

ᐅᑦᓃᐃᑦ  
CALENDAR  
CALENDRIER

# 2019-2020



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ᐅᑦᓃᐃᑦ CAIMAN  
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## Weather in Nunavik

Environmental  
Observations from the  
CAIMAN Network

## La météo au Nunavik

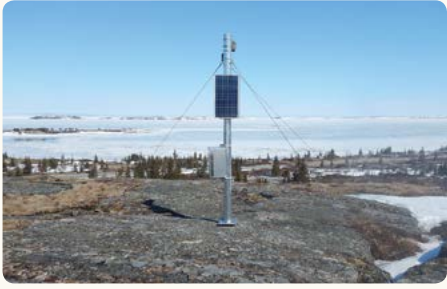
Les observations  
environnementales  
du réseau CAIMAN



# CAIMAN ᖃᓕᑕᑯᓯᑎᑭᑦ ᓄᐃᑕᑎᑦᓯᐃᓄᓯ

## The CAIMAN website / Le portail CAIMAN

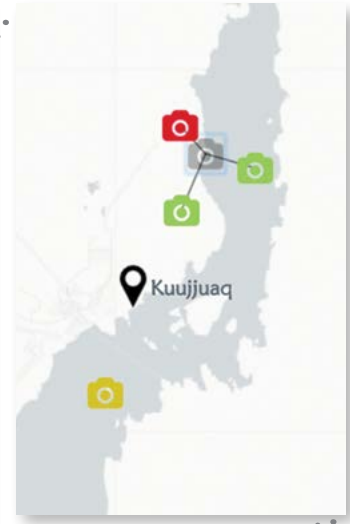
[WWW.CAIMAN.ETE.INRS.CA](http://WWW.CAIMAN.ETE.INRS.CA)



CAIMAN is the French acronym for "Cameras at Marine Infrastructures in Nunavik".

The camera network was set up in seven Nunavik communities/sites by KRC, INRS and Transport Quebec to study changes in ice conditions and support research on impacts and adaptation to climate change. Cameras take pictures every hour from 6:00 am to 6:00 pm. Most cameras record photos on a memory card. They are retrieved and transferred to the website once a year. Some cameras (real-time) directly transmit photos to the website every hour. From over 400 000 photos since 2009, seasonal information on ice, snow, vegetation and weather has been observed.

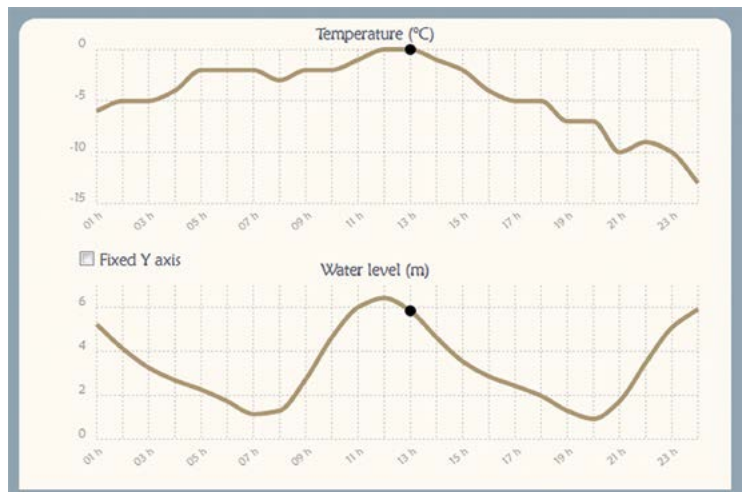
Proper authorizations have been obtained from local authorities for the installation of the cameras.



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Active camera – Archived photos  
Caméra en fonction - Photos en archive
- ᐃᑦᓯᑦᑕᑯᓯᑎᑭᑦ ᐃᑯᓄᓯᑎᑭᑦ  
Inactive camera – Archived photos  
Caméra hors fonction - Photos en archive
- ᐃᑯᑎᑦᑕᓕᓕᑯᓯᑎᑭᑦ ᐃᑦᓯᑦᑕᑯᓯᑎᑭᑦ  
Real time camera  
Caméra en temps réel

### ᐃᑦᓯᓄᓯᑎᑭᑦ ᐃᑯᓄᓯᑎᑭᑦ ᑕᑯᓯᑎᑭᑦ ᐃᑦᓯᑦᑕᑯᓯᑎᑭᑦ ᓯᓴᓯᑎᑭᑦ CAIMAN ᖃᓕᑕᑯᓯᑎᑭᑦ ᓄᐃᑕᑎᑦᓯᐃᓄᓯ!

Look at all photos and weather data on the CAIMAN website!  
Voyez toutes les photos et les informations météo sur le portail CAIMAN!

