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## August 2024 was the warmest in Spain in the entire historical series

06/09/2024 With an average temperature of 25 °C, it surpassed the warmest Augusts to date, those of 2003 and 2023, both tied with 24.8 °C. The heat wave that had begun on July 23 ended on the 1st. There was then another heat wave between the 4th and 13th and two warm episodes during the second half of the month. It was a month with above-normal rainfall: it was the eighth wettest of the current century on the Peninsula, and the third in the Balearic Islands.

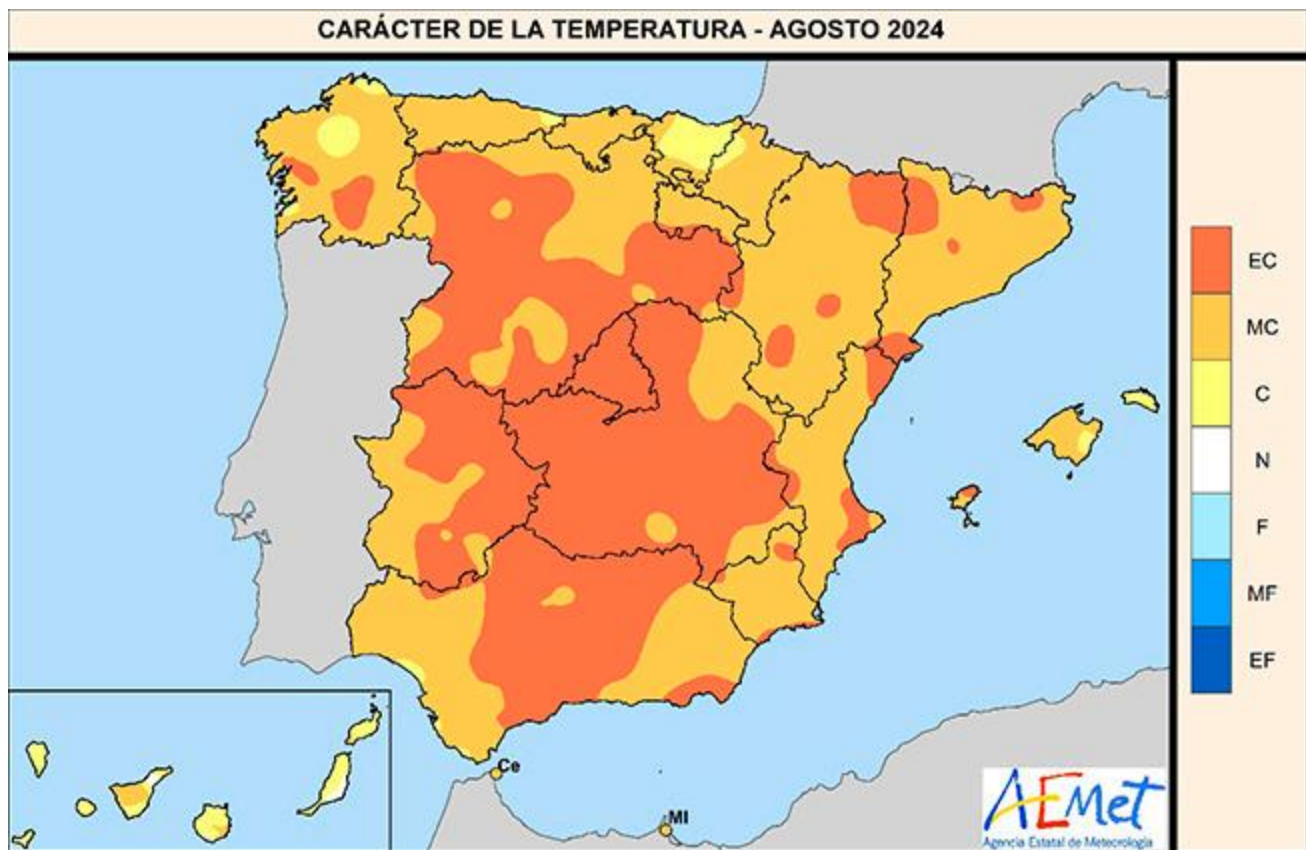
### TEMPERATURES

The month of August was extremely warm overall, with an average temperature over mainland Spain of 25.0 °C. This value is 2.0 °C above the average for this month (reference period: 1991-2020). It was the warmest August since the beginning of the series in 1961, exceeding by 0.2 °C the Augusts of 2003 and 2023, which were until now the warmest in the series.

