

Guidance on **heat wave**

ID: 201906-i

Area concerned: West Kazakhstan, southern European Russia, Azerbaijan, Georgia, Armenia, eastern Turkey, Ukraine, Moldova, Romania, Bulgaria, North Macedonia, Albania, Serbia



Initial statement issued on 20 August 2019

Valid: Begin: on 20 August 2019 End: 3 September 2019

To: Climate Watch focal points of Kazakhstan, Russia, Azerbaijan, Georgia, Armenia, Turkey, Ukraine, Moldova, Romania, Bulgaria, North Macedonia, Albania, Serbia

The RA VI RCC Network Offenbach Node on Climate Monitoring (RCC Node-CM) is responsible for providing Climate Watch guidance information for NMHSs' own consideration for issuing climate advisories for their territory.

After having consulted the consortium partners of the RCC Node-CM and RCC Node-LRF (RA VI RCC Network Toulouse and Moscow Node on Long-Range Forecasting), RCC Node-CM issues the following guidance information:

Due to the results from monthly forecasts we expect:

"A heat wave developing north and south of the Caucasus region and extending to the eastern Balkans during the next two weeks. Daily maxima up to 35-40°C are to be expected. Weekly anomalies will be +1 to +3°C, partly and temporarily +3 to +6°C. The probability for this development is above 90% for the first week and 70-90% for the second week. There is a risk of enhanced heat stress for vulnerable people, animals and plants, and an increased risk of forest fires as the heat wave will be accompanied by mainly dry weather. "

This information should be used as guidance for the National Meteorological and Hydrological Services (NMHS) in a pre-operational mode. It is up to the above mentioned NMHSs to closely monitor the status and evolution of the current climate conditions and to consider issuing a national Climate Watch Advisory. RCC Node-CM would appreciate feedback from NMHS whether this information was helpful. Also, any suggestion on further pieces of information needed by NMHSs is highly welcomed!

A template for a national climate watch advisory as agreed among the climate watch pilots and RCC Node-CM can be provided by RCC Node-CM on demand.

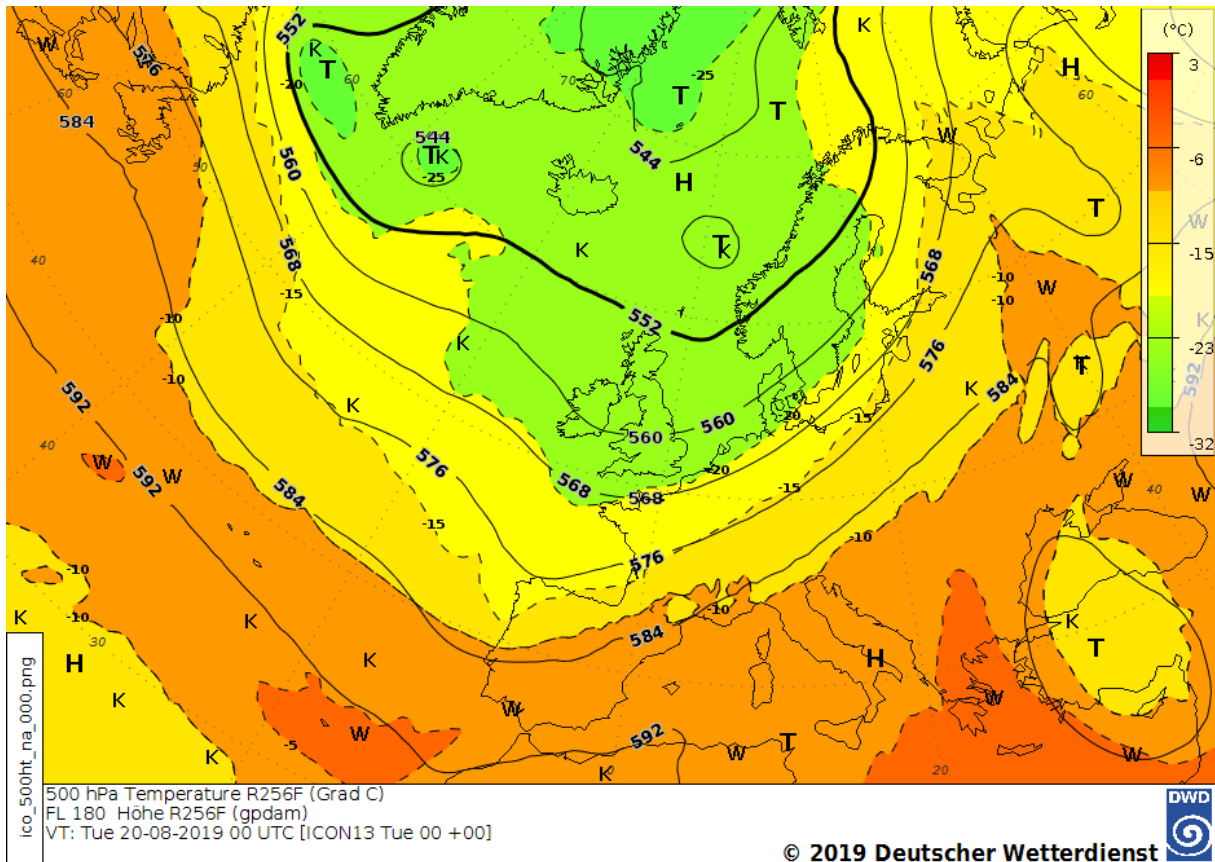
Please note that further information can be obtained from RCC Node-CM website (www.dwd.de/rcc-cm) concerning Climate Monitoring and from RCC Node-LRF websites (<http://seasonal.meteo.fr>, <http://neacc.meteoinfo.ru/forecast>) concerning Long-Range Forecast or by e-mail to rcc.cm@dwd.de or rcc-lrf-mf@meteo.fr.