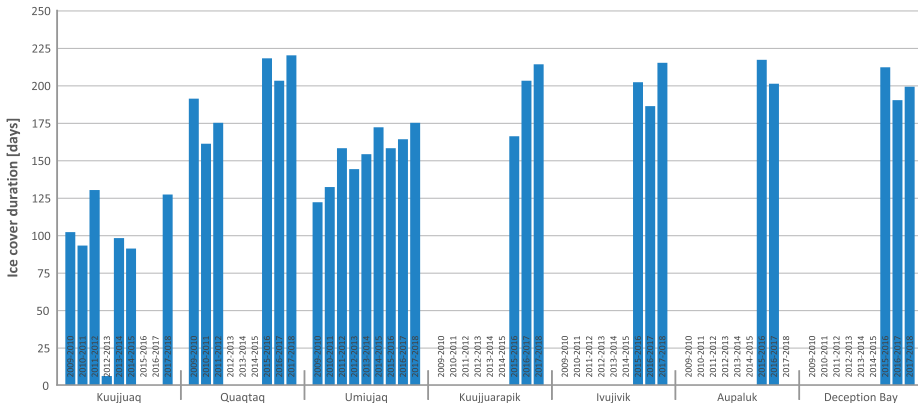


CAMERA SITE	START OF PHOTO ACQUISITIONS	INTERRUPTION OF PHOTO ACQUISITIONS	MOST RECENT PHOTO AVAILABLE
IVUJIVIK	September 1, 2015	N/A	August 6, 2018
QUAQTAQ	October 13, 2009	March 2, 2012 to September 7, 2015	August 29, 2018
AUPALUK	September 5, 2015	September 13, 2017 to September 30, 2018	September 22, 2017
KUUJJUAQ	October 10, 2009	January 9, 2016 to February 13, 2017	September 30, 2018
UMIUJAQ	October 25, 2009	September 8, 2010 to March 17, 2011	August 18, 2018
KUUJJUARAPIK	October 6, 2015	N/A	August 22, 2018
DECEPTION BAY	September 11, 2015	N/A	September 26, 2018

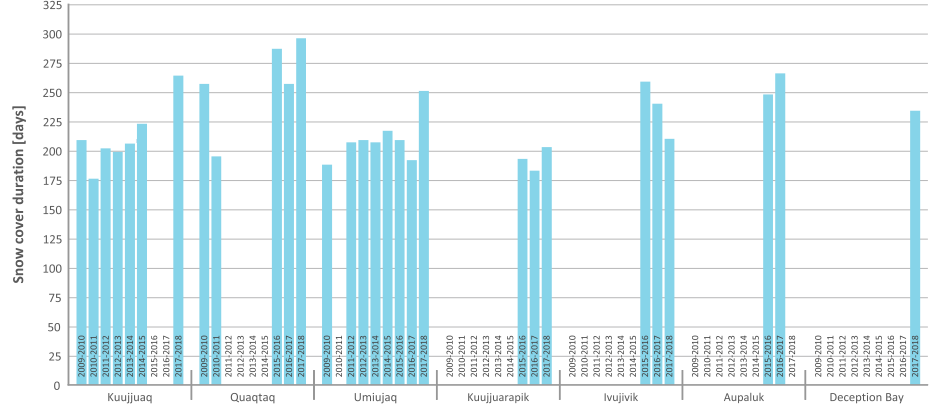
# ᐃᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ CAIMAN-ᑲᑦ ᑲᑦᑲᑦᑲᑦ

## Follow-up on the seasonal cycles from CAIMAN / Suivi des cycles saisonniers sur CAIMAN

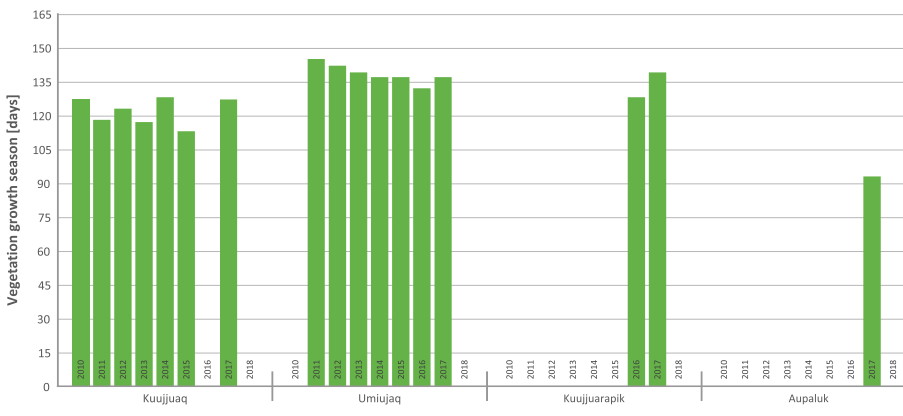
ICE COVER DURATION OVER THE YEARS  
DURÉE DU COUVERT DE GLACE AU FIL DES ANNÉES



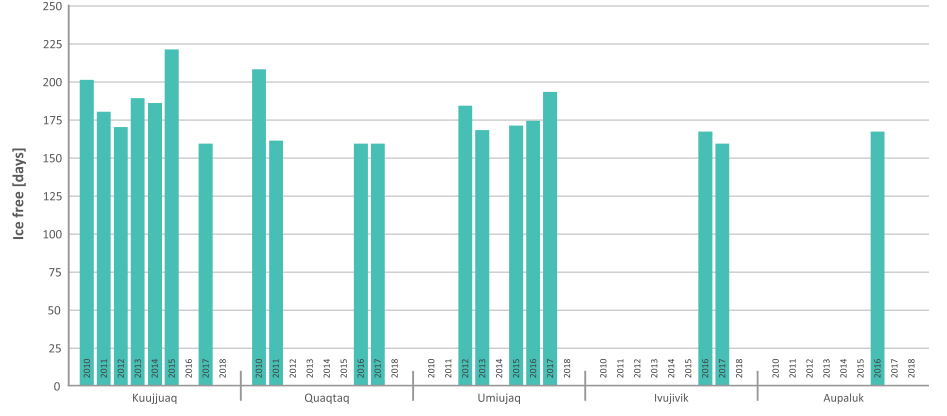
SNOW COVER DURATION OVER THE YEARS  
DURÉE DU COUVERT DE NEIGE AU FIL DES ANNÉES



