Temperature and precipitation records in January –

contrasts and anomalies

January 2025 in Kazakhstan was extremely warm, the average air temperature exceeded the long-term norm by 1-6 °. Against the background of high anomalies, temperature records were recorded.

For example: on January 3, the air temperature at the Kostanay meteorological station (hereinafter referred to as MS) was +3.4°C, thereby updating the record of +2.5°C in 1971, and the maximum air temperature at MS Petropavlovsk increased to +2.6°C, surpassing the record of +0.2°C in 1995. On January 4, the same was true for MS Petropavlovsk recorded a record of +1.3°C, the previous one was in 1995 +0.3°C, in the Akmola region on MS Kokshetau, the daytime air temperature rose to +1.5°C, which was a record for this day, the previous record was in 1984 -0.1°C. On January 5, the air warmed up to +3.0°C in the afternoon at MS Uralsk, surpassing the previous record of +2.1°C in 2023.

In the second and early third decades of January, records were also observed in the north, east and center of the country. So, on January 14 at MS Karaganda in the afternoon, the air warmed up to +3.4 °C, surpassing the 1976 record of +0.6 °C, on January 18 at MS Semey, the thermometer rose to +0.7 °C, thereby surpassing the 1982 record of +0.5°C. On January 19 at MS Zhezkazgan, the maximum air temperature was +1.0°C, the last time the absolute maximum for this day was in 2019 - +0.9°C. On January 20, the maximum temperature in Petropavlovsk rose to -0.6°C, surpassing the 2019 record. -0.9°C. On January 20, at MS Semey, the air warmed up to +1.4°C in the afternoon, surpassing the 1989 record of +1.2°C. On January 21, at MS Balkhash, +1.3°C was recorded, the 1977 record of +1.0°C was updated, at MS Kokshetau, the maximum air temperature rose to -0.2°C, surpassing the record 2019 -0.6°C, the maximum temperature in MS Pavlodar was +1.1°C, surpassing the record of 2019 +0.8°C. On January 22, the air at MS Semey warmed up to +1.7 °C, the last time the absolute maximum for this day was in 1983 - +1.2 ° C, at MS Ust-Kamenogorsk +5.0 ° C was recorded, surpassing the record of 2002. +3.0°C.

But it was not without frosty days. In the middle of the third decade of the month, with the arrival of cold air masses from the areas of the Taimyr Peninsula, the air temperature in the northern half of the country dropped at night to -25-35 °C.

Heavy snow was often observed throughout the republic during the month, but only in MS Sayak (Karaganda region) on January 22, more than the monthly norm fell – 14 mm against the monthly norm of 11 mm.

In Astana, the temperature background was above the climatic norm by 5°. The highest air temperature was observed on January 20 +0.4°C. The lowest air temperature was recorded on January 24th at -30.5°C. Precipitation for the month was 36 mm, while the norm for the month was 18 mm, i.e. 2 times more than the norm.

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