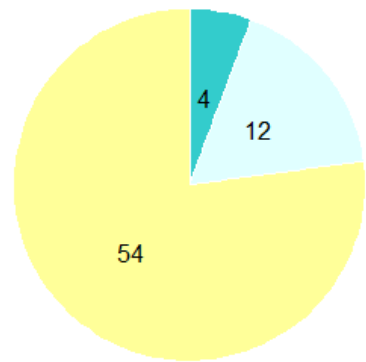


# Summer conditions (from the 1<sup>st</sup> of July to the 8<sup>th</sup> of September) within PARIS itself Climatology (2001-2020) and summer 2023

## RAINFALLS

Numbers of dry days (below 1 mm) and of days of heavy rain (above 10 mm) between the 1<sup>st</sup> of July and the 8<sup>th</sup> of September (70 days)  
Averages between 2001 and 2020  
(Montsouris 75114001)



■ Dry days  
■ Rainy days  
■ Days with heavy rain

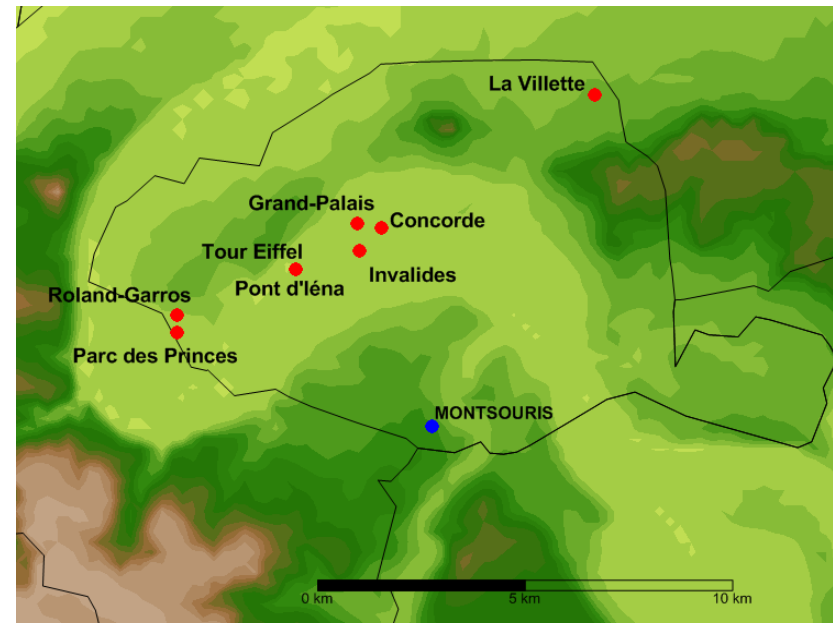
1 mm = 1 l/m<sup>2</sup>

Rainfall records (over the period of 2001 to 2020)	
Maximum 1-day rainfall	104.2 mm 6 <sup>th</sup> of July 2001
Maximum duration of consecutive days of heavy rain	3 days in 2014
Maximum duration of dry consecutive days	24 days in 2012

### RAINFALLS : SUMMER 2023 compared to the climatology between 2001 and 2020

With 51 days without rain, 6 very rainy days, this summer is quite wet with fairly frequent episodes of rain or thunderstorms sometimes severe giving 170 mm cumulative over the period, ranking this summer 6th among the summers watered since 2001.

Stormy rains give 48 mm of precipitation in Montsouris on July 28.



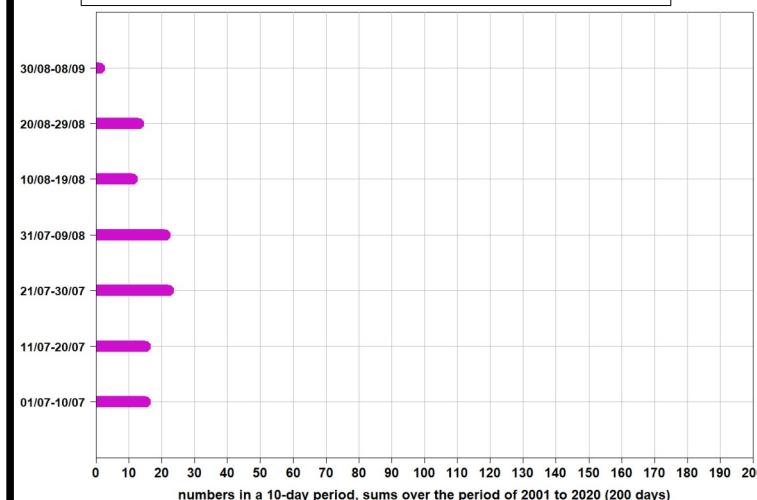
● Olympic site  
● METEOROLOGICAL STATION

