



## EXPRESS MONITORING OF CLIMATE CONDITIONS IN KAZAKHSTAN FOR MAY 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 May 2026, the average monthly air temperature was **1.37 °C above the climate norm.**
- Precipitation precipitation was **–0.95 mm below the climatological norm.**

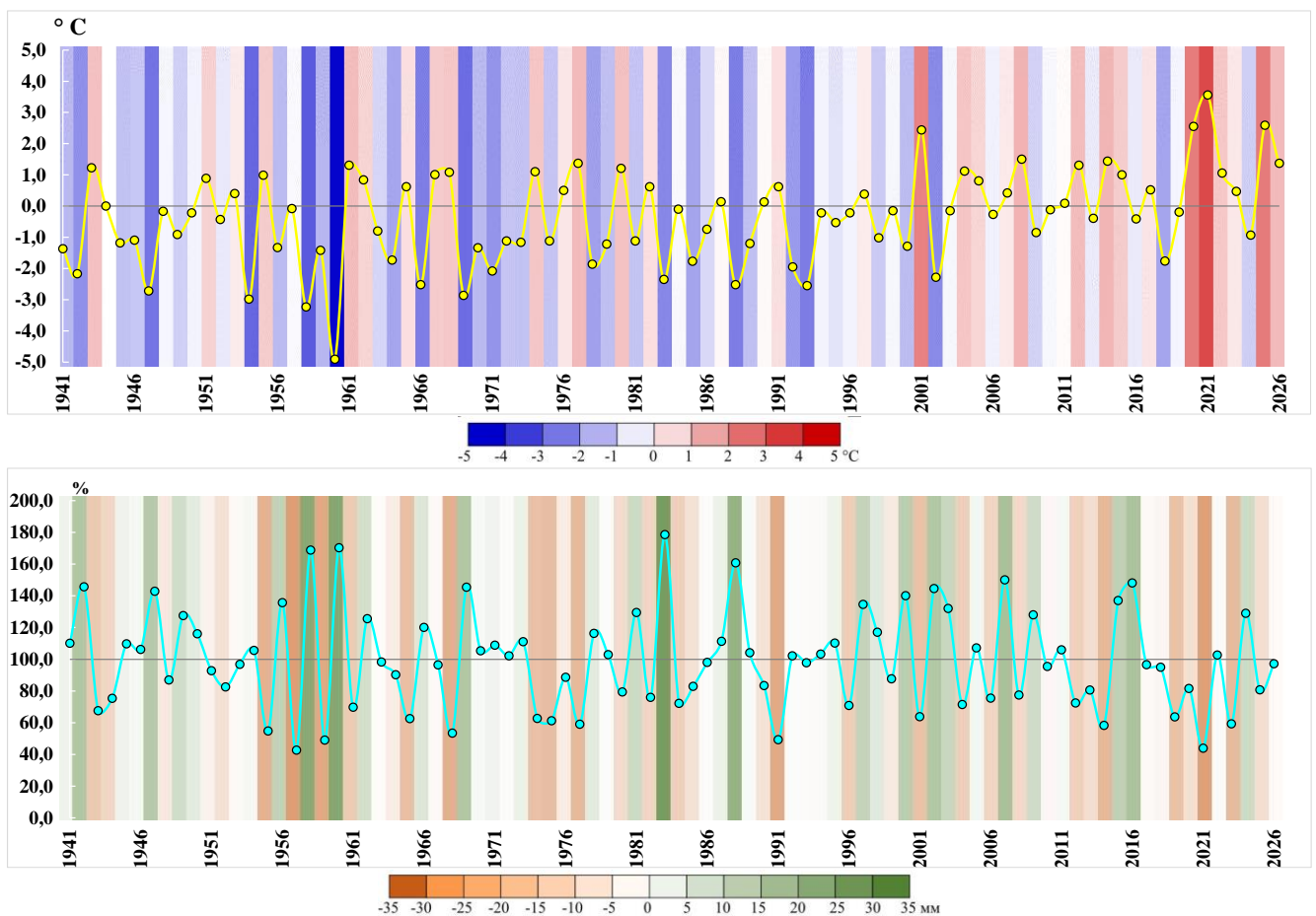


Figure 1 – Time series of air temperature anomalies (a) (°C) and precipitation anomalies (b) (%) for May, averaged across Kazakhstan for the period 1941–2026.

