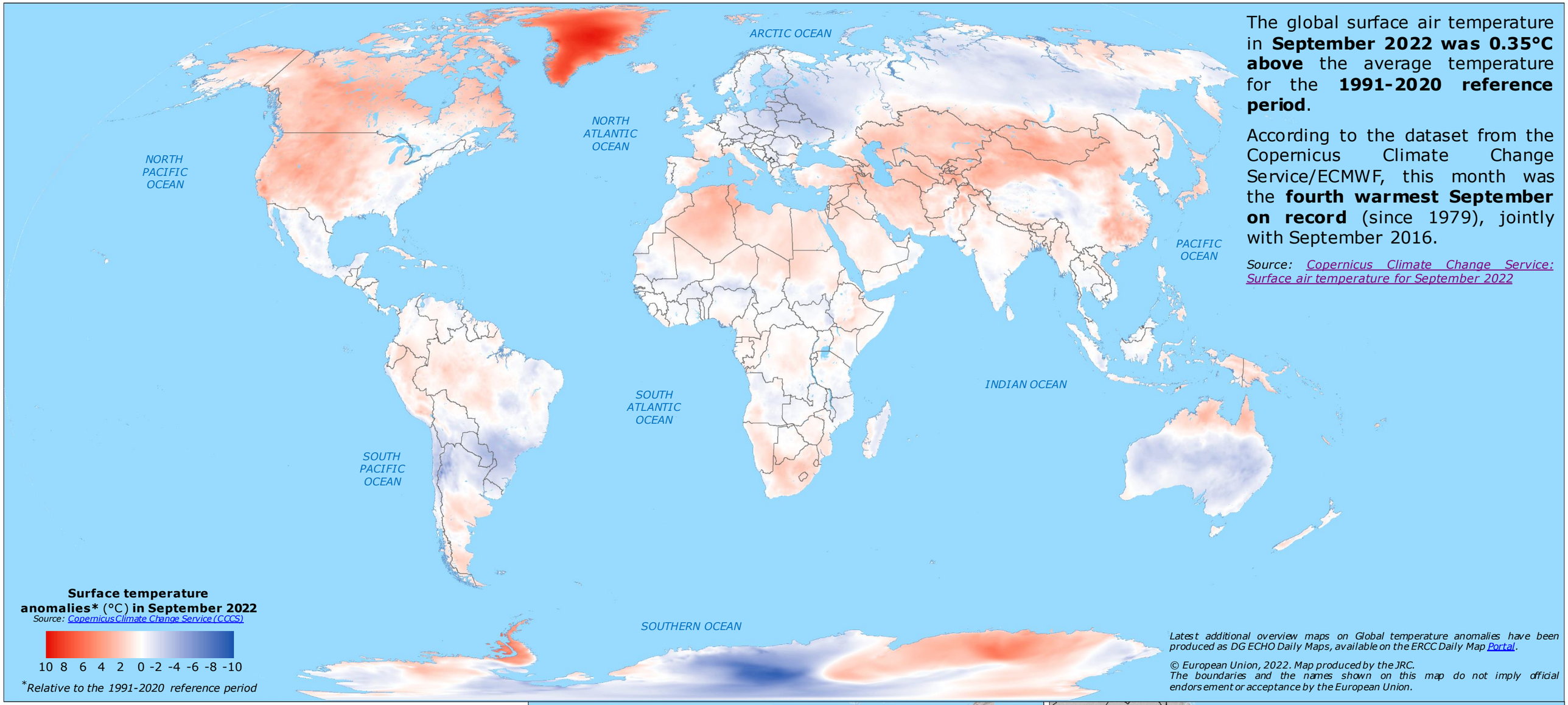
World | Temperature Anomalies in September 2022



The global surface air temperature in **September 2022 was 0.35°C above** the average temperature for the **1991-2020 reference period**.

According to the dataset from the Copernicus Climate Change Service/ECMWF, this month was the **fourth warmest September on record** (since 1979), jointly with September 2016.

Source: Copernicus Climate Change Service: Surface air temperature for September 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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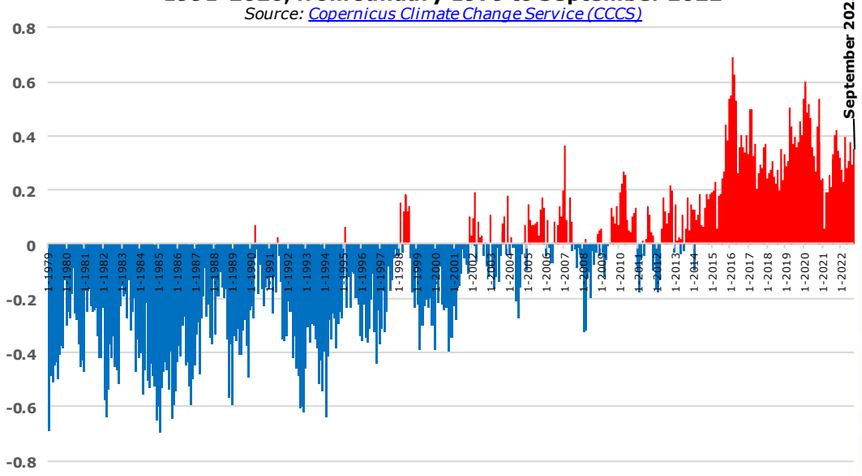
Monthly global-mean surface air temperature anomalies (°C) relative to 1991-2020, from January 1979 to September 2022

Source: Copernicus Climate Change Service (CCCS)



Arctic sea ice concentration in September 2022

September average sea ice cover concentration

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

September average ice edge 1991-2020

Source: CCCS sea ice cover

The monthly average **Arctic sea ice** extent in **September** 2022 reached **5.4 million km²**, or **11% below** the 1991-2020 average for September.

Antarctic sea ice concentration in September 2022

September average sea ice cover concentration

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

September average ice edge 1991-2020

Source: CCCS sea ice cover

Ice shelf in Antarctica

In September 2022, the **Antarctic sea ice** extent reached **18.5 million km²** on average, or **3% below** the 1991-2020 average for September.