Oceanic climate, altered by continental influences and by the urban settlement (potential urban heat island effects).

Distinctive features on the olympic sites compared to the meteorological station :

- temperatures : hotter (except on La Villette site)
- rainfalls : similar
- winds : similar except the local effects caused by buildings. Slightly stronger on La Villette site, especially from nord-north-east

Cumulative numbers of tropical nights (above 20 °C) in a 10-day period  
Sums over the period of 2001 to 2020  
(Montsouris 75114001)



### TEMPERATURES : SUMMER 2023 compared to the climatology between 2001 and 2020

Except from July 20 to August 10, there were several episodes of heat during this summer, with 7 tropical nights and a later severe episode, from September 1 to 8.

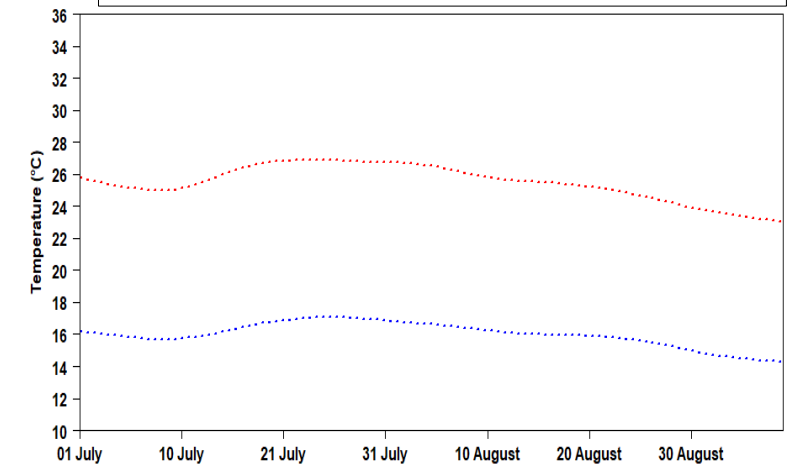
The hottest temperature over the period was 35.1 degrees in Montsouris on September 8.

Maximum duration of tropical consecutive nights (over the period of 2001 to 2020)

11 nights in 2003

## TEMPERATURES

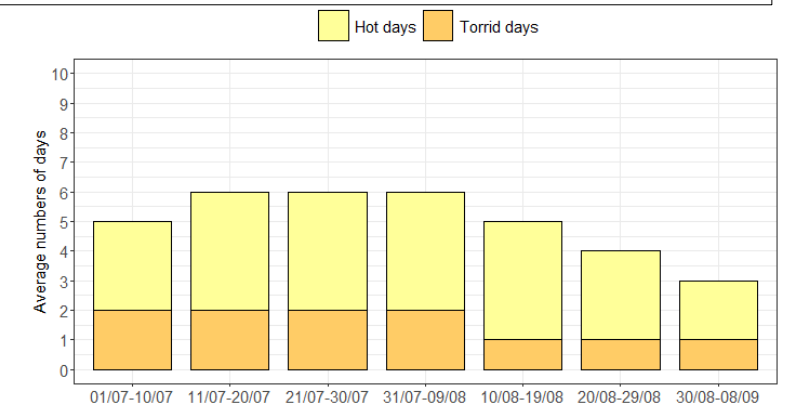
Minimum and maximum daily temperatures  
Averages between 2001 and 2020  
(Montsouris 75114001)



Every day, the temperature reaches a minimum at dawn and a maximum during the second part of the afternoon.

