



EXPRESS MONITORING OF CLIMATE CONDITIONS IN KAZAKHSTAN FOR JULY 2026

Anomalies of average monthly air temperature and monthly precipitation in Kazakhstan

The bulletin is designed to promptly inform government agencies, industry organizations, the scientific community, and other interested parties about current climatic conditions in Kazakhstan.

RELEVANT

- In July 2026, the average monthly air temperature was **2.41 °C above the climate norm.**
- Precipitation was **6.96 mm below the climatological norm.**

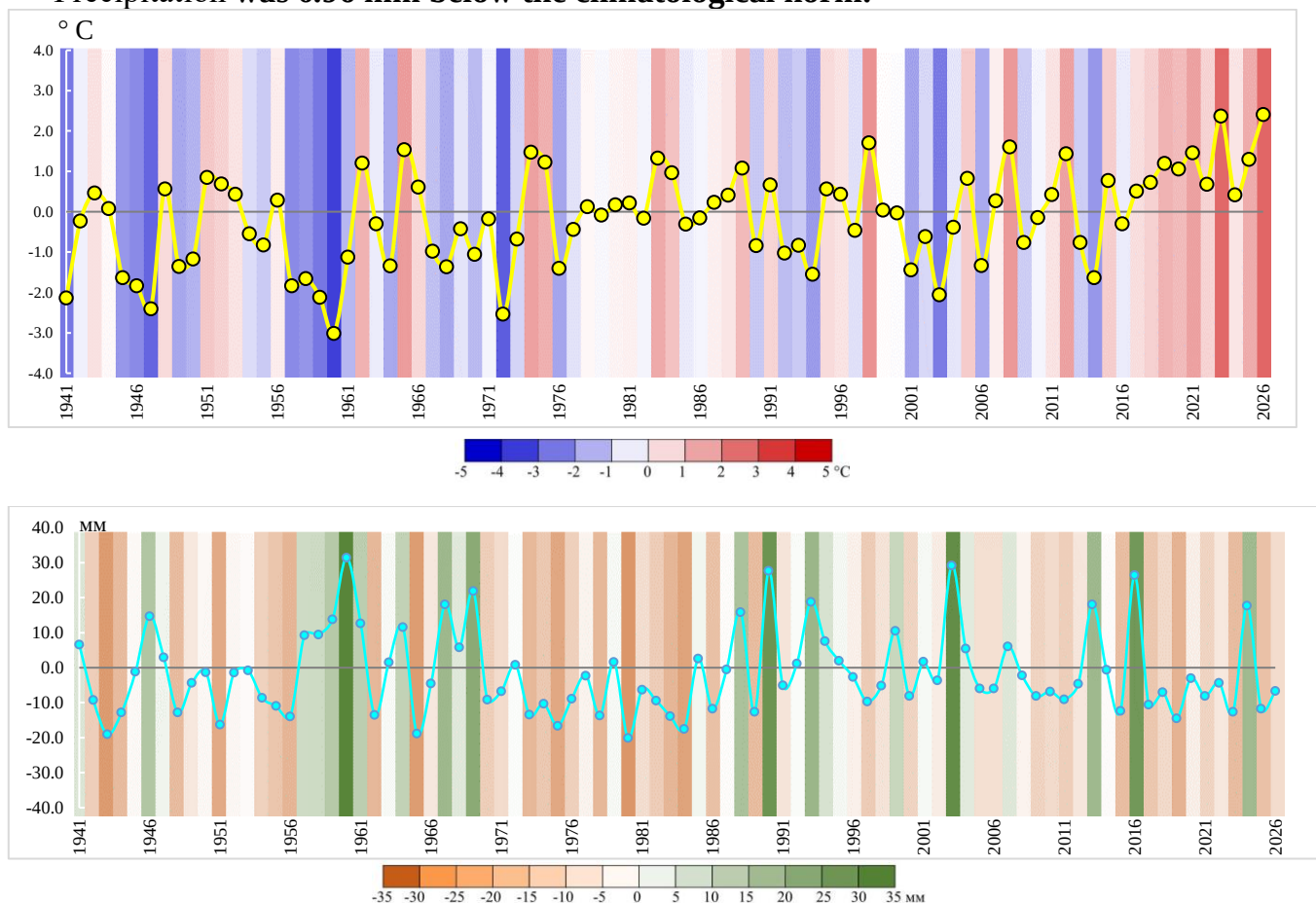


Figure 1 – Time series of air temperature anomalies (a) (°C) and precipitation anomalies (b) (mm) for July, averaged across Kazakhstan for the period 1941–2026.