	Temperatura media		
	T media (°C)	Anomalía (°C)	Carácter
<b>España peninsular</b>	25,0	+2,0	Extremadamente cálido
<b>Baleares</b>	26,4	+0,8	Muy cálido
<b>Canarias</b>	24,0	+0,9	Cálido

Table of average temperatures in August 2024 in the different geographical areas of Spain, anomaly with respect to normal and character.

August was extremely warm in large areas of the interior of the peninsula, with a very warm character in the rest of mainland Spain. In some areas of the Cantabrian Sea and northern Galicia it was warm. In the Balearic Islands it was generally very warm, while in the Canary Islands it was variable from one area to another, being generally warm as well.



Temperature character in August 2024.

August 1 was the last day of the heat wave that had begun on July 23 and had extended throughout the last week of July over mainland Spain and the Balearic Islands. There was another heat wave in August in mainland Spain and the Balearic Islands, between the 4th and 12th, with both maximum and minimum temperatures well above the usual values for the time of year: temperatures exceeded 40 °C not only in the south and centre of the peninsula, but also in areas of the north.

There were also two warm episodes, between 17-24 and 27-28, with temperatures above normal, although they did not reach the thresholds necessary to classify them as heat waves. A brief cold episode was observed on 14-16, with temperatures below average in most regions.

The highest temperatures among main stations were recorded at Bilbao/airport, where 42.9 °C were recorded on day 11, Málaga/airport, with 42.2 °C on day 2, and Granada/airport and Granada/air base, where 41.8 °C were recorded on day 1 at both stations. At the main station in Hondarribia, a maximum of 40.7 °C was recorded on day 11, which is the highest temperature in August at this station since the beginning of the series in 1956.

## PRECIPITATIONS

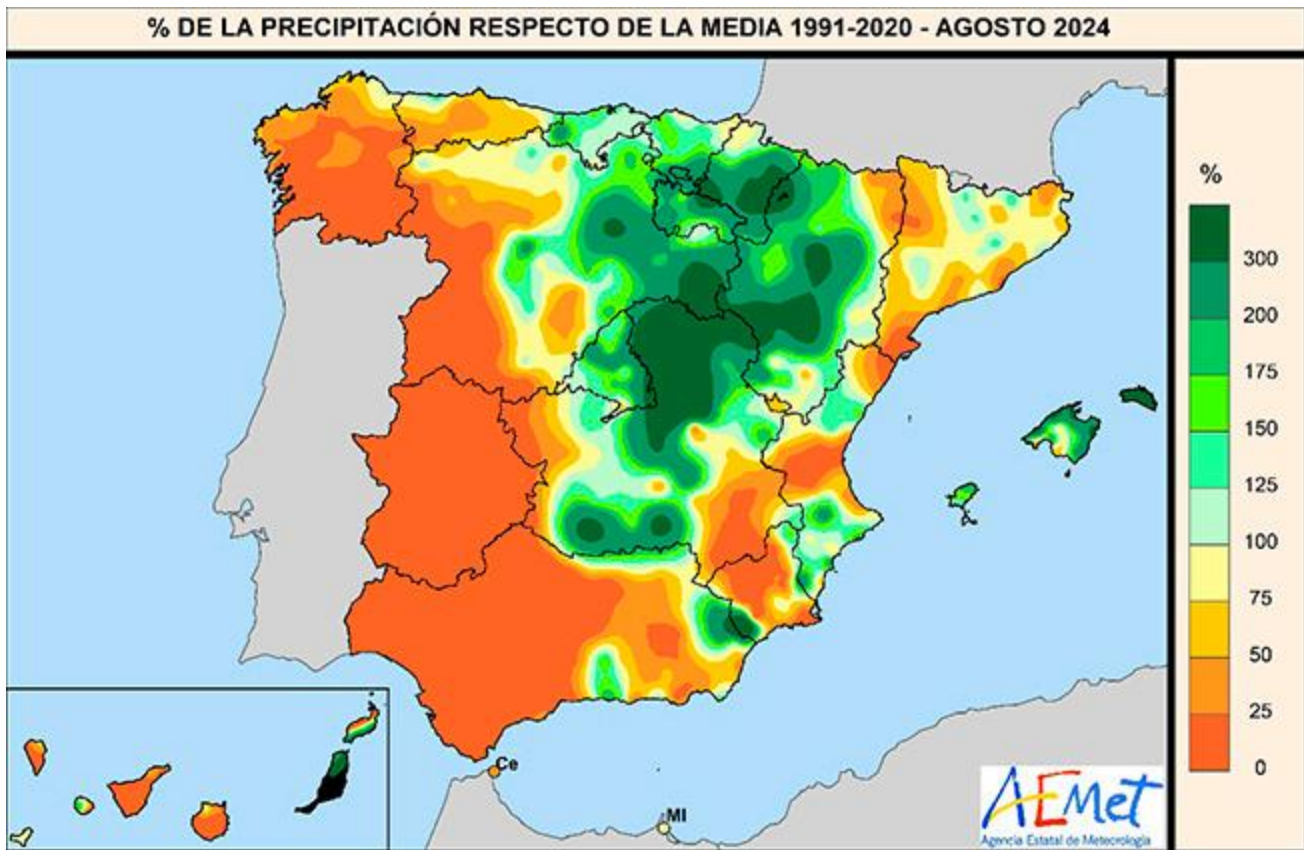
August was a wet month, with an average precipitation value over mainland Spain of 24.2 l/m<sup>2</sup>, which represents 112% of the normal value for the month (reference period: 1991-2020). It was the twenty-second wettest August since the beginning of the series in 1961 and the eighth of the 21st century. In the Balearic Islands it was the fifth wettest August in the series and the third of the 21st century.

