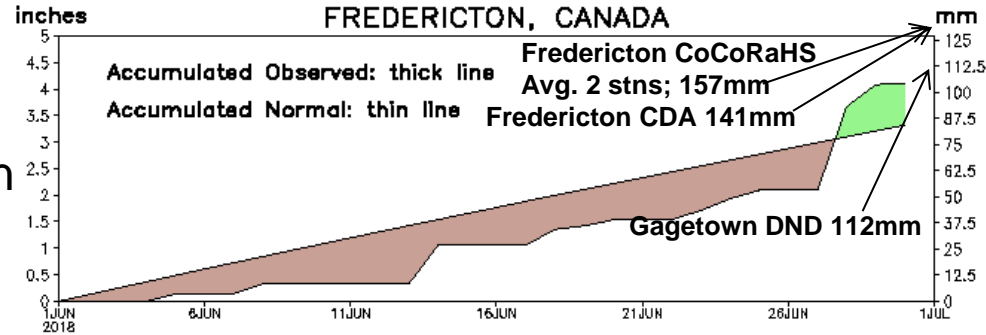
Moncton



June 2018

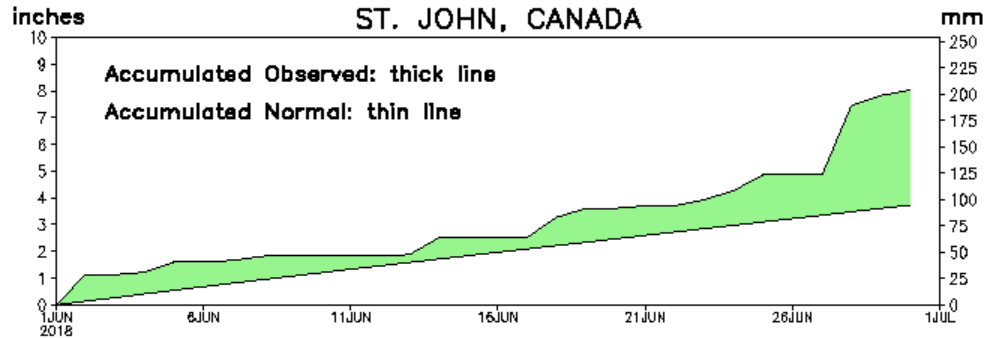
Precipitation

Fredericton

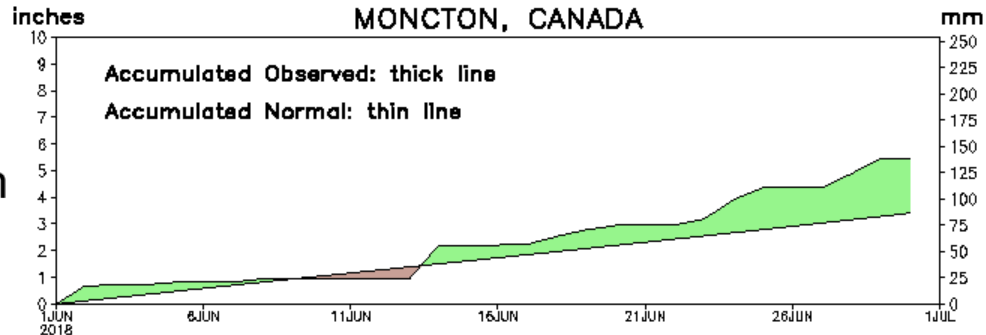


Above normal precipitation amounts were reported.

Saint John



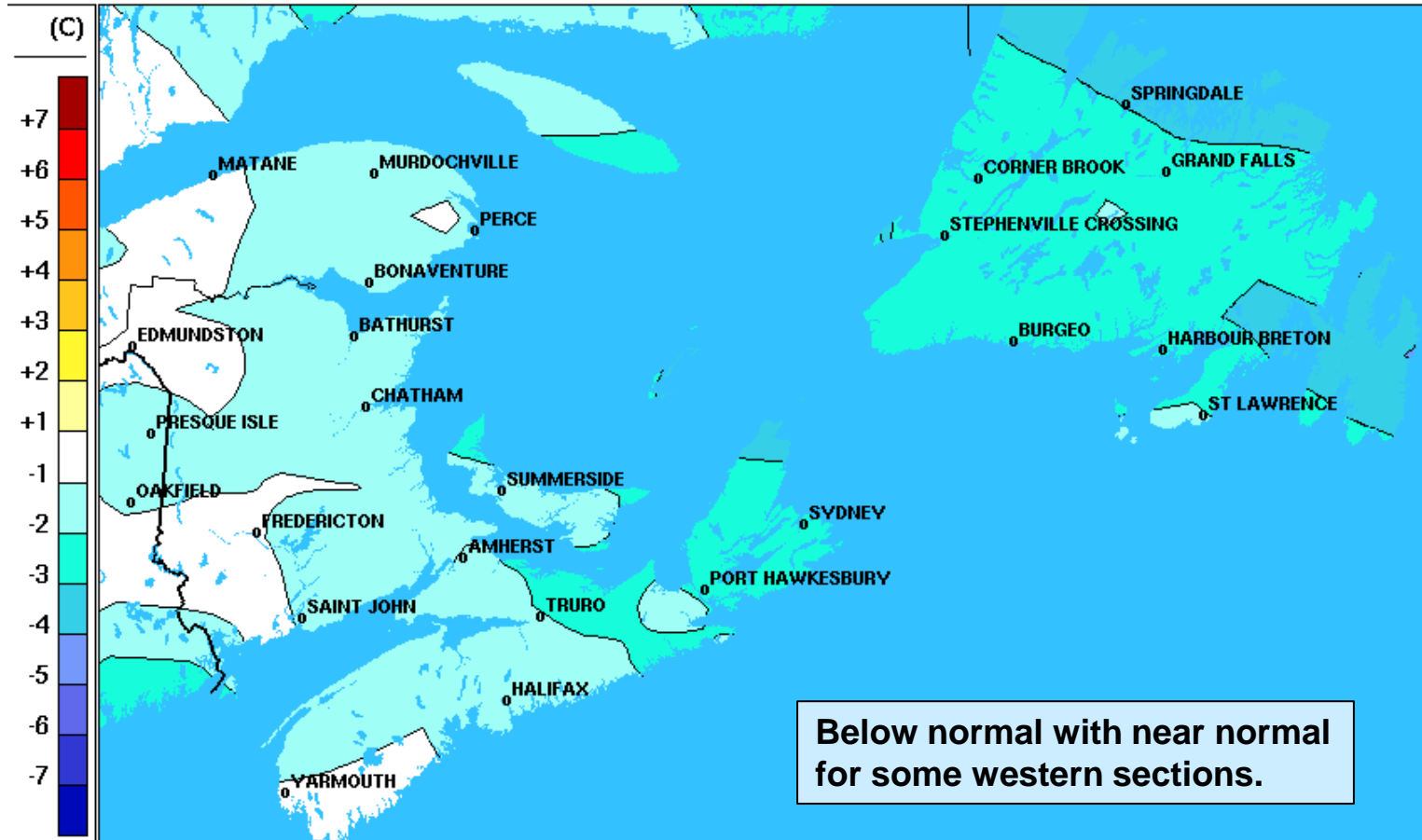
Moncton



June 2018 Temperature departure from 1981-2010 mean.

Monthly Temperature Anomaly: 2018/06
Anomalie de la température mensuelle: 2018/06

 Gouvernement du Canada / Government of Canada



ECCC model data projected onto 1981-2010 station means / Données de modèle d'ECCC projetées sur des moyennes 1981-2010 de stations



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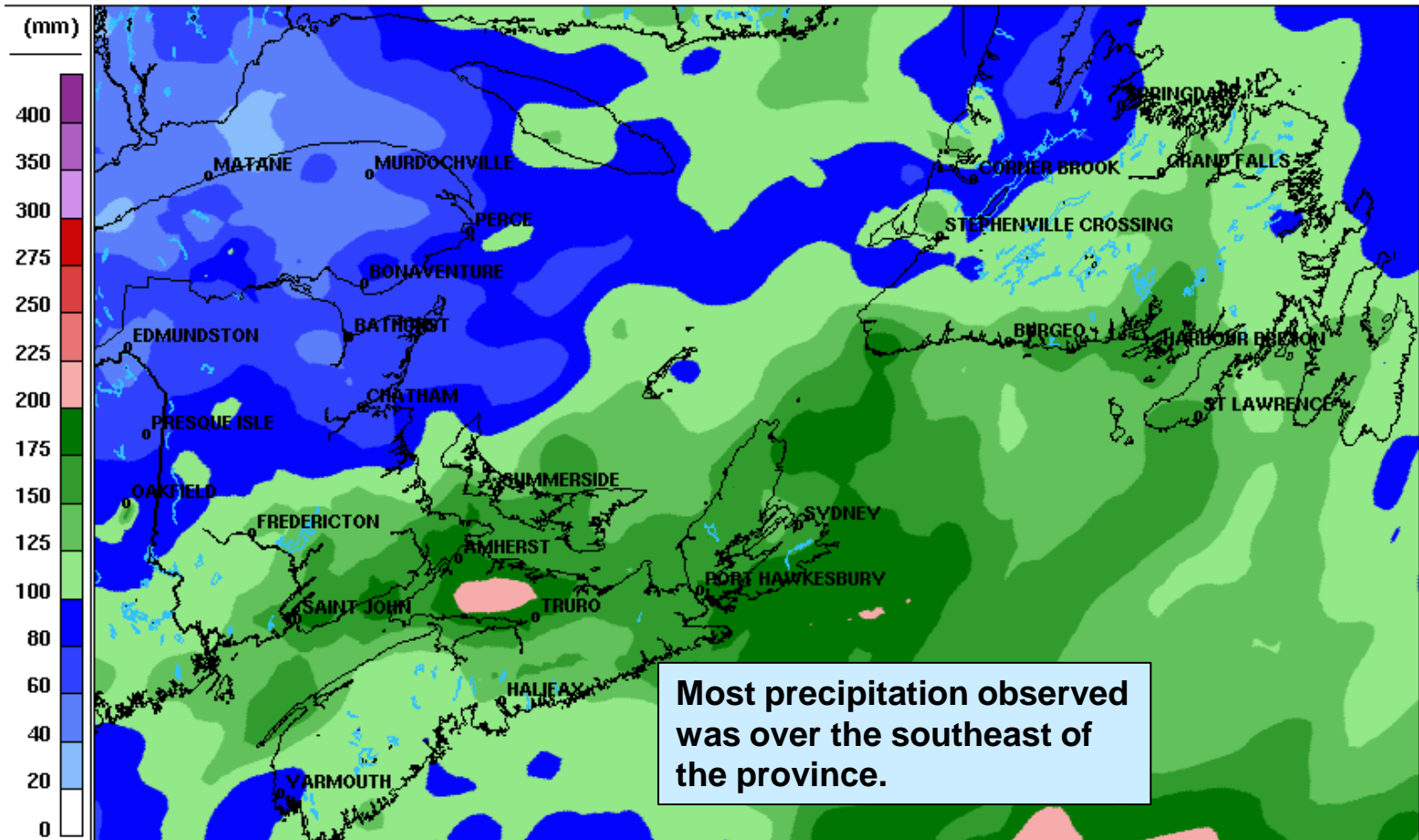
June 2018 Total Precipitation