The anomalies are calculated relative to the 1991–2020 reference period

AIR TEMPERATURE

An analysis of the time series of air temperature anomalies for July shows that, over the past ten years, only positive deviations from the climatological norm have been observed (Fig. 1a). The average air temperature in July 2026 exceeded the climatic norm by 2.41 °C and became the warmest month in the entire observation period (rank 1).

In July, positive anomalies in the average monthly air temperature prevailed across Kazakhstan (Fig. 2). The largest positive deviations from the climatological norm,

reaching from 3.1 to 4.3 °C, were recorded primarily in the northwestern, northern, northeastern, and central regions of the country.

At 82.6 % of meteorostations, air temperatures fell into the «extremely warm» category, with a 95–100 % probability of non-exceedance.

A negative anomaly of -0.2 °C was recorded at the Aktau meteorostation (Mangistau region).

Air temperatures close to the climatic norm were observed in some areas of the country's western regions.

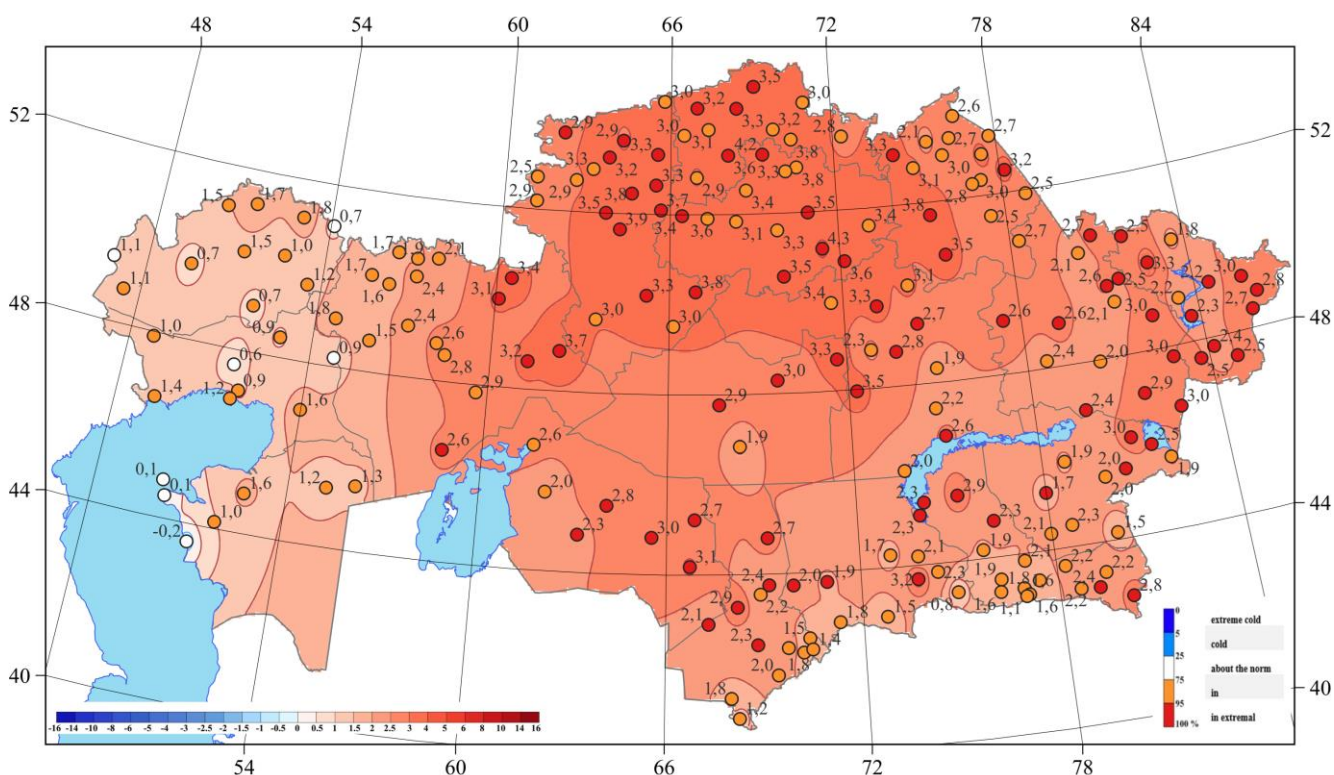


Figure 2 – Spatial distribution of anomalies of mean monthly air temperature (°C), (relatively to the norms for the period 1991–2020 years) and distribution of probabilities of non-exceedance of air temperature in July 2026 year, the period 1941–2026 years

Table 1. Record values of average monthly air temperature in July 2026

№	Meteorological station	Region	New maximum air temperature, °C	Previous record of average monthly air temperature, °C
1	BAO (Ulken Almaty)	Almaty	15.3	14.7 (1956)

PRECIPITATION

In July 2026, precipitation was 6.96 mm below the climatological norm.