VEGETATION GROWTH SEASON OVER THE YEARS  
DURÉE DE LA SAISON DE CROISSANCE AU FIL DES ANNÉES



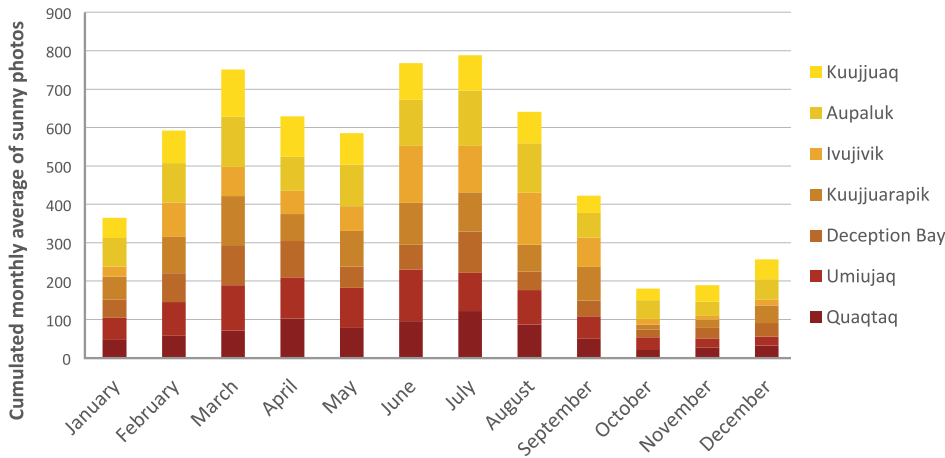
ICE FREE ACCESS TO THE MARINE INFRASTRUCTURES OVER THE YEARS  
ACCÈS LIBRE DE GLACE AUX INFRASTRUCTURES MARITIMES AU FIL DES ANNÉES



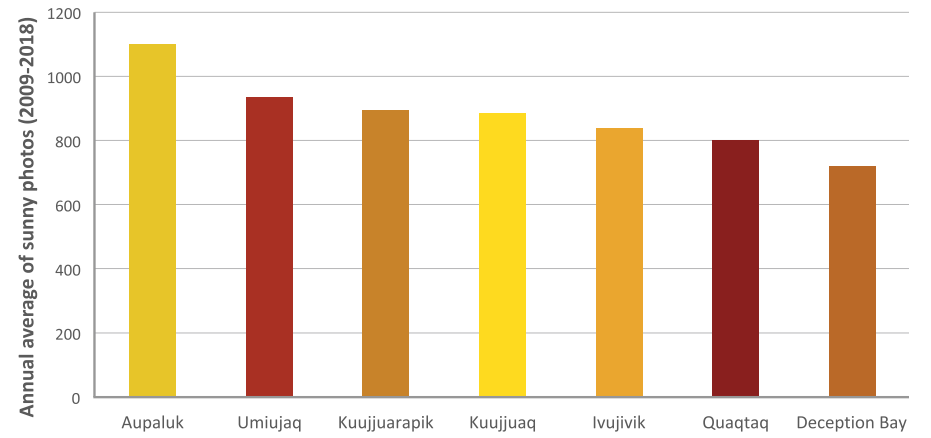
# ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦ ᑲᑦᑲᑦᑲᑦᑲᑦᑲᑦ CAIMAN-ᑲᑦ

## Weather observations from CAIMAN / Observations météo sur CAIMAN

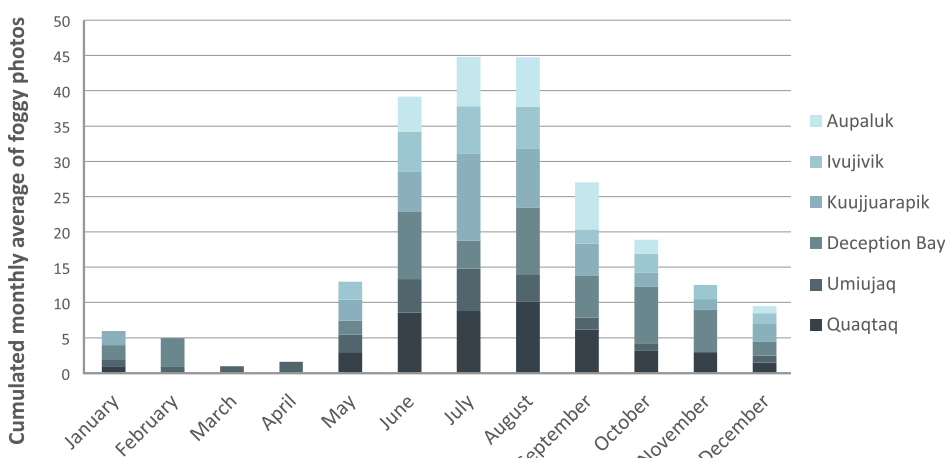
WHICH MONTH GETS MORE SUN?  
QUEL EST LE MOIS LE PLUS ENSOLEILLÉ?



