

New Brunswick Water Resource Report

June 2020

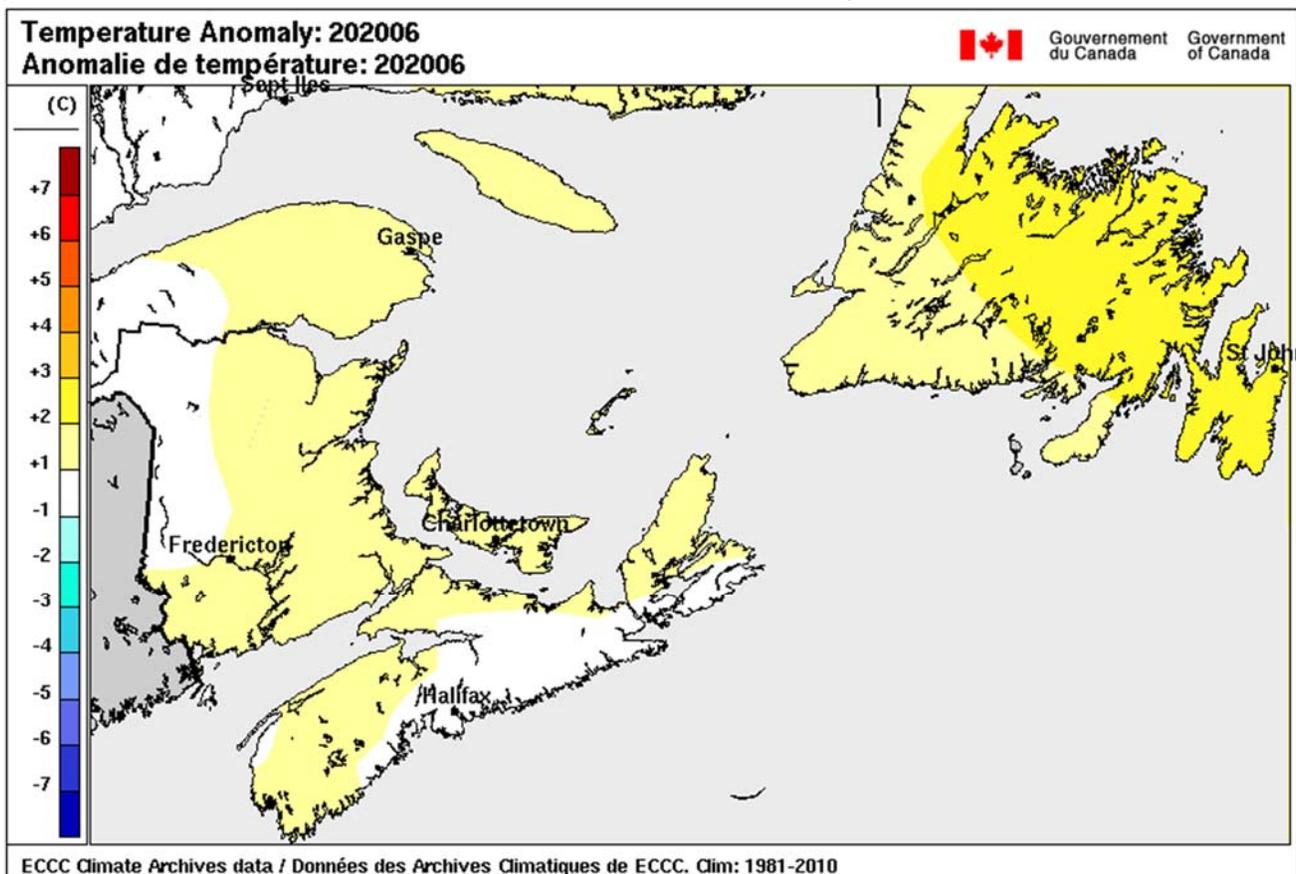
The New Brunswick Water Resource Report is the monthly summary of climate, stream flows and groundwater conditions in the province. The climate portion of the report is provided by Environment and Climate Change Canada (ECCC). The stream flow and groundwater summaries as well as the New Brunswick water condition outlook are provided by the New Brunswick Department of Environment and Local Government (NBELG).

Climate summary

The average provincial temperature anomaly was above normal (+1.3C). Positive anomalies were observed at all sites. The first half of June was below normal but was averaged out with a much above normal second half.

Provincial total precipitation amounts were much below normal, with an average of 31% of total precipitation. Bas Caraquet, Bouctouche, Charlo, and Sackville areas reported their driest June on record with several other sites recording their top 5 driest. All sites reported less than half of their normal precipitation with the exception of Saint John.

