

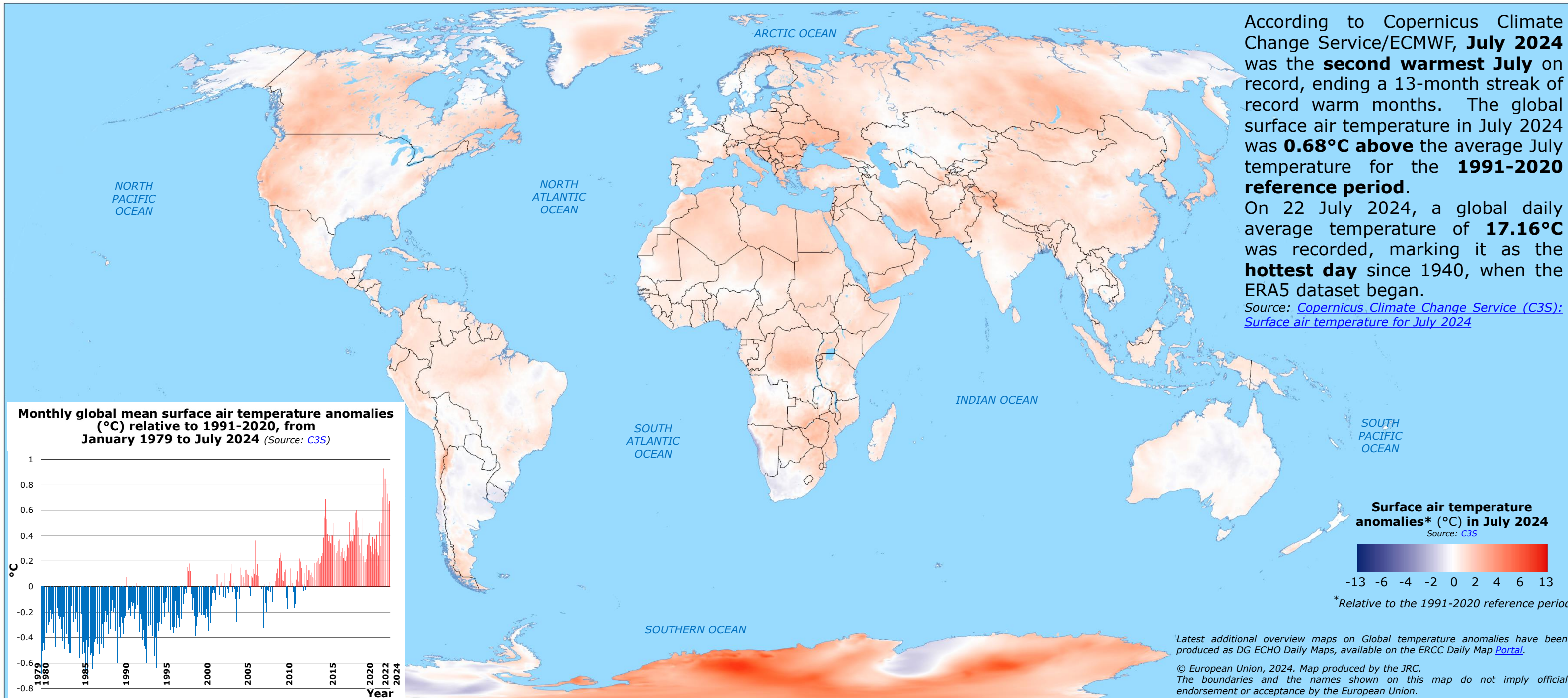
# World | Temperature anomalies in July 2024



According to Copernicus Climate Change Service/ECMWF, **July 2024** was the **second warmest July** on record, ending a 13-month streak of record warm months. The global surface air temperature in July 2024 was **0.68°C above** the average July temperature for the **1991-2020 reference period**.

On 22 July 2024, a global daily average temperature of **17.16°C** was recorded, marking it as the **hottest day** since 1940, when the ERA5 dataset began.

Source: [Copernicus Climate Change Service \(C3S\): Surface air temperature for July 2024](#)



**Surface air temperature anomalies\* (°C) in July 2024**  
Source: C3S

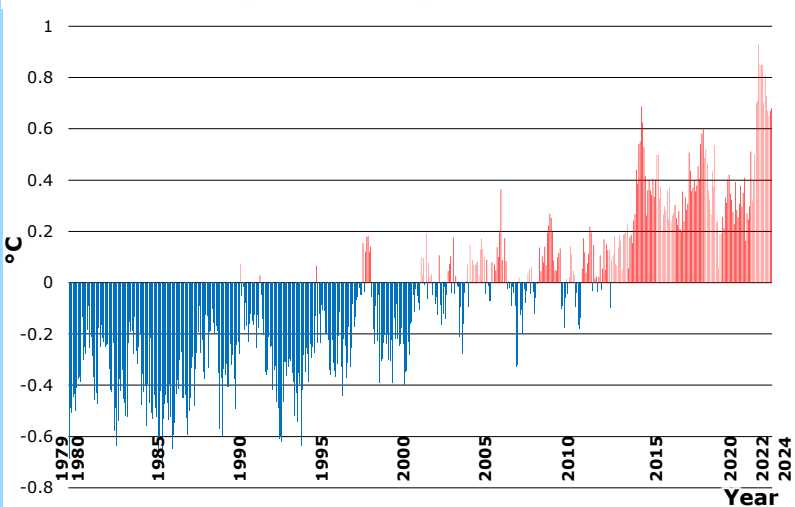


\*Relative to the 1991-2020 reference period

Latest additional overview maps on Global temperature anomalies have been produced as DG ECHO Daily Maps, available on the ERCC Daily Map [Portal](#).