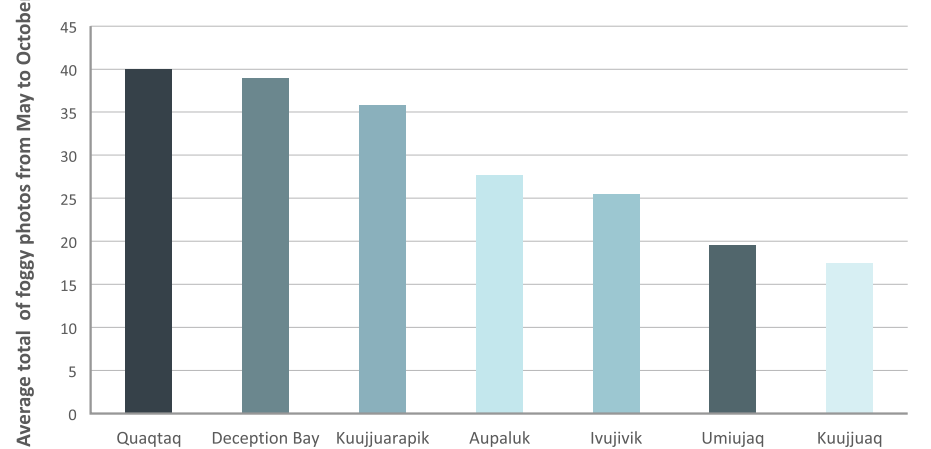
WHICH SITE IS MORE SUNNY?  
QUEL SITE EST LE PLUS ENSOLEILLÉ?



WHICH MONTH GETS MORE FOG?  
QUEL EST LE MOIS LE PLUS BRUMEUX?



WHICH SITE GETS MORE FOG?  
QUEL SITE EST LE PLUS BRUMEUX?







ΔD<sup>sb</sup>JP

AUGUST

AOÛT

2019

Δ <sup>c</sup> -Δ <sup>sb</sup> Sunday Dimanche	Δ <sup>c</sup> -Δ <sup>sb</sup> Δ <sup>b</sup> Monday Lundi	Δ <sup>c</sup> Δ <sup>sb</sup> Tuesday Mardi	Δ <sup>c</sup> Δ <sup>sb</sup> Δ <sup>c</sup> Wednesday Mercredi	Δ <sup>c</sup> Δ <sup>sb</sup> Δ <sup>c</sup> Thursday Jeudi	Δ <sup>c</sup> Δ <sup>sb</sup> Δ <sup>c</sup> Friday Vendredi	Δ <sup>c</sup> Δ <sup>sb</sup> Δ <sup>c</sup> Δ <sup>sb</sup> Saturday Samedi
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	Aqipik Jam Music Festival (Kuujjuaq) 12	Aqipik Jam Music Festival (Kuujjuaq) 13	Aqipik Jam Music Festival (Kuujjuaq) 14	Aqipik Jam Music Festival (Kuujjuaq) 15	16	17
18	19	20	21	22	23	24
25	26	27	Housing Day 28	29	Wild Berry Festival (Kuujjuarapik) 30	Wild Berry Festival (Kuujjuarapik) 31

August is the month with the most frequent calm water observations from CAIMAN. Umiujaq being the calmest.



GILLIS ISLAND (KUUJJUARAPIK) | 2017/09/05 | 11°C ●



QUAQTAQ | 2017/09/04 | 4°C ●



QUAQTAQ | 2017/09/13 | 4°C ●



IVUJIVIK | 2017/09/08 | 6°C ●

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SEPTEMBER

SEPTEMBRE

2019

ᐱᐱᐱᐱᐱᐱᐱ Sunday Dimanche	ᐱᐱᐱᐱᐱᐱᐱᐱᐱ Monday Lundi	ᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱ Tuesday Mardi	ᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱ Wednesday Mercredi	ᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱ Thursday Jeudi	ᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱ Friday Vendredi	ᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱᐱ Saturday Samedi
Wild Berry Festival (Kuujuarapik) 1	Wild Berry Festival (Kuujuarapik) 2 Labour Day	3	4	5 ●	6	7
8	9	10	11	12	13	14 ○
15	16	17	18	19	20	21 ●
22	23	24	25	26 ●	27	28 ●
29	30	1	2	3	4	5

September is the month with the most frequent rain observations from CAIMAN in Kuujjuaq.



UMIUJAQ | 2017/10/14 | 3°C



DECEPTION BAY | 2017/10/22 | 1°C



IVUJIVIK | 2017/10/22 | 1°C



GILLIS ISLAND (KUJJUARAPIK) | 2017/10/14 | 4°C

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OCTOBER

OCTOBRE

2019

ᐃᐅᐅᐅᐅᐅᐅ Sunday Dimanche	ᐃᐅᐅᐅᐅᐅᐅᐅ Monday Lundi	ᐅᐅᐅᐅᐅᐅᐅ Tuesday Mardi	ᐱᐅᐅᐅᐅᐅᐅ Wednesday Mercredi	ᐅᐅᐅᐅᐅᐅᐅ Thursday Jeudi	ᐅᐅᐅᐅᐅᐅᐅ Friday Vendredi	ᐃᐅᐅᐅᐅᐅᐅᐅ Saturday Samedi
29	30	Elders Day 1	2	3	4	5 ☾
6	7	8	9	10	11	12
13 ○	Thanksgiving Day 14	15	16	17	18	19
20	21 ☾	22	23	24	25	26
27 ●	28	29	30	Halloween 31	1	2

October is the month with the most frequent high wind and waves observations from CAIMAN. Ivujivik being the windiest.