Total precipitation: 201806
Précipitation totale: 201806



Gouvernement
du Canada

Government
of Canada



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



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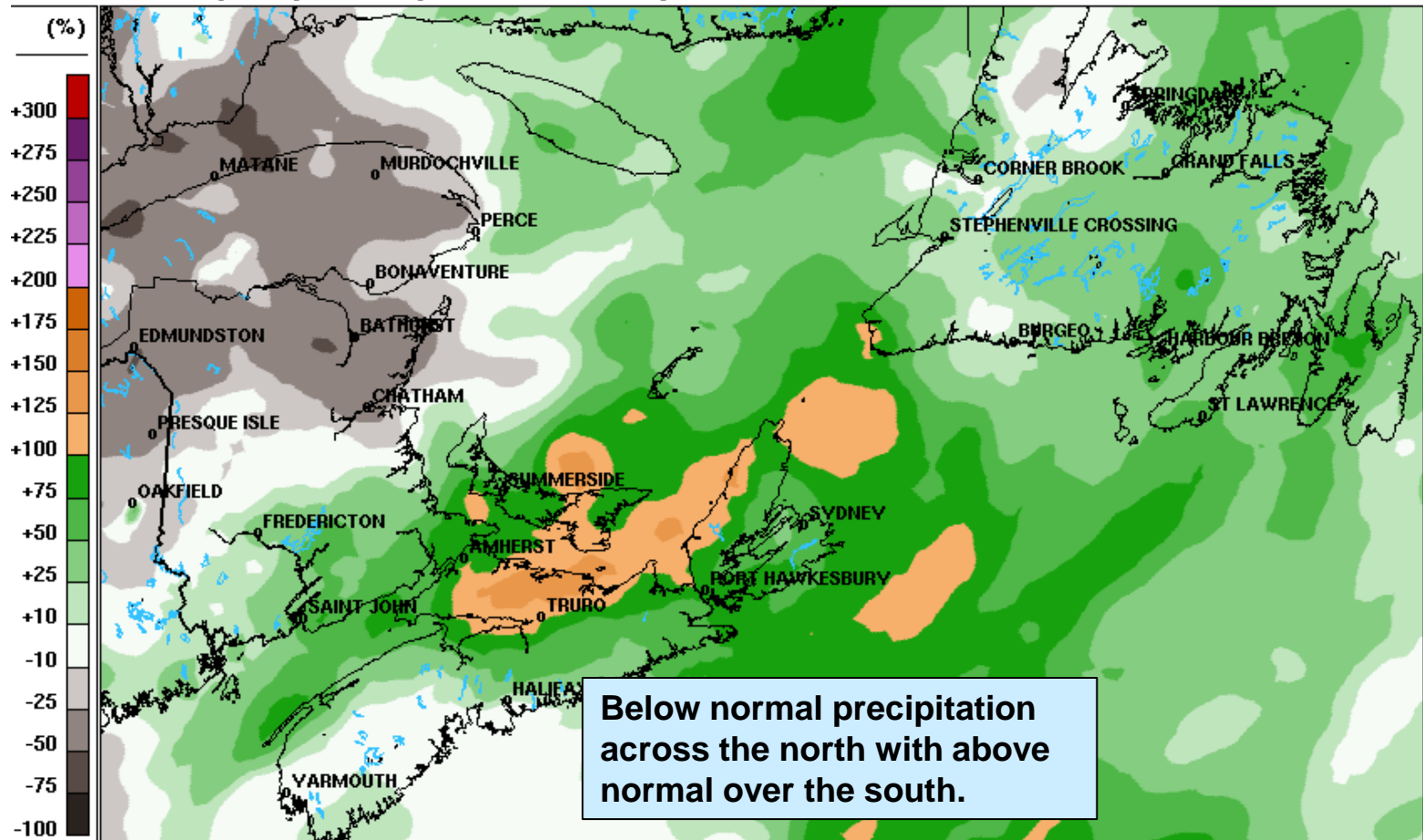
June 2018 Precipitation departure from 1981-2010 mean.

Precipitation Anomaly (% of normal): 201806
Anomalie de précipitation (% de la normale): 201806



Gouvernement du Canada

Government of Canada



ECCC NWP model gridded data / Données sur grille de modèle de PNT de ECCC. Normal: 2002-2016



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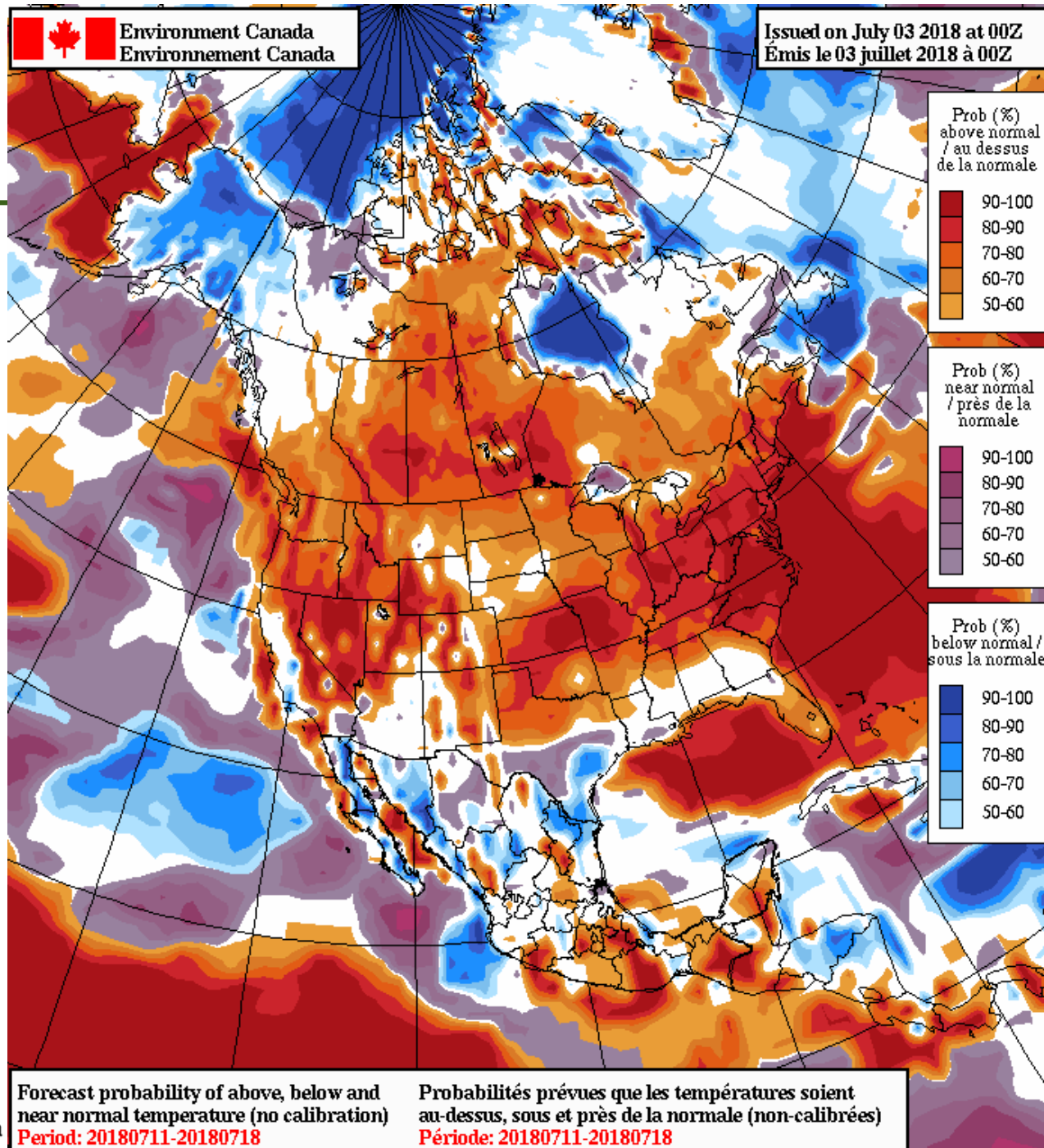
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Day 8 to 14 Forecast

Period ending
July 18, 2018

This is suggesting
above normal
conditions.





Fredericton

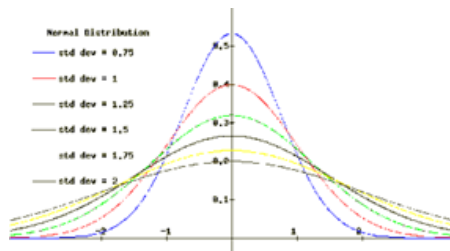
July

Normal high: 25.5C

Normal low: 13.0C

**Next 15 days;
ending July 18, 2018**

In general, the first few days of the period will see variable temperatures before reverting to near normal on July 9th.

