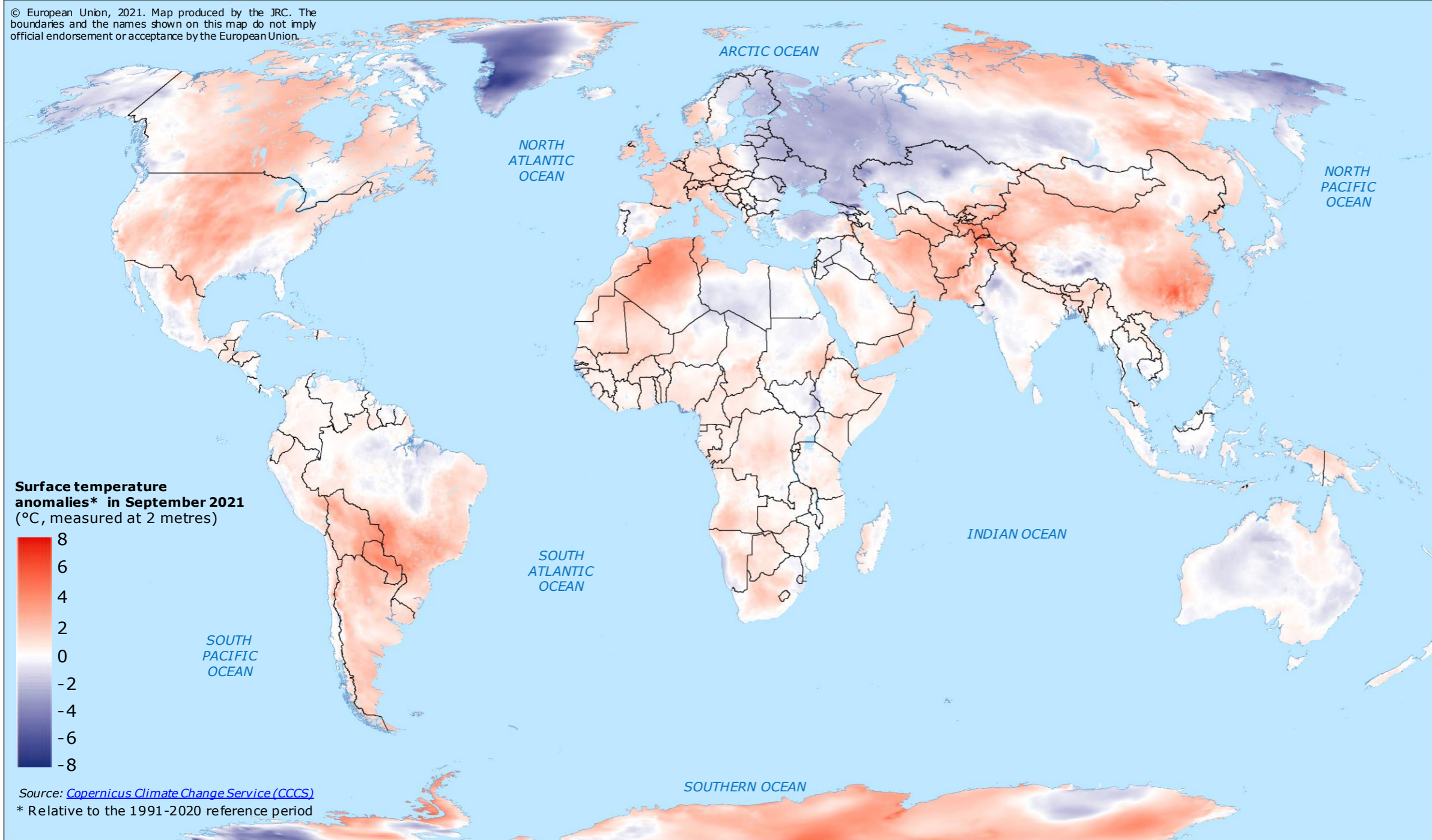
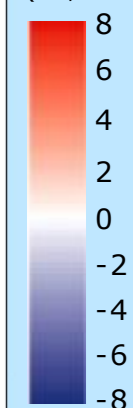


World | Temperature Anomalies in September 2021

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



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

Globally, September 2021 was one of the four warmest Septembers, for the reference period 1991-2020, along with those of 2020, 2019 and 2016.

