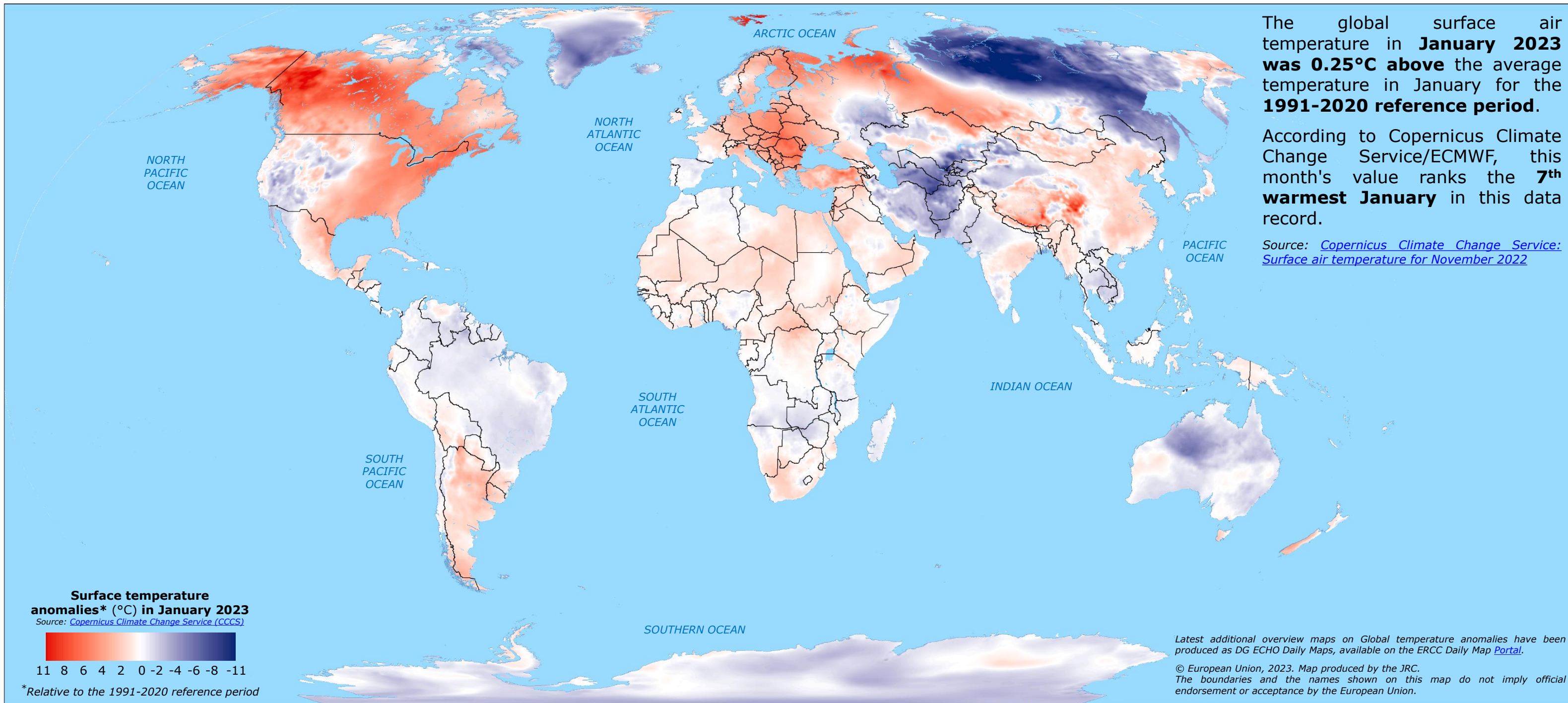


World | Temperature Anomalies in January 2023



The global surface air temperature in **January 2023** was **0.25°C above** the average temperature in January for the **1991-2020 reference period**.

According to Copernicus Climate Change Service/ECMWF, this month's value ranks the **7th warmest January** in this data record.

