

Figure 1: Daily temperatures in June 2026 at UVic.

June 2026

Temperature

The average temperature at UVic this June was 16.81 °C, warmer than the long-term average of 15.9 °C. Fig. 1 shows that daily averages with ranges, and the long-term daily values. The boost to the monthly average was from three exceptionally warm periods, rather than any month-long pattern.

A complete record of monthly average temperatures at UVic is shown in Fig. 2.

Daily Records Broken

What is extreme today will be normal in the not so distant future.

Climate change is increasing the likelihood of record-breaking high temperatures everywhere, including in Greater Victoria. Such records are set during heat events, when weather systems stall over the region and high pressure results sinking, and warming, air. These kinds of events have always happened but the odds of an exceptionally

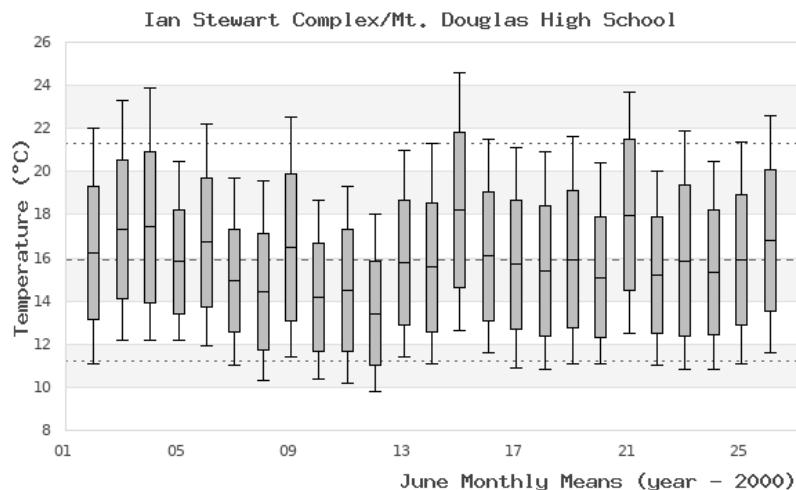


Figure 2: All June monthly average temperatures from UVic.

warm day have increased because the average daily temperature has increased as a result of increased emissions from burning fossil fuels.

The two heat-waves this past month were record breakers in the region. A story in the Saanich news covered the first event on June 16.

In Victoria, at the Gonzales weather station, the mercury hit 28.1 °C, over the 27. 8 °C record set for the same day in 1930.

The day before, the region broke a record from 1999 at 30.2 °C, above the previous high of 28.6 °C.

At UVic the record high for 14 June was 25.5 °C. This year it reached 32.9 °C on the fourteenth.

On June 25, the about the next batch of hot days.

At least 21 B.C. communities — including nine on Vancouver Island — reported new daily highs for June 23 on Tuesday, according to Environment Canada.

It was a scorcher across the Island, with a high of 34.3 °C recorded in Port Alberni. Duncan broke a mark set in 1940 by more than two degrees at 32.9 °C.

Gonzales Point in Victoria saw a high of 30.4 °C, well above the 26.6 °C seen on that day in 2017. Records have been kept in the area since 1874.

The record high at UVic for 24 June was broken this year. It was last set in 2017 at 38.6 °C. This year the temperature reached 31.2 °C on that day.

The monthly June record was set during the heat dome event in 2021, 38.2 °C.

Rain

We recorded 16.8 mm of rain at UVic this June, with rain observed on seven days. The long-term averages for this month are 17 mm over seven days. 2026 was an average month, in terms of precipitation.