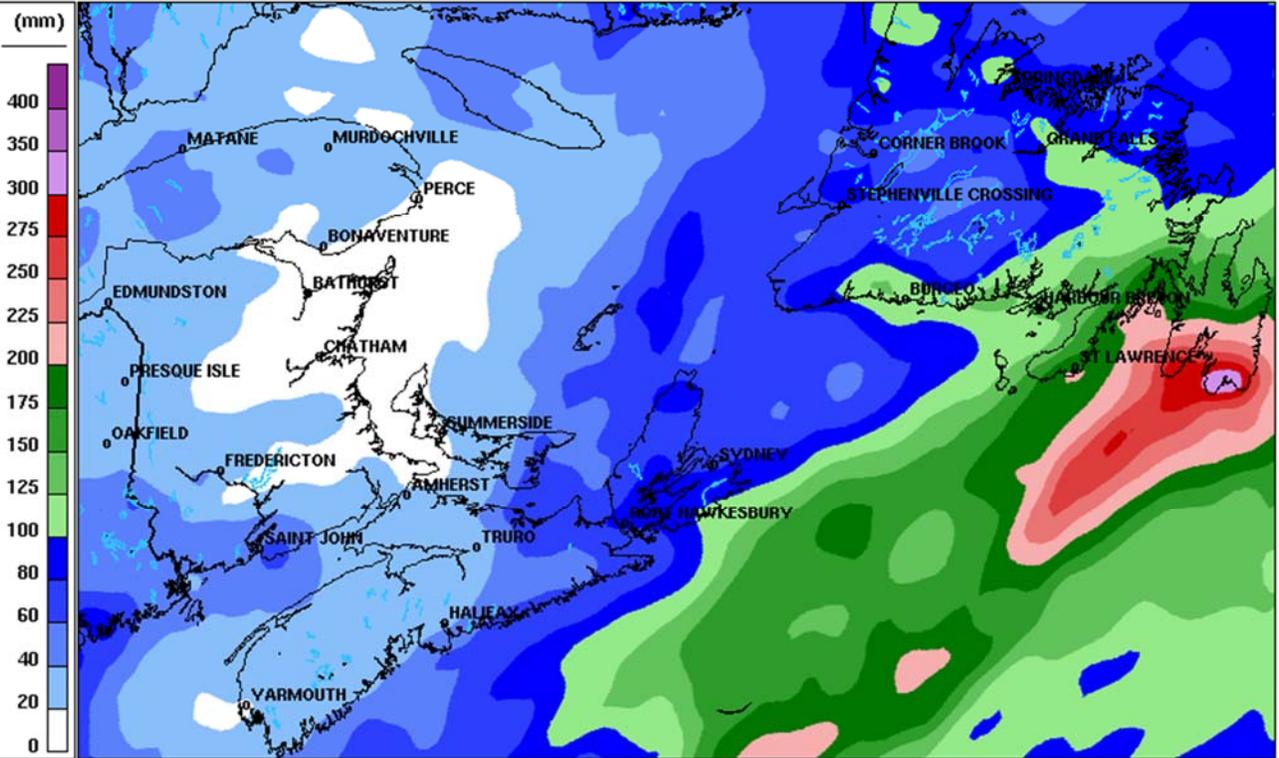
Note: precipitation (only) text summary (above) uses 1981-2010 climate data while the map uses 2002-2019 data, therefore some differences can be expected.