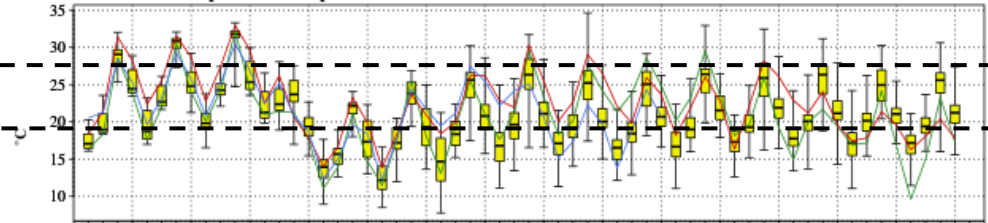


Ensemble and Deterministic Forecasts issued 3 July 2018 00 UTC
Prévision d'ensemble et déterministe émises le 3 Juillet 2018 00 UTC
for/pour

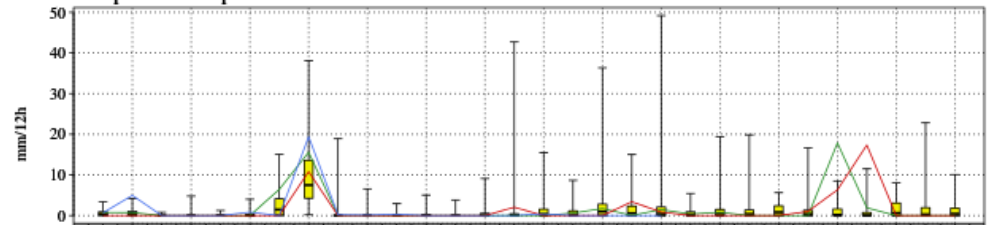
NAEFS / SPENA

FREDERICTON (YFC) 45.87 N 66.53 W/O

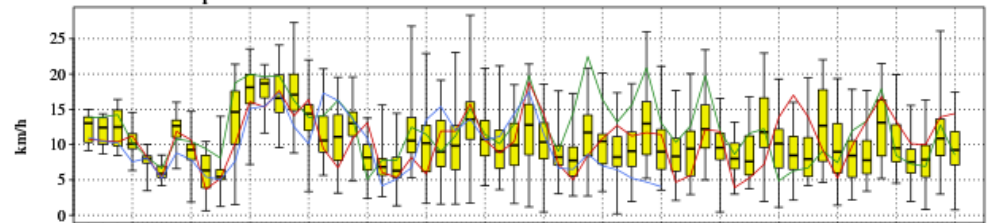
Surface Air Temperature/Température de l'air à la surface



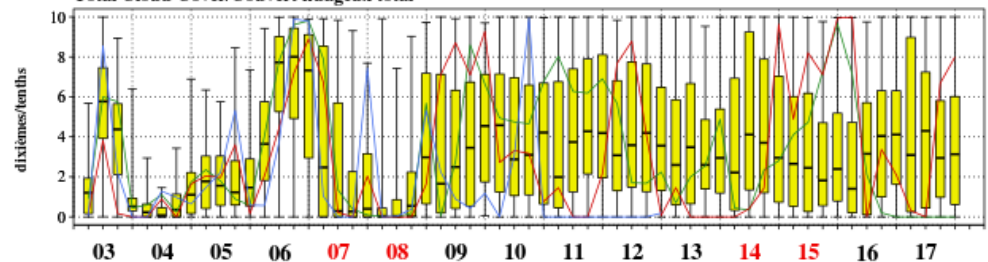
Precipitation/Précipitations



Surface Wind Speed/Vitesse du vent à la surface



Total Cloud Cover/Couvert nuageux total



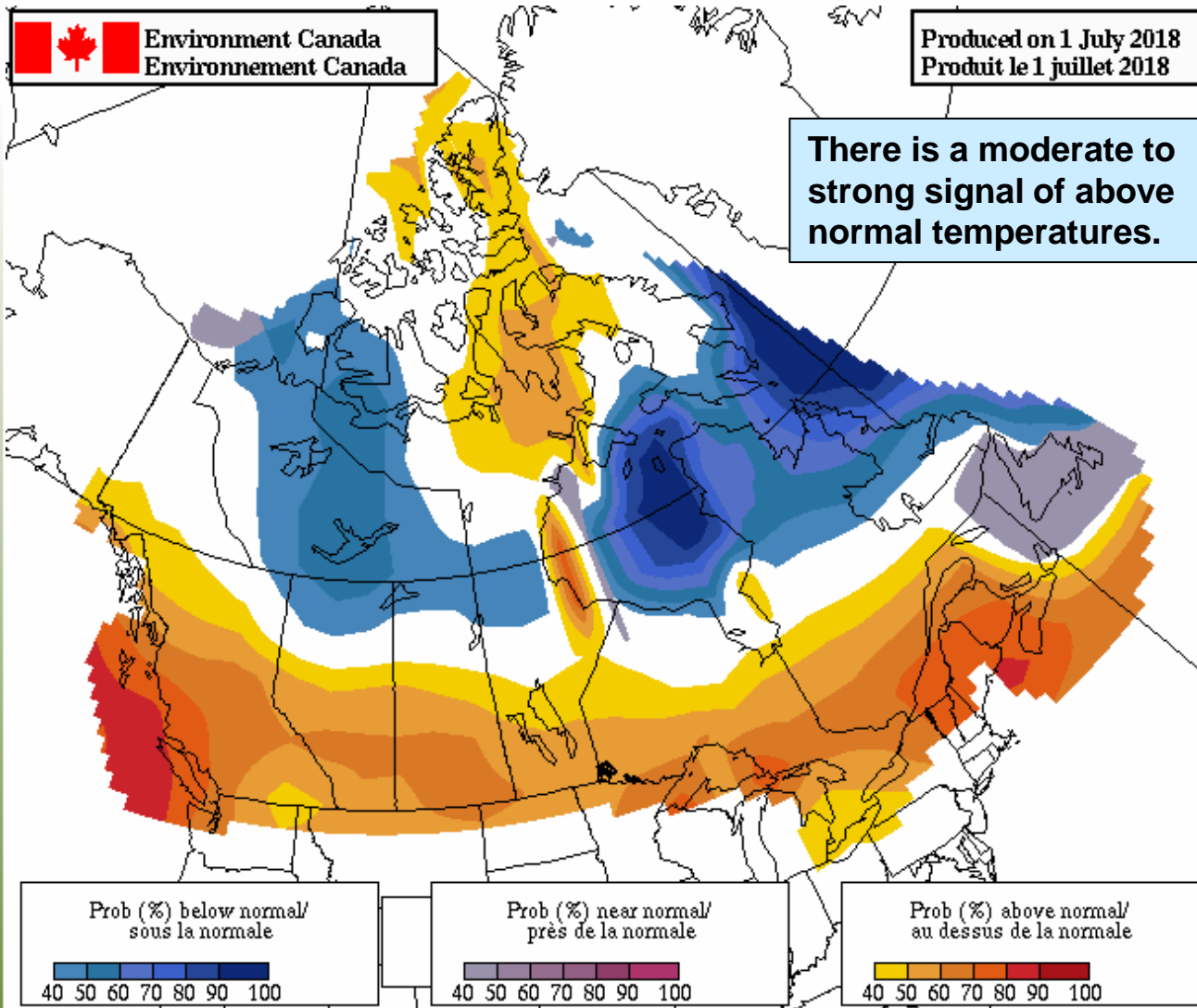
July/Juillet 2018

max
75%
median/médiane
25%
min

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



Temperature July 2018



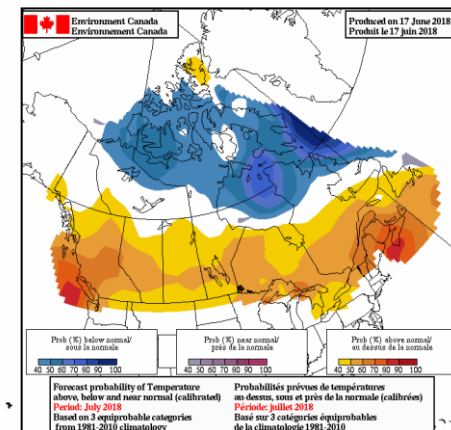
Forecast probability of Temperature above, below and near normal (calibrated)
Period: July 2018
 Based on 3 equiprobable categories from 1981-2010 climatology

Probabilités prévues de températures au-dessus, sous et près de la normale (calibrées)
Période: juillet 2018
 Basé sur 3 catégories équiprobables de la climatologie 1981-2010

CanSIPS
(Canadian Seasonal and Interannual Prediction System)