An analysis of the time series of monthly precipitation anomalies for July shows that, with

the exception of July 2024, precipitation deficits have predominated over the past ten years (Fig. 1b).

Across most of Kazakhstan, precipitation was within the climatological norm (Fig. 3).

Precipitation exceeding 120 % of the climatological norm was observed locally in various regions of the country. The most significant areas of excess precipitation were recorded in the Atyrau, Mangistau, and Turkestan regions. At the meteostations in Makhambet, Zhetysay, and Presnogorkovka, monthly precipitation values corresponded to the «extremely wet» category, with a 95–100 %

probability of non-exceedance. A new record for monthly precipitation was set at the Makhambet meteostation (Atyrau region) (Table 2).

A precipitation deficit was observed in West Kazakhstan region, in the north of Aktope Region, in the west of Kostanay region, as well as in Akmola and Pavlodar regions and in the Abai and Zhetisu regions. Small pockets of precipitation deficit were also noted in the southern and central regions of the country.

Monthly precipitation amounts corresponding to the «extremely dry» category with a probability of non-exceedance of 0–5 % were recorded at 11 meteostations.

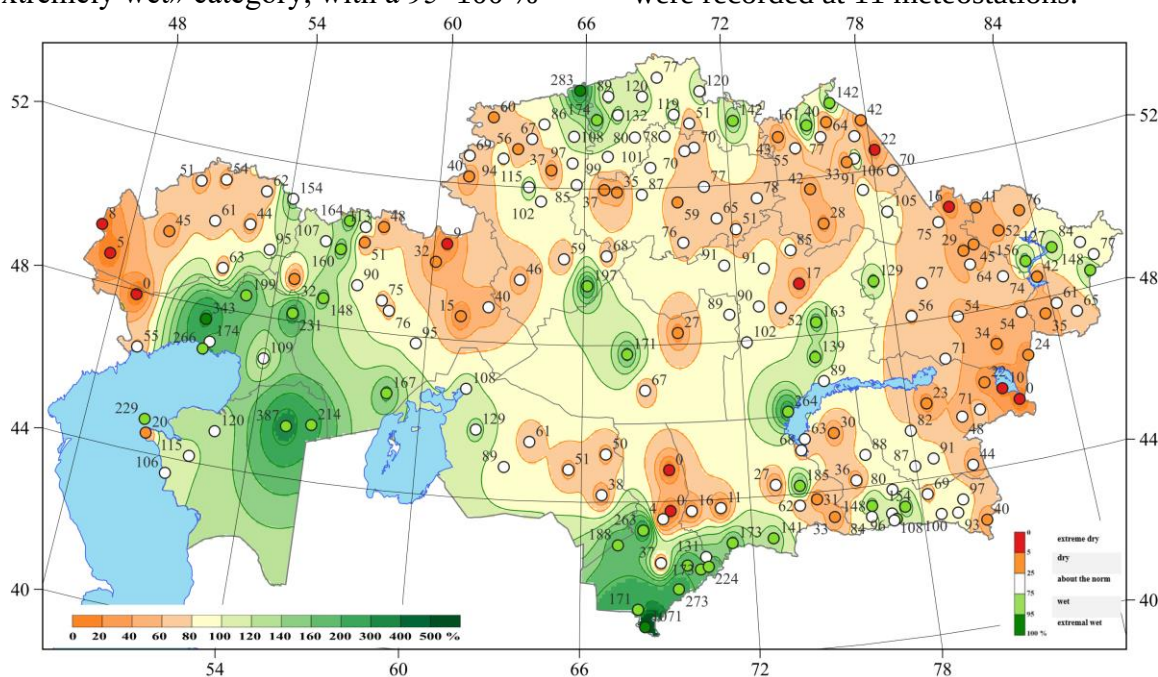


Figure 3 – Spatial distribution of atmospheric precipitation (as % of the norm, for the period 1991–2020) and the probability of non-exceedance of precipitation in July 2026 (period 1941–2026 years).

Note: In July 2026, the Zhetysay meteostation recorded 15 mm of precipitation, compared to the climatological norm of 1.4 mm, which amounted to 1071% of the norm. This high percentage is due to the extremely low climatological norm for July precipitation at the station: even a small monthly amount of precipitation, given this norm, results in a very high percentage. The record value was recorded in 1969 – 20.2 mm, or 1443% of the norm.

Table 2. Maximum monthly precipitation records for July 2026 year

№	Meteorological station	Region	New record of monthly total precipitation, mm	Previous record of monthly total precipitation, mm
1	Makhambet	Atyrau	53.9	38.1 (2016)

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