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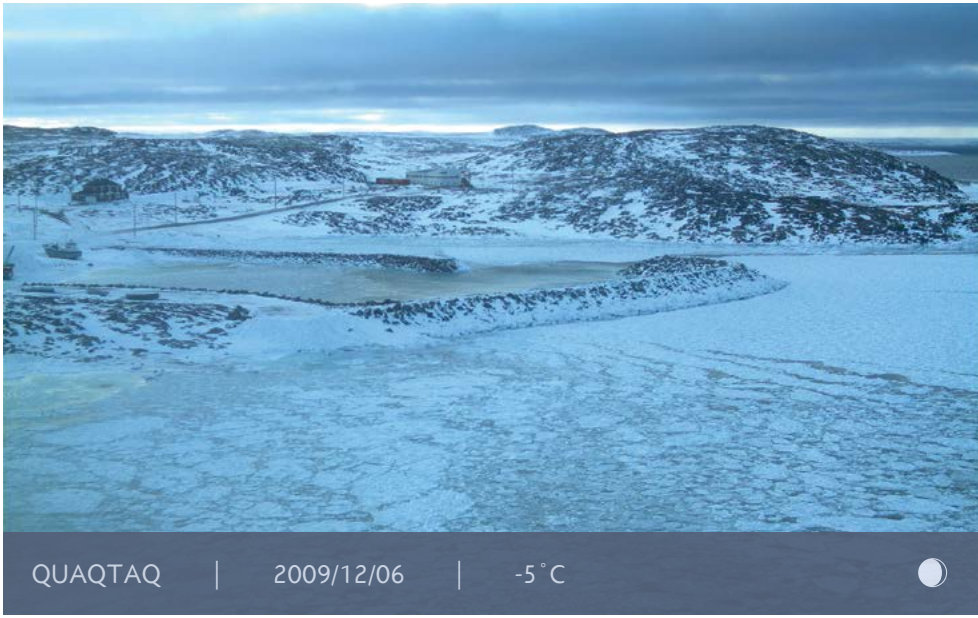
NOVEMBER

NOVEMBRE

2019

ᐃᓕᓕᐅᐱᓕᓂᓂᓂ Sunday Dimanche	ᐃᓕᓕᐅᐱᓕᓂᓂᓂᓂ Monday Lundi	ᐅᓕᓕᐱᓂᓂ Tuesday Mardi	ᐱᓂᓂᓂᓂᓂ Wednesday Mercredi	ᓂᓂᓂᓂᓂ Thursday Jeudi	ᓂᓂᓂᓂᓂ Friday Vendredi	ᐃᓕᓕᐱᓂᓂᓂᓂ Saturday Samedi
27	28	29	30	31	All Saints' Day 1	2
Daylight Saving Time Ends 3	4 ☾	5	6	International Inuit Day 7	8	9
10	James Bay and Northern Quebec Agreement Day Remembrance Day 11	12 ☉	13	Air Inuit Annual Transportation Meeting (Montreal) 14	15	16
17	18	19 ☾	Children's Day 20	21	22	23
24	25	26 ●	27	28	29	30

November is the month with the largest difference between high tide and low tide: from a 2 m difference in Umiujaq and Kuujuarapik to a 12 m difference in Aupaluk!