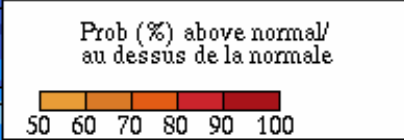
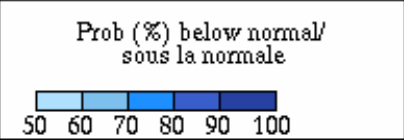
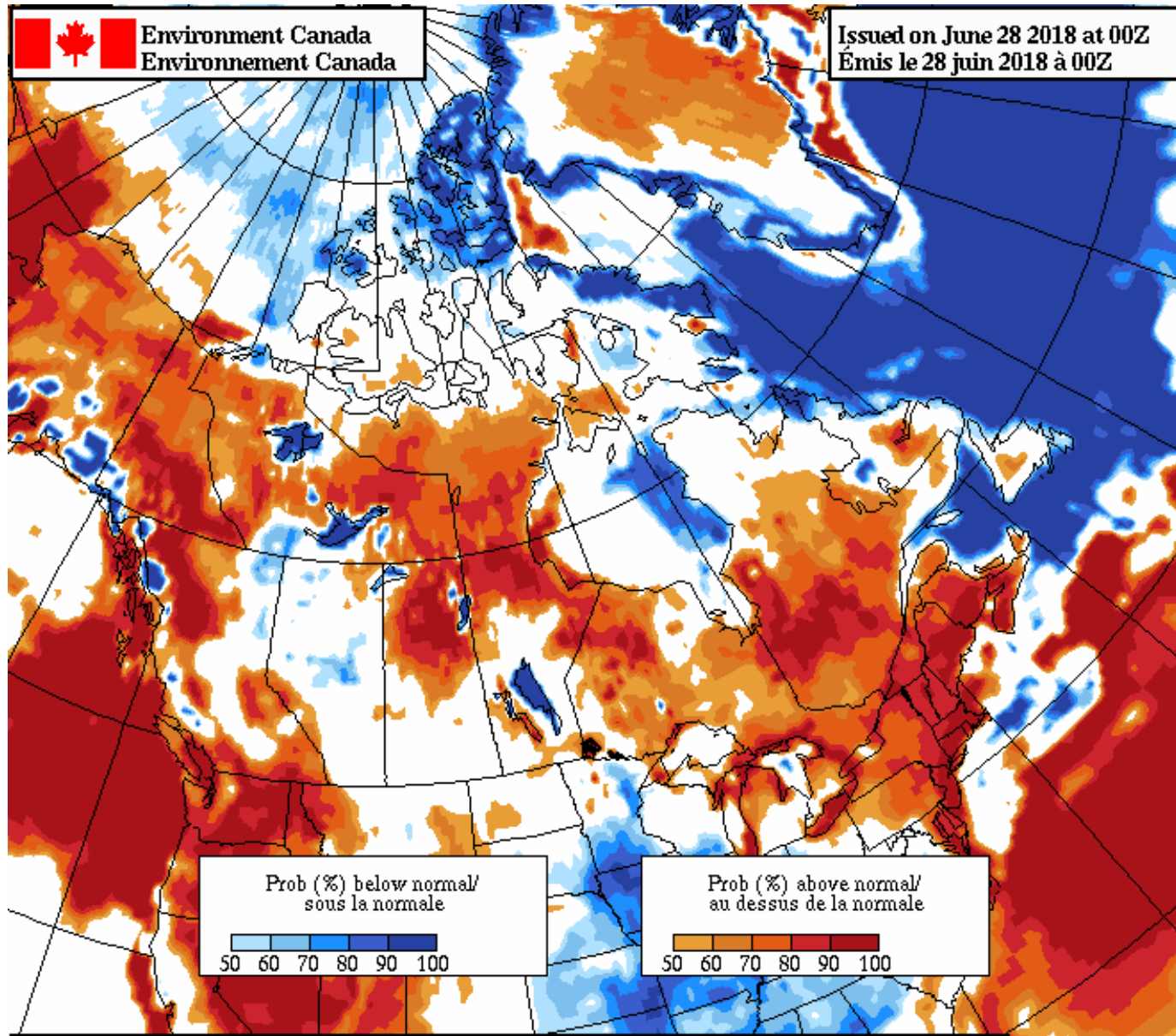
CanAM3
CanAM4
+
CanOM4

Produced June 17



Temperature July 2 to July 30

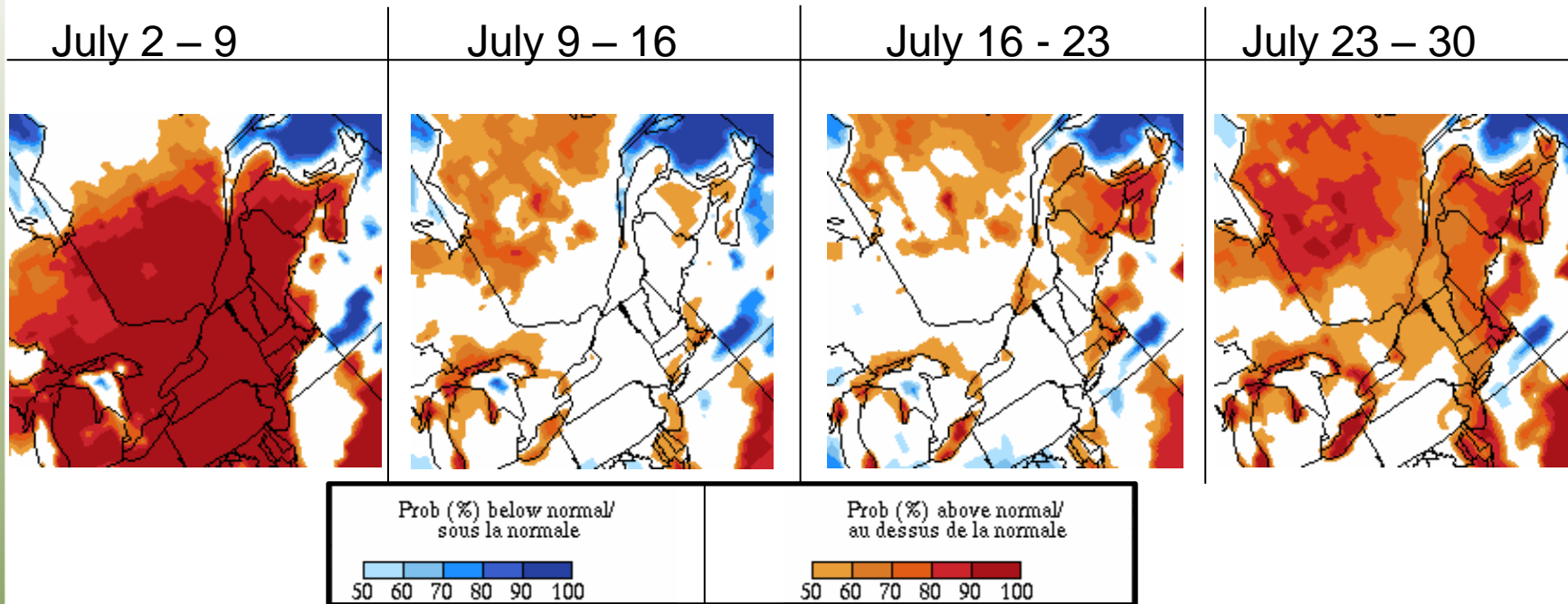
CMC
Monthly
Forecast
Product
using GEPS
50km res.



Forecast probability of above or below normal temperature
Period: 20180702-20180730

Probabilités prévues que les températures soient au-dessus et sous la normale
Période: 20180702-20180730

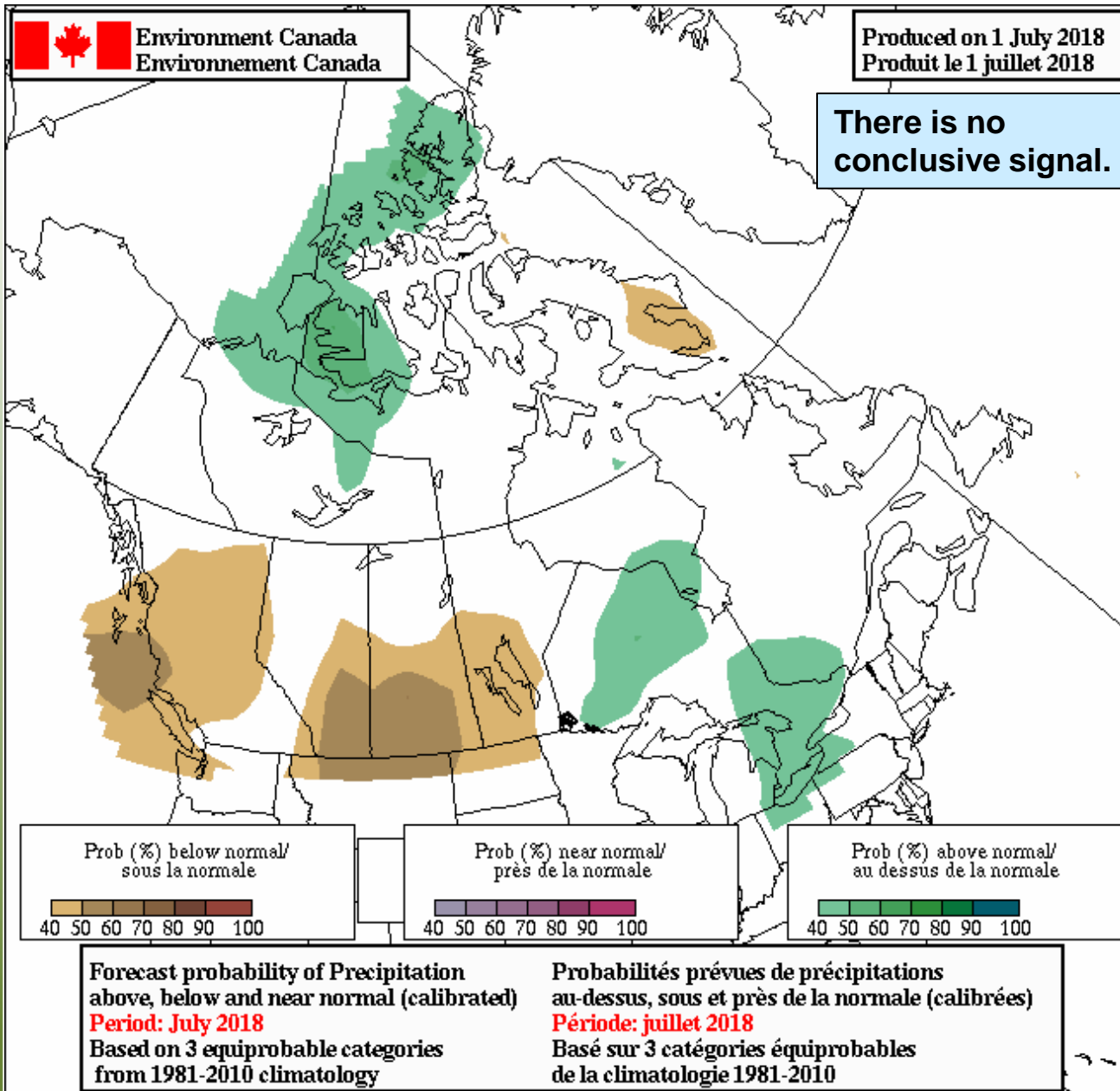
Weekly signature from GEPS 50km resolution



A weak to strong signal of above normal conditions for the entire month.



