Małgorzata BINIAK-PIERÓG, Joanna KAJEWSKA-SZKUDLAREK, Andrzej ŻYROMSKI, László LAKATOS

LONG-TERM TENDENCIES OF MAXIMUM AIR TEMPERATURE IN THE WINTER HALF-YEAR IN WROCLAW-SWOJEC

Key words: climate change, frequency, maximum air temperature, tendencies, winter half-year

Summary

Based on 50-year (1961/1962–2010/2011) observation series of daily maximum air temperatures during the winter half-year (November to April) from Wroclaw-Swojec Observatory, trends in the number of days with maximum temperature in adopted 1.0°C ranges were assessed. Temperatures ranged from –20.0°C to 30.0°C. A similar analysis was also performed for the years 1971/1972–2000/2001, which is now recognized as a climatological norm. Regardless of the length of analysed period, a significant increase of the maximum temperature was observed in January in Wroclaw-Swojec. For the sequence extended to 50 years, similarly significant increase of the value was observed for February. The number of days with air temperature in the range from 15.1 to 16.0°C in November, from 10.1 to 11.0°C in December, from 10.1 to 13.0°C in January, from 7.1 to 8.0°C in February and from 13.1 to 14.0°C in March significantly increased in the years 1961/1962–2010/2011.