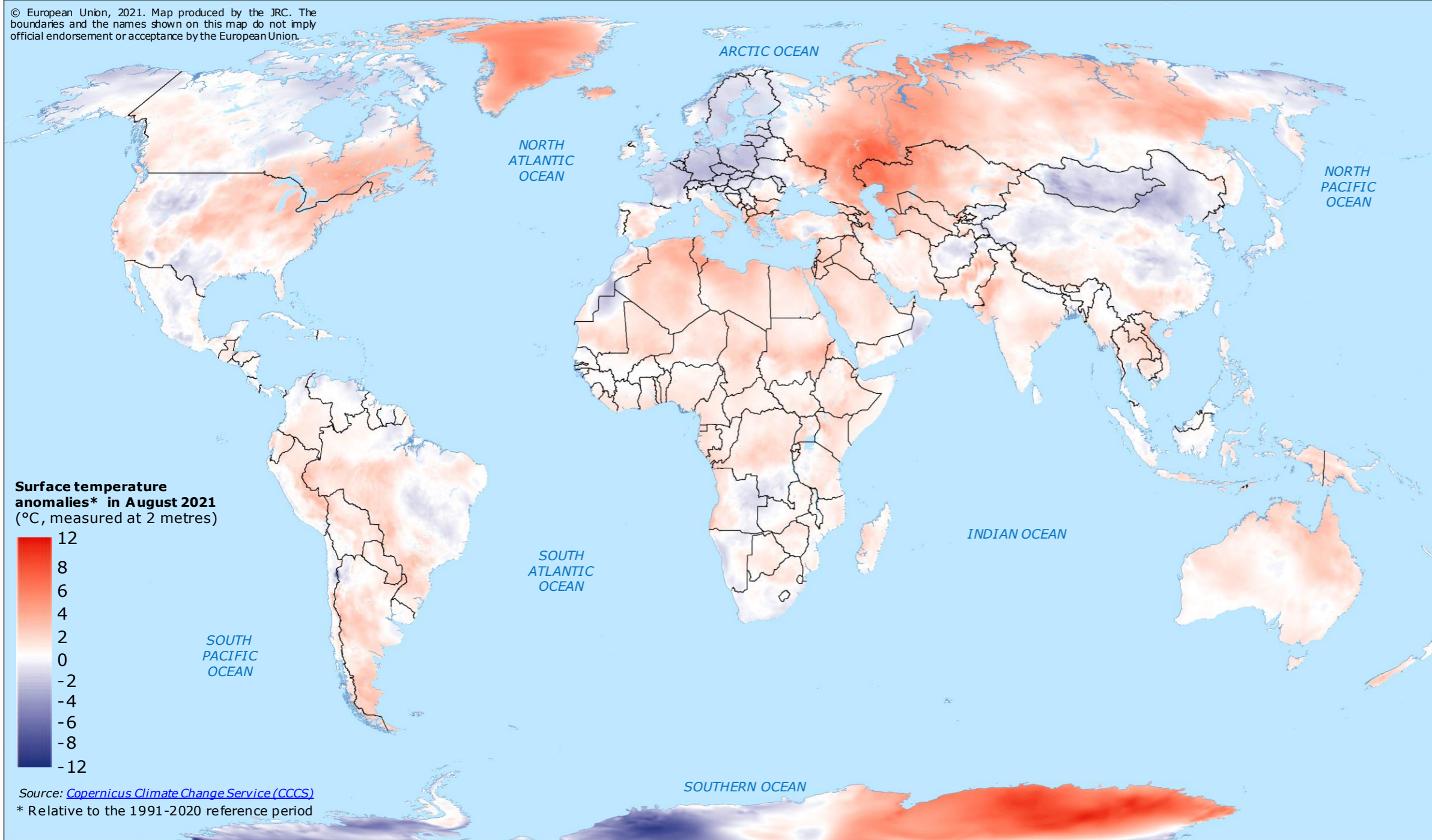
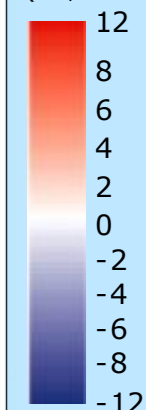


# World | Temperature Anomalies in August 2021

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Surface temperature anomalies\* in August 2021 (°C, measured at 2 metres)



Source: Copernicus Climate Change Service (CCCS)  
\* Relative to the 1991-2020 reference period

Globally, August 2021 was the third warmest August on record (alongside August 2017), with a little over 0.3°C warmer than the 1991-2020 average.