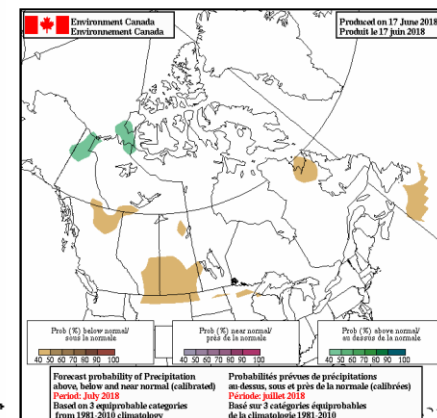
Precipitation July 2018



CanSIPS
(Canadian Seasonal and
Interannual Prediction
System)

CanAM3
CanAM4
+
CanOM4

Produced June 17



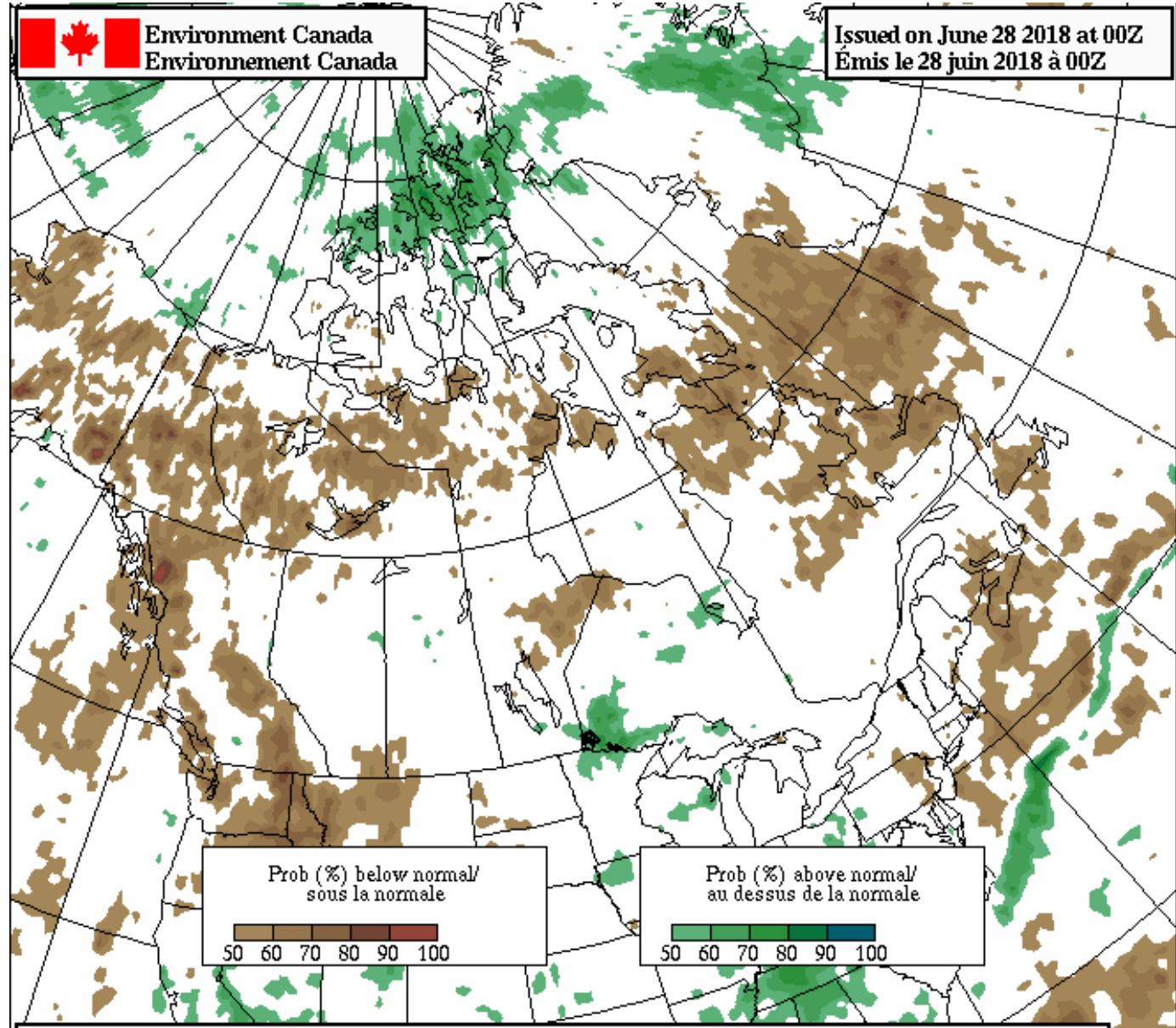
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Precipitation July 2 To July 30

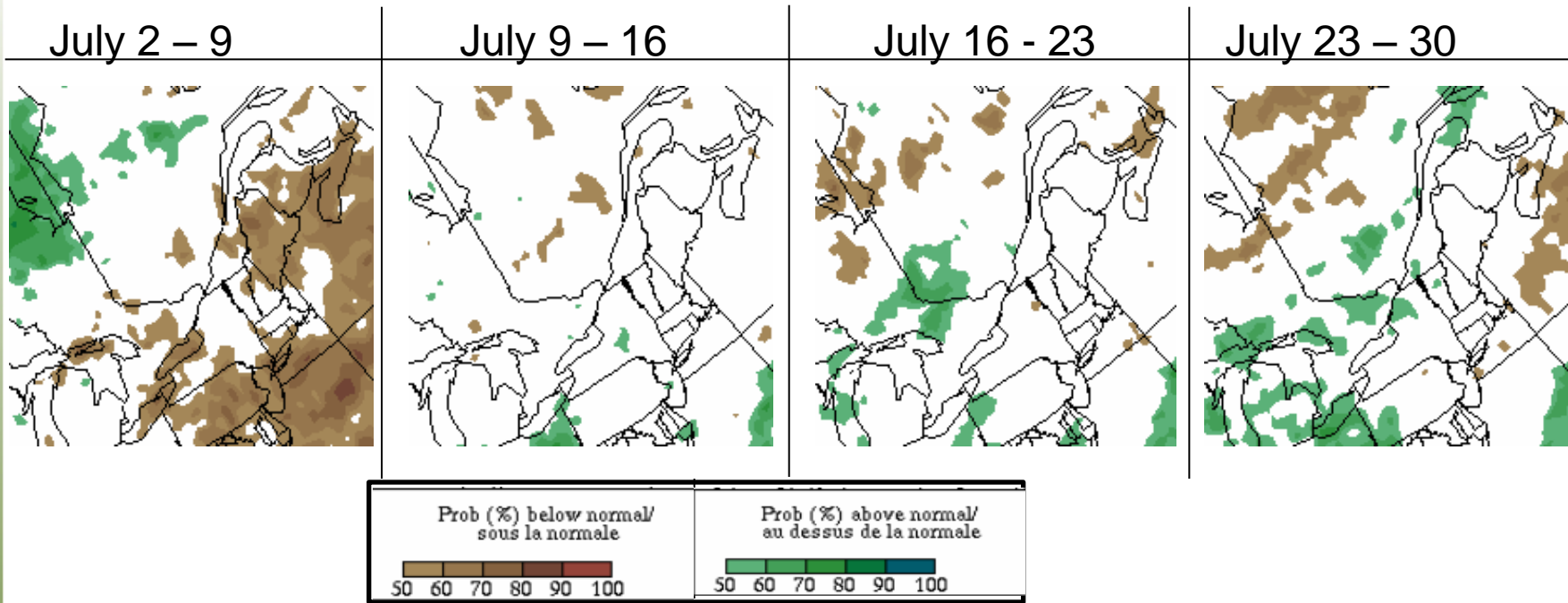
CMC
Monthly
Forecast
Product
using GEPS
50km res.



Forecast probability of above and below normal precipitation
Period: 20180702-20180730

Probabilités prévues que la quantité de précipitation soit au-dessus et sous la normale
Période: 20180702-20180730