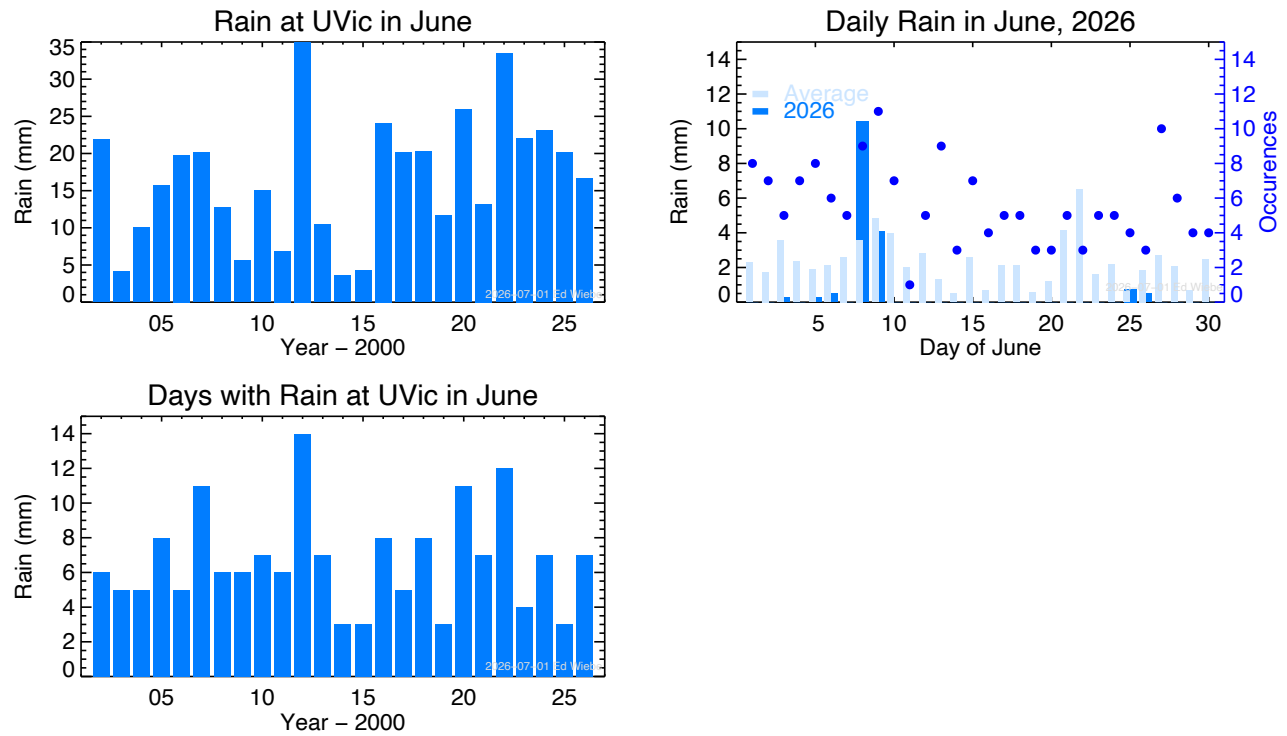


Figure 3: Rain in June, 2026 at UVic..

Insolation

We saw a great example of the effect of clouds on local incoming solar radiation this month. Clouds have a high albedo. You've seen how bright clouds can appear, and how dark when you are under them. They reflect a lot of short-wave radiation. 10 June was a day with lots of convective clouds forming, moving, and dissipating. Fig. 4 is a plot of observed all-sky short-wave radiative power compared the theoretical maximum power expected for each minute of the day on 2026-06-10.

The morning started clear but clouds approached and by 10:00 were covering much of the sky. During the transition from clear to clouded over though the sensor recorded the input from the sun and the radiation reflected by the approaching clouds. Clouds can reflect sunlight directly but also reflected short-wave reflected from the surface. This acts like an additional source of short-wave radiation at a location that 'sees' the reflection.

In the afternoon, the clouds began to break up and reflections, some very bright, came and went. Finally, as the incoming solar power decreased later in the afternoon, the convective cloud process weakened and mostly clear skies returned.