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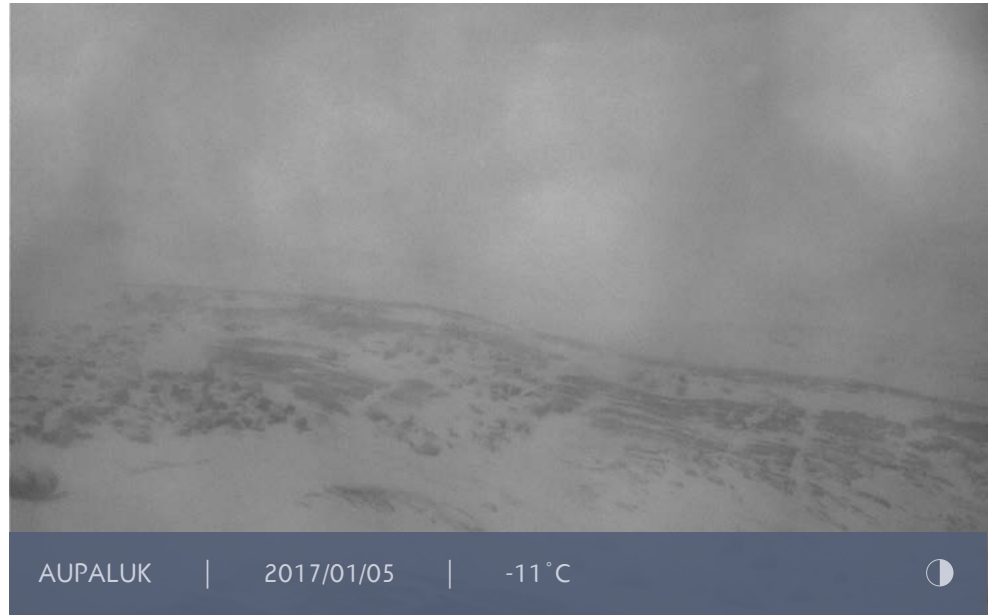
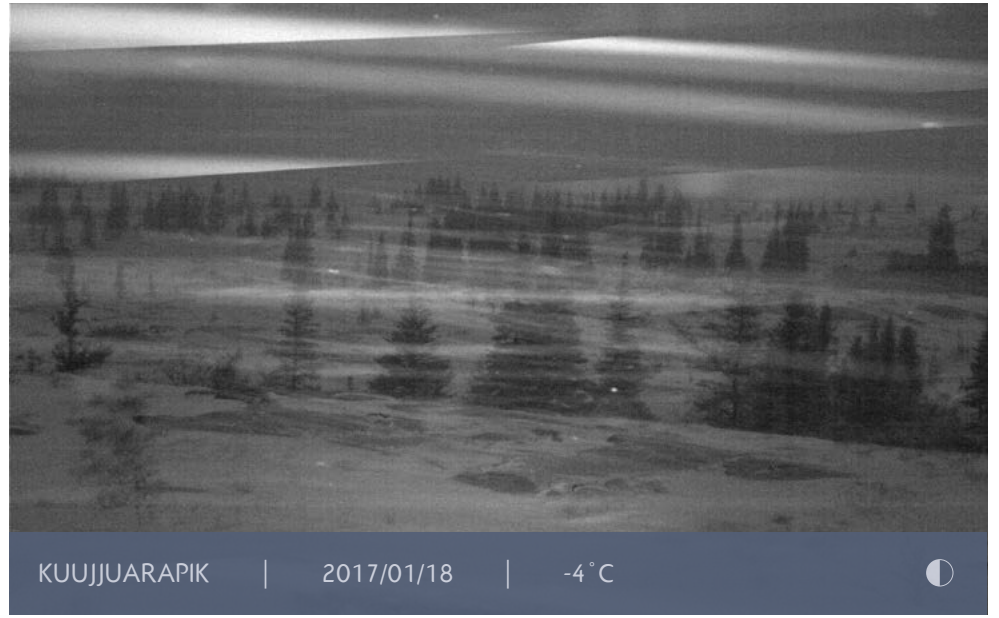
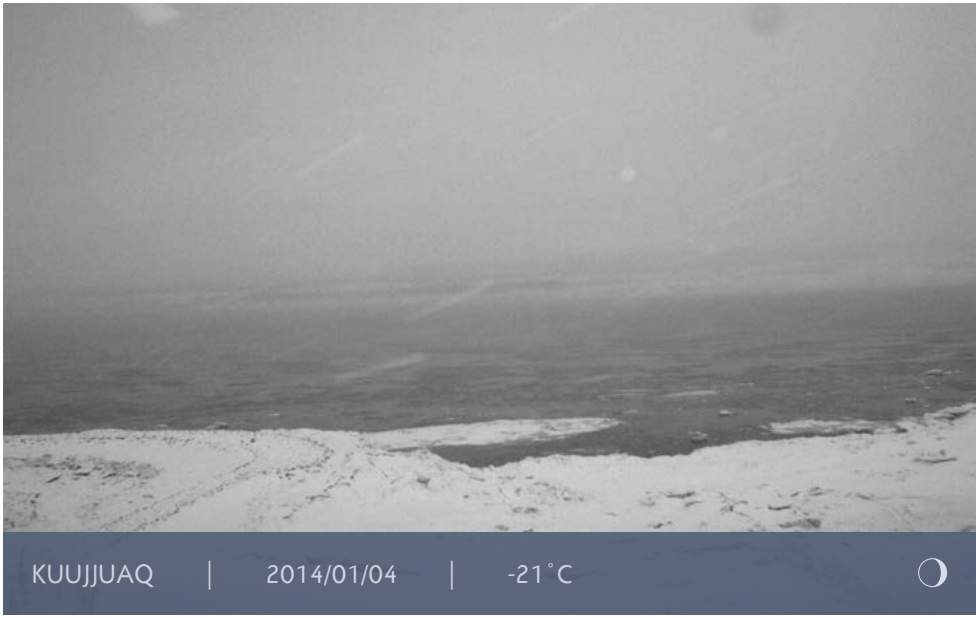
DECEMBER

DÉCEMBRE

2019

ጥቅም Sunday Dimanche	ጥቅም Monday Lundi	ጥቅም Tuesday Mardi	ጥቅም Wednesday Mercredi	ጥቅም Thursday Jeudi	ጥቅም Friday Vendredi	ጥቅም Saturday Samedi
1	2	3	4 ☾	5	6	7
8	9	10	11	12 ☉	13	14
15	16	17	18 ☾	19	20	21
22	23	Christmas Eve 24	Christmas 25	26 ●	27	28
29	30	New Year's Eve 31	1	2	3	4

Although ice freeze-up in Quaqtaq is usually in December, it was observed by CAIMAN as early as November 29 (2015) and as late as January 15 (2011).