Weekly signature from GEPS 50km resolution



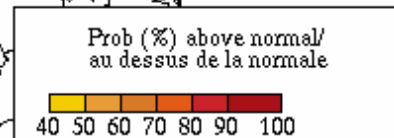
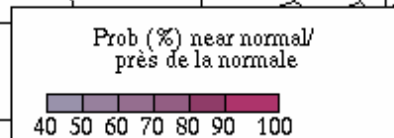
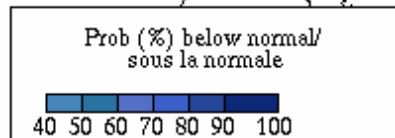
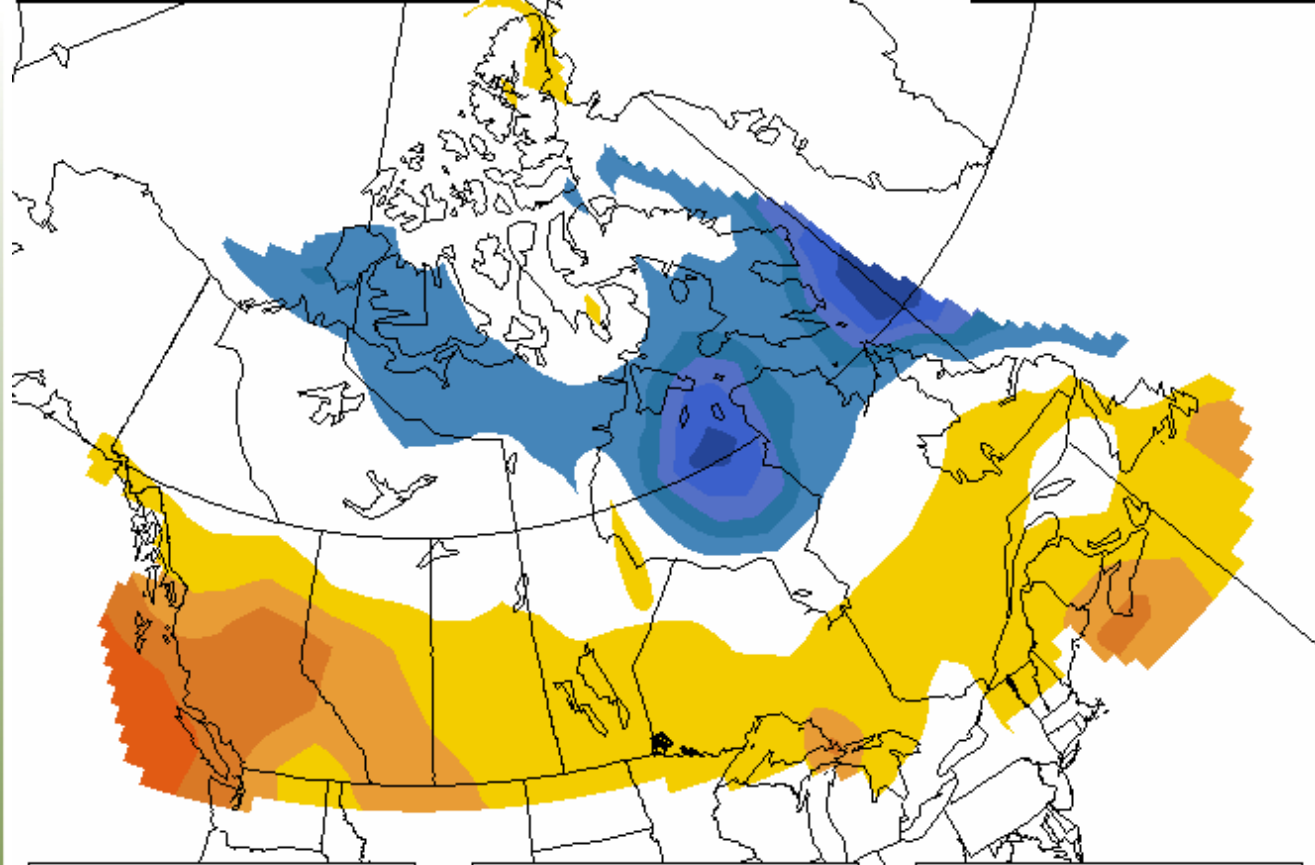
There is a weak signal of below normal through the first three weeks.



Temperature August 2018

 Environment Canada
Environnement Canada

Produced on 30 June 2018
Produit le 30 juin 2018



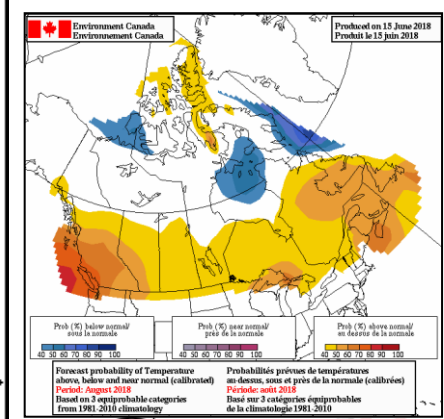
Forecast probability of Temperature above, below and near normal (calibrated)
Period: August 2018
Based on 3 equiprobable categories from 1981-2010 climatology

Probabilités prévues de températures au-dessus, sous et près de la normale (calibrées)
Période: août 2018
Basé sur 3 catégories équiprobables de la climatologie 1981-2010

CanSIPS
(Canadian Seasonal and Interannual Prediction System)

CanAM3
CanAM4
+
CanOM4

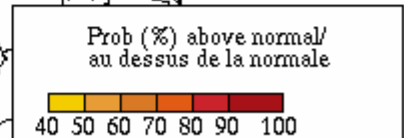
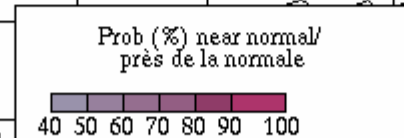
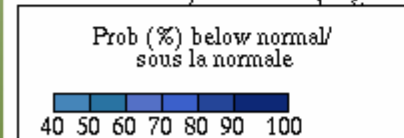
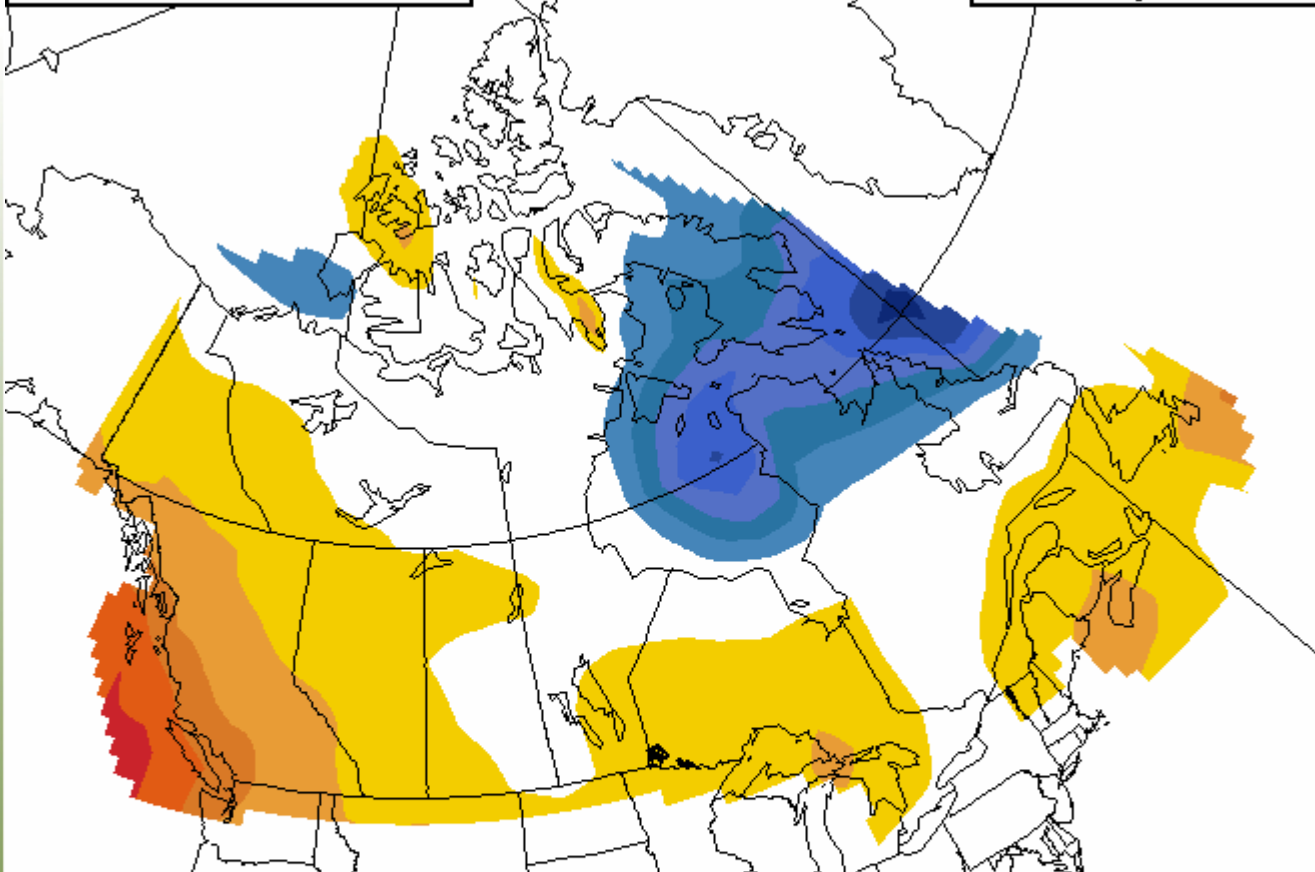
Produced June 15



Temperature September 2018

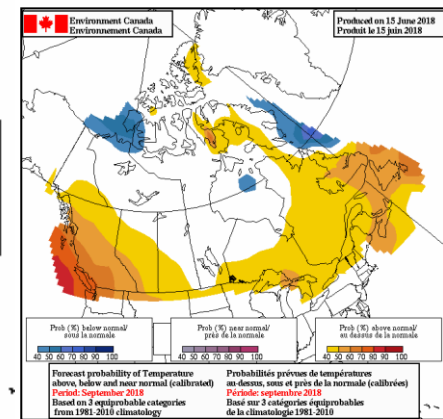
CanSIPS
(Canadian Seasonal and
Interannual Prediction
System)

CanAM3
CanAM4
+
CanOM4



<p>Forecast probability of Temperature above, below and near normal (calibrated) Period: September 2018 Based on 3 equiprobable categories from 1981-2010 climatology</p>	<p>Probabilités prévues de températures au-dessus, sous et près de la normale (calibrées) Période: septembre 2018 Basé sur 3 catégories équiprobables de la climatologie 1981-2010</p>
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Produced June 15