	Precipitación		
	P (mm)	Porcentaje (%)	Carácter
<b>España peninsular</b>	24,2	112	Húmedo
<b>Baleares</b>	63,6	297	Muy Húmedo
<b>Canarias</b>	1,9	90	Húmedo

Precipitation table for August 2024 in the different geographical areas of Spain, anomaly with respect to normal and character.

August was very wet in much of Aragon, Navarre, La Rioja, the Basque Country, eastern Castile and Leon, Madrid and northwestern Castile-La Mancha, where it was extremely wet. In the rest of the Peninsula it was between normal and wet, except in Galicia, western Castile and Leon, Extremadura and northwestern Andalusia, where it was dry or very dry. In the Balearic Islands as a whole it was very wet, while it was wet in the Canary Islands.

During the first ten days of the month, rainfall was isolated. In the second ten days, it affected mainly the northern half and, especially, the Balearic archipelago, where a low pressure caused rainfall to exceed 100 l/m<sup>2</sup> in the north and east of Mallorca, almost as much as in much of Menorca, and even 200 l/m<sup>2</sup> in some parts of this island. In the third ten days, there were showers accompanied by thunderstorms in large areas of the peninsula, except in the southwest.



Precipitation percentage relative to the 1991-2020 average in August 2024.

There were several 24-hour rainfall records for the month of August at stations on the main network: on the 15th in Menorca/airport, with 93.2 l/m<sup>2</sup>; on the 30th in Guadalajara, with 57.2 l/m<sup>2</sup> and in Molina de Aragón, with 49.6 l/m<sup>2</sup>; on the 21st, in Teruel 48.2 l/m<sup>2</sup> were recorded; and on the 13th, 43.3 l/m<sup>2</sup> were accumulated in Logroño/airport.

As for total rainfall for the month, the main stations include 113 l/m<sup>2</sup> in Menorca/airport, 105.1 l/m<sup>2</sup> in Logroño/airport, 95.7 l/m<sup>2</sup> in Donostia/San Sebastián/Igueldo, 95.3 l/m<sup>2</sup> in Pamplona/airport, 90.5 l/m<sup>2</sup> in Bilbao/airport and 89.7 l/m<sup>2</sup> recorded in Hondarribia/Malkarroa.

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