© European Union, 2024. Map produced by the JRC. The boundaries and the names shown on this map do not imply official endorsement or acceptance by the European Union.

**Monthly global mean surface air temperature anomalies (°C) relative to 1991-2020, from January 1979 to July 2024** (Source: C3S)

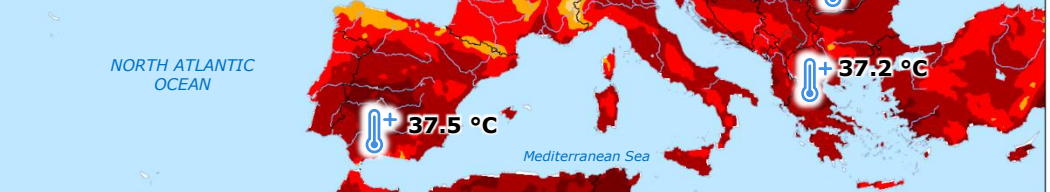


**Average of maximum daily temperatures (°C) for July 2024 across Europe**

Source: Copernicus EMS [EDO](#)

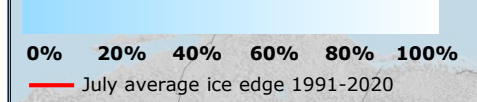
- +35 to +40
- +30 to +35
- +25 to +30
- +20 to +25
- +15 to +20
- +10 to +15
- +5 to +10
- 0 to +5
- No Data

Average daily maximum temperature



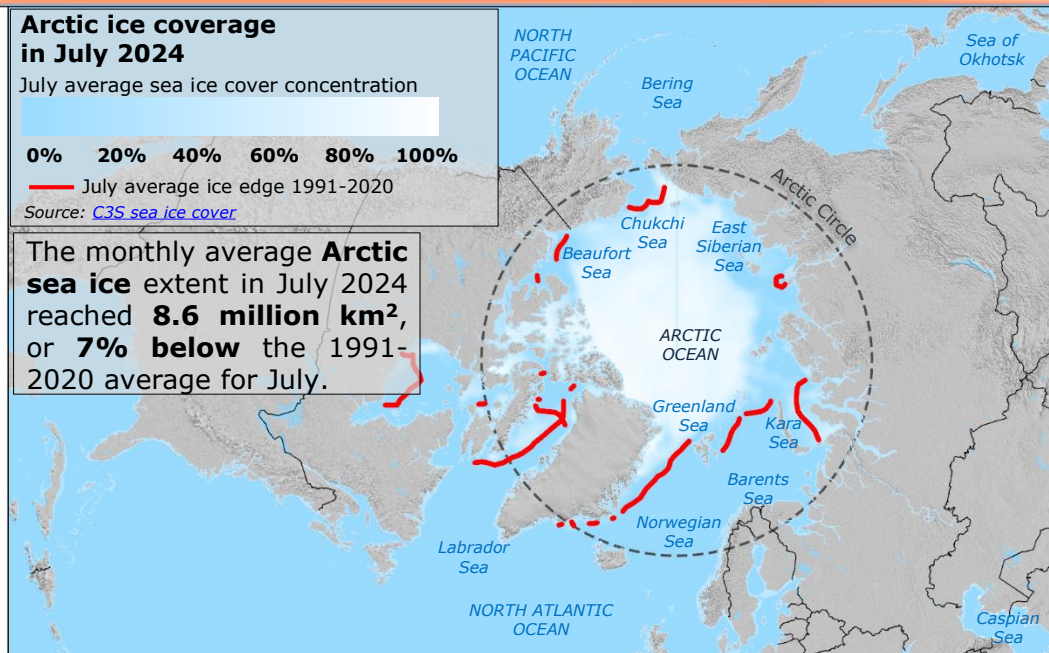
**Arctic ice coverage in July 2024**

July average sea ice cover concentration



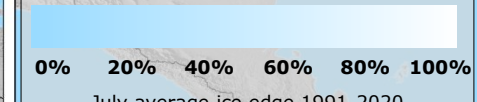
Source: [C3S sea ice cover](#)

The monthly average **Arctic sea ice** extent in July 2024 reached **8.6 million km<sup>2</sup>**, or **7% below** the 1991-2020 average for July.



**Antarctic ice coverage in July 2024**

July average sea ice cover concentration



Source: [C3S sea ice cover](#)

Ice shelf in Antarctica

In July 2024, the **Antarctic sea ice** extent reached **14.6 million km<sup>2</sup>**, or **11% below** the 1991-2020 average for July.