Total precipitation: 202006
Précipitation totale: 202006



Gouvernement du Canada / Government of Canada

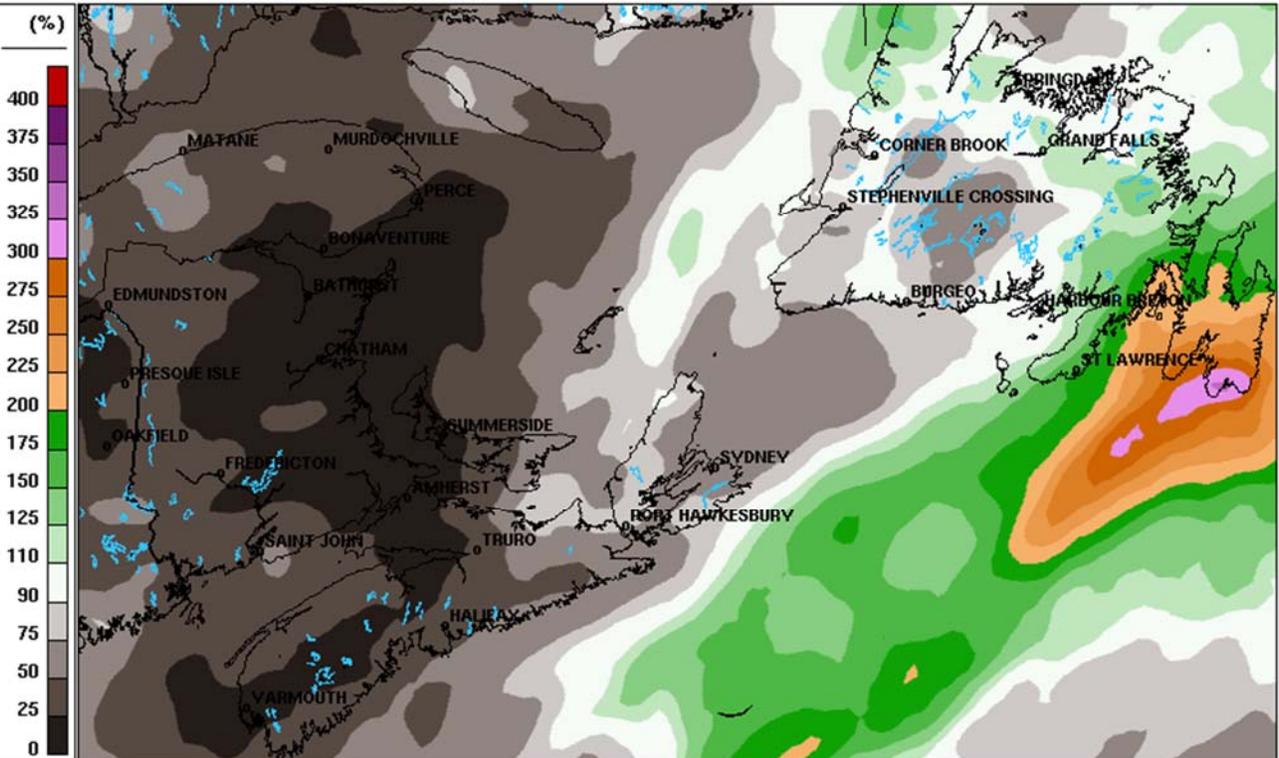


ECCC NWP model gridded data / Données sur grille de modèle de PNT de ECCC

Precipitation Relative Total: 202006
Total relatif de précipitation: 202006



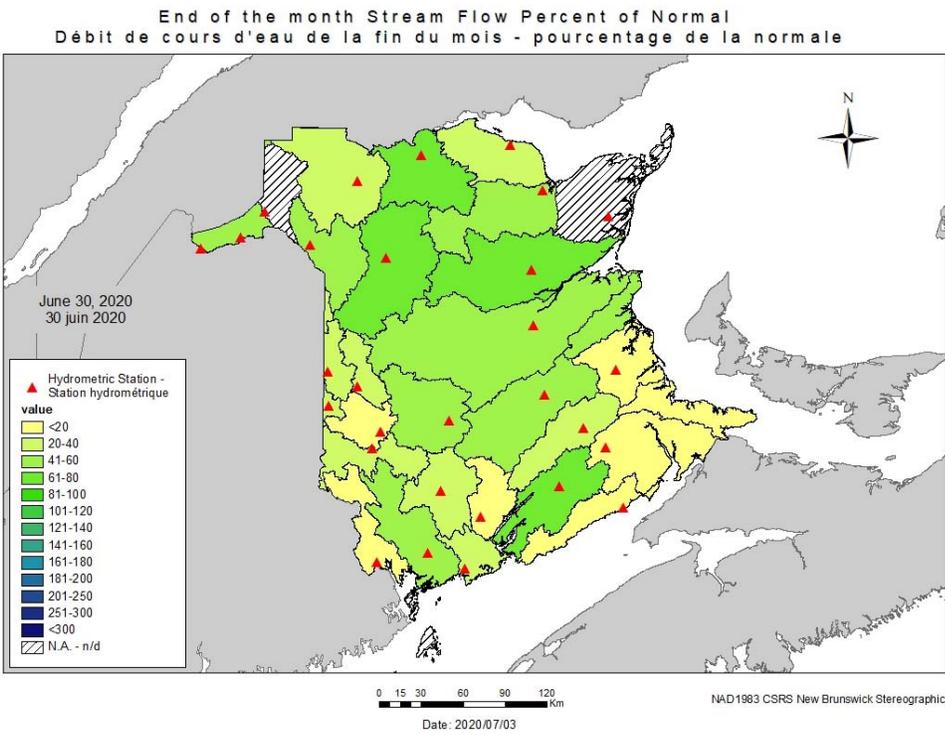
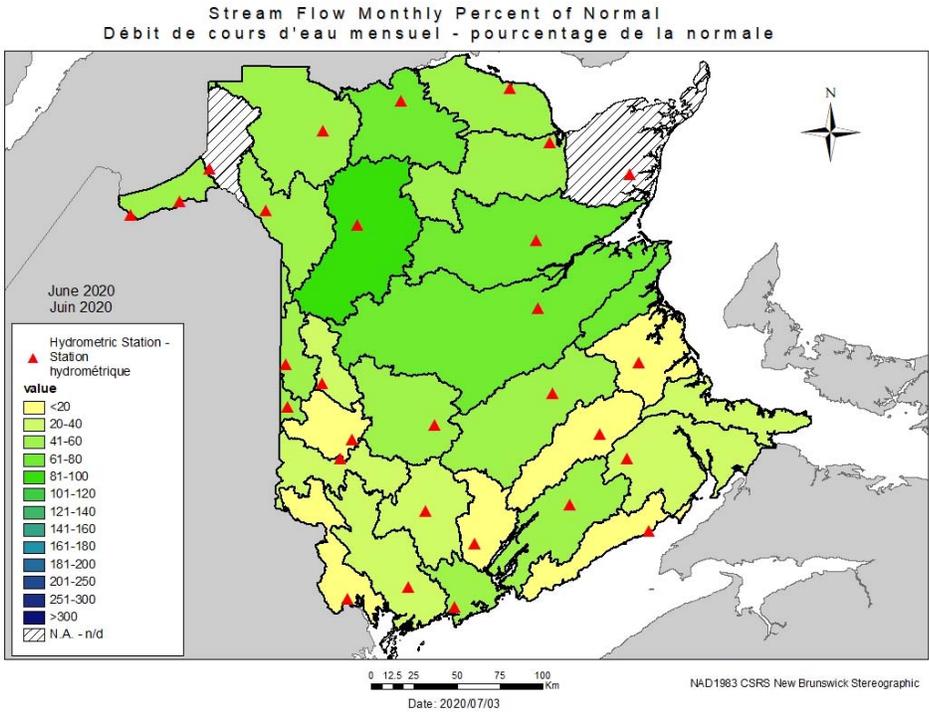
Gouvernement du Canada / Government of Canada