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

## AIR TEMPERATURE

An analysis of the time series of temperature anomalies in May shows an alternation of both negative and positive deviations in air temperature (Fig. 1a). The average air temperature in May 2026 exceeded the climate norm by 1.37 °C. Similar positive deviations from the norm were also observed in previous years of observation (1944, 1984, 2010). May 2021 remains the warmest month for the entire observation period.

In May, positive air temperature anomalies were observed across Kazakhstan (Fig. 2). The greatest deviations from the climate norm (2.5–3.1 °C) were recorded in the

southwestern, central, and northern regions of the country.

At four meteorological stations located in the aforementioned regions, extremely high positive temperature anomalies were recorded with a probability of non-exceedance of 95–100 %.

Negative anomalies were observed in the Mangistau and East Kazakhstan regions (from –0.1 °C to –1.2 °C), as well as in the Abai region (–0.2 °C). Air temperatures in some areas of the western, northeastern, eastern, central, and southern parts of the country were in line with the climatic norm.

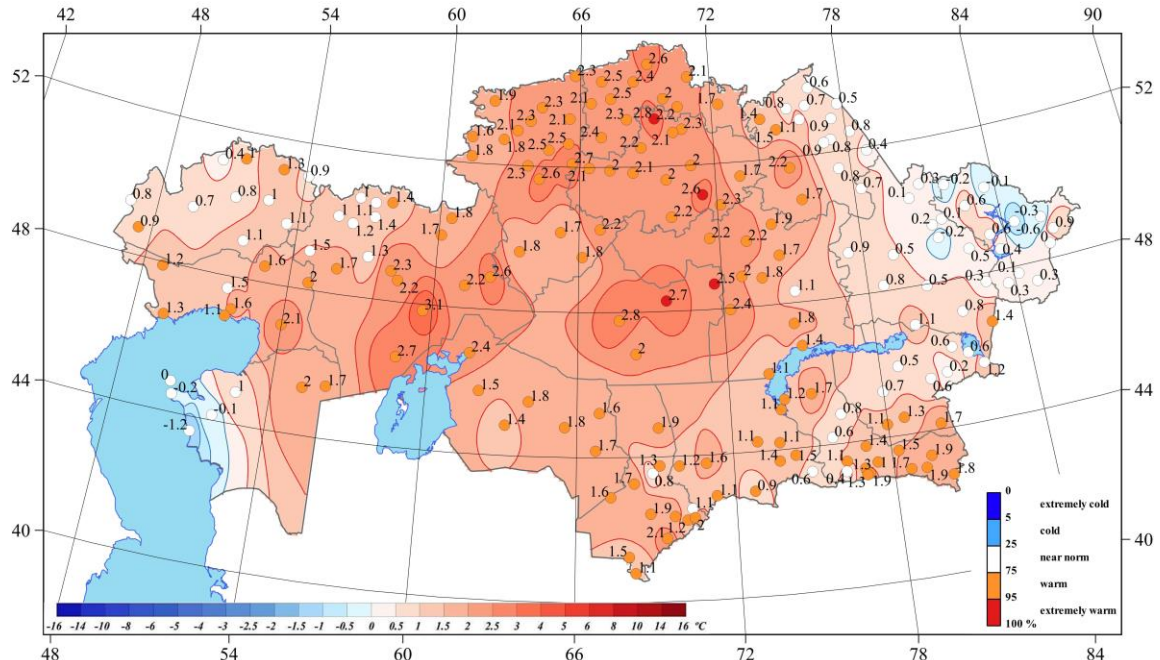


Figure 2 – Spatial distribution of anomalies of mean monthly air temperature (°C), (relatively to the norms for the period 1991–2020 years) and distribution of probabilities of non-exceedance of air temperature in May 2026 year, the period 1941–2026 years

## PRECIPITATION

In May 2026, precipitation was –0.95 mm below the climatological norm.

An analysis of the time series of precipitation anomalies in May shows an alternation of both dry and wet periods. A precipitation deficit has persisted over the past two years. May 2026 was characterized by an uneven distribution of precipitation across the country (Fig. 1b).