Minimum temperature records (over the period of 2001 to 2020)		Maximum temperature records (over the period of 2001 to 2020)	
Lowest temperature	9.0 °C 21 <sup>st</sup> of August 2014	Lowest temperature	14.8 °C 25 <sup>th</sup> of August 2013
Highest temperature	25.5 °C 11 <sup>th</sup> /12 <sup>th</sup> of August 2003	Highest temperature	42.6 °C 25 <sup>th</sup> of July 2019

Numbers of hot days (between 25 and 30 °C) and of torrid days (above 30 °C) in a 10-day period  
Averages between 2001 and 2020  
(Montsouris 75114001)



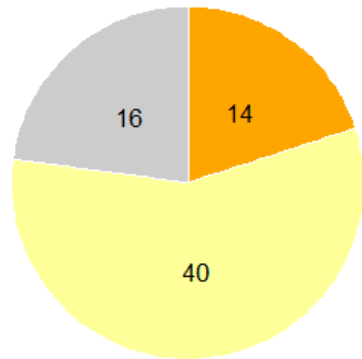
Durations with torrid consecutive days (over the period of 2001 to 2020)

Maximum duration	13 days in 2003
Average duration	between 2 and 3 days

# Summer conditions (from the 1<sup>st</sup> of July to the 8<sup>th</sup> of September) within PARIS itself Climatology (2001-2020) and summer 2023

## BRIGHT SUNSHINE

Numbers of overcast days and of bright days between the 1<sup>st</sup> of July and the 8<sup>th</sup> of September (70 days)  
Averages between 2001 and 2020  
(Montsouris 75114001)



■ Overcast days  
■ Days with sunny spells  
■ Bright days

Sunshine records (over the period of 2001 to 2020)	
Highest number of bright consecutive days	10 days in 2003
Highest number of overcast consecutive days	6 days, 1 out of 7 years

### BRIGHT SUNSHINE : SUMMER 2023 compared to the climatology between 2001 and 2020

The sky is most often changeable.  
The number of covered days being 10, that of very sunny weather being 12 days, which is below the reference period.

## WBGT INDEX

The WBGT index (in °C) characterizes the thermal comfort. Its calculation requires the temperature, the humidity, the sunshine and the wind. It is calculated every hour, thanks to modelled data because some parameters are not observed at every station. The index commonly reaches its maximum value at the beginning of the afternoon. The climatology from 2001 to 2020 is not available for this index (a past history too recent). Le Haut Conseil de Santé Publique sorts it into 5 groups : no hazard (less than 22), light hazard (from 22 to 28), moderate hazard (from 28 to 30), major hazard (from 30 to 32), maximum hazard (more than 32). The distribution of the groups of the current year can be compared to the ones of available years.

Ratio of hourly values between 8 à 24h (local time)	2019	2020	2021	2022	2023
< 22	84.74	85.26	88.53	66.71	<b>79,09</b>
from 22 to 28	14.96	14.50	11.47	31.49	<b>20,89</b>
from 28 to 30	0.18	0.22	0.00	1.14	<b>0,02</b>
from 30 to 32	0.08	0.01	0.00	0.66	<b>0,00</b>
≥ 32	0,04	0,01	0,00	0.00	<b>0,00</b>

The wind is described by the direction from which it blows and its speed. Both parameters change according to the period of the day.

The wind rose diagram depicts it graphically :

- each branch refers to one direction (N, NE, E, SE, S, SW, W, NW) and its length indicates the frequency of this direction (%)
- the colors refer to the speed ranges (speed in km/h)
- the wind is calm when its speed does not exceed 5 km/h

Wind gusts between 2001 and 2020	
Average number of days with more than 70 km/h	between 0 and 1 day
Maximum value	104 km/h 12 <sup>th</sup> of August 2020

### WIND : SUMMER 2023 compared to the climatology between 2001 and 2020

Summer with a predominantly southwesterly flow. With the passage of depression 'Patricia' on August 2, an atypical gale for the season was recorded with a wind gust of 89 km/h.

## WIND

Wind roses over the 1<sup>st</sup> of July to the 8<sup>th</sup> of September period – for years 2001 to 2020  
(Montsouris 75114001)