In Europe, temperatures were warmer than the 1991-2020 average over most of central, southern and western regions. The French national meteorological service ([Météo-France](#)) reported the highest daily maximum September temperature for the whole country, while in the United Kingdom, the second warmest September on record was reported by the [UK Met Office](#).

September was warmer than average over most of other land masses, as high temperatures were recorded over central regions of the USA and Canada, north-western Africa, an arc from Iran through central Asia to south-eastern China, most of Siberia, drought-hit central South America (as highlighted by the [JRC-GDO](#) report), and much of the Antarctic (with the exception of West Antarctica).

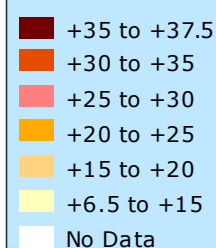
Colder than average temperatures occurred in a region extending eastward from eastern Europe to central Russia, including most of Kazakhstan. Other regions with below-average temperatures include Alaska, Greenland (with the exception of north-eastern areas), northern Brazil, north-eastern Africa, parts of north-western India and south-western China, the easternmost Russia, as well as most of Australia.

Source: [Copernicus Climate Change Service: Surface air temperature for September 2021](#)

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

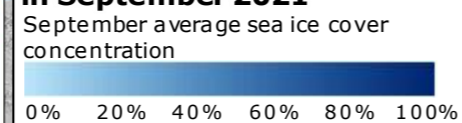
Average daily maximum temperature (°C) for September 2021 across Europe*

Source: [JRC-EDQ](#), [JRC-Agri4Cast](#), [JRC-MARS](#)



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

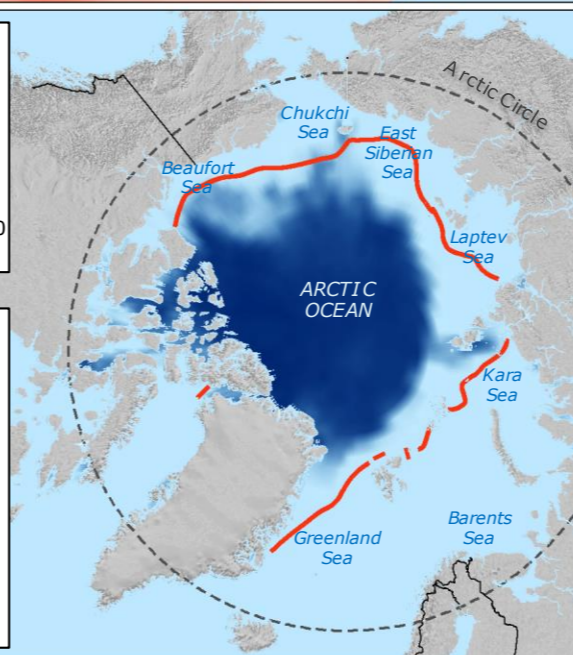
Arctic sea ice concentration in September 2021



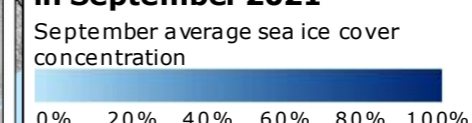
Source: [CCCS sea ice cover](#)

The monthly average Arctic sea ice extent in September 2021 reached its annual minimum at 5.6 million km², which was 8% below the 1991-2020 average for September.

Large negative sea ice concentrations extended from the Greenland Sea eastward up to the East Siberian Sea. A low record for the sea ice extent was reported in the Greenland Sea, an area also characterised by much above-average surface temperatures. In contrast, on the near opposite side of the Arctic Ocean, sea ice extent in the Beaufort-Chukchi Sea sector reached its highest value in 15 years (since 2006).



Antarctic sea ice concentration in September 2021



Source: [CCCS sea ice cover](#)

The monthly average Antarctic sea ice extent in September 2021 reached its annual maximum, with 18.9 million km² which is approximately 1% above the 1991-2020 average for September.

Below average sea ice concentrations were reported in the vicinity of the northern Antarctic Peninsula and Weddell Sea.