JANUARY

JANVIER

2020

ᓄᓄᓄᓄᓄ Sunday Dimanche	ᓄᓄᓄᓄᓄᓄ Monday Lundi	ᓄᓄᓄᓄᓄ Tuesday Mardi	ᓄᓄᓄᓄᓄᓄ Wednesday Mercredi	ᓄᓄᓄᓄᓄ Thursday Jeudi	ᓄᓄᓄᓄᓄᓄ Friday Vendredi	ᓄᓄᓄᓄᓄᓄᓄ Saturday Samedi
29	30	31	New Year's Day 1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

January is the winter month with the most frequent snowfall observations from CAIMAN.  
On average, Iqaluit has the longest snow cover season (236 days) and Kuujuarapik has the shortest (116 days).



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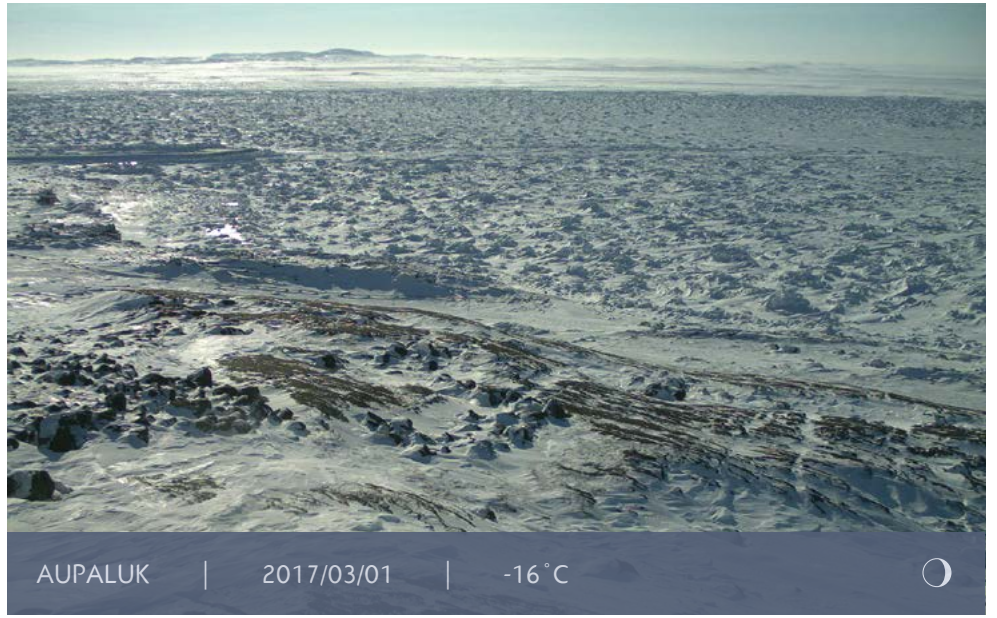
FEBRUARY

FÉVRIER

2020

ᐱᑦᑲᑦᑲᑦ Sunday Dimanche	ᐱᑦᑲᑦᑲᑦᐱᑦ Monday Lundi	ᑲᑦᑲᑦᑲᑦ Tuesday Mardi	ᐱᑦᑲᑦᑲᑦᑲᑦ Wednesday Mercredi	ᑲᑦᑲᑦᑲᑦ Thursday Jeudi	ᑲᑦᑲᑦᑲᑦ Friday Vendredi	ᐱᑦᑲᑦᑲᑦᑲᑦ Saturday Samedi
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	Valentine's Day 14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

It is in February that the temperature recorded within the protected casing of any camera between 6 am and 6 pm reaches its lowest point: -33°C to -37°C!



ᐱᖅᓂᖅ | MARCH | MARS

2020

ᐱᖅᓂᖅ Sunday Dimanche	ᐱᖅᓂᖅᐱᖅ Monday Lundi	ᐱᖅᓂᖅᓂᖅ Tuesday Mardi	ᐱᖅᓂᖅᓃᖅ Wednesday Mercredi	ᐱᖅᓂᖅᓄᖅ Thursday Jeudi	ᐱᖅᓂᖅᓅᖅ Friday Vendredi	ᐱᖅᓂᖅᓆᖅ Saturday Samedi
1	2 ☾	3	4	5	6	7
8	9 ☉	Daylight Saving Time Starts 10	11	12	13	14
15	16 ☾	17	18	19	20	21
22	23	24 ●	25	26	27	28
29	30	31 ☀	1	2	3	4

March is the winter month with the most frequent sun observations from CAIMAN. On average, Aupaluk has the sunniest March.