ECCC NWP model gridded data / Données sur grille de modèle de PNT de ECCC. Cim: 2002-2019

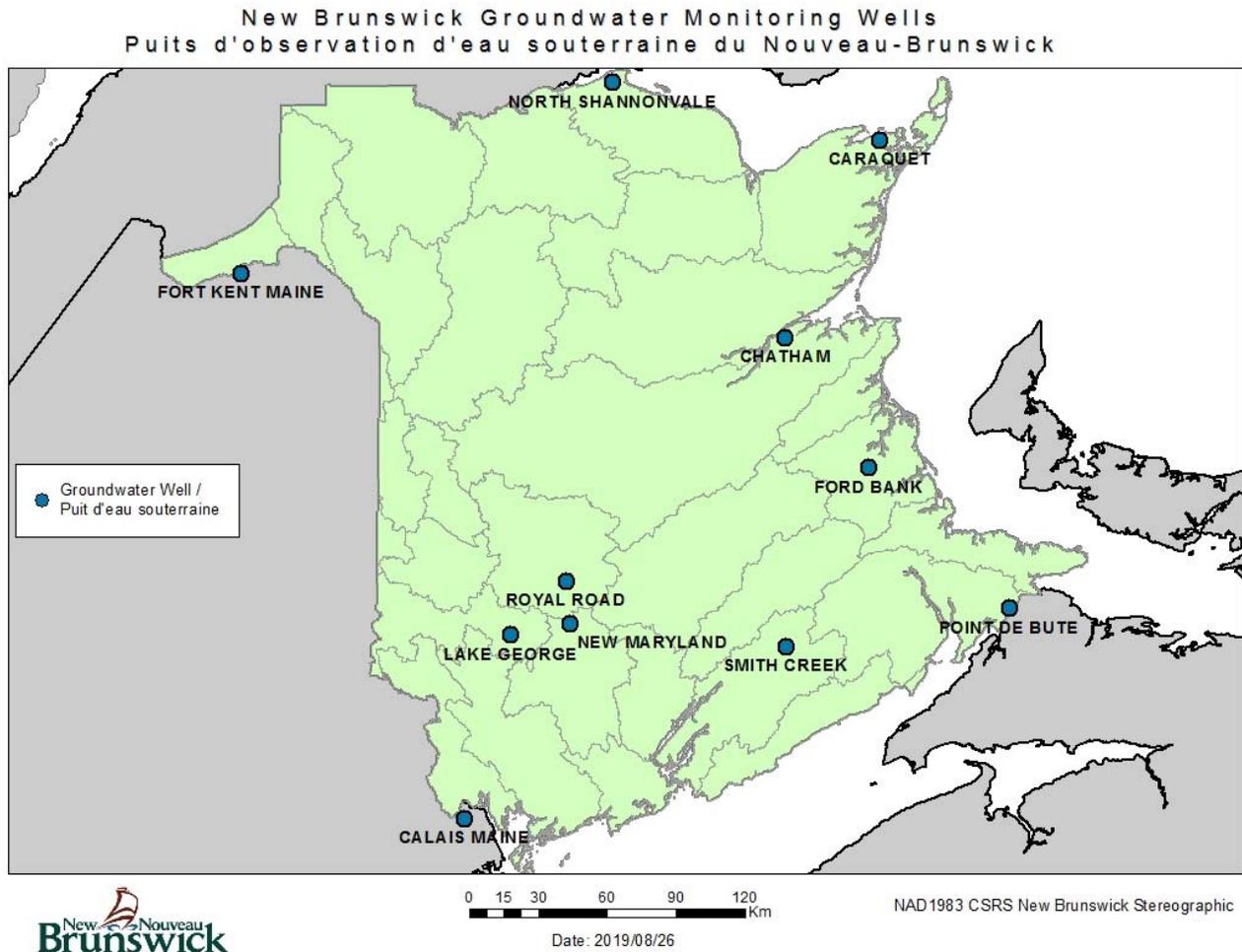
Stream Flow Summary

Stream flow amounts for the month of June were below normal for most of the province, with watersheds in the south recording less than 45% of normal stream flows for June. The gauges at Coal Branch, Point Wolfe and Nackawic all had water levels below the most up to date stage-discharge rating curves and had to be estimated for a portion of the month. At the end of the month, all watersheds in the province had below normal stream flows, with quite a few watersheds in the south with flows below 20% of normal for the end of June.



