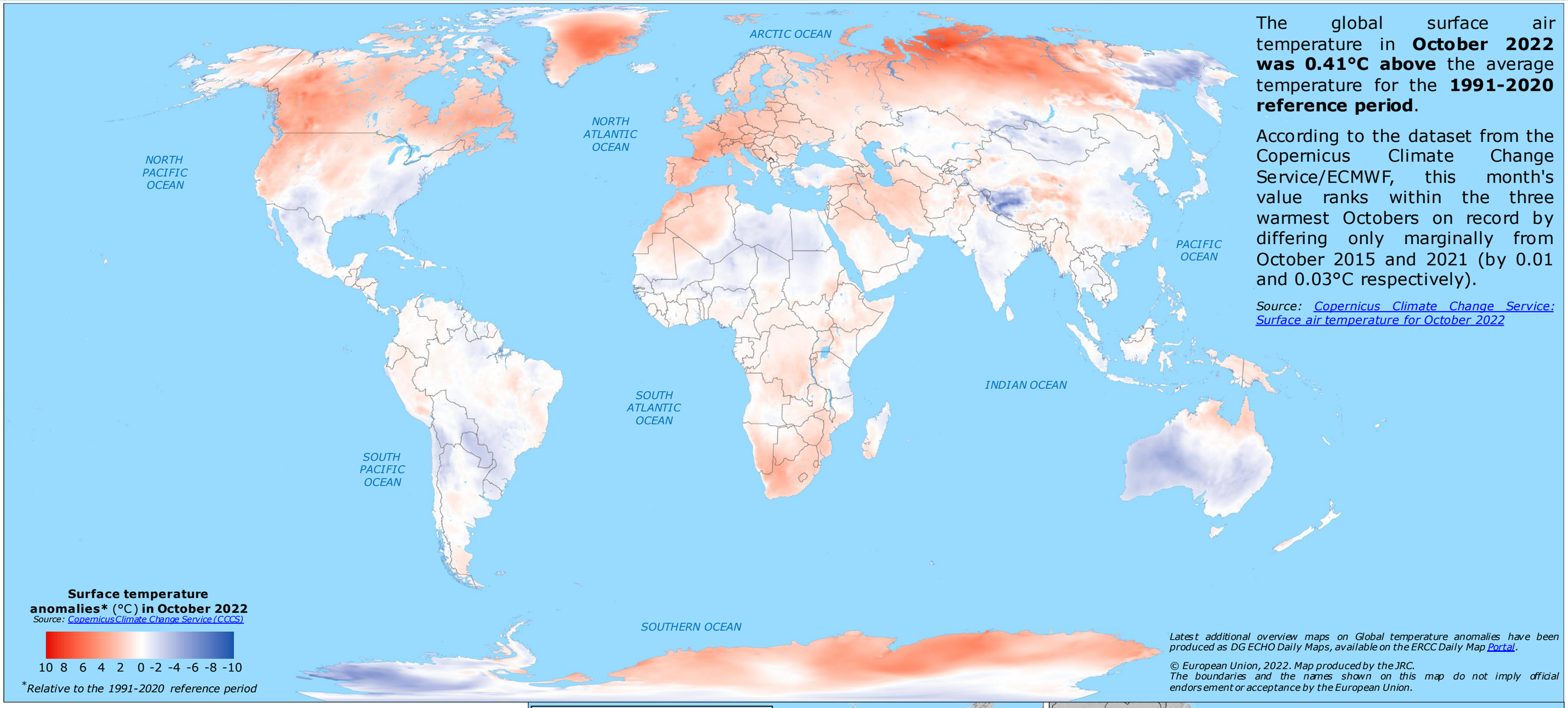
World | Temperature Anomalies in October 2022



The global surface air temperature in **October 2022 was 0.41°C above** the average temperature for the **1991-2020 reference period**.

According to the dataset from the Copernicus Climate Change Service/ECMWF, this month's value ranks within the three warmest Octobers on record by differing only marginally from October 2015 and 2021 (by 0.01 and 0.03°C respectively).