For ECMWF members, further information on monthly forecasts after logging in is provided at <http://www.ecmwf.int/> ->Forecasts

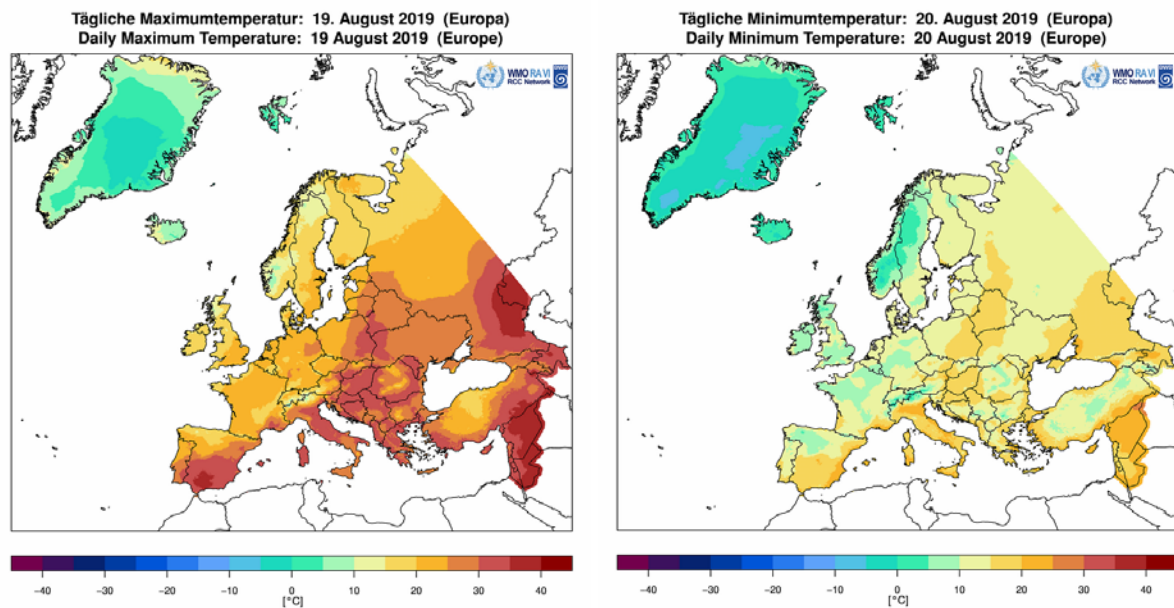
We will monitor the evolution of the anomaly, issue updates if significant change arise and close the advice when no clear signal can be detected in the forecasts.