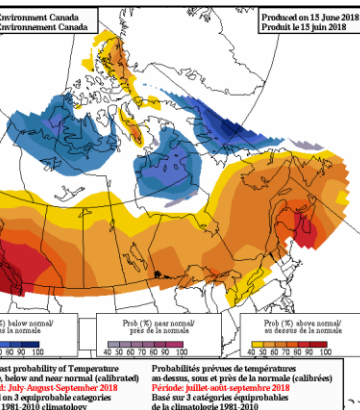
Temperature



July
August
September
2018

NB (J., A., S.)
Normal; 23/11

Produced June 15



Environment Canada
Environnement Canada

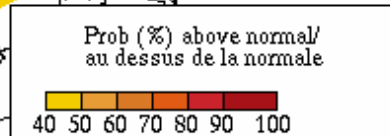
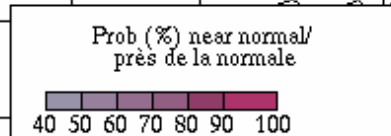
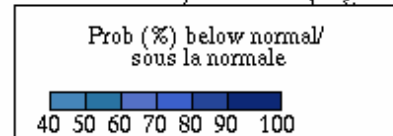
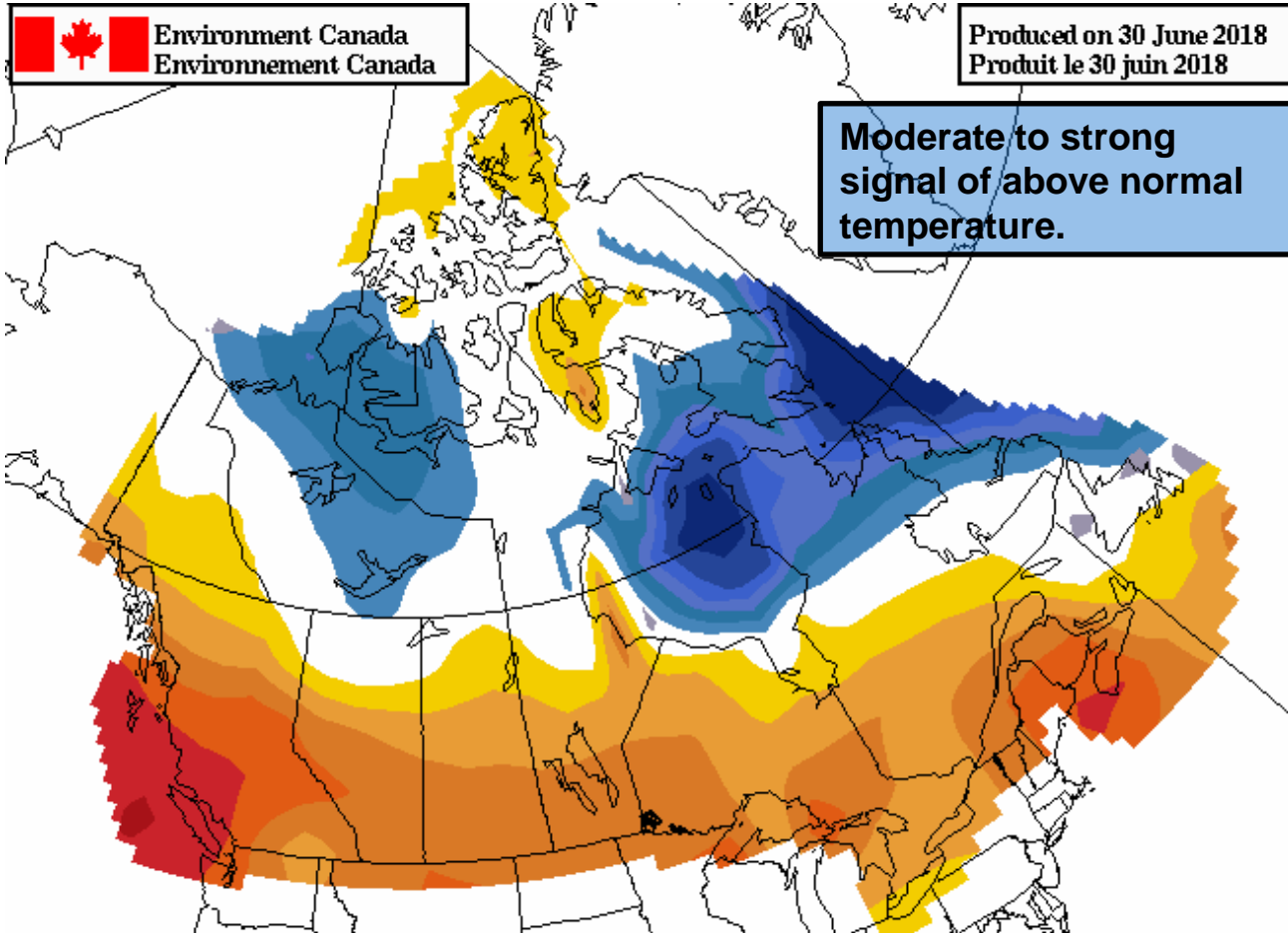
Produced on 15 June 2018
Produit le 15 juin 2018

Forecast probability of Temperature above, below and near normal (calibrated)
Période: July-August-September 2018
Based on 3 equiprobable categories from 1981-2010 climatology

Probabilités prévues de températures au-dessus, sous et près de la normale (calibrées)
Période: juillet-août-septembre 2018
Basé sur 3 catégories équiprobables de la climatologie 1981-2010

Produced on 30 June 2018
Produit le 30 juin 2018

Moderate to strong signal of above normal temperature.



Forecast probability of Temperature above, below and near normal (calibrated)
Période: July-August-September 2018
Based on 3 equiprobable categories from 1981-2010 climatology

Probabilités prévues de températures au-dessus, sous et près de la normale (calibrées)
Période: juillet-août-septembre 2018
Basé sur 3 catégories équiprobables de la climatologie 1981-2010



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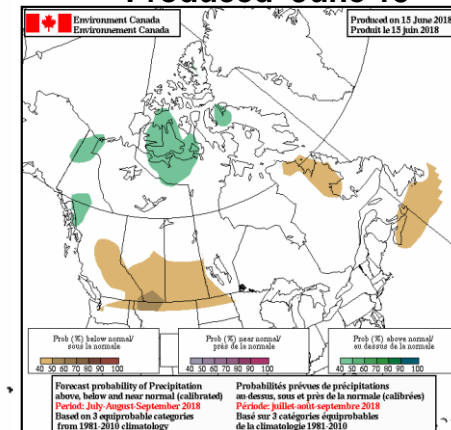
Precipitation