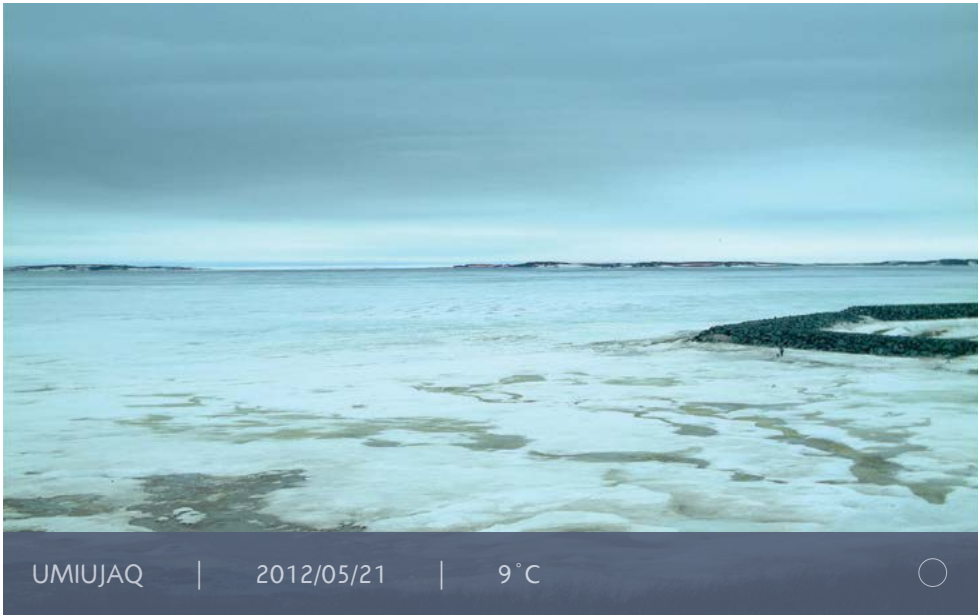


▽ ᓂᓂ | APRIL | AVRIL

2020

ᓂᓂᓂᓂᓂᓂ Sunday Dimanche	ᓂᓂᓂᓂᓂᓂᓂ Monday Lundi	ᓂᓂᓂᓂᓂᓂᓂ Tuesday Mardi	ᓂᓂᓂᓂᓂᓂᓂ Wednesday Mercredi	ᓂᓂᓂᓂᓂᓂᓂ Thursday Jeudi	ᓂᓂᓂᓂᓂᓂᓂ Friday Vendredi	ᓂᓂᓂᓂᓂᓂᓂᓂ Saturday Samedi
28	29	31	April Fool's Day 1	2	3	4
5	6	7	8	9	Good Friday 10	11
Easter Sunday 12	Easter Monday 13	14	15	16	17	18
19	20	21	Earth Day 22	23	24	25
26	27	28	29	30	1	2

On a yearly average, Deception Bay and Ivujivik have the most frequent cloud observations from CAIMAN.



7 | MAY | MAI

2020

Δ <sup>c</sup> ϋ <sup>ϕ</sup> Δ <sup>ϕ</sup> Sunday Dimanche	Δ <sup>c</sup> ϋ <sup>ϕ</sup> Δ <sup>ϕ</sup> Δ <sup>b</sup> Monday Lundi	Δ <sup>c</sup> ϋ <sup>ϕ</sup> Δ <sup>ϕ</sup> Tuesday Mardi	Δ <sup>c</sup> ϋ <sup>ϕ</sup> Δ <sup>ϕ</sup> Δ <sup>c</sup> Wednesday Mercredi	Δ <sup>c</sup> ϋ <sup>ϕ</sup> Δ <sup>ϕ</sup> Δ <sup>c</sup> Thursday Jeudi	Δ <sup>c</sup> ϋ <sup>ϕ</sup> Δ <sup>ϕ</sup> Δ <sup>c</sup> Friday Vendredi	Δ <sup>c</sup> ϋ <sup>ϕ</sup> Δ <sup>ϕ</sup> Δ <sup>ϕ</sup> Saturday Samedi
26	27	28	29	30	1	2
3	4	5	6	7 ○	8	9
Mother's Day 10	11	12	13	14 ◐	15	16
17	Victoria Day 18	19	20	21	22 ●	23
24	25	26	27	28	29 ◐	30
31						

Although ice breakup in Umiujaq is usually at the end of May, it was observed as early as May 3 (2010) and as late as June 17 (2018).



ᑭᑦᑭᑦ | JUNE | JUIN

2020

ᑭᑦᑭᑦᑭᑦᑭᑦ Sunday Dimanche	ᑭᑦᑭᑦᑭᑦᑭᑦ Monday Lundi	ᑭᑦᑭᑦᑭᑦᑭᑦ Tuesday Mardi	ᑭᑦᑭᑦᑭᑦᑭᑦ Wednesday Mercredi	ᑭᑦᑭᑦᑭᑦᑭᑦ Thursday Jeudi	ᑭᑦᑭᑦᑭᑦᑭᑦ Friday Vendredi	ᑭᑦᑭᑦᑭᑦᑭᑦ Saturday Samedi
31	1	2	3	4	5 ○	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
Father's Monday Aboriginal Day 21 ●	22	23	St-Jean-Baptiste 24	25	26	27
28 ●	29	30	1	2	3	4

Early morning (between 6 am and 10 am) is the period with the most frequent fog observations from CAIMAN.





JULY | JUILLET

2020

ᐅᓂᓂᓂᓂᓂᓂᓂ Sunday Dimanche	ᐅᓂᓂᓂᓂᓂᓂᓂᓂ Monday Lundi	ᐅᓂᓂᓂᓂᓂᓂᓂᓂ Tuesday Mardi	ᐅᓂᓂᓂᓂᓂᓂᓂᓂ Wednesday Mercredi	ᐅᓂᓂᓂᓂᓂᓂᓂᓂ Thursday Jeudi	ᐅᓂᓂᓂᓂᓂᓂᓂᓂ Friday Vendredi	ᐅᓂᓂᓂᓂᓂᓂᓂᓂᓂ Saturday Samedi
28	29	30	Canada Day 1	2	3	4
5 ○	6	7	8	9	10	11
12 ●	13	14	15	16	17	18
19	20 ●	21	22	23	24	25
26	27 ●	28	29	30	31	1

It is in July or August that the temperature recorded within the protected casing of any camera between 6 am and 6 pm reaches its highest point: 27°C to 33°C!