Groundwater Levels Summary

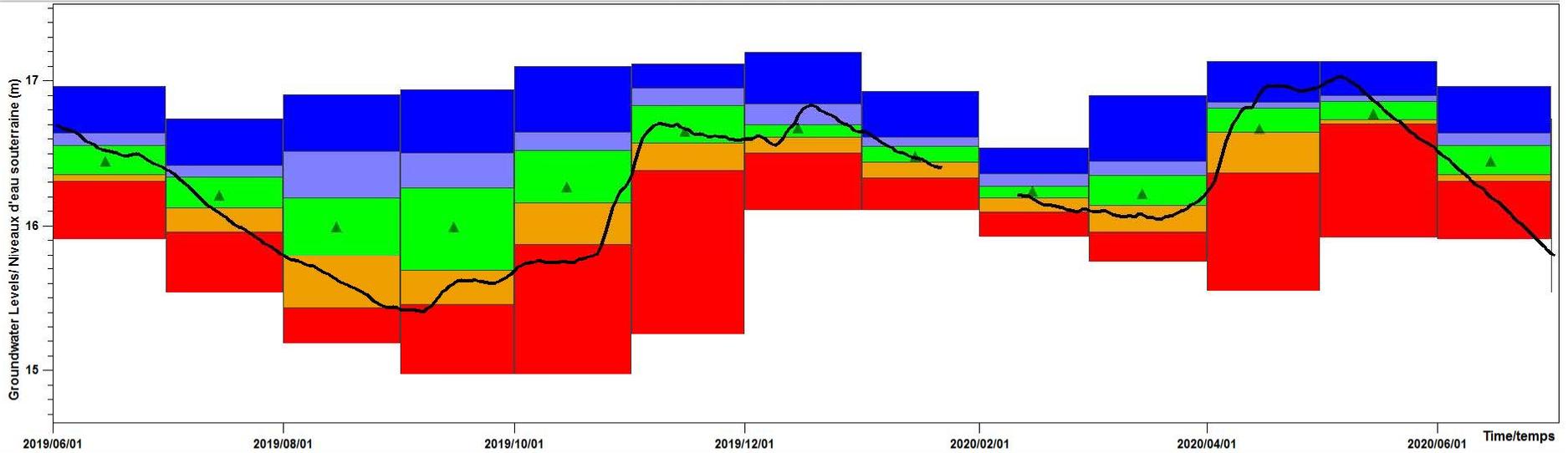
Most groundwater observation wells started June with average to below average groundwater levels. The only exception was the Miramichi observation well, which started the month with above average groundwater levels. All groundwater levels decreased throughout the month. At the end of June, all groundwater observation wells had groundwater levels below the 10th percentile. With the wells at North Shannonvale, point du Bute and Lake George recording new monthly record lows for June. The well at Calais had groundwater levels of 0.20 m above average and the Fort Kent Maine well had groundwater levels of 0.10 m above average



Puits d'observation d'eau souterraine
North Shannonvale

Groundwater Observation Well

06/01/2019 to 07/02/2020



	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Period of record / Période de relevé - 2004- 2020

Top of well casing is at 20 m assumed datum /

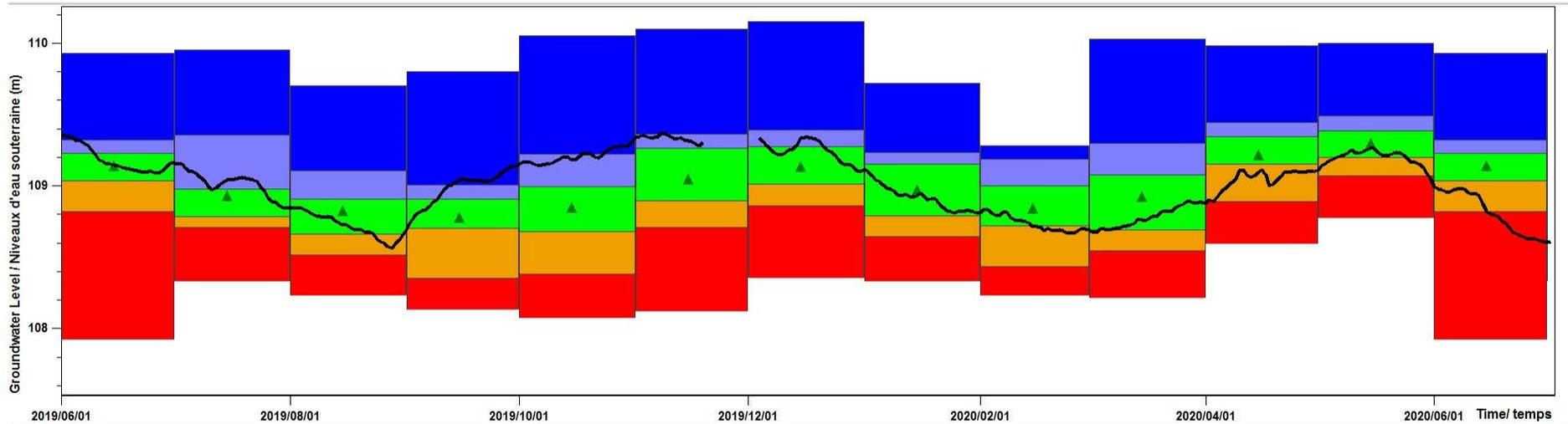
Le sommet du tubage du puits se situe à 20 m selon le niveau de référence hypothétique



Puits d'observation d'eau souterraine
Royal Road

Groundwater Observation Well

06/01/2019 to 07/02/2020



	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Period of Record / Période de relevé - 1981- 1992, 2001 - 2020