Precipitation exceeding 120 % of the climatological norm was recorded in the western regions of the country, in the north and south of the Kostanay region, the north of the Akmola and Pavlodar regions, as well as in the southern and southeastern regions and locally in the Kyzylorda region. Maximum values ranging from 211 to 409 % of the norm were observed in some areas of the western, northern, and

southern regions of the country. At six meteorostations in the Atyrau, Aktobe, Kostanay, Zhambyl, and Almaty regions, moisture conditions were characterized as extremely wet (5 % of extremes).

A precipitation deficit was observed in the Karaganda and East Kazakhstan regions, as well as in the Abai region, the eastern parts of the Akmola and Pavlodar regions, and the Ulytau and Zhetisu regions. Small pockets of reduced

precipitation were also noted in West Kazakhstan, Mangistau, Aktobe, Kyzylorda, Kostanay, North Kazakhstan, and Zhambyl regions.

Values corresponding to the “extremely dry” category (probability of non-exceedance 0–5 %) were recorded at the following meteorostations: Karaganda (Karaganda Region) and Zhalanashkol (Zhetisu Region).

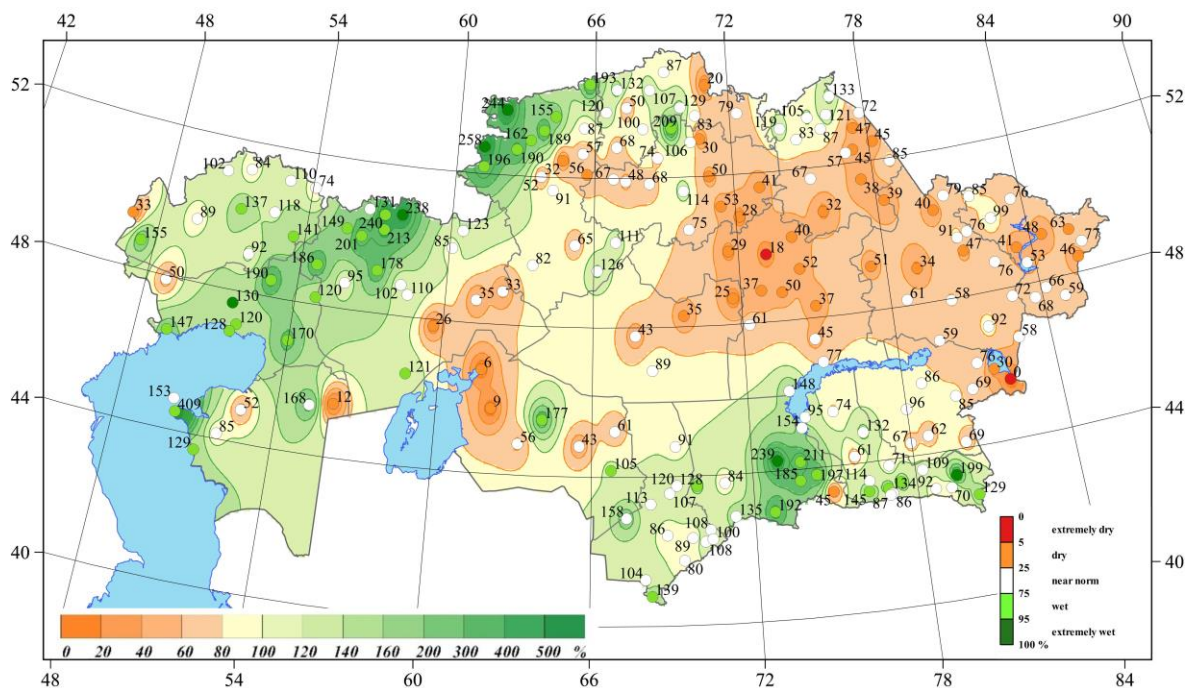


Figure 3 – Spatial distribution of atmospheric precipitation (as % of the norm, for the period 1991–2020) and the probability of non-exceedance of precipitation in May 2026 (period 1941–2026 years)

Prepared by the Climate Research Department  
Research Center, RSE "Kazhydromet" (Astana)

Contributors:  
Zh. Dyussenova – Leading Researcher  
N. Abdolla – Leading Engineer