On behalf of the RCC Node-CM Team

Climate Watch Advisory



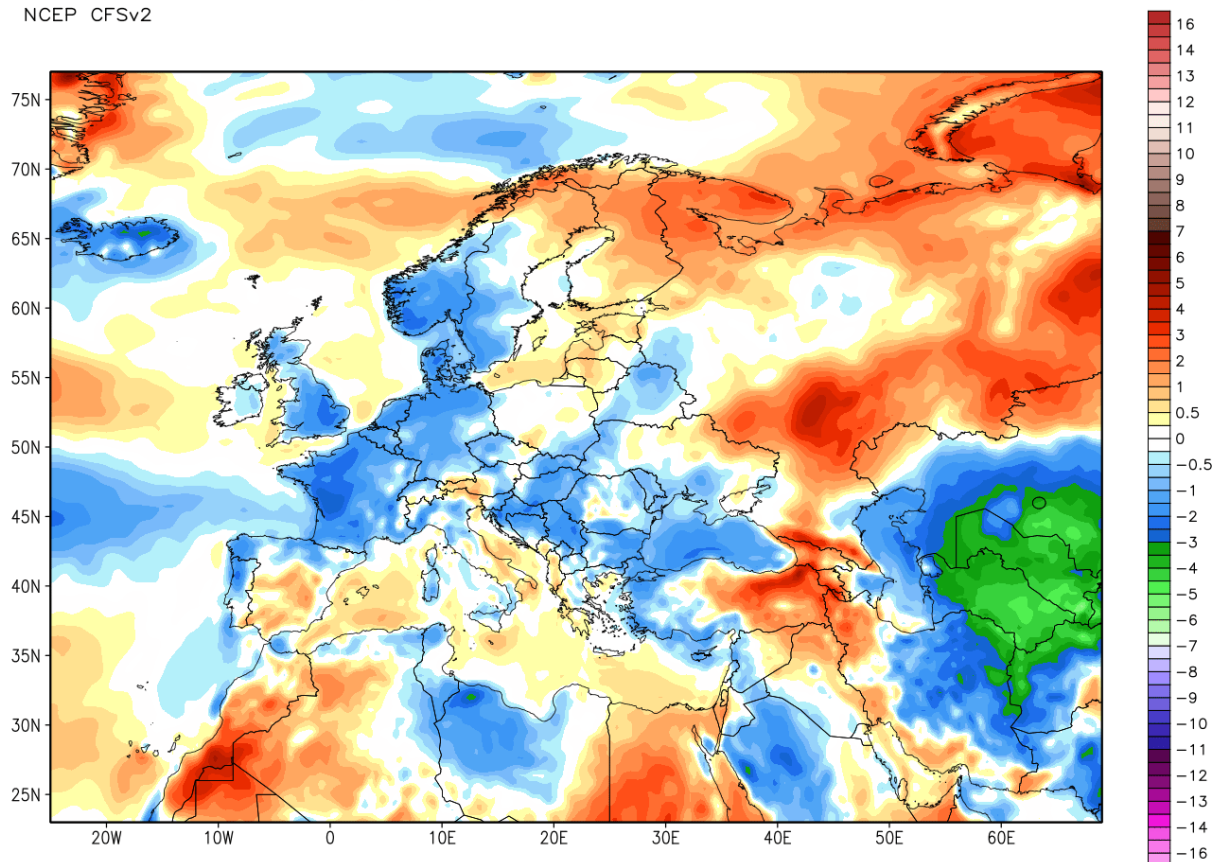
500 hPa chart, 20 August 2019, 00 UTC. Source: DWD



Daily maximum and minimum temperature on 19/20 August 2019 (source: DWD RCC Node-CM, <https://www.dwd.de/rcc-cm>)

Climate Watch Advisory

Temperature (2-meter) Anomaly [°C] 06Z13AUG2019 --> 00Z20AUG2019 | Average
NCEP CFSv2



NCEP CFSR 1981–2010 Climatology | T574 CFSv2 Analysis Grid | WeatherBELL

Weekly temperature anomalies in °C for 13-20 August 2019 (source: WeatherBELL, http://models.weatherbell.com/climate/ncep_cfsr_europe_t2m_week_anom.png)

Past events taken from KRONER Database of DWD (Climate Knowledge Database on Extreme Events):

Countries affected	Begin	End	Duration in days	Fatalities	Description
Turkey, Ukraine, Syria and Jordan	19 August 2018	25 August 2018	7	7	Some parts of Turkey were recorded up to 42°C.