Ground surface elevation 119.61 metres above sea level /

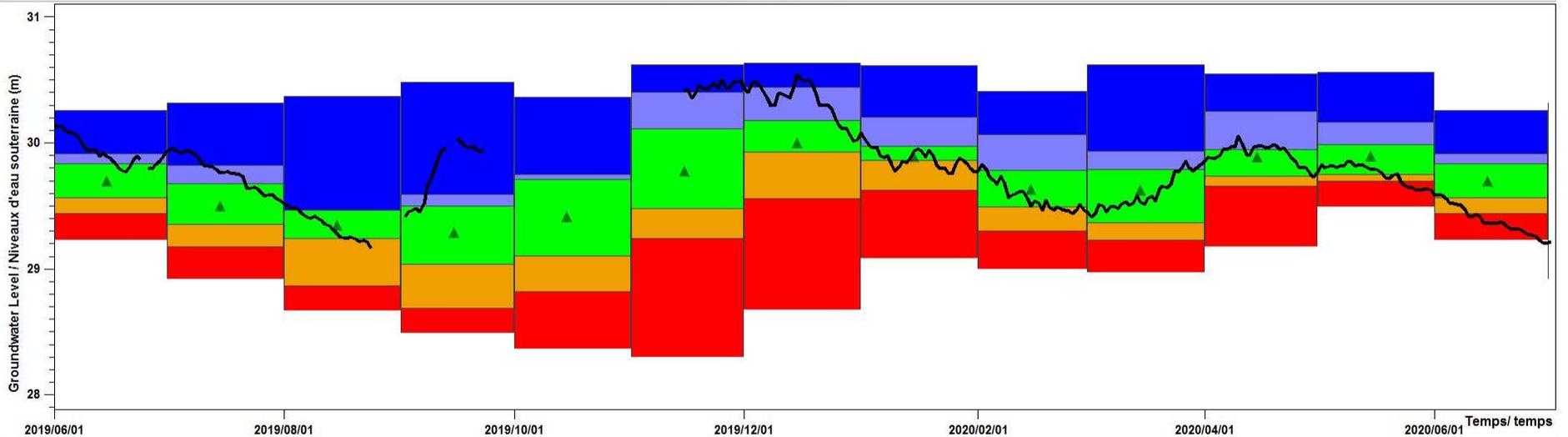
Élévation de la surface du sol 119.61 metres au-dessus du niveau de la mer



Puits d'observation d'eau souterraine
Point de Bute

Groundwater Observation Well

06/01/2019 to 07/02/2020



	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Period of Record / Période de relevé - 2004 - 2020

Top of well casing is at 30.6 m assumed datum /

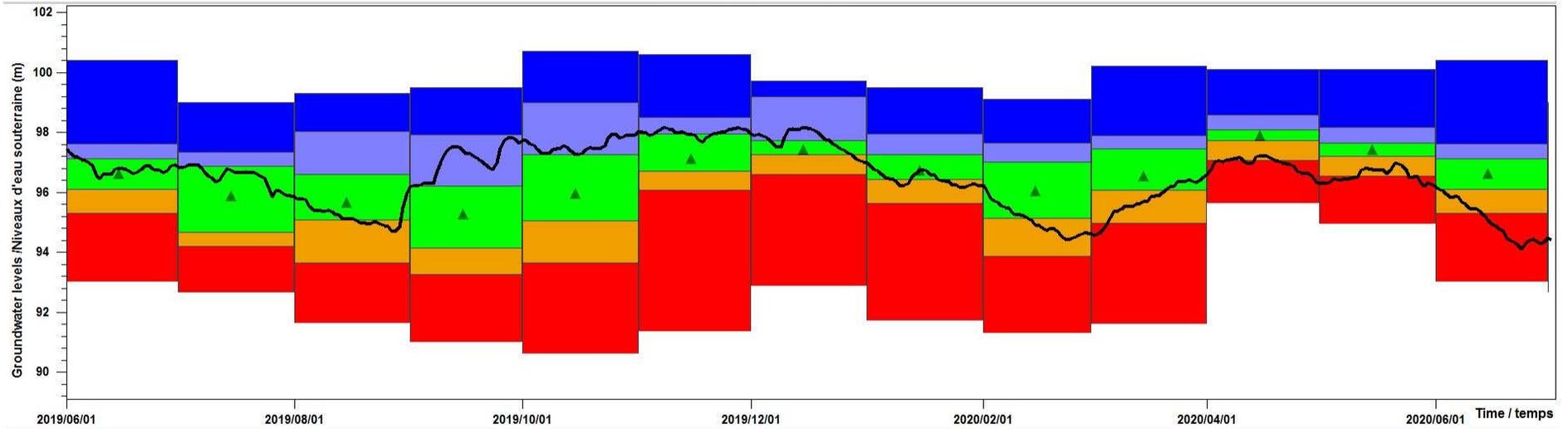
Le sommet du tubage du puits se situe à 30.6 m selon le niveau de référence hypothétique



Puits d'observation d'eau souterraine
New Maryland

Groundwater Observation Well

06/01/2019 to 07/02/2020



	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Period of Record / Période de relevé 1979- 1992, 2001 - 2020