Source: [Copernicus Climate Change Service: Surface air temperature for November 2022](#)

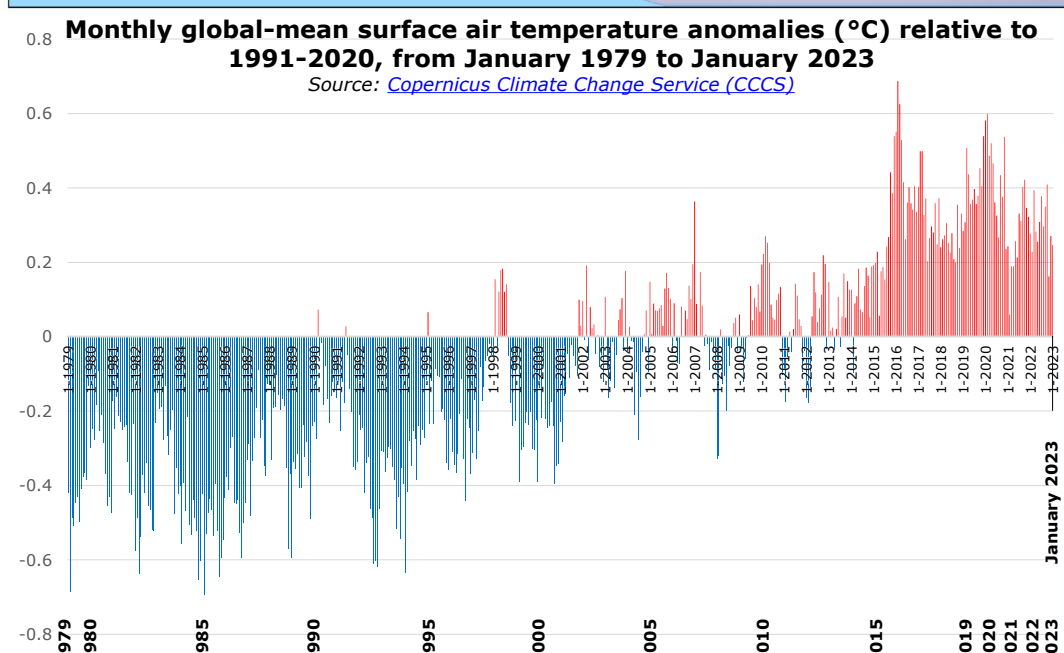
Surface temperature anomalies* (°C) in January 2023
Source: [Copernicus Climate Change Service \(CCCS\)](#)



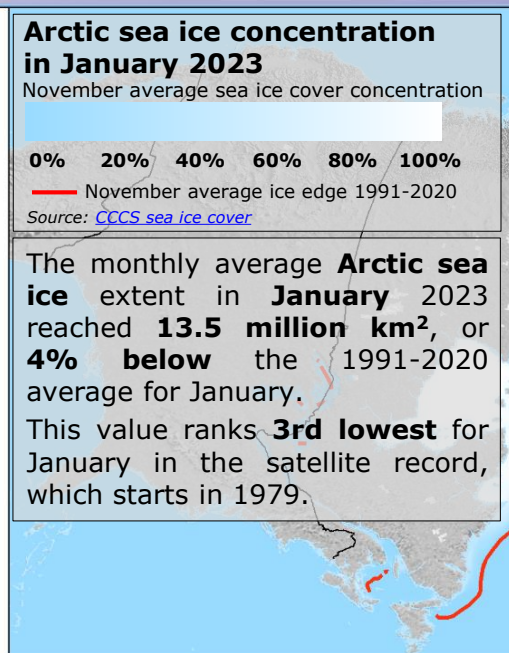
*Relative to the 1991-2020 reference period

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

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Monthly global-mean surface air temperature anomalies (°C) relative to 1991-2020, from January 1979 to January 2023
Source: [Copernicus Climate Change Service \(CCCS\)](#)



Arctic sea ice concentration in January 2023
November average sea ice cover concentration

0% 20% 40% 60% 80% 100%
— November average ice edge 1991-2020
Source: [CCCS sea ice cover](#)

The monthly average **Arctic sea ice** extent in **January 2023** reached **13.5 million km²**, or **4% below** the 1991-2020 average for January. This value ranks **3rd lowest** for January in the satellite record, which starts in 1979.



Antarctic sea ice concentration in January 2023
November average sea ice cover concentration

0% 20% 40% 60% 80% 100%
— November average ice edge 1991-2020
Source: [CCCS sea ice cover](#)

In January 2023, the **Antarctic sea ice** extent reached **3.8 million km²** on average, or **31% below** the 1991-2020 average for January. This was the lowest extent for January within the 44-year satellite dataset.



SOUTHERN OCEAN