Over Europe, temperatures were close to the 1991-2020 average, although significant temperature variations across the continent were reported. Southern and southeastern Europe experienced warmer than average conditions, while central and northern Europe had colder than average conditions.

Above average temperatures extended from the north of the Black Sea right across Siberia, with the most significant positive anomalies found the north of the Caspian Sea. Greenland had a large warm anomaly, and warmer than average conditions were also experienced over northeastern North America, and large parts of South America. Temperatures were higher than normal over much of north and central Africa, the Middle East, large parts from Pakistan to south-east Asia, southern China, and across most of Australia and New Zealand.

Colder than average temperatures occurred in a west-to-east band across Afghanistan, Mongolia and northern China to the Korean Peninsula. Other regions with below-average temperatures include northern Canada and northern Alaska, northern Mexico, eastern Brazil, and some regions across western and southern Africa.

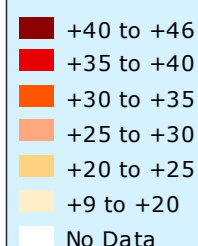
Source: Copernicus Climate Change Service: Surface air temperature for August 2021

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

<sup>1</sup>Positive percentages indicate areas with greater than average ice concentration, whilst negative percentages indicate areas with less than average ice concentration.

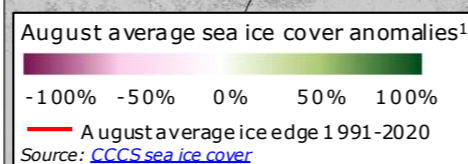
## Average daily maximum temperature (°C) for August 2021 across Europe\*

Source: JRC-EDQ, JRC-Agri4Cast, JRC-MARS



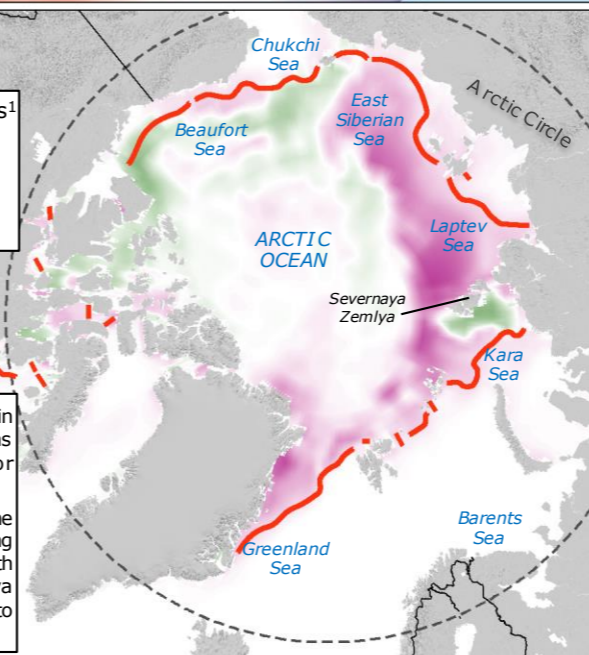
\*Daily interpolated maximum air temperature using around 4,000 weather stations.

## Arctic sea ice concentration in August 2021

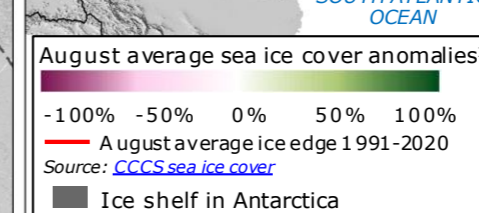


The monthly average Arctic sea ice extent in August 2021 was 6.3 million km<sup>2</sup>, which was 8% below the 1991-2020 average for August.

Negative anomalies were predominant in the north-western Greenland Sea and along most of the Siberian sector of the Arctic, with the exception being the western Severnaya Zemlya archipelago, which continued to report above average sea ice cover.



## Antarctic sea ice concentration in August 2021



In August 2021, Antarctic sea ice extent reached 18.6 million km<sup>2</sup> which is approximately 0.4% above the 1991-2020 average for August.

The August 2021 value also marks the first positive August anomaly since 2016, and confirms a series of positive monthly anomalies recorded in 2021 (since March).

Small negative sea ice concentration anomalies prevailed in two smaller sectors, one around the northern tip of the Antarctic Peninsula, and one in the northern Ross Sea.