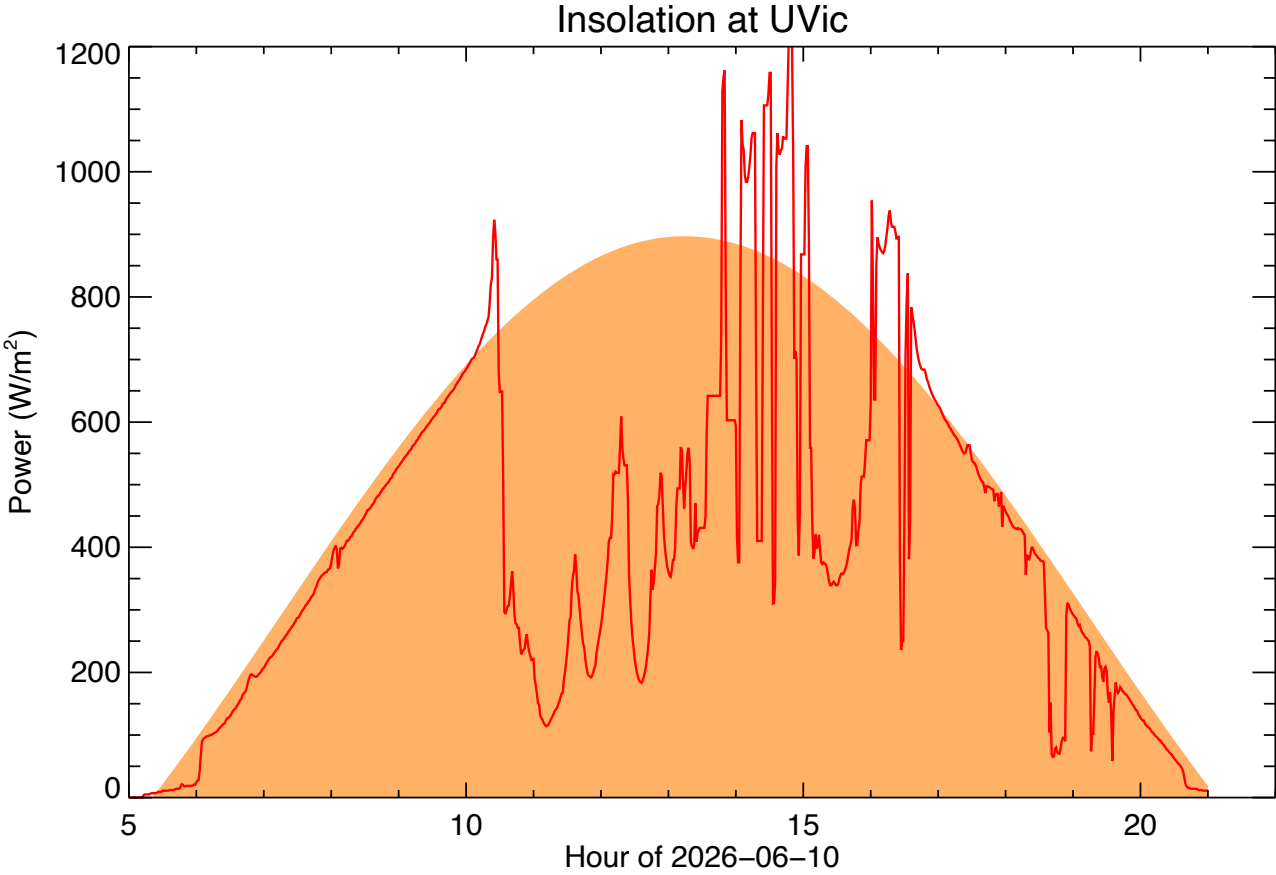
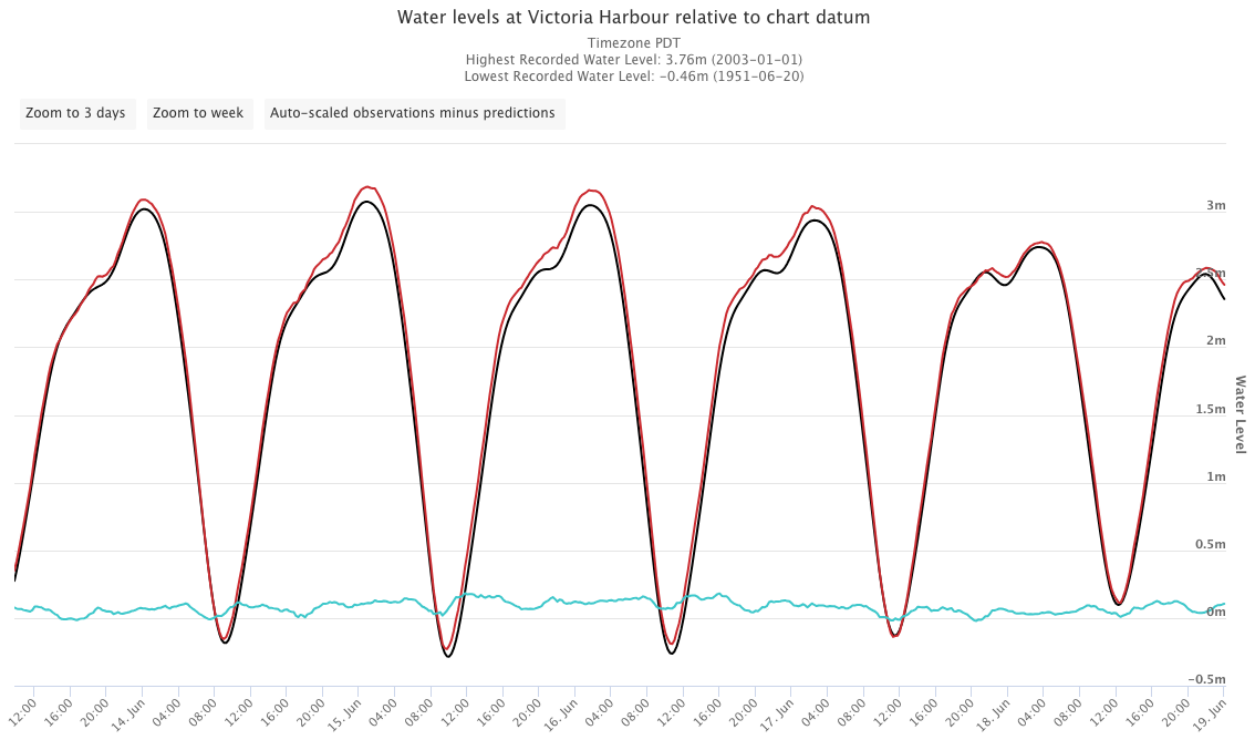


Figure 4: Insolation at UVic, compared the theoretical maximum amount.

Warnings and Statements

A period of strong winds mid-month, as the high pressure pattern broke and moved away, resulted in a coastal flooding statement. The winds pushed water onshore, and coincided with very high tides and water levels were expected (and did) to exceed predictions. The predicted and observed water height at Victoria Harbour are shown in Fig. ??.



Tide for Victoria Harbour

Figure 5: Predicted and observed water height at Victoria Harbour.