Ground surface elevation 107.93 metres above sea level /

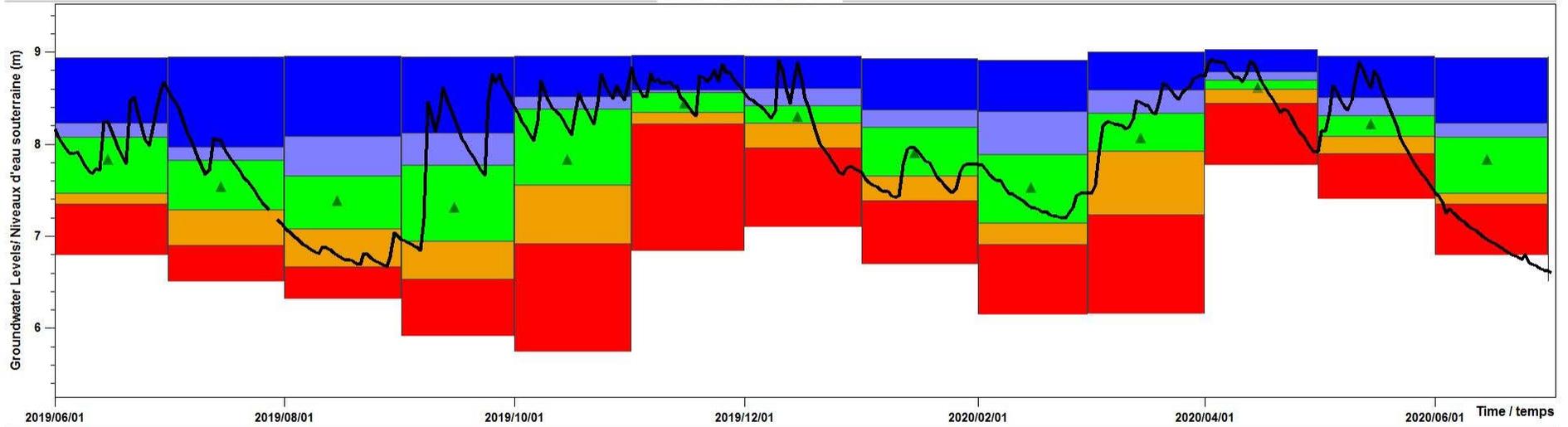
Élévation de la surface du sol 107.93 metres au-dessus du niveau de la mer



Puits d'observation d'eau souterraine
Lake George

Groundwater Observation Well

06/01/2019 to 07/02/2020



	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Period of Record / Période de relevé - 2005 - 2020

Top of well casing is at 10 m assumed datum /

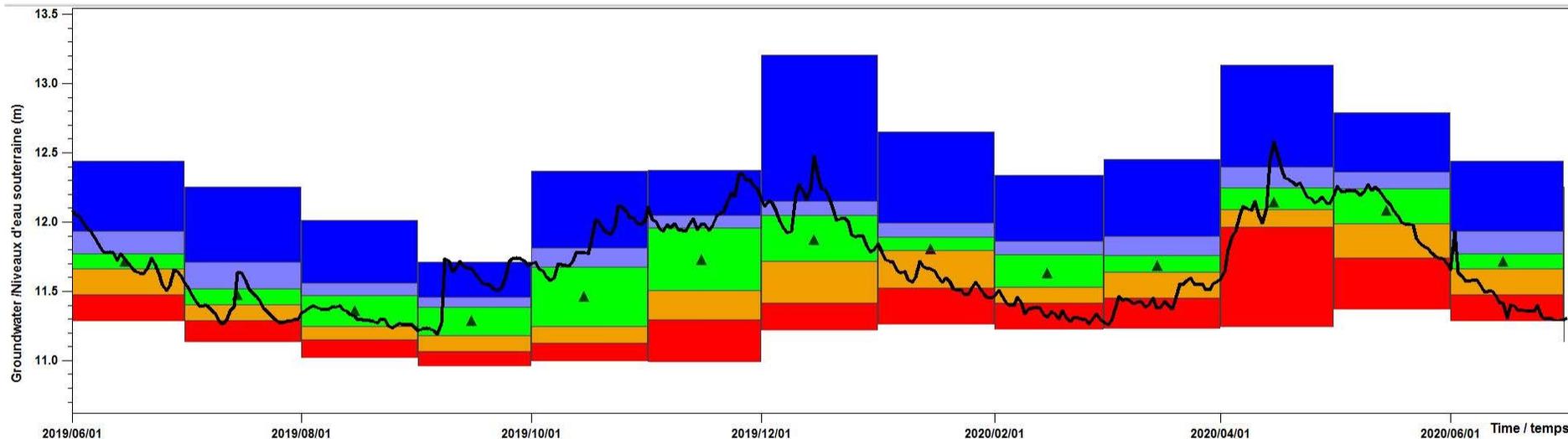
Le sommet du tubage du puits se situe à 10 m selon le niveau de référence hypothétique



Puits d'observation d'eau souterraine
Ford Bank

Groundwater Observation Well

06/01/2019 to 07/02/2020



Period of Record / Période de relevé - 2005- 2020

Top of well casing is at 29 m assumed datum /

Le sommet du tubage du puits se situe à 29 m selon le niveau de référence hypothétique