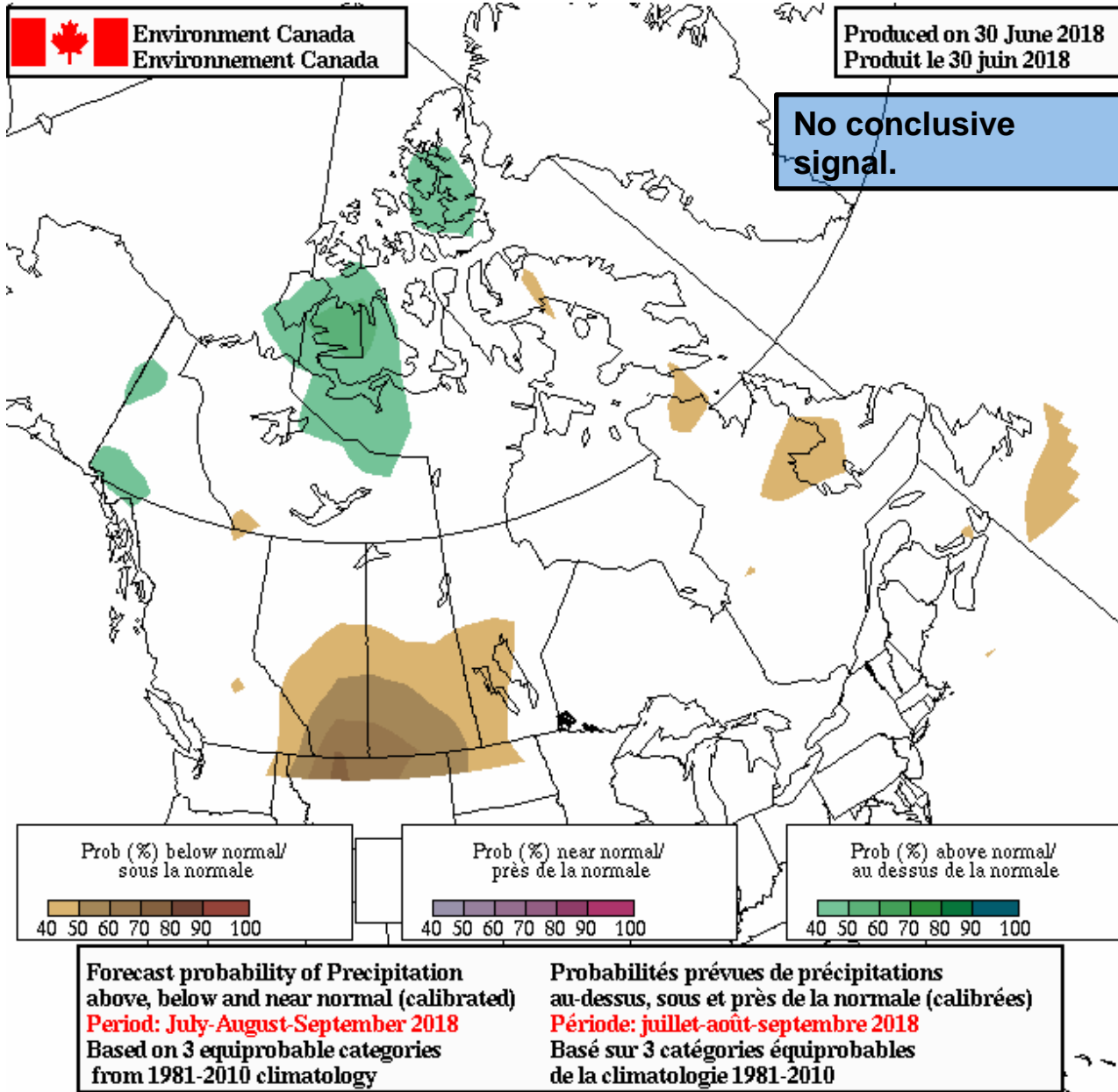
July
August
September
2018

Normal:
Precip: ~262mm

Produced June 15



Canada



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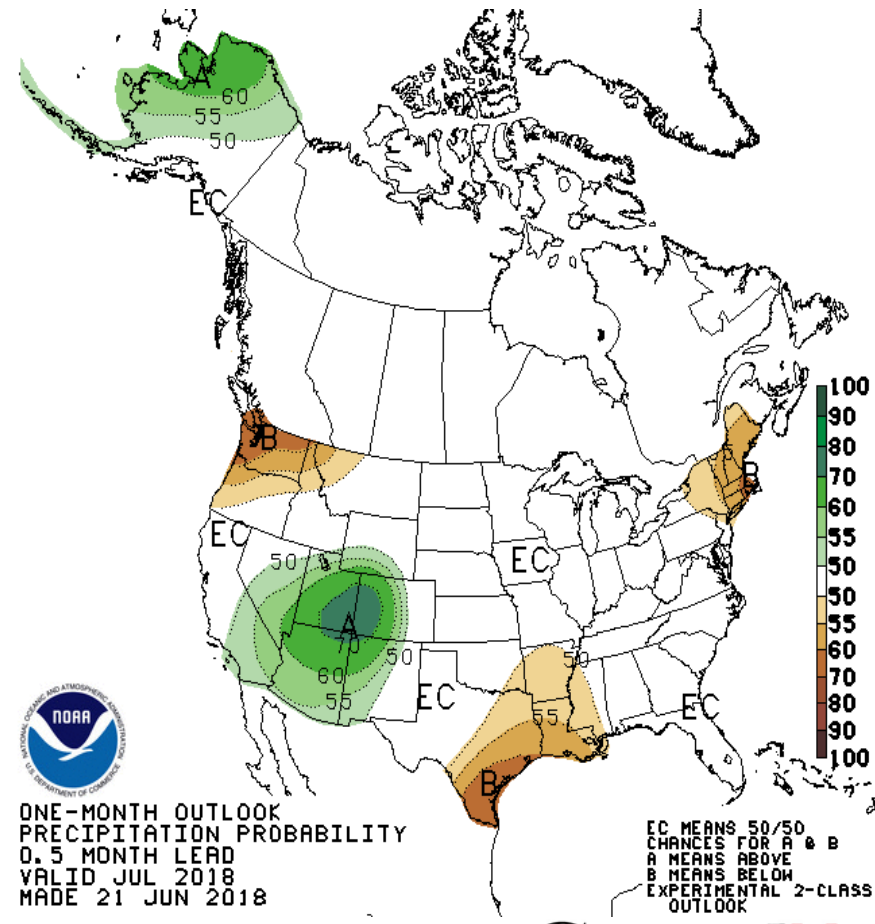
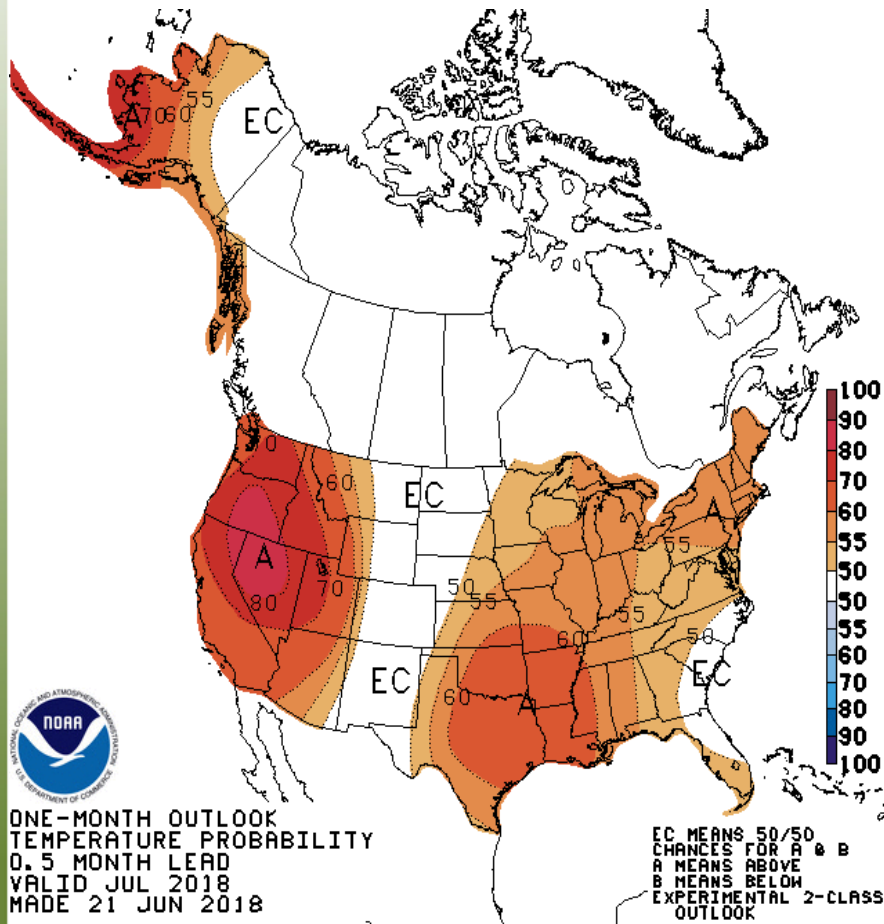
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July 2018

Temperature

Precipitation



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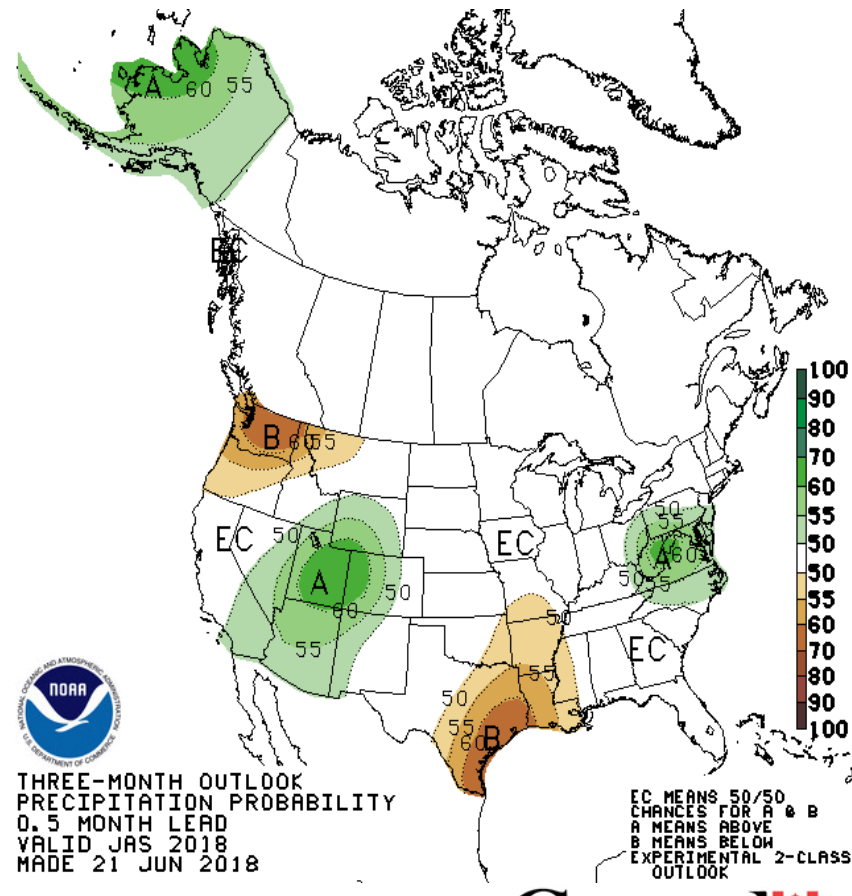
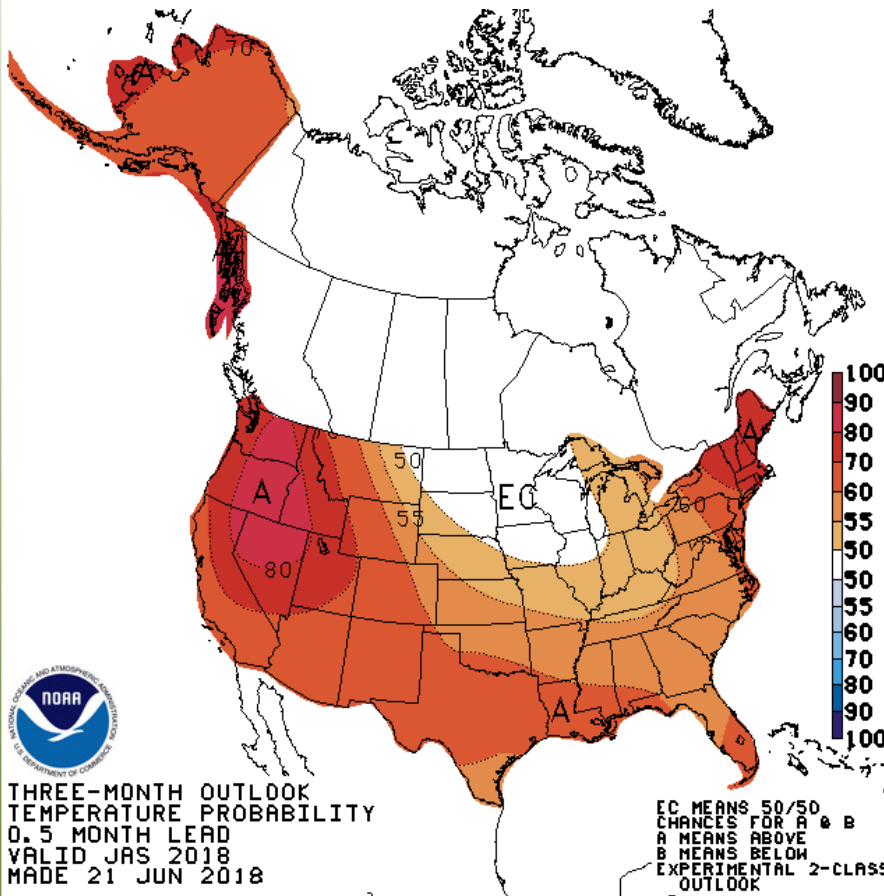
Canada



July - August - September 2018

Temperature

Precipitation



Contact

Jill Maepea

Warning Preparedness Meteorologist

506-452-4166 office

jill.maepea@canada.ca

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Canada Weather Pages

www.weather.gc.ca