Source: Copernicus Climate Change Service: Surface air temperature for October 2022

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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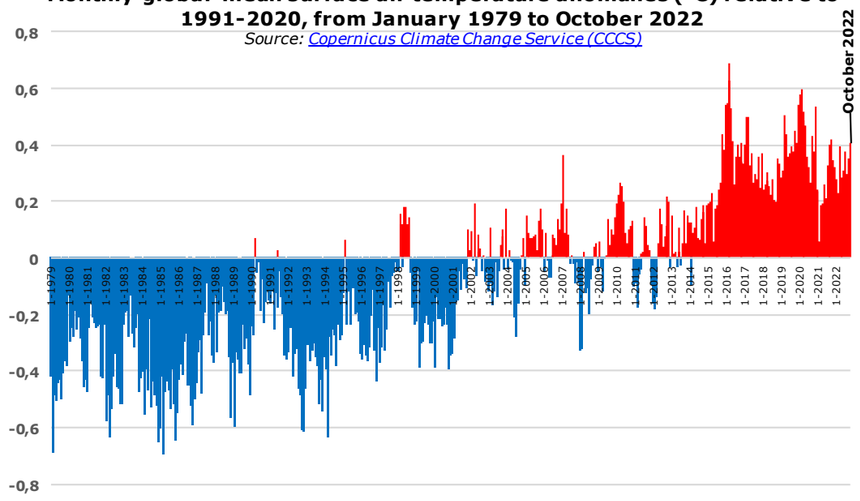
The boundaries and the names shown on this map do not imply official endorsement or acceptance by the European Union.

Monthly global-mean surface air temperature anomalies (°C) relative to 1991-2020, from January 1979 to October 2022

Source: Copernicus Climate Change Service (CCCS)



Arctic sea ice concentration in October 2022

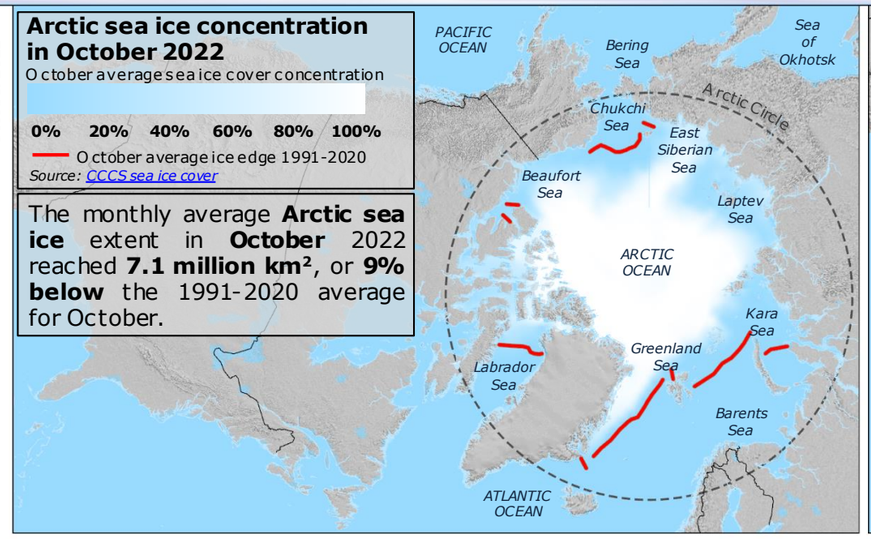
October average sea ice cover concentration

0% 20% 40% 60% 80% 100%

October average ice edge 1991-2020

Source: CCCS sea ice cover

The monthly average **Arctic sea ice** extent in **October** 2022 reached **7.1 million km²**, or **9% below** the 1991-2020 average for October.



Antarctic sea ice concentration in October 2022

October average sea ice cover concentration

0% 20% 40% 60% 80% 100%

October average ice edge 1991-2020

Source: CCCS sea ice cover

Ice shelf in Antarctica

In October 2022, the **Antarctic sea ice** extent reached **17.9 million km²** on average, or **4% below** the 1991-2020 average for October. This value ranks 3rd lowest for October in the satellite data record, jointly with October 2016.