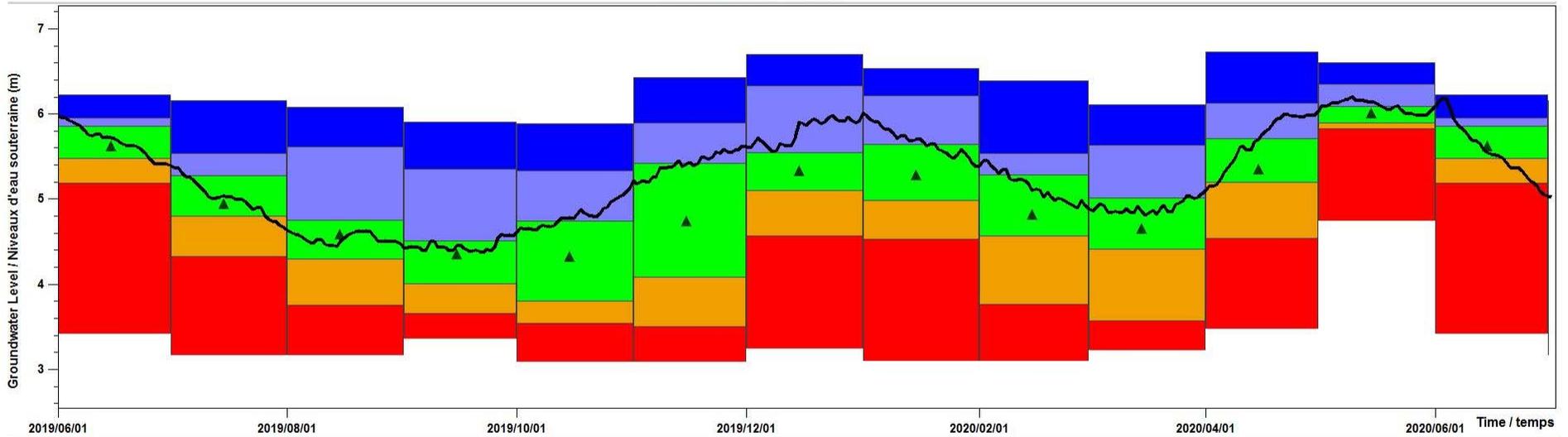


	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Puits d'observation d'eau souterraine
Miramichi

Groundwater Observation Well

06/01/2019 to 07/02/2020



	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Period of record / Période de relevé - 1985-1993, 2003- 2020

Ground surface elevation 20 metres above sea level /

Élévation de la surface du sol 20 metre au-dessus du niveau de la mer

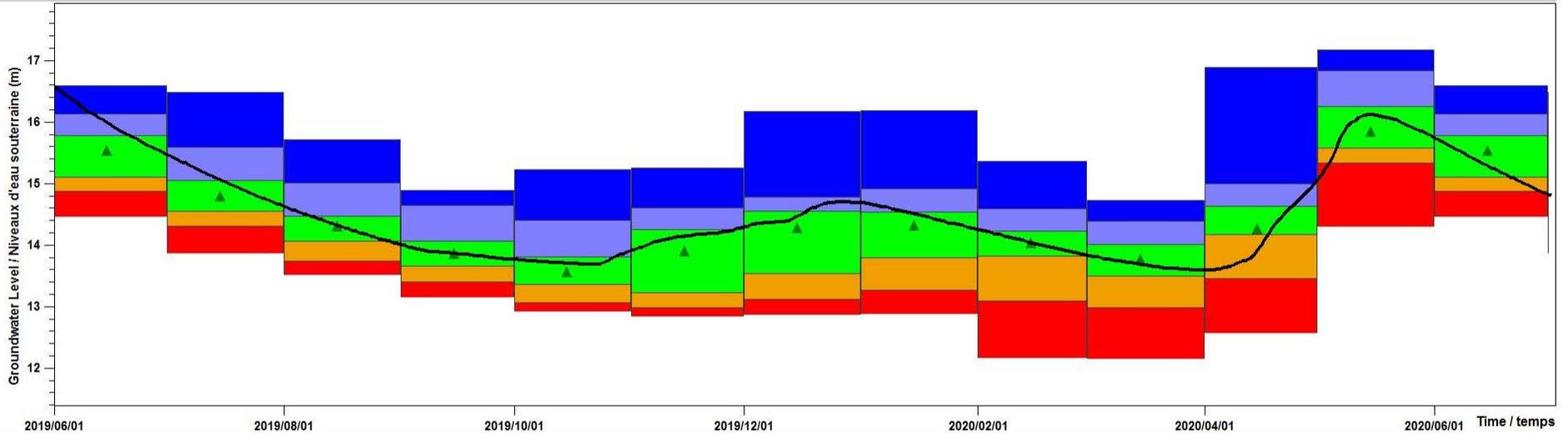


Puits d'observation d'eau souterraine

Caraquet

Groundwater Observation Well

06/01/2019 to 07/02/2020



	> 90th / 90e percentile
	70th / 70e - 90th / 90e percentile
	30th / 30e - 69th / 69e percentile
	10th / 10e - 29th / 29e percentile
	< 10th / 10e percentile
	Day Mean Groundwater Level / moyenne quotidienne du niveau d'eau souterraine
	Longterm Monthly Mean / moyenne mensuelle à long terme

Period of record / Période de relevé - 1982-1990, 2003 - 2020

Ground surface elevation 22 metres above sea level /

Élévation de la surface du sol 22 metres au-dessus du niveau de la mer



New Brunswick Water Conditions Outlook

At the end of the month, groundwater levels were below average throughout the province. Stream flow amounts for most of the province were in the below normal ranges. The Canadian drought monitor has the southeast of the province abnormally dry with a section of moderate drought.

The outlook from Environment and Climate Change Canada (ECCC) for the month of July, issued on June 30th, 2020, calls for above normal temperatures for the province. Precipitation is predicted to be above normal in the north and normal throughout the remainder of the province.

Air and Water Sciences Branch

Environmental Science and Protection Division, Department of Environment and Local Government

Client Service Operations Atlantic

Environment and Climate Change Canada, Government of Canada